

 D

Е

CONTENTS

PARKING, LICENSE PLATE AND TAIL LAMP SYSTEM	F G
DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM)12	Н
COMMON ITEM	I
HEADLAMP13 HEADLAMP : CONSULT Function (BCM - HEAD LAMP)13	J
FLASHER13 FLASHER : CONSULT Function (BCM - FLASH-ER)14	K
COMB SW14 COMB SW : CONSULT Function (BCM - COMB SW)	EXL
BATTERY SAVER15 BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)15	N
DIAGNOSIS SYSTEM (BCM) (WITHOUT IN- TELLIGENT KEY SYSTEM)16	0
COMMON ITEM16 COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)16	Р
HEADLAMP17 HEADLAMP : CONSULT Function (BCM - HEAD LAMP)17	•
FLASHER17	

FLASHER: CONSULT Function (BCM - FLASH-	BCM (BODY CONTROL SYSTEM) (WITHOUT INTELLIGENT KEY SYSTEM): Diagnosis Proce-	
ER)	dura	60
COMB SW	18	
COMB SW : CONSULT Function (BCM - COMB SW)	18 IPDM E/R (WITH INTELLIGENT KEY SYSTEM) 18 IPDM E/R (WITH INTELLIGENT KEY SYSTEM) :	. 70
3vv)	Diagnosis Procedure	70
BATTERY SAVER	18	. , 0
BATTERY SAVER : CONSULT Function (BCM -	IPDM E/R (WITHOUT INTELLIGENT KEY SYS-	
BATTERY SAVER)		. 71
DIAGNOSIS SYSTEM (IPDM E/R)	IPDM E/R (WITHOUT INTELLIGENT KEY SYS-	
Diagnosis Description		. 71
CONSULT Function (IPDM E/R)		. 73
,	Description	
ECU DIAGNOSIS INFORMATION	Component Function Check	
BCM, IPDM E/R	Diagnosis Procedure	. 73
List of ECU Reference		
List of Loo Neiclefice	24 HEADLAMP (LO) CIRCUIT	
WIRING DIAGRAM	25 Component Function Check	
	Dia ana aig Daga aduma	
HEADLAMP	25	
Wiring Diagram	25 PARKING LAMP CIRCUIT	. 79
DAYTIME LIGHT SYSTEM	31 Description	
Wiring Diagram	Component Function Check	
	Diagnosis Procedure	. 79
FRONT FOG LAMP	THEN SIGNAL LAMB CIDCHIT	82
Wiring Diagram	Description	
TURN SIGNAL AND HAZARD WARNING	Component Function Check	
LAMP SYSTEM		
Wiring Diagram	4.4	
	FRONT FOG LAWF CIRCUIT	
PARKING, LICENSE PLATE AND TAIL	Component Function Check	
LAMPS SYSTEM	Component Inspection	
Wiring Diagram		
STOP LAMP	58 SYMPTOM DIAGNOSIS	. 88
Wiring Diagram	E0	
	EXTERIOR LIGHTING STSTEW STWIPTOWA	
BACK-UP LAMP		. 88
Wiring Diagram	62 BOTH SIDE HEADLAMPS DO NOT SWITCH	
BASIC INSPECTION	66 TO HIGH BEAM	. 90
D/1010 11101 E011011	Description	. 90
DIAGNOSIS AND REPAIR WORKFLOW	66 Diagnosis Procedure	. 90
Work Flow	BOTH SIDE HEADLAMPS (LO) ARE NOT	
DTC/CIRCUIT DIAGNOSIS		04
DIC/CIRCUIT DIAGNOSIS	Description	
POWER SUPPLY AND GROUND CIRCUIT	69 Diagnosis Procedure	
	Diagnosis i rocedure	. 9 1
BCM (BODY CONTROL SYSTEM) (WITH INTEL-	PARKING, LICENSE PLATE AND TAIL	
LIGENT KEY SYSTEM)	LAMPS ARE NOT TURNED ON	. 92
BCM (BODY CONTROL SYSTEM) (WITH INTEL- LIGENT KEY SYSTEM): Diagnosis Procedure	Description	
, ,	Diagnosis Procedure	. 92
BCM (BODY CONTROL SYSTEM) (WITHOUT IN-	BOTH SIDE FRONT FOG LAMPS ARE NOT	
TELLIGENT KEY SYSTEM)	69 TURNED ON	93
	Description	
	Diagnosis Procedure	

PERIODIC MAINTENANCE94
HEADLAMP AIMING ADJUSTMENT94 Inspection94 Aiming Adjustment Procedure95
FRONT FOG LAMP AIMING ADJUSTMENT97 Inspection
FRONT COMBINATION LAMP
FRONT FOG LAMP
COMBINATION SWITCH
HAZARD SWITCH
REAR COMBINATION LAMP 105 Exploded View 105

Removal and Installation	-
HIGH-MOUNTED STOP LAMP107	
Exploded View107	
Removal and Installation107	
Bulb Replacement107	
LICENSE PLATE LAMP108	
Exploded View108	
Removal and Installation108	
Bulb Replacement108	
UNIT DISASSEMBLY AND ASSEMBLY . 109	
FRONT COMBINATION LAMP109	
Exploded View109	
Disassembly and Assembly109	
REAR COMBINATION LAMP110	
Exploded View110	
Disassembly and Assembly110	
SERVICE DATA AND SPECIFICATIONS	
(SDS)111	
SERVICE DATA AND SPECIFICATIONS	
(SDS)111	
Bulb specification111	

EXL

Κ

Α

В

С

 D

Е

F

G

Н

M

Ν

0

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

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

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

WARNING:

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

Precaution for Work

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

PREPARATION

< PREPARATION >

PREPARATION

PREPARATION

Special Service Tool

OID:0000000009445895
OID:0000000009445895

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

AWJIA0483ZZ

E

G

Α

В

Н

|

Κ

J

EXL

M

Ν

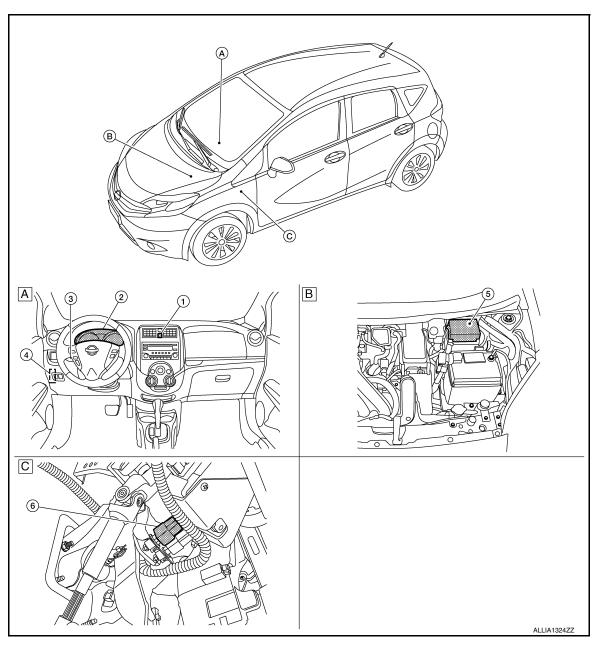
0

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:0000000009694016



A. Instrument panel

B. LH side of engine compartment

C. Brake pedal area

Component Description

INFOID:0000000009694017

No.	Part name	Description
1.	Hazard switch	Hazard flasher request signal is output to the BCM.

COMPONENT PARTS

< SYSTEM DESCRIPTION >

2.	Combination meter	 Blinks the turn signal indicator lamp and outputs the turn signal operating sound with integrated buzzer according to the request from BCM (via CAN communication). Turns the tail lamp indicator lamp and high beam indicator lamp ON according to the request from BCM (via CAN communication).
3.	Combination switch (lighting and turn signal switch)	Refer to EXL-10, "TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM: System Description".
4.	BCM	Controls the exterior lighting system.
5.	Daytime light relays 1 and 2 (if equipped), front fog lamp relay)	Controls the integrated relay, and supplies voltage to the load according to the request from BCM (via CAN communication).
6.	Stop lamp switch	Stop lamp signal is output to the rear combination lamps and high-mounted stop lamp.

С

В

Α

D

Е

F

G

Н

J

Κ

EXL

 \mathbb{N}

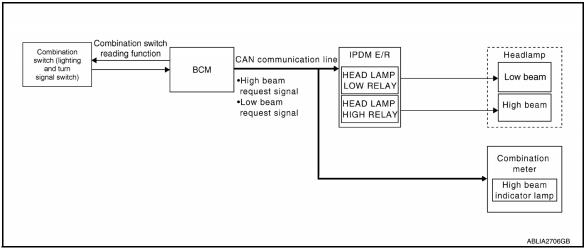
Ν

0

SYSTEM HEADLAMP SYSTEM

HEADLAMP SYSTEM: System Diagram

INFOID:0000000009694018



HEADLAMP SYSTEM: System Description

INFOID:0000000009694019

LOW BEAM OPERATION

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

HIGH BEAM OPERATION/FLASH-TO-PASS OPERATION

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

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

EXTERIOR LAMP BATTERY SAVER CONTROL

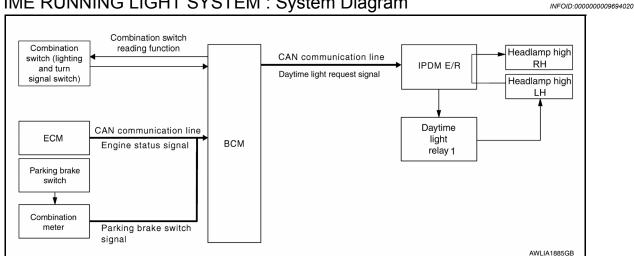
With the combination switch (lighting and turn signal switch) in the 2nd position and the ignition switch is turned from ON or ACC to OFF, the battery saver feature is activated.

Under this condition, the headlamps remain illuminated for 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. Refer to <u>BCS-18</u>, "<u>HEADLAMP</u>: <u>CONSULT Function (BCM - HEADLAMP)"</u>.

DAYTIME RUNNING LIGHT SYSTEM

DAYTIME RUNNING LIGHT SYSTEM: System Diagram



DAYTIME RUNNING LIGHT SYSTEM: System Description

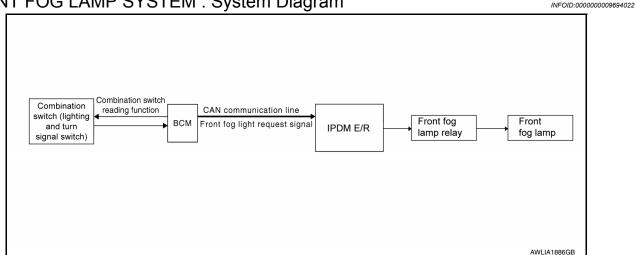
The headlamp system for Canada vehicles is equipped with a daytime light relay 1 that activates the high beam headlamps at approximately half illumination whenever the engine is operating and the lighting switch is in the OFF position. If the parking brake is applied before the engine is started the daytime lights will not be illuminated. The daytime lights will illuminate once the parking brake is released. With the lighting switch in the 2nd position the headlamps function the same as conventional light systems.

The BCM monitors inputs from the parking brake switch and the lighting 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 1 which in turn, provides power to the ground side of the LH high beam lamp. Power flows backward through the LH high beam lamp to the IPDM E/R, through fuse 35, fuse 34 and to the RH high beam lamp and on to ground. The high beam lamps are wired in series which causes them to illuminate at a reduced intensity.

FRONT FOG LAMP SYSTEM

FRONT FOG LAMP SYSTEM: System Diagram



FRONT FOG LAMP SYSTEM: System Description

FRONT FOG LAMP OPERATION

When the combination switch (lighting and turn signal switch) is in front fog lamp ON position and also in 1ST or 2ND position (headlamp is ON), the BCM detects FR FOG ON and the HEAD LAMP 1 or 2 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.

EXL-9 2014 Versa Note Revision: May 2013

Α

D

Е

INFOID:0000000009694021

EXL

N

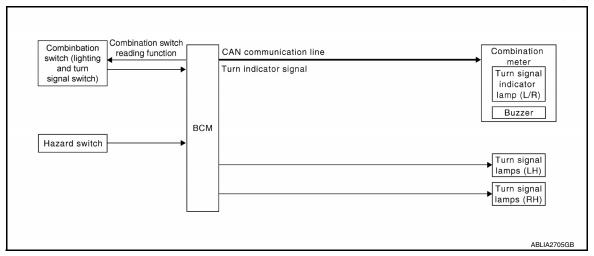
P

INFOID:0000000009694023

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM: System Diagram

INFOID:0000000009694024



TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM: System Description

INFOID:0000000009694025

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

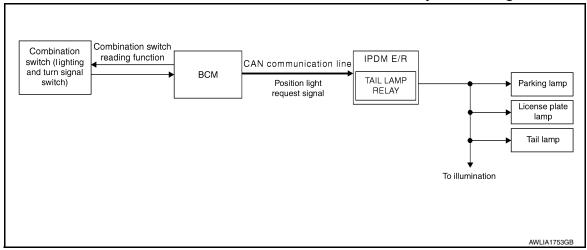
When the hazard switch is in ON position, the BCM detects the hazard switch signal ON. The BCM outputs the flasher output signal (right and left). The BCM sends a hazard indicator signal ON request through the CAN communication lines to the combination meter. The combination meter then activates the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

REMOTE KEYLESS ENTRY OPERATION

The remote keyless entry receiver transmits hazard lamp signal to BCM, then BCM controls hazard lamps. Refer to <a href="https://doi.org/10.103/j.j.gov/pc-10.103/j.gov/pc-10.103/j.gov/

PARKING, LICENSE PLATE AND TAIL LAMP SYSTEM

PARKING, LICENSE PLATE AND TAIL LAMP SYSTEM: System Diagram INFOID-000000009694026



SYSTEM

< SYSTEM DESCRIPTION >

PARKING, LICENSE PLATE AND TAIL LAMP SYSTEM: System Description

NFOID:0000000009694027

PARKING, LICENSE PLATE AND TAIL LAMPS OPERATION

When the combination switch (lighting and turn signal 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.

С

D

Е

В

Α

EXTERIOR LAMP BATTERY SAVER CONTROL

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

Under this condition, the headlamps remain illuminated for 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. Refer to <u>BCS-24</u>, "<u>BATTERY SAVER</u>: <u>CONSULT Function (BCM - BATTERY SAVER)</u>" (with I-Key) or <u>BCS-91</u>, "<u>BATTERY SAVER</u>: <u>CONSULT Function (BCM - BATTERY SAVER)</u>" (without I-Key).

F

Н

1

J

K

EXL

M

Ν

0

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM) COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000009730874

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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

SYSTEM APPLICATION

BCM can perform the following functions.

				Direct [Diagnosti	c Mode		
System	Sub System	ECU identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN DIAG SUPPORT MNTR
Door lock	DOOR LOCK		×	×	×	×		
Rear window defogger	REAR DEFOGGER			×	×			
Warning chime	BUZZER			×	×			
Interior room lamp timer	INT LAMP			×	×	×		
Exterior lamp	HEAD LAMP			×	×	×		
Wiper and washer	WIPER			×	×	×		
Turn signal and hazard warning lamps	FLASHER			×	×			
Air conditioner	AIR CONDITIONER			×				
Intelligent Key system	INTELLIGENT KEY		×	×	×	×		
Combination switch	COMB SW			×				
BCM	BCM	×	×			×	×	×
Immobilizer	IMMU		×		×	×		
Interior room lamp battery saver	BATTERY SAVER			×	×	×		
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×		×		
Signal buffer system	SIGNAL BUFFER			×				
TPMS	AIR PRESSURE MONITOR		×	×	×	×		
Panic alarm system	PANIC ALARM				×			

< SYSTEM DESCRIPTION >

HEADLAMP

HEADLAMP : CONSULT Function (BCM - HEAD LAMP)

INFOID:0000000009730875

Α

В

C

 D

Е

F

Н

K

EXL

Ν

0

Р

DATA MONITOR

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

ACTIVE TEST

Test Item	Description
FR FOG LAMP	This test is able to check front fog lamp operation [On/Off].
HEAD LAMP	This test is able to check head lamp operation [Hi/Low/Off].
ILL DIM SIGNAL	This test is able to check head lamp illumination dimming operation [On/Off].
TAIL LAMP	This test is able to check tail lamp operation [On/Off].

WORK SUPPORT

Support Item	Se	tting	Description	•
BATTERY SAVER SET	On*		Exterior lamp battery saver function ON.	•
BALLERT SAVER SET	Off		Exterior lamp battery saver function OFF.	•
	MODE 8	180 sec.		•
	MODE 7	150 sec.		
	MODE 6	120 sec.		
ILL DELAY SET	MODE 4	60 sec.	Sets delay timer function operation time	
	MODE 5	90 sec.	(All doors closed).	
	MODE 3	30 sec.		
	MODE 2	OFF		
	MODE 1*	45 sec.		

^{*:} Initial setting

FLASHER

Revision: May 2013 EXL-13 2014 Versa Note

< SYSTEM DESCRIPTION >

FLASHER : CONSULT Function (BCM - FLASHER)

INFOID:0000000009730876

DATA MONITOR

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

ACTIVE TEST

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

WORK SUPPORT

Support Item	Setting	Description				
HAZARD ANSWER BACK	Lock/Unlock*	Hazard warning lamp activation when doors are locked or unlocked with Intelligent Key.				
	Unlock Only	Hazard warning lamp activation when doors are unlocked with Intelligent Key.				
	Lock Only	Hazard warning lamp activation when doors are locked with Intelligent Key.				
	Off	No hazard warning lamp activation when doors are locked or unlocked with Intelligent Key.				

^{*:} Initial setting COMB SW

COMB SW: CONSULT Function (BCM - COMB SW)

INFOID:0000000009730877

DATA MONITOR

Monitor Item [Unit]	Description
FR WIPER HI [On/Off]	
FR WIPER LOW [On/Off]	Indicates condition of wiper operation of combination switch.
FR WASHER SW [On/Off]	indicates condition of wiper operation of combination switch.
FR WIPER INT [On/Off]	
INT VOLUME [1 - 7]	Indicates condition of intermittent wiper operation of combination switch.
RR WIPER ON [On/Off]	
RR WIPER INT [On/Off]	Indicates condition of rear wiper operation of combination switch.
RR WASHER SW [On/Off]	
TURN SIGNAL R [On/Off]	Indicates condition of right turn signal operation of combination switch.
TURN SIGNAL L [On/Off]	Indicates condition of left turn signal operation of combination switch.
TAIL LAMP SW [On/Off]	Indicates condition of tail lamp switch operation of combination switch.

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description
HI BEAM SW [On/Off]	Indicates condition of Hi beam switch operation of combination switch.
HEAD LAMP SW 1 [On/Off]	Indicates condition of head lamp switch 1 operation of combination switch.
HEAD LAMP SW 2 [On/Off]	Indicates condition of head lamp switch 2 operation of combination switch.
PASSING SW [On/Off]	Indicates condition of passing switch operation of combination switch.
FR FOG SW [On/Off]	Indicates condition of front fog lamp switch operation of combination switch.

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:0000000009755803

Α

В

 D

Е

F

Н

DATA MONITOR

Monitor Item [Unit]	Description	
REQ SW -DR [On/Off]	Indicates condition of door request switch LH.	
REQ SW -AS [On/Off]	Indicates condition of door request switch RH.	
PUSH SW [On/Off]	Indicates condition push-button ignition switch.	
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor.	
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.	
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.	
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.	
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.	
DOOR SW-BK [On/Off]	Indicates condition of back door switch.	
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.	
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.	
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.	
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.	
RKE-LOCK [On/Off]	Indicates condition of lock signal from Intelligent Key.	
RKE-UNLOCK [On/Off]	Indicates condition of unlock signal from Intelligent Key.	

ACTIVE TEST

Test item	Description				
BATTERY SAVER	This test is able to check battery saver operation [On/Off].				

WORK SUPPORT

Support Item	Setting		Description				
BATTERY SAVER SET	ON*		Exterior lamp battery saver function ON.				
DATTENT SAVENSET	OFF		Exterior lamp battery saver function OFF.				
ROOM LAMP TIMER SET	MODE 3*	10 min.					
	MODE 2	60 min.	Sets interior room lamp battery saver timer operating time.				
	MODE 1	15 min.					

^{*:} Initial setting

Revision: May 2013 EXL-15 2014 Versa Note

EXL

K

M

Ν

0

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM) (WITHOUT INTELLIGENT KEY SYSTEM) COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000009730878

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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

SYSTEM APPLICATION

BCM can perform the following functions.

		Direct Diagnostic Mode						
System	Sub System	ECU identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN DIAG SUPPORT MNTR
Door lock	DOOR LOCK		×	×	×	×		
Rear window defogger	REAR DEFOGGER			×	×			
Warning chime	BUZZER			×	×			
Interior room lamp timer	INT LAMP			×	×	×		
Remote keyless entry system	MULTI REMOTE ENT			×	×	×		
Exterior lamp	HEAD LAMP			×	×	×		
Wiper and washer	WIPER			×	×	×		
Turn signal and hazard warning lamps	FLASHER			×	×			
Air conditioner	AIR CONDITIONER			×				
Combination switch	COMB SW			×				
BCM	BCM	×	×			×	×	×
Immobilizer	IMMU		×		×	×		
Interior room lamp battery saver	BATTERY SAVER			×	×	×		
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×		×		
Signal buffer system	SIGNAL BUFFER			×	×			
TPMS	AIR PRESSURE MONITOR		×	×	×	×		
Panic alarm system	PANIC ALARM				×			

< SYSTEM DESCRIPTION >

HEADLAMP

HEADLAMP: CONSULT Function (BCM - HEAD LAMP)

INFOID:0000000009730884

Α

В

D

Ε

F

Н

K

EXL

Ν

0

Р

DATA MONITOR

Monitor Item [Unit]	Description			
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.			
ACC ON SW [On/Off]	Indicates condition of ignition switch ACC position.			
HI BEAM SW [On/Off]				
HEAD LAMP SW 1 [On/Off]				
HEAD LAMP SW 2 [On/Off]				
TAIL LAMP SW [On/Off]	Indicates condition of combination switch.			
PASSING SW [On/Off]				
FR FOG SW [On/Off]				
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.			
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.			
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.			
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.			
DOOR SW-BK [On/Off]	Indicates condition of back door switch.			
TURN SIGNAL R [On/Off]	Indicates condition of combination switch.			
TURN SIGNAL L [On/Off]	indicates condition of combination switch.			
KEY ON SW [On/Off]	Indicates condition of key switch.			
KEYLESS LOCK [On/Off]	Indicates condition of lock signal from keyfob.			
PKB SW [On/Off]	Indicates park brake switch signal received from combination meter on CAN communication line.			
ENGINE RUN [On/Off]	Indicates engine run signal received from ECM on CAN communication line.			
VEHICLE SPEED [km/h/mph]	Indicates vehicle speed signal received from combination meter on CAN communication line.			

ACTIVE TEST

Test Item	Description		
TAIL LAMP	This test is able to check tail lamp operation [On/Off].		
HEAD LAMP	This test is able to check head lamp operation [Hi/Low/Off].		
FR FOG LAMP	This test is able to check front fog lamp operation [On/Off].		
ILL DIM SIGNAL	This test is able to check head lamp illumination dimming operation [On/Off].		

WORK SUPPORT

Support Item	Setting	Description		
BATTERY SAVER SET	On*	Exterior lamp battery saver function ON.		
	Off	Exterior lamp battery saver function OFF.		

^{*:} Initial setting

FLASHER

FLASHER: CONSULT Function (BCM - FLASHER)

INFOID:0000000009730886

DATA MONITOR

Revision: May 2013 EXL-17 2014 Versa Note

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description	
HAZARD SW [On/Off]	Indicates condition of hazard switch.	
TURN SIGNAL R [On/Off]	Indicates condition of turn signal function of combination switch.	
TURN SIGNAL L [On/Off]	- indicates condition of turn signal function of combination switch.	

ACTIVE TEST

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

COMB SW

COMB SW: CONSULT Function (BCM - COMB SW)

INFOID:0000000009730888

DATA MONITOR

Monitor Item [Unit]	Description			
TURN SIGNAL R [On/Off]	Indicates condition of right turn signal operation of combination switch.			
TURN SIGNAL L [On/Off]	Indicates condition of left turn signal operation of combination switch.			
HI BEAM SW [On/Off]	Indicates condition of Hi beam switch operation of combination switch.			
HEAD LAMP SW 1 [On/Off]	Indicates condition of head lamp switch 1 operation of combination switch.			
HEAD LAMP SW 2 [On/Off]	Indicates condition of head lamp switch 2 operation of combination switch.			
TAIL LAMP SW [On/Off]	Indicates condition of tail lamp switch operation of combination switch.			
PASSING SW [On/Off]	Indicates condition of passing switch operation of combination switch.			
FR FOG SW [On/Off]	Indicates condition of front fog lamp switch operation of combination switch.			
FR WIPER HI [On/Off]				
FR WIPER LOW [On/Off]	Indicates condition of front wiper operation of combination switch.			
FR WIPER INT [On/Off]	Indicates condition of front wiper operation of combination switch.			
FR WASHER SW [On/Off]				
INT VOLUME [1 - 7]	Indicates condition of intermittent front wiper operation of combination switch.			
RR WIPER ON [On/Off]				
RR WIPER INT [On/Off]	Indicates condition of rear wiper operation of combination switch.			
RR WASHER SW [On/Off]				

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:0000000009730891

DATA MONITOR

Monitor Item [Unit]	Description	
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.	
KEY ON SW [On/Off]	Indicates condition of key switch.	
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.	
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.	
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.	
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.	
DOOR SW-BK [On/Off]	Indicates condition of back door switch.	
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.	

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description		
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.		
KEYLESS LOCK [On/Off]	Indicates condition of lock signal from keyfob.		
KEYLESS UNLOCK [On/Off]	Indicates condition of unlock signal from keyfob.		
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.		
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.		
ACC SW [On/Off]	Indicates condition of ignition switch ACC position.		

ACTIVE TEST

Test item	Description
BATTERY SAVER	This test is able to check battery saver operation [On/Off].

WORK SUPPORT

Support Item	Setting		Description
	MODE 3*	10 min.	
ROOM LAMP TIMER SET	MODE 2	60 min.	Sets interior room lamp battery saver timer operating time.
	MODE 1	15 min.	

^{* :} Initial setting

Н

Α

В

С

 D

Е

F

G

K

EXL

 \mathbb{N}

Ν

0

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (IPDM E/R)

Diagnosis Description

INFOID:0000000009730903

AUTO ACTIVE TEST

Description

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

- Front wiper (LO, HI)
- Parking lamp
- License plate lamp
- Tail lamp
- · Front fog lamp
- Headlamp (LO, HI)
- A/C compressor (magnet clutch)
- · Cooling fan

Operation Procedure

NOTE:

Never perform auto active test in the following conditions.

- · Passenger door is open
- CONSULT is connected
- Close the hood and lift the wiper arms from the windshield. (Prevent windshield damage due to wiper operation)

NOTE:

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

- 2. Turn the ignition switch OFF.
- 3. Turn the ignition switch ON, and within 20 seconds, press the driver door switch 10 times. Then turn the ignition switch OFF.
- 4. Turn the ignition switch ON within 10 seconds. After that the horn sounds once and the auto active test starts.
- 5. After a series of the following operations is repeated 3 times, auto active test is completed.

NOTE

- When auto active test has to be cancelled halfway through test, turn the ignition switch OFF.
- When auto active test is not activated, door switch may be the cause. Check door switch. Refer to INL-43, "Component Function Check".

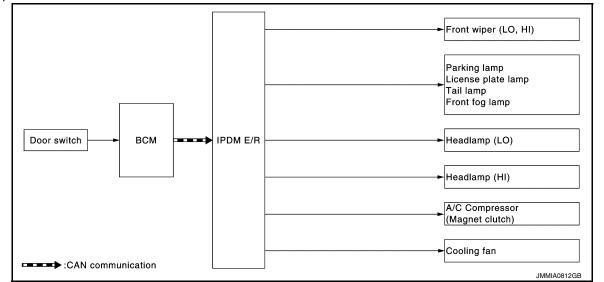
Inspection in Auto Active Test

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

Operation sequence	Inspection location	Operation		
1	Front wiper	LO for 5 seconds → HI for 5 seconds		
2	Parking lamp License plate lamp Tail lamp Front fog lamp	10 seconds		
3	Headlamp	LO for 10 seconds →HI ON ⇔ OFF 5 times		
4	A/C compressor (magnet clutch)	ON ⇔ OFF 5 times		
5	Cooling fan	LO for 5 seconds \rightarrow MID for 3 seconds \rightarrow HI for 2 seconds		

< SYSTEM DESCRIPTION >

Concept of Auto Active Test



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

Diagnosis Chart in Auto Active Test

Symptom	Inspection contents		Possible cause
Any of the following components do not operate		YES	BCM signal input circuit
 Parking lamp License plate lamp Tail lamp Front fog lamp Headlamp (HI, LO) Front wiper (HI, LO) 	Perform auto active test. Does the applicable system operate?	NO	Lamp or motor Lamp or motor ground circuit Harness or connector between IPDM E/R and applicable system IPDM E/R
A/C compressor does not operate	Perform auto active test. Does the magnet clutch oper-	YES	BCM signal input circuit CAN communication signal between BCM and ECM CAN communication signal between ECM and IPDM E/R
	ate?	NO	Magnet clutch Harness or connector between IPDM E/R and magnet clutch IPDM E/R
	Perform auto active test	YES	ECM signal input circuit CAN communication signal between ECM and IPDM E/R
Cooling fan does not operate	Does the cooling fan operate?	NO	Cooling fan motor Harness or connector between IPDM E/R and cooling fan motor IPDM E/R

CONSULT Function (IPDM E/R)

INFOID:0000000009730904

Α

В

D

Е

Н

K

Ν

Р

APPLICATION ITEM

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

Direct Diagnostic Mode	Description
Ecu Identification	The IPDM E/R part number is displayed.
Self Diagnostic Result	The IPDM E/R self diagnostic results are displayed.
Data Monitor	The IPDM E/R input/output data is displayed in real time.

Revision: May 2013 EXL-21 2014 Versa Note

< SYSTEM DESCRIPTION >

Direct Diagnostic Mode	Description
Active Test	The IPDM E/R activates outputs to test components.
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.

ECU IDENTIFICATION

The IPDM E/R part number is displayed.

SELF DIAGNOSTIC RESULT

Refer to PCS-21, "DTC Index".

DATA MONITOR

Monitor Item [Unit]	Main Signals	Description
MOTOR FAN REQ [1/2/3/4]	×	Indicates cooling fan speed signal received from ECM on CAN communication line
AC COMP REQ [On/Off]	×	Indicates A/C compressor request signal received from ECM on CAN communication line
TAIL&CLR REQ [On/Off]	×	Indicates position light request signal received from BCM on CAN communication line
HL LO REQ [On/Off]	×	Indicates low beam request signal received from BCM on CAN communication line
HL HI REQ [On/Off]	×	Indicates high beam request signal received from BCM on CAN communication line
FR FOG REQ [On/Off]	×	Indicates front fog light request signal received from BCM on CAN communication line
FR WIP REQ [Stop/1LOW/Low/Hi]	×	Indicates front wiper request signal received from BCM on CAN communication line
WIP AUTO STOP [STOP P/ACT P]	×	Indicates condition of front wiper auto stop signal
WIP PROT [Off/BLOCK]	×	Indicates condition of front wiper fail-safe operation
IGN RLY1 -REQ [On/Off]		Indicates ignition switch ON signal received from BCM on CAN communication line
IGN RLY [On/Off]	×	Indicates condition of ignition relay
PUSH SW [On/Off]		Indicates condition of push-button ignition switch
INTER/NP SW [On/Off]		Indicates condition of CVT shift position
ST RLY CONT [On/Off]		Indicates starter relay status signal received from BCM on CAN communication line
IHBT RLY -REQ [On/Off]		Indicates starter control relay signal received from BCM on CAN communication line
ST/INHI RLY [Off/ ST /INHI]		Indicates condition of starter relay and starter control relay
DETENT SW [On/Off]		Indicates condition of CVT shift selector (park position switch)
DTRL REQ [Off]		Indicates daytime light request signal received from BCM on CAN communication line
THFT HRN REQ [On/Off]		Indicates theft warning horn request signal received from BCM on CAN communication line
HORN CHIRP [On/Off]		Indicates horn reminder signal received from BCM on CAN communication line

ACTIVE TEST

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

< SYSTEM DESCRIPTION >

	DIVC	CLIDE		MNTR
UAN	IJIA(1	SUP	つし 尺 1	IVIIVIIR

Refer to LAN-12, "CAN Diagnostic Support Monitor".

Α

В

С

D

Е

F

G

Н

J

Κ

EXL

M

Ν

0

Ρ

BCM, IPDM E/R

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM, IPDM E/R

List of ECU Reference

INFOID:0000000009694047

WITH INTELLIGENT KEY

ECU	Reference				
	BCS-28. "Reference Value"				
BCM	BCS-46, "Fail-safe"				
BCIVI	BCS-47, "DTC Inspection Priority Chart"				
	BCS-48, "DTC Index"				
	PCS-14, "Reference Value"				
IPDM E/R	PCS-20, "Fail-safe"				
	PCS-21, "DTC Index"				

WITHOUT INTELLIGENT KEY

ECU	Reference				
	BCS-95, "Reference Value"				
BCM	BCS-108, "Fail-safe"				
DOW	BCS-109, "DTC Inspection Priority Chart"				
	BCS-109, "DTC Index"				
	PCS-43, "Reference Value"				
IPDM E/R	PCS-48, "Fail-Safe"				
	PCS-49, "DTC Index"				

Α

В

С

D

Е

F

Н

J

K

EXL

M

Ν

0

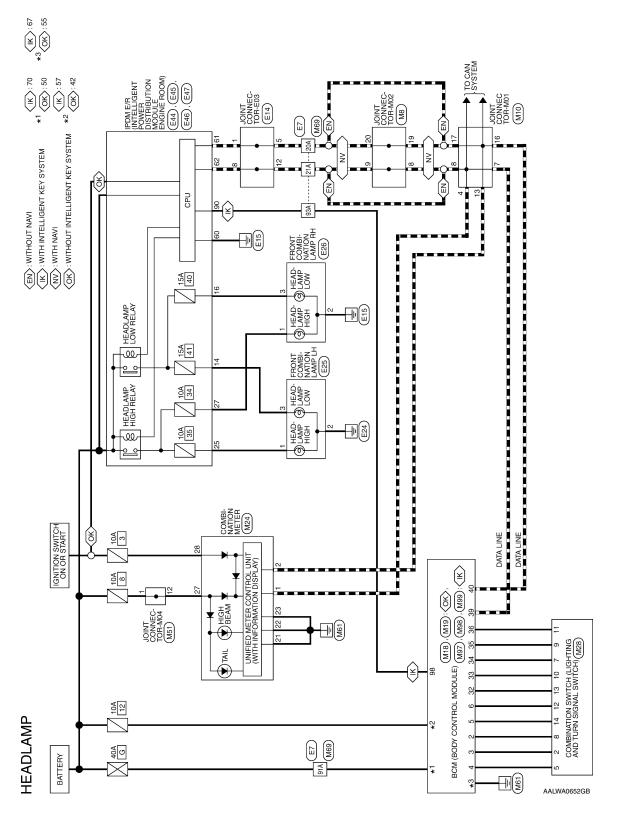
Р

INFOID:0000000009694048

WIRING DIAGRAM

HEADLAMP

Wiring Diagram



HEADLAMP CONNECTORS

Connector No.	M8
Connector Name	Connector Name JOINT CONNECTOR-M02
Connector Color GREEN	GREEN

Connector Name | JOINT CONNECTOR-M01

Connector No. M10

Connector Color BLUE

Signal Name

Color of Wire

Terminal No.

4

۵

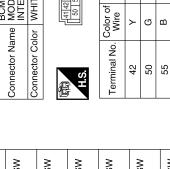
13 17

œ



20 19 18 17 16 15 14 13 12 11 10	Signal Name	ı	ı	ı	ı
20 19 18 17 16	Color of Wire	Г	Г	Ь	۵
H.S.	erminal No. Wire	8	6	19	CC

Connector No.	M19
	BCM (BODY CONTROL
Connector Name	MODULE) (WITHOUT
	INTELLIGENT KEY SYSTEM
Connector Color WHITE	MHITE



Signal Name	COMBINATION SW INPUT 2	COMBINATION SW INPUT 1	COMBINATION SW OUTPUT 5	COMBINATION SW OUTPUT 4	COMBINATION SW INPUT 3	COMBINATION SW OUTPUT 2	COMBINATION SW OUTPUT 1	CAN-H	CAN-L
Color of Wire	ŋ	В	Ь	>	*	GR	ГС	Т	۵
Terminal No.	5	9	32	33	34	35	36	39	40

BATTERY (FUSE) BATTERY (F/L)

GND

Signal Name

		1	19 20 39 40				
Connector Name BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)	E		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	COMBINATION SW INPUT 5	COMBINATION SW INPUT 4	COMBINATION SW
BCM MODI INTEL	r WHITE		7 8 9 27 28 29	Color of Wire	BR	>	_
Connector Nam	Connector Color	原 H.S.	1 2 3 4 5 6 21 22 23 24 25 26	Terminal No.	2	က	7

AALIA1432GB

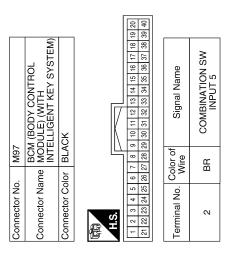
Connector No. M18

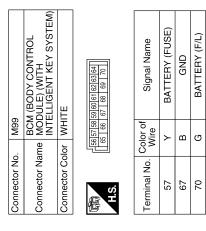
	T																												
Signal Name	1	I	ı	1	1	1								3	Signal Name	ı	-	_	1										
Color of Wire	GR	>	re	æ	<u>a</u>	5								Color of	Wire	۵		G	0										
Terminal No.	6	10	=	12	13	41								ı ⊢	erminai No.	20A	21A	91A	93A										
Te															<u> </u>			F										\neg	
i	JEN H							ame											14	6A	4A 13A 12A 11A	44 con ccn	4A 33A 32A 31A	4A 43A 42A	44 534 524 514 44 634 624 44 734 724 714	4A 83A 82A	91A 96A		
C	COMBINATION SWITCH (LIGHTING AND TURN	SIGNAL SWITCH)		17	4 5 6	11 12 13	i	Signal Name	1	1	1	1			TO WIRE				5A 4A 3A 2A	10A 9A 8A 7A 6A	21A 20A 19A 18A 17A 16A 15A 14A 13A 12A 11A	בטשוביושובישובי	41A 40A 39A 38A 37A 36A 35A 34A 33A 32A 31A	48A 4/A 46A 45A 4	61 A 60 A 59 A 58 A 57 A 56 A 55 A 52 A 57 A 59 A 57 A 59 A 57 A 59 A 57 A 59 A 57 A	90A 89A 88A 87A 86A 85A 84A 83A 82A	95A 94A 93A 92A 91A 100A 99A 98A 97A 96A		
T		\rightarrow	olor WHITE		1 2 3		Color of	. Wire	>	_	8	BB		Vo. M69	Connector Name WIRE TO WIRE	Solor WHITE					21A 20A 19A	אפארחכ	41A 40A 39A	50A 49A	61A 60A 59A 70A 69A 81A 80A 79A	90A 89A			
	Connector Name		Connector Color	Ą		H.S.		Terminal No.	2	2	7	8		Connector No.	Connector N	Connector Color			S										
				3 2	23 22 21																								
				7 6 5	28 27 20 29 24				ON)		(M04														
COMBINIATION METER	SINATION METER		_	13 12 11 10 9	33 32 31 30 29	Signal Name	CAN-H	CAN-L	GND (ILLUMINATION)	GND (POWER)	GND (CIRCUIT)	BAT	IGN		Connector Name JOINT CONNECTOR-M			0	7 16 15 14 13 12 11 \square		Omen Icasio	Olgilai Naille	1	ı					
IMOO omel	Solor WHITE	_		20 19 18 17 16 15 14	38 37 30	o. Wire	_	۵	В	В	В	W/A	GR	No.	Join Join	Solor GRAY	_	0	10 9 6 7 6 5 4		Color of	Wire	p P	B/W					
Oppositor Nam	Connector Color			ď		Terminal No.	-	2	21	22	23	27	28	Connector No.	Connector	Connector Color			S. E.S.		Toriminal No		-	12					
			_															_	_							А	ALIA1433G	ìВ	

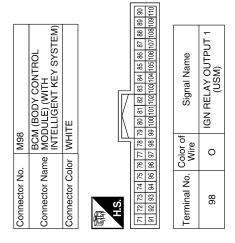
Revision: May 2013 EXL-27 2014 Versa Note

Terminal No. Color of Wire	Color of Wire	Signal Name
34	×	COMBINATION SW OUTPUT 3
35	GR	COMBINATION SW OUTPUT 2
36	Ы	COMBINATION SW OUTPUT 1
39	٦	CAN-H
40	Ь	CAN-L

Signal Name	COMBINATION SW INPUT 4	COMBINATION SW INPUT 3	COMBINATION SW INPUT 2	COMBINATION SW INPUT 1	COMBINATION SW OUTPUT 5	COMBINATION SW OUTPUT 4
Color of Wire	>	Г	9	В	۵	>
Terminal No. Wire	ဇ	4	2	9	32	33







AALIA1434GB

Α

В

С

 D

Е

F

G

Н

J

Κ

EXL

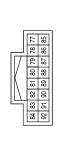
 \mathbb{N}

Ν

0

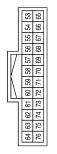
BLUE Strong Signal Name	E44 IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) BROWN 11 10 9 10 10 10 10 10	Signal Name	HEADLAMP LO LH	HEADLAMP LO RH	
 		Color of Wire	_	۵	
Connector Name Connector Color Terminal No. Color 5 8 8 12 12	Connector No. Connector Name Connector Color H.S.	Terminal No.	14	16	
]
Signal Name	FRONT COMBINATION LAMP RH BLACK	Signal Name	1	1 1	
	 	Color of Wire	>	<u>а</u> а	
20A 21A 91A 93A	Connector No. Connector Color M.S.	Terminal No.	-	ο e	
WHRE TO WIRE WHITE 1A 2A 3A 4A 5A 1A 2A 3A 4A 5A 1A 12A 12A 12A 14A 15A 22A 22A 22A 22A 22A 22A 22A 22A 22A 2	E25 FRONT COMBINATION LAMP LH BLACK	Signal Name	1	- (WITHOUT DAYTIME LIGHT SYSTEM)	ı
Connector Name WIRE T Connector Color WHITE TIAITA ISA SIAI SEA ISA SIAI SIAI SEA ISA SIAI SEA ISA SIAI SEA ISA SIAI SEA ISA SIAI SEA I		Color of Wire	σ	ш	٦
Connector Name Connector Color H.S.	Connector No. Connector Color	Terminal No.	-	2	3

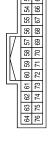
Connector No.	E47
Connector Name	Connector Name POWER DISTRIBUTION MODULE ENEGINE ROOM)
Connector Color WHITE	WHITE













Signal Name	GND (SIGNAL)	CAN-L	CAN-H
Color of Wire	В	Ф	Т
Terminal No.	09	61	62

Connector No.	E45
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color BROWN	BROWN





Signal Name	HEADLAMP HI LH	HEADLAMP HI RH	
Color of Wire	ŋ	\	
Terminal No.	25	22	

AALIA1436GB

DAYTIME LIGHT SYSTEM Α Wiring Diagram INFOID:0000000009694049 IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) (E44), (E45), (E46), (E46) ECM E16 : WITHOUT INTELLIGENT KEY SYSTEM (EN): WITHOUT NAVI (IK): WITH INTELLIGENT KEY SYSTEM (NV): WITH NAVI (OK): WITHOUT INTELLIGENT KEY SYSTEI В JOINT CONNECTOR-E03 E14 С Ø CPU D E3 HEAD-COMP (K): 67 (QK): 55 Е HEAD-LAMP (HIGH £3 HEADLAMP LOW RELAY 15A 40 F JOINT CONNECTOR-M02 (M8) 15A 41 FRONT COMBI-NATION LAMP LH (E25) w HEAD-LOW LOW HEADLAMP HIGH RELAY ₹ 8 Н 10A ىق DAYTIME LIGHT RELAY 1 (E37) 10A JOINT CONNECTOR-M01 (M10) J -w COMBI-NATION METER M24 TO CAN SYSTEM · K PARKING BRAKE SWITCH (M17) E7 ▼ BRAKE | 93A DATA LINE IGNITION SWITCH ON OR START (\frac{\frac{1}{2}}{2} EXL UNIFIED METER CONTROL UNI (WITH INFORMATION DISPLAY) (X) (X) BCM (BODY CONTROL MODULE) (M18), (M19) : (M97), (M98), M JOINT CONNECTOR-M04 (M51) DAYTIME LIGHT SYSTEM 22 COMBINATION SWITCH (LIGHTING AND TURN SIGNAL SWITCH) Ν 10A 0 91A M69 M69 BATTERY Р \$ - TIME 1 AALWA0653GB

DAYTIME LIGHT SYSTEM CONNECTORS

M8	Sonnector Name JOINT CONNECTOR-M02	GREEN	
Connector No.	Connector Name	Connector Color GREEN	

Connector Name JOINT CONNECTOR-M01
Connector Color BLUE

Connector No. M10

Connector No.	No.	Σ	n								
Connector Name JOINT CONNECTOR-M02	. Name	9	\leq	⊨	\mathcal{S}	Ž	岁	CI	0	R-M	20
Connector Color GREEN	. Color	ਹ	ᄤ	血	_						
Œ			Ш	Ш	Ш	Ш			Ш	F	
ATI-	[Ì	Ī	Ī	ſ	ſ	ſ	ſ	١		
Ţ	o	œ	7	9	Ŋ	4	က	7	-		
H.S.	20 19 18 17 16 15 14 13 12 11	18	17	16	15	14	13	12	7	10	

8 7 6 5 4 3 2 1	20 19 18 17 16 15 14 13 12 11 10		Signal Name	-	ı	ı	1
8 4	0 19 18 17		Color of Wire	٦	Г	Ь	۵
-	S.		Terminal No. Wire	8	6	19	20

Connector No.	. M17	
Connector Na	me PAF	Connector Name PARKING BRAKE SWITCH
Connector Color BLACK	lor BLA	CK.
H.S.		
Terminal No. Wire	Color of Wire	Signal Name
-	SB	I

Signal Name	I	ī	1	1	1	1
Color of Wire	T	٦	_	Ь	۵	Ь
Terminal No. Wire	4	7	8	13	16	17

Signal Name	ı	-	_	I
Color of Wire	_	Ь	Ь	Д
Terminal No. Color of Wire 4 L 7 L	8	13	16	17

M18

Connector No.

Connector No.	M19
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color WHITE	WHITE

Connector Color WHITE	41 42 43 44 45 46 47 48 49	inal No. Color of Signal Name	42 Y BATTERY (FUSI	50 G BATTERY (F/L)	
Connector C	H.S.	Terminal No.	42	20	

Signal Name	COMBINATION SW INPUT 1	COMBINATION SW OUTPUT 5	COMBINATION SW OUTPUT 4	COMBINATION SW OUTPUT 3	COMBINATION SW OUTPUT 2	COMBINATION SW OUTPUT 1	CAN-H	CAN-L
Color of Wire	Ж	۵	>	M	GR	ГС	٦	Ь
Terminal No.	9	32	33	34	32	98	68	40

		16 17 18 19 20 36 37 38 39 40					
Connector Name MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)	TE	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 17 12 19 14 15 16 17 17 12 12 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	Signal Name	COMBINATION SW INPUT 5	COMBINATION SW INPUT 4	COMBINATION SW INPUT 3	COMBINATION SW INPUT 2
me MO	lor WHITE	3 4 5	Color of Wire	BR	\	Г	В
Connector Na	Connector Color	ιj	Terminal No.	2	ε	4	2

AALIA1437GB

DAYTIME LIGHT SYSTEM

Connector No.		M51
Connector Na	me J	Connector Name JOINT CONNECTOR-M04
Connector Color GRAY	olor G	зRАY
	10 9 8 20 19 18	10 9 8 7 6 5 4 3 2 1 20 19 18 17 16 15 14 13 12 11
Terminal No. Color of Wire	Color o Wire	of Signal Name
-	<u>ე</u>	ı
,	2	_

	COMBINATION SWITCH (LIGHTING AND TURN SIGNAL SWITCH)	TE	0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Signal Name	ı	ı	-	ı	-	-	_	ı	_	1	
. M28		lor WHITE	2 8 2	Color of Wire	¥	٦	Μ	BR	GR	۸	LG	Ж	Ь	В	
Connector No.	Connector Name	Connector Color	嘶 H.S.	Terminal No.	2	2	7	8	6	10	11	12	13	14	

Г					6 5 4 3 2 1	40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21	
		æ		\Box	8 7	28 27	
		끧		۱г	6	53	
		¥		W	20 19 18 17 16 15 14 13 12 11 10 9	8	
		ž		IN.	Ξ	33	
		9.		$ \Box $	12	33	
		ΑT			13	88	
		≅ Z	l		14	34	
-		ME	ΙË		15	35	
VCVV	4	Ō	Ĭ		9	98	
_	-	2	>		17	37	
		μe	5		8	88	
9	ġ	la	징		12	88	
خ ا	5	٦	٦		8	8	
Copportor No		Connector Name COMBINATION METER	Connector Color WHITE		SI	2	-

Signal Name	CAN-H	CAN-L	PKB SW	GND (ILLUMINATION)	GND (POWER)	GND (CIRCUIT)	BAT	IGN
Color of Wire	7	Ь	SB	В	В	В	R/W	GR
Terminal No.	-	2	10	21	22	23	27	28

Α

В

С

D

Е

F

G

Н

1

Κ

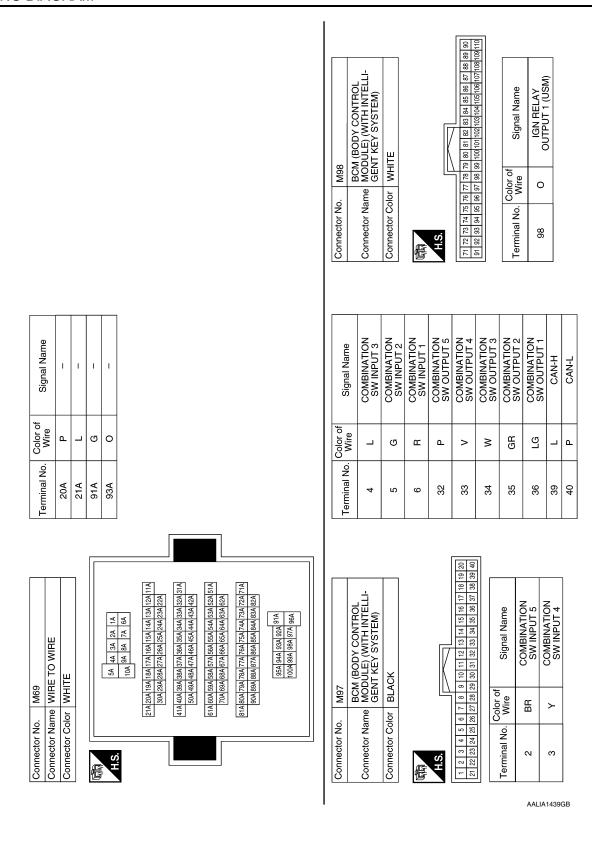
EXL

 \mathbb{N}

Ν

0

AALIA1438GB



Α

В

С

D

Е

F

Н

Κ

Ν

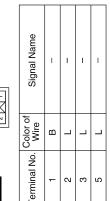
0

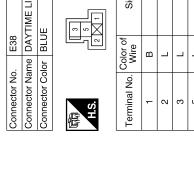
Р

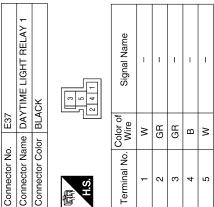
Terminal No. Wire	Terminal No. Color of Terminal No. C	Signal Name		E25 FRONT COMBINATION LAMP LH BLACK	Signal Name	- (WITH DAYTIME LIGHT SYSTEM)	
14 24 34 34 34 34 34 34 3	Mayou Mayo	Wire Wire Color of Co		 	Color of Wire		
The ctor Name WIRE TO WIRE The color Name The color Nam	M99 BCM (BCDY CONTROL M99 BCM (BCDY CONTROL MODULE) (WITH INTELL- Connector Color Module) (WITH INTELL- MATERY (FUSE) Module Modu	20A 21A 91A 93A		Connector No Connector Co		2 8	
[[[[[[[[[[[[[[[[[[[M99 BCM (BODY CONTROL MODULE) (WITH INTELL-GENT (BODY CONTROL MODULE) (WITH INTELL-GENT (BODY (BODY CONTROL SIGNATION (BODY (BODY (BODY (BODY CONTROL SIGNATION (BODY (BOD	Sector Name WIRE TO WIRE	51 A 32A 33A 93A 93A 93A 93A 93A 93A 93A 93A 93	No. E16 Pector No. E16 Pector Name ECM Pector Color BLACK S. E88 88 88 98 100 105 109 105 109 105 109 105 100 111 105 109 105 109 105 100 111 105 109 105 105 100 111 105 109 105 105 100 111 105 105 105 105 105 105	Color of Wisc	A J	

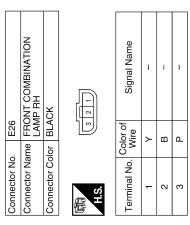
Revision: May 2013 EXL-35 2014 Versa Note

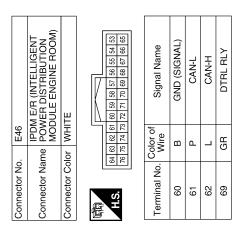
connector No.	E38
onnector Name	onnector Name DAYTIME LIGHT RELAY 2
connector Color BLUE	BLUE
Æ	8









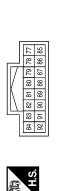


Connector No.
Connector Name
Connector Color
21 20 28 27
Color of Wire

Connector No.	. E44	
Connector Name		IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	_	BROWN
南 H.S.		11 10 9 10 12 12
Terminal No.	Color of Wire	Signal Name
14	٦	HEADLAMP LO LH
16	Ь	HEADLAMP LO RH

AALIA1441GB

E47	Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM)	WHITE	
Connector No.	Connector Name	Connector Color WHITE	



Signal Name	IGN SIGNAL
Color of Wire	_
Terminal No.	06

Α

В

С

D

Е

F

G

Н

J

Κ

EXL

 \mathbb{N}

Ν

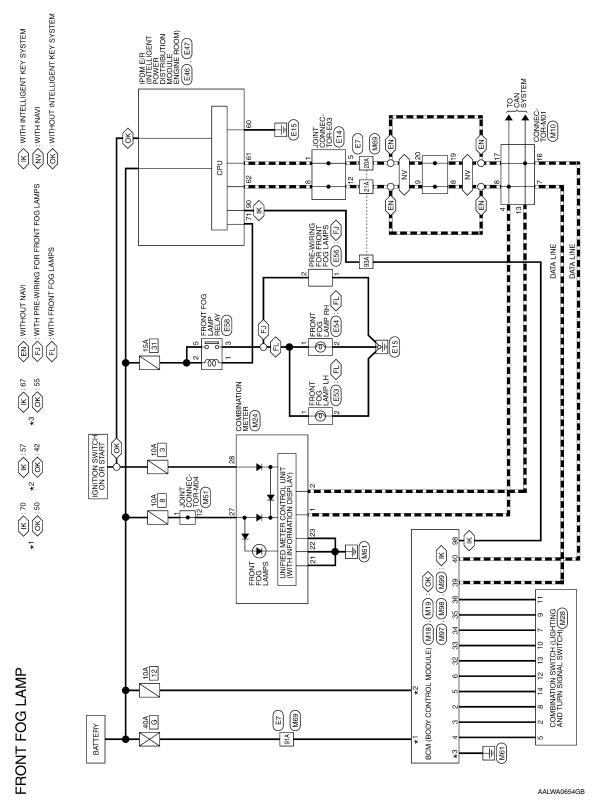
0

AALIA1442GB

Ρ

FRONT FOG LAMP

Wiring Diagram

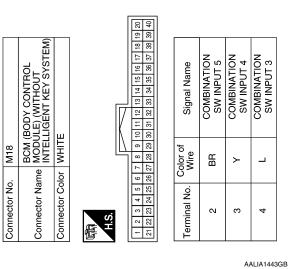


ı	_								
)	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)	ПЕ	41 42 43 44 45 46 47 48 49 50 51 52 53 54 55	Signal Name	BATTERY (FUSE)	BATTERY (F/L)	GND
		. M19		lor WHITE	41 42 43 44 4 50 51 52	Color of Wire	Υ	g	В
		Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	42	20	55

0784	M19	BCM (BODY C MODULE) (WI INTELLIGENT
	Connector No.	Connector Name

Connector Name	_	JOINT CONNECTOR-M01
Connector Color	or BLUE	111
	-	
	9 8 20 19 18	7 6 5 4 3 2 1 8 17 16 15 14 13 12 11 10
Terminal No.	Color of Wire	Signal Name
	ب	1
	_	1
	_	1
	Д	1
	۵	1
	Ь	_
Ì	•	
Terminal No.	Color of Wire	Signal Name
	ŋ	COMBINATION SW INPUT 2
	œ	COMBINATION SW INPUT 1
	Ь	COMBINATION SW OUTPUT 5
	>	COMBINATION

Signal Name	COMBINATIC SW INPUT	COMBINATIC SW INPUT	COMBINATION SW OUTPUT	CAN-H	CAN-L				
Color of Wire	ŋ	Œ	۵	>	>	GR	-EG	_	Ь
Terminal No.	S	9	32	33	34	35	36	39	40
				[20]			

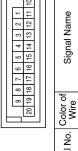


FRONT FOG LAMP CONNECTORS

Connector Name JOINT CONNECTOR-M02
Connector Color GREEN Connector No.

Connector No. M10





Signal Name

Terminal No.

ω 6

1

_ ۵ ۵

19



Α

В

С

 D

Е

F

G

Н

J

Κ

EXL

 \mathbb{N}

Ν

0

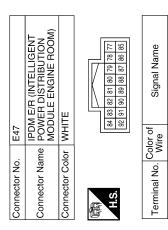
Ρ

EXL-39 Revision: May 2013 2014 Versa Note

Connector Color WHITE Connector Name Signal Name Signal Name Connector Color WHITE Connector Color Connector Color White Connector Color Connector	Connector No.	o. M24 ame COM	Connector No. M24 Connector Name COMBINATION METER	Connector No. M28 COMBINATION SWITCH	Terminal No.	Color of Wire	Signal Name
Triple	Connector Co		IITE		6	GR	_
Triple				-	10	>	ı
17 16 15 14 15 12 11 10 10 10 10 10 10	٦			-	11	БLG	ı
17 18 19 19 19 19 19 19 19	S	19 18 17 10	13 12 11 10 9 8 7 6 5 4 3 2		12	В	1
Terminal No. Color of Signal Name	_	39 38 37 3	33 32 31 30 29 28 27 26 25 24 23 22	7 6	13	Ъ	1
Can-Can-L Can-Can-L B GND (ILLUMINATION)	Terminal No.	Color of Wire		7 8 9 10 11 12 13	14	5	1
P CAN-L Signal Name Si	-		CAN-H	36 27 12 0			
S	2	۵	CAN-L	Wire			
S	21	В	GND (ILLUMINATION)	>			
Signal Name	22	В	GND (POWER)				
MS1	23	В	GND (CIRCUIT)	M			
M61 Connector No. M69 Connector Color WHITE Connector Color WHITE Connector Color	27	B/W	BAT	BB			
M51 Joint Connector No. M69 Joint Connector Name WIRE TO WIRE	28	GR	NÐI				
Connector Name WIRE TO WIRE	Connector No					ı⊢	:
GRAY	Connector Na	ame JOI	NT CONNECTOR-M04	Je J	Terminal No.	Wire	Signal Name
10 9 8 7 6 5 4 3 2 1	Connector Co	_	AY	+-	20A	Р	_
10 8 7 6 5 4 3 2 1		_		-	21A	L	_
To 18 17 16 15 14 13 12 11 1 1 1 1 1 1 1		10	8 7 6 5 4 3		91A	G	-
Color of Signal Name LG	J I	20 19	18 17 16 15 14 13	5A 4A 3A 2A	93A	0	ı
Color of Wire Signal Name LG – RW – RW				10A 9A 8A			
Color of Wire Wire LG – R/W – –]		21A 20A 19A 18A 17A 16A 15A 14A 13A 12A 11A			
LG	Terminal No.	. Wire		30A 29A 28A 27A 26A 25A 24A 23A 22A			
EWW -	,	2 -		41A 40A 39A 38A 37A 36A 35A 34A 33A 32A 31A			
	- 5	בן ב	1	50A 49A 48A 47A 46A 45A 44A 43A 42A			
700A 590A 660A 650A 620A	7	Α Α	ı	61A 60A 59A 57A 56A 55A 55A 52A 51A			
Stat Stat TStat TStat				70A 69A 65A 67A 66A 65A 64A 63A 62A			
100A 99A 98A 98A 98A 98A 98A 98A 98A 98A 98				81 4 80 4 79 4 78 4 77 4 76 4 75 4 74 4 73 4 72 4 71 4			
95A 94A 93A 92A 91A 100A 99A 96A 97A 96A				AZA AZA AZA AZA AZA AZA AZA AZ			
				55A 94A 95A 92A 91A 100A 99A 99A 97A 99A 100A 99A 99A 97A 99A			

Revision: May 2013 EXL-40 2014 Versa Note

BICM (BODY CONTROL Terminal No. Wire Signal Name						88 80	011601																	
Connector Name Name Connector Name	DY CONTROL	(WITH SENT KEY SYSTEM				1 82 83 84 85 86 87 88	01/02/103/104/105/106/10/108	Signal Name	IGN RELAY			Signal Name	1	ı	1	1								
Terminal No. Wire Signal Name Signal Nam			\vdash			12	6	Color of Wire	0			Color of Wire	۵	-	>									
Connector Name BCM (BODY CONTROL A A A	Connector No.	Connector Na	Connector Co	E	H.S.	73 74	92 93 94	Terminal No.	86			Terminal No.	20A	21A	91A	93A								
Connector Name BCM (BODY CONTROL A A A														_	F									
Connector Name BCM (BODY CONTROL A A A	lame	ATION UT 3	ATION UT 2	ATION UT 1	ATION PUT 5	ATION PUT 4	ATION PUT 3	ATION PUT 2	ATION PUT 1	푸						4A 5A	9A 10A	A 18A 19A 20A 21A A 28A 29A 30A	A 38A 39A 40A 41A	404 494 204	A 58A 59A 60A 61A A 68A 69A 70A	4784794804814 4884894904 444954 9941004		
Connector Name BCM (BODY CONTROL A A A	Signal	COMBIN SW INF	COMBIN SW INP	COMBIN. SW INF	COMBIN	COMBIN SW OUT	COMBIN	COMBIN SW OUT	COMBIN SW OUT	CAN		TAN WIRE		<u>.</u>		2A 3A	7A 8A	13A 14A 15A 16A 17 23A 24A 25A 26A 27	33A 34A 35A 36A 37	45A 44A 45A 40A 47	53A 54A 55A 56A 57 53A 64A 65A 66A 67	334 348 354 364 87 354 354 354 354 354 354 354 354 354 354		
Connector Name BCM (BODY CONTROL NTELLIGENT KEY SYSTEM)	Wire	L	σ	Œ	۵	>	>	GR	9 P	۵ اـ	-							11A 12A 22A	31A 32A	454	51A 52A 62A	718 728		
Connector Name BCM (BODY CONTROL Connector Name MODULE) (WITH CONNECTOR Color of BLACK I 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 18 10 11 12 13 14 15 16 17 18 18 10 11 12 13 14 15 16 17 18 18 10 11 12 13 14 18 18 18 18 18 18 18 18 18 18 18 18 18	Terminal No.	4	5	9	32	33	34	35	36	39	Pr I	Connector No	Connector C			H.S.								
Connector Name Connector Name 2 B 2 3 V Connector Name Connector Name Connector Name Connector Name Connector Name F7 67 F 70 Color Connector Color Connector Color Connector Name Connector Name F7 67 F 70 Color Connector Color Connector Color Connector Name Con						19]] ,																	
Connector Name Connector Name 2 B 2 3 V Connector Name Connector Name Connector Name Connector Name Connector Name F7 67 F 70 Color Connector Color Connector Color Connector Name Connector Name F7 67 F 70 Color Connector Color Connector Color Connector Name Con	ODY CONTROL	GENT KEY SYSTEM			[/	13 14 15 16 17 33 34 35 36 37		Signal Name	COMBINATION SW INPUT 5	COMBINATION SW INPUT 4		IOSTROO VOO	E) (WITH	IGENT KEY		60 61 62 63 64	2 68 69 70	Signal Name	BATTERY (FUSE)	GND	BATTERY (F/L)			
Connector Na Fig. 12 23 24 15 2 2 3 4 15 2 2 24 15 Connector Na Connector Na Fig. 15 Terminal No. 57 67 70	BCM (B					7 8 9 27 28 29	11 1	olor of Wire	BR	>		M99		-	_	7 56 57 58 58	9 99 59	olor of Wire	 	В	5			
	COIIIIECTOI NO.	Connector Name	Connector Color		H.S.	2 3 4 5 6 22 23 24 25 26				ю		Connector No.	Connector Nam	-	Connector Colo		H.S.	Terminal No.		29	70			
																	_ _		_			AALIA144	5GB	



IGN SIGNAL

90

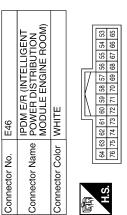
GND (SIGNAL)

ш ݐ _ ≥

62 61 7

FR FOG RLY

CAN-H CAN-L



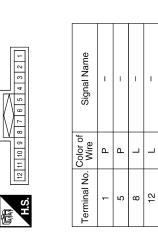
Connector Name JOINT CONNECTOR-E03

E14

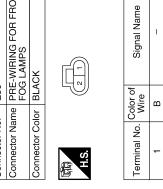
Connector No.

Connector Color BLUE











Connector Name FRONT FOG LAMP RH

E54

Connector No.

E23

Connector No.



Signal Nar	1	_
Color of Wire	٨	В
Terminal No. Wire	1	2

>

Ø



Connector Name FRONT Connector Color BLACK	Connector Name FRONT FOG LAMP LH Connector Color BLACK





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

AALIA1446GB

Connector No.	E58
Connector Name	Connector Name FRONT FOG LAMP RELA
Connector Color BLUE	BLUE





Signal Name	ſ	ı	-	1
Color of Wire	8	>	Υ	^
Terminal No.	-	2	3	2

Α

В

С

D

Е

F

G

Н

J

Κ

EXL

M

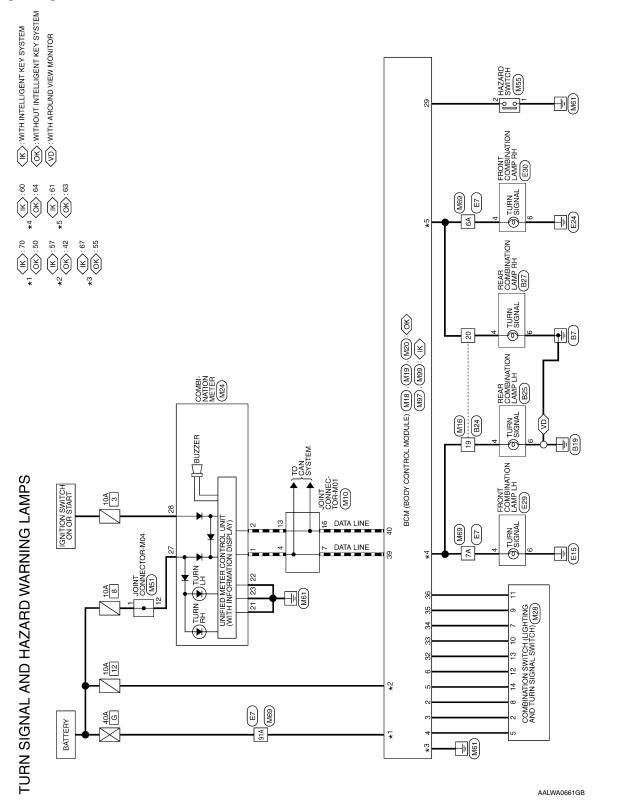
Ν

0

AALIA1447GB

Ρ

Wiring Diagram



TURN SIGNAL AND HAZARD WARNING LAMPS CONNECTORS

Connector No.	M10
Connector Name	Connector Name JOINT CONNECTOR-M01
Connector Color BLUE	BLUE

Connector Name WIRE TO WIRE

M16

Connector No.

Connector Color WHITE

	F		10	ī
		-	=	
		2	12	Ш
		т	16 15 14 13 12	Ш
		5 4	14	Ш
		5	15	Ш
		9	16	Ш
띡		7	20 19 18 17	Ш
긆		8	18	Ш
		6	19	Ш
or Color BLUE	L		20	
ر م				

Signal Name

Color of Wire

> Terminal No. 19 20

≷

6 5 4 3 2 1	20 19 18 17 16 15 14 13 12 11 10		Signal Name	-	ı	1	-
8 7	18 17		of e				
6	20 19		Color	٦	_	Д	Д
•	H.S.		Terminal No. Wire	4	7	13	16

32 P Wire 33 V 33 W 35 GR 35 CA A0 P P	Signal Name	COMBINATION SW OUTPUT 5	COMBINATION SW OUTPUT 4	COMBINATION SW OUTPUT 3	COMBINATION SW OUTPUT 2	COMBINATION SW OUTPUT 1	CAN-H	CAN-L
32 33 34 34 35 35 36 39 39 40	Color of Wire	۵	>	M	GR	ГG	٦	Ь
<u> </u>	Terminal No.	32	33	34	35	36	39	40

Signal Name	COMBINATION SW INPUT 5	COMBINATION SW INPUT 4	COMBINATION SW INPUT 3	COMBINATION SW INPUT 2	COMBINATION SW INPUT 1	HAZARD SW
Color of Wire	BR	>	7	5	ш	0
Terminal No.	2	е	4	2	9	59

Ŏ	1 6	l e	ថ្ង	5	Connector No.	٠.	É	M18	0										_	
Ŭ	l e] e	Į į	٥	Na l	🖺	m Z =	[없음F	Connector Name MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)		S.()R	Z <u>\$</u> E	lSĖ≥	토호교	15 P.S	الا	"	Ξ	1	
Ú	18] e	ರೈ	5	ပြ	흐	-	₹	Connector Color WHITE	Ш										
	臣王	H.S.							\	I IN	l I/	l 17								
ட	Ë	2	3	4	2	9	7	8	6	10 11 12 13 14 15 16 17 18 19 20	Ξ	12	13	14	5	16	17	8	19	20
2	1 2	22	23	24	25	26	27	28	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	30	31	32	33	34	35	36	36 37 38 39	38		40
								l	l	l		l	l							١

AALIA1473GB

Α

В

С

D

Е

F

G

Н

Κ

EXL

M

Ν

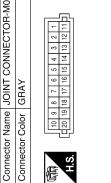
0





Signal Name	CAN-H	CAN-L	GND (ILLUMINATION)	GND (POWER)	GND (CIRCUIT)	BAT	NSI
Color of Wire	٦	Ь	В	В	В	B/W	GR
Terminal No.	-	2	21	22	23	27	28





Signal Name	ſ	_
Color of Wire	ΓG	B/W
Terminal No.	1	12







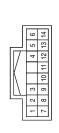
Signal Name	I	-	ı	ı	1	I	
Color of Wire	GR	۸	LG	ш	Ь	ß	
Terminal No. Color of Wire	6	10	11	12	13	14	

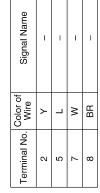
Connector No.	M19
Connector Name	Connector Name MODULE) (WITHOUT MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color WHITE	WHITE





	COMBINATION SWITCH	HING AND TURN	SIGNAL SWITCH)	巴	
Connector No. MZ8	COME	Connector Name (LIGHTING AND TURN	SIGN	Connector Color WHITE	





AALIA1474GB

< WIRING DIAGRAM >

				19 20 39 40												
	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)	BLACK		9 10 11 12 13 14 15 16 17 18 29 30 31 32 33 34 35 36 37 38 3	Signal Name	COMBINATION SW INPUT 5	COMBINATION SW INPUT 4	COMBINATION SW INPUT 3	COMBINATION SW INPUT 2	COMBINATION SW INPUT 1	HAZARD SW	COMBINATION SW OUTPUT 5	COMBINATION SW OUTPUT 4	COMBINATION SW OUTPUT 3	COMBINATION SW OUTPUT 2	COMBINATION SW OUTPUT 1
M97				6 7 8	Color of Wire	BB	>	_	ŋ	Œ	0	Ь	>	Μ	GR	ΓG
Connector No.	Connector Name	Connector Color	H.S.	1 2 3 4 5 21 22 23 24 25	Terminal No.	2	3	4	5	9	29	32	33	34	35	36
				_												

			[V]	A	A	[e]	
M69 WIRE TO WIRE	WHITE	5A 4A 3A 2A 1A 10A 9A 8A 7A 6A	21 A 20A 19A 18A 17A 16A 15A 14A 13A 12A 11A 30A 29A 28A 27A 26A 25A 24A 23A 22A	41A 40A 39A 38A 37A 36A 35A 34A 33A 32A 31A 50A 49A 48A 47A 46A 45A 44A 43A 42A	61A 60A 59A 58A 57A 56A 55A 54A 53A 52A 51A 70A 69A 68A 67A 66A 65A 64A 63A 62A	814 804 794 784 774 764 754 744 734 724 714 904 894 885 887 884 885 884 885 887 887 887 887 887 887 887 887 887	95A 94A 93A 92A 91A 100A 99A 98A 97A 96A
Connector No.		H.S.	214	414	618	814	

		Connector Name HAZARD SWITCH	TE	3 2 2 1	Signal Name	ı	1
Г	CCIMI .	me HAZ	lor WHI	4	Color of Wire	В	0
	Connector No.	Connector Na	Connector Color WHITE	画 H.S.	Terminal No.	-	2

Signal Name	İ	ı	ı	
Color of Wire	В	>	В	
Terminal No.	6A	7A	91A	

AALIA1475GB

EXL-47 2014 Versa Note Revision: May 2013

Α

В

 D

Е

F

Н

Κ

EXL

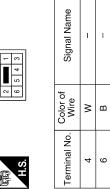
M

Ν

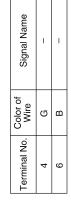
0

			-	-	LCSSCHI			D)
Connector Name		BCM (BODY CONTROL MODULE) (WITH	Connector Name WIRE TO WIRE CONTRE	ame WIRE I	E IO WIRE	ı	6A	>	1
-	_	LIGENI KEY SYSTEM)		_		1	7A	>	ı
Connector Color	or WHIIE						91A	>	1
是 H.S.	5657	56 57 58 59 60 61 62 63 64	H.S.		14 24 34 44 54 6A 6A 7A 84 94 10A				
Terminal No.	Color of Wire	Signal Name		11A 12A 22A;	11A 12A 13A 14A 15A 16A 17A 18A 19A 20A 21A 22A 23A 24A 25A 26A 27A 28A 29A 30A				
57	>	BATTERY (FUSE)		31A 32A;	31A 32A 33A 34A 35A 36A 37A 38A 39A 40A 41A				
09	>	FLASHER OUTPUT (LEFT)		42A 51A 52A	42A 43A 44A 45A 47A 48A 49A 50A 51A 52A 53A 54A 55A 56A 57A 58A 59A 60A 61A				
61	Μ	FLASHER OUTPUT (RIGHT)		624	62A 63A 64A 65A 66A 67A 68A 69A 70A				
29	В	GND		82A E	82A 83A 84A 85A 86A 87A 88A 89A 90A				
70	5	BATTERY (F/L)]					
Connector No.	E29		Connector No.	o. E30			Connector No.	o. B24	
Connector Name		FRONT COMBINATION	Connector Name		FRONT COMBINATION		Connector Name WIRE TO WIRE	ame WIRE	TO WIRE
-	_	H		_	포		Connector Color	olor WHITE	Щ
Connector Color	or GRAY					. L	 		
H.S.	9	2 4	用.S.		(a) (b) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	· •	H.S.	1 2 3 4 5 13 14 15 16 17	5 6 7 8 9 10 11 5 17 18 19 20 21 22 23
	-			300		_		-	
Terminal No.	Color of Wire	Signal Name	Terminal No.	. Wire	Signal Name		Terminal No.	Color of Wire	Signal Name
4	^	ı	4	8	1		19	Ö	1
G	۵	ı	9	α	1		20	>	ı

	Connector Name REAR COMBINATION LAMP RH	TE	
or No. B27	or Name REA	Connector Color WHITE	
Connector No.	Connecto	Connecto	



B25	Connector Name REAR COMBINATION LAMP LH	WHITE	
Connector No.	onnector Name	Connector Color WHITE	



	Е
	F
	G
	Н
	1
	J
	K
	EXL
	M
	N
	0
AALIA1477	Р

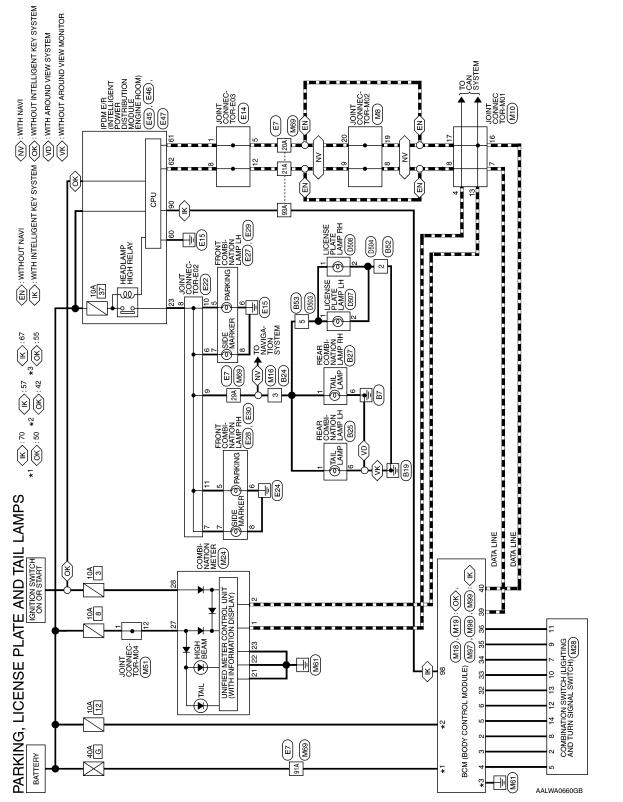
Α

В

С

 D

Wiring Diagram



Connector Name WIRE TO WIRE

M16

Connector No.

Connector Color WHITE

PARKING, LICENSE PLATE AND TAIL LAMPS CONNECTERS

Signal Name

Terminal No. Wire

œ

13 14 7

∞

19

6

Connector No.	. M19	
Connector Na	me MOE	Connector Name MODULE) (WITHOUT NAME NOT REY SYSTEM)
Connector Color	lor WHITE	TE
原 H.S.	41 42	42 42 43 44 45 46 47 48 49 49 49 49 49 49 49
Terminal No.	Color of Wire	Signal Name
42	>	BATTERY (FUSE)
20	Б	BATTERY (F/L)
55	В	GND

Signal Name	COMBINATION SW INPUT 2	COMBINATION SW INPUT 1	COMBINATION SW OUTPUT 5	COMBINATION SW OUTPUT 4	COMBINATION SW OUTPUT 3	COMBINATION SW OUTPUT 2	COMBINATION SW OUTPUT 1	CAN-H	CAN-L
Color of Wire	g	В	Ь	>	W	GR	ГG	٦	Р
Terminal No.	5	9	35	33	34	32	98	39	40

				19 20 39 40				
	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)	E		10 11 12 13 14 15 16 17 18 30 31 32 33 34 35 36 37 38	Signal Name	COMBINATION SW INPUT 5	COMBINATION SW INPUT 4	COMBINATION SW INPUT 3
M18	BCM MODI INTEL	r WHITE		7 8 9 27 28 29	Color of Wire	BR	>	7
Connector No.	Connector Name	Connector Color	原 H.S.	1 2 3 4 5 6 21 22 23 24 25 26	Terminal No.	2	ო	4

AALIA1467GB

Α

В

C

 D

Е

F

G

Н

J

Κ

EXL

 \mathbb{N}

Ν

0

Ρ

Revision: May 2013 EXL-51 2014 Versa Note

Signal Name	1	1	1	1	ı	1								Signal Name	1	ı	ı	ı	ı							
Color of Wire	GR	>	FG	۳	۵	ŋ								Color of Wire	۵	_	æ	G	0							
Terminal No.	6	10	11	12	13	14								Terminal No.	20A	21A	29A	91A	93A							
Connector No. M28	Connector Name (LIGHTING AND TURN	-		5 4 3 2 1		9 10 11 12 13	Color of	l erminal No. Wire Signal Name				8 BR –		Connector No. M69 Connector Name WIRE TO WIRE	Connector Color WHITE	_			10A 9A 8A	21A 20A 19A 19A 15A 16A 15A 14A 19A 11A 30A 29A 29A 22A 22A	41A 40A 39A 38A 37A 36A 35A 34A 35A 32A 31A	50A 49A 48A 47A 46A 45A 44A 43A 42A	61 A BOM 58 A 57 A 56 A 55 A 54 A 53 A 52 A 51 A 7 A 10 A 50 A 54 A 57	81 A 100 A 724 A 774 A 754 A 724 A 774 A 724 A 774 A 724 A 774 A 90 A 80	95.4 93.4 93.4 93.4 93.4 93.4 93.4 93.4 93	
M24 COMBINATION METER				19 18 17 16 15 14 13 12 11 10 9 8 7 6 39 38 37 36 35 34 33 39 31 30 29 28 27 26		Signal Name	CAN-H	CAN-L	GND (ILLUMINATION)	GND (POWER)	GND (CIRCUIT)	BAT	IGN	LOW COTTOLINGO TH	AY			7 6 5 4 3 2 1 3 17 16 15 14 13 12 11		Signal Name	ı	ı				
Connector No. M24				20 19 18 17 16 15 14 40 39 38 37 36 35 34		Terminal No. Wire	1	2 P	21 B	22 B	23 B	27 R/W	28 GR	Connector No. M51	Connector Color GRAY			10 9 8		Terminal No. Wire	1 LG	12 R/W				
																									AALIA1468GI	B

AALIA1468GB

< WIRING DIAGRAM >

Signal Name	COMBINATION SW OUTPUT 3	COMBINATION SW OUTPUT 2	COMBINATION SW OUTPUT 1	CAN-H	CAN-L
Color of Wire	W	GR	ЫLG	Τ	Ь
Terminal No. Wire	34	35	98	39	40

Signal Name	COMBINATION SW INPUT 4	COMBINATION SW INPUT 3	COMBINATION SW INPUT 2	COMBINATION SW INPUT 1	COMBINATION SW OUTPUT 5	COMBINATION SW OUTPUT 4
Color of Wire	\	_	9	В	۵	>
Terminal No. Wire	3	4	2	9	32	33

Connector No.	. M99	6
Connector Name		BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	olor WHITE	ITE
H.S.	56 57 58	56 57 58 59 10 <
Terminal No.	Color of Wire	Signal Name
22	٨	BATTERY (FUSE)
29	В	GND
20	9	BATTERY (F/L)

	Connector Name MODULE) (WITH INTELLIGENT KEY SYSTEM)			771 72 73 74 75 76 77 77 78 79 80 81 82 83 84 85 86 87 88 89 90 90 91 92 93 94 95 96 95 9 96 97 90 90 90 90 90 90 90 90 90 90 90 90 90	Signal Name	IGN RELAY OUTPUT 1 (USM)
. M98	me MOI	lor WHITE		76 77 78 7 96 97 98 9	Color of Wire	0
Connector No.	Connector Na	Connector Color	南 H.S.	71 72 73 74 75 76 77 78 79 80 81 82 91 92 93 94 95 96 97 98 99 1001011002	Terminal No.	86

AALIA1469GB

Α

В

C

D

Е

F

3

Н

Κ

EXL

N

Ν

Connector Name JOINT CONNECTOR-E03 Connector Color BLUE			12 11 10 9 8 7 6 5 4 3 2 1			Terminal No. Wire Signal Name		5 P	- I	12 L		Connector No. E28	Connector Name LAMP RH	Connector Color BLACK	H.S.	Terminal No Color of Signal Name	Wire	ת נ	n			
Signal Name	_	-	-	I									FRONT COMBINATION LAMP LH	×	87	ameN JenniS		1	ı			
o S S	21A L	29A R	91A Y	93A L								Connector No. E27	Connector Name LAMF	Connector Color BLACK	H.S.	Terminal No Color of			n x			
Connector No. E7 Connector Name WIRE TO WIRE Connector Color WHITE			14 2A 3A 4A 3A	00 / /A	11.4 12.4 13.4 14.4 15	31A 32A 33A 34A 35A 36A 37A 38A 39A 40A 41A	42A 43A 44A 45A 46A 47A 48A 49A 50A	514 524 534 544 554 564 574 584 594 604 614	[62A 63A 64A 65A 66A 67A 68A 69A 70A]	71 A 72A 72A 74A 75A 76A 77A 78A 79A 80A 81A 19A 81A 81A 81A 81A 81A 81A 81A 80A 80A 80A	91A 92A 93A 94A 95A 96A 97A 98A 99A 100A	Connector No. E22 G	Connector Name JOINT CONNECTOR-E02 Co		H.S. [1110 9 8 7 6 5 4 3 2 1 1 2 2 2 2 2 2 2 2 2 2 0 1 9 1 8 1 7 1 6 1 5 1 4 1 3 1 2 1	Terminal No. Wire Signal Name	- B	7 R -	- В	- B	10 R -	-1 -

< WIRING DIAGRAM >

Connector No. E45 Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM) Connector Color BROWN [21 20	Terminal No. Wire Signal Name 23 R CLEARANCE	Connector No. B24 Connector Name WIRE TO WIRE Connector Color WHITE To 1 2 3 4 5 6 7 8 9 10 11 12 To 2 3 4 5 6 7 8 9 10 11 12 To 3 14 15 16 17 18 19 20 21 22 23 24	Terminal No. Color of Signal Name
Connector No. E30 Connector Name FRONT COMBINATION LAMP RH Connector Color GRAY	Terminal No. Wire Signal Name 5 R -	Connector No. E47 Connector Name POWER DISTRIBUTION MODULE ENEGINE ROOM) Connector Color WHITE RH 88 82 81 80 73 78 77 RH 83 82 81 80 73 78 77 RH 83 82 81 80 73 78 77 RH 83 82 81 80 73 78 77	Terminal No. Color of Wire Signal Name 90 L IGN SIGNAL
FRONT COMBINATION LAMP LH GRAY	Color of Signal Name Wire B – B	E46	Color of Signal Name Wire GND (SIGNAL) P CAN-L L CAN-H
Connector No. Connector Color Connector Color H.S.	Terminal No. 1	Connector No. Connector Name Connector Color H.S.	Co C

AALIA1471GB

Α

В

 D

Е

F

Н

K

EXL

Ν

0

Connector No. B52 Connector Name WIRE TO WIRE Connector Color WHITE	4 4 3 2 1	Signal Name	4 E TO WIRE TE	2 3 4	Signal Name	ı
lo. B52 lame WIR		Color of Wire B	. D504 me WIRET		Color of Wire	α.
Connector No. B52 Connector Name WIRE T Connector Color WHITE	H.S.	Terminal No.	Connector No. D504 Connector Name WIRE TO WIRE Connector Color WHITE	H.S.	Terminal No.	٥
B27 REAR COMBINATION LAMP RH WHITE	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Signal Name	3 E TO WIRE TE	6 2 3 8 4 4 8 4 4 8 4 4 8 8 4 4 8 8 4 4 8	Signal Name	1
		Color of Wire L	me WIRET		Color of Wire	G.B.
Connector No. Connector Name Connector Color	原。 A.S.	Terminal No.	Connector No. D503 Connector Name WIRE TO WIRE Connector Color WHITE	H.S.	Terminal No.	יכי
B25 REAR COMBINATION LAMP LH WHITE	1 4 × 0	Signal Name	E TO WIRE	2 9 2 1	Signal Name	ı
	0 0	Color of Wire L	. B53 me WIRET	4 8	Color of Wire	GB
Connector No. Connector Name Connector Color	H.S.	Terminal No.	Connector No. B53 Connector Name WIRE TO WIRE Connector Color WHITE	H.S.	Terminal No.	ι¢
			ı			

AALIA1472GB

MP RH	
Connector No. D508 Connector Name LICENSE PLATE LAMP RH Connector Color BROWN	2 1
Connector No. D508 Connector Name LICENSE Connector Color BROWN	品.S.

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

BROWN		Signal Name	ı	
lor BRC		Color of Wire	GR	٥
Connector Color	南京 H.S.	Terminal No. Wire	-	C

Connector Name LICENSE PLATE LAMP LH

Connector No.

M N

Α

В

С

 D

Е

F

G

Н

Κ

AALIA1488GB

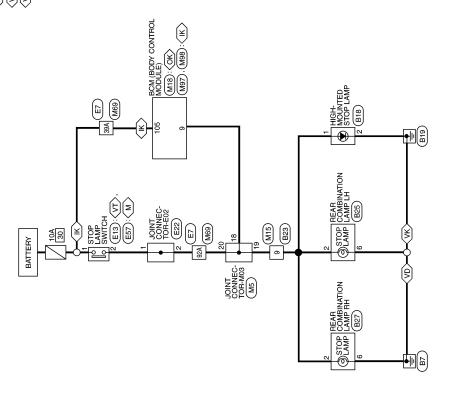
Р

0

STOP LAMP

Wiring Diagram

 $\begin{array}{l} (\underline{\mathbf{K}}): \text{WITH INTELLIGENT KEY SYSTEM} \\ \underline{\langle \mathbf{OK}\rangle}: \text{WITHOUT INTELLIGENT KEY SYSTEM} \\ \underline{\langle \mathbf{M}\rangle}: \text{WITH } \mathbf{MMT} \\ \underline{\langle \mathbf{U}\rangle}: \text{WITH AROUND VIEW MONITOR} \\ \underline{\langle \mathbf{W}\rangle}: \text{WITHOUT AROUND VIEW MONITOR} \\ \underline{\langle \mathbf{W}\rangle}: \text{WITHOUT AROUND VIEW MONITOR} \\ \underline{\langle \mathbf{W}\rangle}: \text{WITH CVT} \end{array}$



STOP LAMP

AALWA0649GB

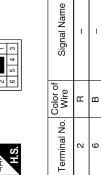
		А
NNTROL (EY SYSTEM) 40 UT 40 UT 41 5 6 77 18 19 20 30 30 40 40 40 40 40 4	NSTEM) (106 107 108 109 110 110 110 110 110 110 110 110 110	В
M18 BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM) WHITE 8 10 11 12 13 14 15 16 17 18 12 23 34 35 35 35 35 35 35 3	WHITE WHITE WHITE WHO IN THE TO TH	С
	M Hills of the second s	D
Connector No. Connector Name Connector Color H.S. 1 2 3 4 5 6 7 21 22 23 24 25 28 2 Terminal No. W 9 L Connector No.	Connector Color Connector Color Connector Color	Е
	98 40	F
VIRE Signal Name		G
Connector No. M15 Connector Name WIRE TO WIRE Connector Color WHITE Terminal No. Color of Signal Signa		Н
Connector No. MIS Connector Name WIF Connector Color WH Terminal No. Wire 9 R 9 R BCI BCI BCI BCI BCI BCI BCI BC		1
Connee Gonnee Go	H.S. H.S. Paragraphic designation of the connection of the connect	J
	12a 11a 12a	K
	SA AA 3A 2A 1A 1A 1A 1A 1A 1A 1	Signal Name
CONNECTOR M5 M69 LG Nire R R M69 MRE TO WIRE M69 MRE TO WIRE	SA 10A	Color of Wire SB R R
Connector No. M5 Connector No. M5 Connector No. M5 Connector No. M5 Connector No. BROWN	S	39A 92A O
O O O O O O O O O O O O O O O O O O O		AALIA1423GB
		Р

Revision: May 2013 EXL-59 2014 Versa Note

Connector No. E13	Connector No. B18
Terminal No. Color of Signal Name 39A SB - 92A LG -	Connector No. E57 Connector Name STOP LAMP SWITCH (WITH M/T) Connector Color BLACK
Connector No. E7 Connector Name WIRE TO WIRE	Connector No. E22 Connector Name JOINT CONNECTOR-E02 Connector Color WHITE Connector Color WHITE Connector Color WHITE Connector Color WHITE Connector Color of Signal Name 1 LG - LG - LG - LG - LG - Table 19 18 17 16 15 14 13 12 11 12 12 12 13 18 17 16 15 14 13 12 12 12 13 18 17 16 15 14 13 12 12 12 13 18 17 16 15 14 13 12 12 13 18 18 17 16 15 14 13 12 12 13 18 18 18 18 18 18 18 18 18 18 18 18 18

	1
Connector No.	B27
Connector Name	REAR COMBINATION LAMP RH
Connector Color	WHITE
原 用.S.	2
Colc	Color of

Signal Name	_	-
Color of Wire	В	В
Terminal No.	2	9



Connector No.	B23	ကျွ	!		:		Ι.		
Connector Name WIRE TO WIRE	≥	ᆂᅵ	-	5	ξĺ	쒼			
Connector Color WHITE	≥	둪	ш						
	2	6	Ш		4	2	9	_	
8	8 9 10 11 12 13 14 15 16	유	Ξ	21	5	4	5	16	

Signal Name	1	
Color of Wire	В	
Terminal No.	6	

Α

В

С

D

Е

F

G

Н

J

Κ

EXL

 \mathbb{N}

Ν

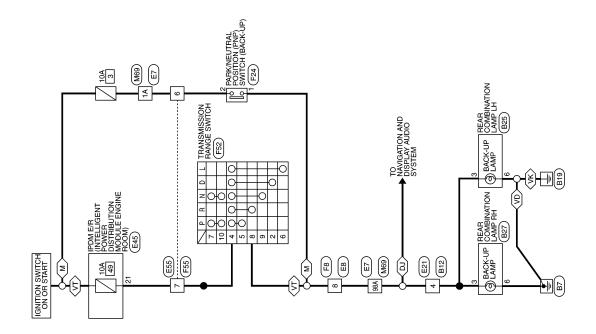
0

AALIA1425GB

BACK-UP LAMP

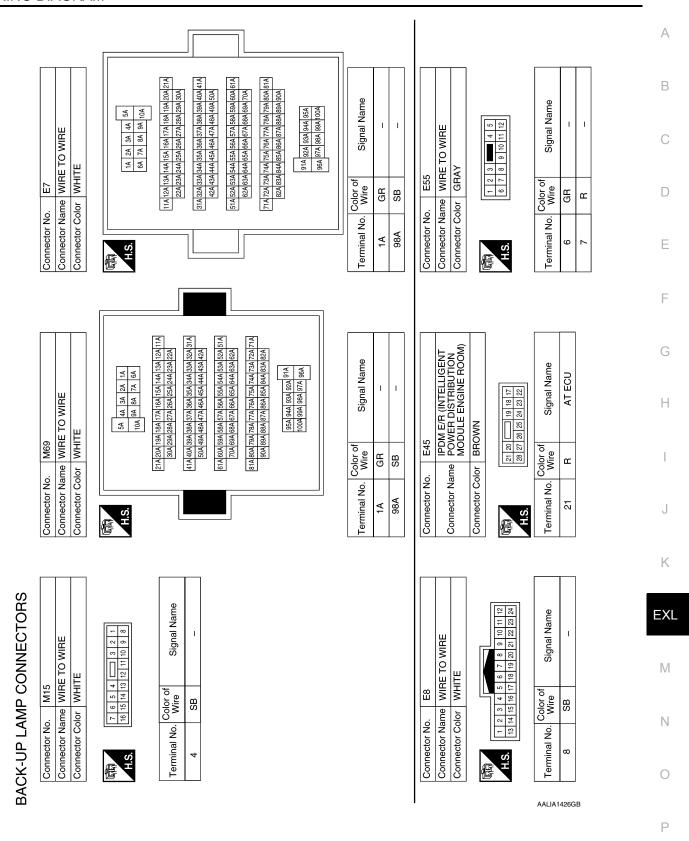
Wiring Diagram

 $\langle \underline{DJ} \rangle$: WITH NAVIGATION AND DISPLAY AUDIO SYSTEM $\langle \underline{MJ} \rangle$: WITH M.T. $\langle \underline{VD} \rangle$: WITH AROUND VIEW MONITOR $\langle \underline{WK} \rangle$: WITHOUT ABOUND VIEW MONITOR $\langle \underline{VK} \rangle$: WITH CVT



BACK-UP LAMP

AALWA0650GB



61	Connector Name TRANSMISSION RANGE SWITCH (WITH CVT)	ACK	9 8 7	Signal Name	I	ı	
F52	ne TR	or BLACK	9 2	Color of Wire	₽/W	0	
Connector No.	Connector Nar	Connector Color	原 H.S.	Terminal No. Wire	4	8	
	Connector Name PARK/NEUTRAL POSITION (PNP) SWITCH	N.		Signal Name	1	1	
F24	ne PAR (PNF	or GRE	-	Color of Wire	0	В	
Connector No.	Connector Nan	Connector Color GREEN	副 H.S.	Terminal No. Wire	-	2	
	E TO WIRE		7 6 6 5 4 3 2 1 1 16 15 14 13	Signal Name	ı		
82	or WHI		24 23 22 21 20	Solor of Wire	0		
Connector No.	Connector Name WIRE TO WIRE Connector Color WHITE		H.S. 24 2	Terminal No. Wire	8		

	Connector Name REAR COMBINATION	בן או	IITE	1 4 C	Signal Name	ı	ı
. B25	me RE	<u> </u>	lor WH	0 9	Color of Wire	Y/L	В
Connector No.	Connector Na		Connector Color WHITE	原 H.S.	Terminal No. Wire	8	9
			7				
23	Connector Name WIRE TO WIRE	HITE	1	3 4 5 6 7 10 11 12 13 14 15 16	of Signal Name	ı	
o. B23	ame W	M	:	8 9 8	Color o Wire	\ \ \	
Connector No.	Connector Na	Connector Color WHITE		H.S.	Terminal No. Wire	4	
			7			I	
	RE TO WIRE			10 9 8 7 6	Signal Name	ı	ı
. F55	me WIF	lor GB.	5	5 4 [Color of Wire	æ	æ
Connector No.	Connector Name WIRE TO WIRE	Connector Color GBAY		是 H.S.	Terminal No. Wire	9	7

AALIA1427GB

Α

В

С

D

Е

F

G

Н

J

Κ

EXL

 \mathbb{N}

Ν

0

AALIA1454GB

B27	Connector Name REAR COMBINATION	LAMP RH	WHITE	
Connector No.	Connector Name		Connector Color	



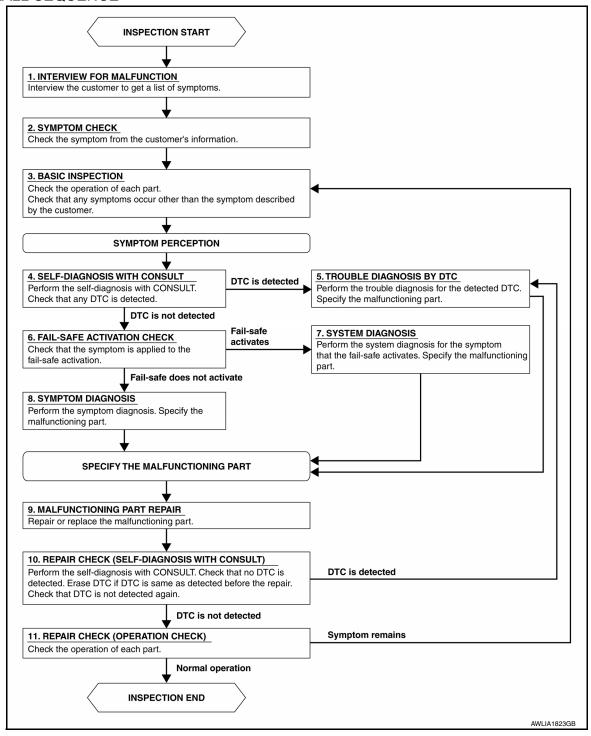
ı	ı
Y/L	В
က	9

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

OVERALL SEQUENCE



DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >
DETAILED FLOW
1.INTERVIEW FOR MALFUNCTION
Find out what the customer's concerns are.
>> GO TO 2.
2.SYMPTOM CHECK
Verify the symptom from the customer's information.
volly the cymptom with the education of whormation.
>> GO TO 3.
3.BASIC INSPECTION
Check the operation of each part. Check any concerns that occur other than those mentioned in the customer interview.
>> GO TO 4.
4.SELF-DIAGNOSIS WITH CONSULT
Perform the self-diagnosis with CONSULT. Check that any DTC is detected.
<u>Is any DTC detected?</u> YES >> GO TO 5.
NO >> GO TO 6.
5. TROUBLE DIAGNOSIS BY DTC
Perform the trouble diagnosis for the detected DTC. Specify the malfunctioning part.
>> GO TO 9.
6. FAIL-SAFE ACTIVATION CHECK
Determine if the customer's concern is related to fail-safe activation.
Does the fail-safe activate?
YES >> GO TO 7.
NO >> GO TO 8. 7. SYSTEM DIAGNOSIS
Perform the system diagnosis for the system in which the fail-safe activates. Specify the malfunctioning part.
renorm the system diagnosis for the system in which the fair-sale activates. Specify the manufactioning part.
>> GO TO 9. 8.SYMPTOM DIAGNOSIS
Perform the symptom diagnosis. Specify the malfunctioning part.
>> GO TO 9.
9. MALFUNCTION PART REPAIR
Repair or replace the malfunctioning part.
>> GO TO 10.
10. REPAIR CHECK (SELF-DIAGNOSIS WITH CONSULT)
Perform the self-diagnosis with CONSULT. Verify that no DTCs are detected. Erase all DTCs detected prior to the repair. Verify that DTC is not detected again.

Revision: May 2013 EXL-67 2014 Versa Note

Is any DTC detected?

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

YES >> GO TO 5. NO >> GO TO 11.

11. REPAIR CHECK (OPERATION CHECK)

Check the operation of each part.

Does it operate normally?

YES >> Inspection End.

NO >> GO TO 3.

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM (BODY CONTROL SYSTEM) (WITH INTELLIGENT KEY SYSTEM)

BCM (BODY CONTROL SYSTEM) (WITH INTELLIGENT KEY SYSTEM): Diagnosis Procedure

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

1. CHECK FUSES AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuses and fusible link No.
57	Rattery power supply	12 (10A)
70	Battery power supply	G (40A)

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

- Disconnect BCM connector M99.
- 2. Check voltage between BCM connector M99 and ground.

BCM		Ground	Voltago	
Connector	Terminal	Giodila	Voltage	
M99	57		Pattonyvoltogo	
10199	70	Battery volta	Battery Voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M99 and ground.

BCM		Ground	Continuity
Connector	Terminal	Giodila	Continuity
M99	67	_	Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair harness or connector.

BCM (BODY CONTROL SYSTEM) (WITHOUT INTELLIGENT KEY SYSTEM)

BCM (BODY CONTROL SYSTEM) (WITHOUT INTELLIGENT KEY SYSTEM) : Diagnosis Procedure

Regarding Wiring Diagram information, refer to BCS-111, "Wiring Diagram".

EXL

Α

В

D

Е

Н

NЛ

Ν

0

< DTC/CIRCUIT DIAGNOSIS >

1. CHECK FUSES AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuses and fusible link No.
37		8 (10A)
42	Battery power supply	12 (10A)
50		G (40A)
11	Ignition switch ACC or ON	18 (10A)
38	Ignition switch ON or START	2 (10A)

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

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

В	СМ	Ground	Ignition switch position		on
Connector	Terminal		OFF	ACC	ON
	11		0 V		
M18	37		Battery voltage	Battery voltage	
	38	_	0 V	0 V	Battery voltage
M19	42		Pattory voltage	Patton, voltago	
IVI 19	50		Battery voltage	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between BCM connector and ground.

BCM		Ground	Continuity	
Connector	Terminal	Ground	Continuity	
M19	55	_	Yes	

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair harness or connector.

IPDM E/R (WITH INTELLIGENT KEY SYSTEM)

IPDM E/R (WITH INTELLIGENT KEY SYSTEM): Diagnosis Procedure INFOID:000000009694254

Regarding Wiring Diagram information, refer to PCS-22, "Wiring Diagram".

1. CHECK FUSE AND FUSIBLE LINKS

Check that the following IPDM E/R fuse or fusible links are not blown.

Revision: May 2013 EXL-70 2014 Versa Note

< DTC/CIRCUIT DIAGNOSIS >

Terminal No.	Signal name	Fuse and fusible link Nos.
1	Battery power supply	A (120A), E (80A)
2	Battery power supply	B (60A)

Is the fuse blown?

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

NO >> GO TO 2.

2. CHECK BATTERY POWER SUPPLY CIRCUIT

- Disconnect IPDM E/R connector E42.
- Check voltage between IPDM E/R connector E42 and ground.

IPDM E/R		Ground	Voltage	
Connector	Terminal	Giouna	(Approx.)	
E42	1		Patton, voltago	
	2	_	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3. CHECK GROUND CIRCUIT

- Disconnect IPDM E/R connectors E45 and E46.
- Check continuity between IPDM E/R connectors and ground.

IPDM E/R			Continuity
Connector	Terminal		Continuity
E45	19	Ground	
E46	60		Yes
<u></u>	89		

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

IPDM E/R (WITHOUT INTELLIGENT KEY SYSTEM)

IPDM E/R (WITHOUT INTELLIGENT KEY SYSTEM): Diagnosis Procedure

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

1. CHECK FUSE AND FUSIBLE LINKS

Check that the following IPDM E/R fuse or fusible links are not blown.

Terminal No.	Signal name	Fuse and fusible link Nos.
1	Battery power supply	A (120A), E (80A)
2	battery power supply	B (60A)
10	Ignition switch ON or START	2 (10A)

Is the fuse blown?

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

NO >> GO TO 2.

EXL-71 Revision: May 2013 2014 Versa Note **EXL**

K

Α

В

D

Е

Н

INFOID:0000000009694255

Ν

< DTC/CIRCUIT DIAGNOSIS >

2. CHECK BATTERY POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect IPDM E/R connectors E42 and E44.
- 3. Check voltage between IPDM E/R connectors and ground.

IPDI	IPDM E/R		Condition	Voltage
Connector	Terminal	Ground Condition		(Approx.)
E42	1	_	Ignition switch: OFF	
L4Z	2		ignition switch. Of i	Battery voltage
E44	10		Ignition switch: ON	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3. CHECK GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Check continuity between IPDM E/R connectors and ground.

IPDM E/R			Continuity
Connector	Terminal	Ground	Continuity
E45	19		Yes
E46	60		

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

HEADLAMP (HI) CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

HEADLAMP (HI) CIRCUIT

Description INFOID:0000000009694060

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

Component Function Check

INFOID:0000000009694061

Α

D

Е

1.CHECK HEADLAMP (HI) OPERATION

Start IPDM E/R auto active test. Refer to PCS-10, "Diagnosis Description" (with Intelligent Key) or PCS-39, "Diagnosis Description" (without Intelligent Key).

Check that the headlamp switches to the high beam.

(P)CONSULT

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

Ш : Headlamp switches to the high beam.

: Headlamp OFF

Does the headlamp switch to high beam?

>> Headlamp (HI) circuit is normal.

NO >> Refer to EXL-73, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000009694062

Regarding Wiring Diagram information, refer to EXL-25, "Wiring Diagram".

1. CHECK HEADLAMP (HI) FUSES

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

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

Is the fuse blown?

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

NO >> GO TO 2.

2.CHECK HIGH BEAM BULB

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

Is the bulb OK?

YES >> GO TO 3.

NO >> Replace the bulb.

3.CHECK HEADLAMP (HI) OUTPUT VOLTAGE

- 1. Turn the ignition switch OFF.
- 2. Disconnect the front combination lamp connector E25 or E26.
- Turn the ignition switch ON.
- Turn the high beam headlamps ON.
- With the high beam headlamps ON, check the voltage between the combination lamp connector and ground.

EXL

N

Р

EXL-73 Revision: May 2013 2014 Versa Note

HEADLAMP (HI) CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

	(+) Connector Terminal		()	Voltage
Coi			(-)	Voltage
LH	E25	1	Ground	Ratteny voltage
RH	E26	1	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK HEADLAMP (HI) CIRCUIT FOR OPEN

- 1. Turn the ignition switch OFF.
- 2. Disconnect IPDM E/R connector E45.
- Check continuity between the IPDM E/R harness connector E45 and the front combination lamp harness connector E25 or E26.

Cor	nector	Terminal	Connector	Terminal	Continuity
LH	E45	25	E25	1	Yes
RH	L 4 3	27	E26	1	103

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to <u>PCS-31, "Removal and Installation"</u> (with Intelligent Key) or <u>PCS-60, "Removal and Installation"</u> (without Intelligent Key).

NO >> Repair or replace the harness or connector.

5.CHECK FRONT COMBINATION LAMP (HI) GROUND CIRCUIT

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

Cor	nector	Terminal	_	Continuity
LH	E25	2	Ground	Yes
RH	E26	2	Giodila	165

Is the inspection result normal?

YES >> Replace malfunctioning lamp.

NO >> Repair or replace the harness or connector (without daytime light system).

>> GO TO 6 (with daytime light system).

6. CHECK FRONT COMBINATION LAMP LH TO DAYTIME LIGHT RELAY 1 GROUND CIRCUIT

- 1. Disconnect daytime light relay 1 connector E37.
- Check continuity between the daytime light relay 1 harness connector E37 and the front combination lamp LH harness connector E25.

Connector	Terminal	Connector	Terminal	Continuity
E37	3	E25	2	Yes

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace the harness or connector.

.CHECK DAYTIME LIGHT RELAY 1 GROUND CIRCUIT

Check continuity between the daytime light relay 1 harness connector E37 and ground.

Connector	Terminal	_	Continuity
E37 4		Ground	Yes

Is the inspection result normal?

YES >> Replace daytime light relay 1.

HEADLAMP (HI) CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

>> Repair or replace the harness or connector. NO Α В С D Е F G Н J Κ EXL M Ν 0 Р

HEADLAMP (LO) CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

HEADLAMP (LO) CIRCUIT

Description INFOID:000000009694063

The IPDM E/R (intelligent power distribution module engine room) controls the headlamp low relay based on inputs from the BCM via the CAN communication lines. When the headlamp low relay is energized, power flows through fuses 40 and 41, located in the IPDM E/R.

(Without daytime light system) power then flows to the front combination lamp LH and RH low beams. (With daytime light system) power then flows to the front combination lamp LH low beam and the daytime light relay 2 which becomes energized and then power is sent to the front combination lamp RH low beam.

Component Function Check

INFOID:0000000009694064

1.CHECK HEADLAMP (LO) OPERATION

NWITHOUT CONSULT

- Start IPDM E/R auto active test. Refer to <u>PCS-10, "Diagnosis Description"</u> (with Intelligent Key) or <u>PCS-39, "Diagnosis Description"</u> (without Intelligent Key).
- Check that the headlamp is turned ON.

(P)CONSULT

- Select EXTERNAL LAMPS of IPDM E/R active test item.
- 2. While 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-76, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000009694065

Regarding Wiring Diagram information, refer to EXL-25, "Wiring Diagram".

1. CHECK HEADLAMP (LO) FUSES

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

Unit	Location	Fuse No.	Capacity
Headlamp LO (LH)	IPDM E/R	41	15A
Headlamp LO (RH)	IPDM E/R	40	15A

Is the fuse blown?

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

NO >> GO TO 2.

2.CHECK LOW BEAM BULB

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

Is the bulb OK?

YES >> GO TO 3.

NO >> Replace the bulb.

$3. \mathsf{CHECK}$ HEADLAMP (LO) OUTPUT VOLTAGE

- 1. Turn the ignition switch OFF.
- 2. Disconnect the front combination lamp connector E25 or E26.
- 3. Turn the ignition switch ON.
- 4. Turn the low beam headlamps ON.

HEADLAMP (LO) CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

5. With the low beam headlamps ON, check the voltage between the combination lamp connector and ground.

(+)		(-)	Voltage	
Co	Connector Terminal		(-)	voltage
LH	E25	3	Ground	Pattory voltage
RH	E26	3	Giodila	Battery voltage

Is the inspection result normal?

YES >> GO TO 9.

NO >> GO TO 4 (without daytime light system).

>> GO TO 5 (with daytime light system).

4. CHECK HEADLAMP (LO) CIRCUIT FOR OPEN

- 1. Turn the ignition switch OFF.
- 2. Disconnect IPDM E/R connector E44.
- 3. Check continuity between the IPDM E/R harness connector E44 and the front combination lamp harness connectors E25 and E26.

Con	nector	Terminal	Connector	Terminal	Continuity
LH	E44	14	E25	3	Yes
RH	L 44	16	E26	3	165

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to <u>PCS-31, "Removal and Installation"</u> (with Intelligent Key) or <u>PCS-60, "Removal and Installation"</u> (without Intelligent Key).

NO >> Repair or replace the harness or connector.

5.CHECK DAYTIME LIGHT RELAY 2 TO FRONT COMBINATION LAMP RH CIRCUIT FOR OPEN

1. Disconnect daytime light relay 2 connector E38.

2. Check continuity between the daytime light relay 2 harness connector E38 and the front combination lamp LH harness connector E25.

Connector	Terminal	Connector	Terminal	Continuity
E38	3	E25	3	Yes

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the harness or connector.

$\mathsf{6}.$ CHECK DAYTIME LIGHT RELAY 2 VOLTAGE CIRCUIT

With the low beam headlamps ON, check the voltage between the daytime light relay 2 connector E38 and ground.

(+)			Voltage
Connector	Terminal	(-)	voltage
E38	2	Ground	Battery voltage
L30	5	Ground	Battery Voltage

Is the inspection result normal?

YES >> GO TO 7. NO >> GO TO 8.

.CHECK DAYTIME LIGHT RELAY 2 GROUND CIRCUIT

Check continuity between the daytime light relay 2 harness connector E38 and ground.

EXL

K

Α

В

D

Е

Н

M

Ν

С

HEADLAMP (LO) CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Connector	Terminal	_	Continuity
E38	1	Ground	Yes

Is the inspection result normal?

YES >> Replace daytime light relay 2.

NO >> Repair or replace the harness or connector.

8.CHECK IPDM E/R TO DAYTIME LIGHT RELAY 2 CIRCUIT FOR OPEN

- Disconnect IPDM E/R connector E44.
- Check continuity between the daytime light relay 2 harness connector E38 and the IPDM E/R connector E44.

Connector	Terminal	Connector	Terminal	Continuity
E38	2	E44	14	Yes
	5			

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to <u>PCS-31, "Removal and Installation"</u> (with Intelligent Key) or <u>PCS-60, "Removal and Installation"</u> (without Intelligent Key).

NO >> Repair or replace the harness or connector.

9. CHECK FRONT COMBINATION LAMP (LO) GROUND CIRCUIT

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

Со	Connector Terminal		_	Continuity
LH	E25	2	Ground	Yes
RH	E26	2	Ground	163

Is the inspection result normal?

YES >> Replace malfunctioning lamp.

NO >> Repair or replace the harness or connector (without daytime light system).

>> GO TO 10 (with daytime light system).

10. CHECK FRONT COMBINATION LAMP LH TO DAYTIME LIGHT RELAY 1 GROUND CIRCUIT

- 1. Disconnect daytime light relay 1 connector E37.
- 2. Check continuity between the daytime light relay 1 harness connector E37 and the front combination lamp LH harness connector E25.

Connector	Terminal	Connector	Terminal	Continuity
E37	3	E25	2	Yes

Is the inspection result normal?

YES >> GO TO 11. NO >> Repair or re

>> Repair or replace the harness or connector.

11. CHECK DAYTIME LIGHT RELAY 1 GROUND CIRCUIT

Check continuity between the daytime light relay 1 harness connector E37 and ground.

Connector	Terminal	_	Continuity
E37	4	Ground	Yes

Is the inspection result normal?

YES >> Replace daytime light relay 1.

NO >> Repair or replace the harness or connector.

PARKING LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

PARKING LAMP CIRCUIT

Description

The IPDM E/R (intelligent power distribution module engine room) controls the tail lamp relay based on inputs from the BCM via the CAN communication lines. When the tail lamp relay is energized, power flows through fuse 37, located in the IPDM E/R. Power then flows through the tail lamp relay to the front and rear combination lamps, license plate lamps.

Component Function Check

INFOID:0000000009694067

Α

D

Е

1. CHECK PARKING LAMP OPERATION

WITHOUT CONSULT

1. Start IPDM E/R auto active test. Refer to <u>PCS-10</u>, "<u>Diagnosis Description</u>" (with Intelligent Key) or <u>PCS-39</u>, "<u>Diagnosis Description</u>" (without Intelligent Key).

Check that the parking lamps are turned ON.

(P)CONSULT

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

2. While operating the test items, check that the parking lamps are 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-79, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000009694068

Regarding Wiring Diagram information, refer to <a>EXL-50. "Wiring Diagram".

1. CHECK PARKING LAMP FUSES

1. Turn the ignition switch OFF.

Check that the following fuses are not blown.

Unit	Location	Fuse No.	Capacity
Parking lamps	IPDM E/R	37	10A

Is the fuse blown?

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

NO >> GO TO 2.

2.CHECK PARKING 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 3.

NO >> Replace the bulb.

$3.\mathsf{CHECK}$ TAIL LAMP RELAY OUTPUT (VOLTAGE)

Turn the ignition switch OFF.

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

EXL

M

Ν

0

PARKING LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

	(+) Connector Terminal		()	Voltage
Co			(-)	Voltage
LH	E27	7		Battery voltage
LΠ	E29	5	Ground	
RH	E28	7		
КП	E30	5		

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

(+)		()	Voltago		
Cor	nector	Terminal	(-)	Voltage	
LH	B25	1	Ground	Pattery voltage	
RH	B27	·	Ground	Battery voltage	

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

	(+)		()	Voltago	
Cor	nector	Terminal	(-)	Voltage	
LH	D507	1	Ground	Rattery voltage	
RH	D508	'	Ground	Battery voltage	

Are the inspection results normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK PARKING, LICENSE PLATE AND TAIL LAMP CIRCUIT (OPEN)

- 1. 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.

Con	nector	Terminal	Connector	Terminal	Continuity
LH		E45 23	E27	7	
LII	E45		E29	5	Yes
RH	23		E28	7	165
IXII		E30	5		

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

Conr	nector	Terminal	Connector	Terminal	Continuity
LH	E45	23	B25	1	Yes
RH	LTO	23	B27	. 1	163

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

Connector	Terminal	Connector	Terminal	Continuity
E45	22	D507	- 1	Yes
	23	D508		

PARKING LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Are the inspection results normal?

YES >> Replace IPDM E/R. Refer to <u>PCS-31, "Removal and Installation"</u> (with Intelligent Key) or <u>PCS-60, "Removal and Installation"</u> (without Intelligent Key).

NO >> Repair or replace the harness or connector.

5. CHECK PARKING, LICENSE AND TAIL LAMP GROUND CIRCUITS

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

Со	nnector	Terminal	_	Continuity
LH	E27	8		Yes
LΠ	E29	6	Ground	
RH	E28	8		
КΠ	E30	6		

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

Со	Connector		_	Continuity
LH	B25	6	Ground	Yes
RH	B27	6	Ground	165

3. Check continuity between the license plate lamp harness connectors and ground.

Connector	Terminal	_	Continuity	
B507	2	Ground	Yes	
B508	2		res	

Are the inspection results normal?

YES >> Replace the malfunctioning lamp.

NO >> Repair or replace the harness or connector.

EXL

K

В

D

Е

F

Н

M

Ν

0

Р

Revision: May 2013 EXL-81 2014 Versa Note

TURN SIGNAL LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

TURN SIGNAL LAMP CIRCUIT

Description INFOID.000000009694069

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

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

NOTE:

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

Component Function Check

INFOID:0000000009694070

1. CHECK TURN SIGNAL LAMP

CONSULT

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

LH: Turn signal 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-82, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000009694071

Regarding Wiring Diagram information, refer to EXL-44, "Wiring Diagram".

1. CHECK TURN SIGNAL LAMP BULB

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

Is the bulb OK?

YES >> GO TO 2.

NO >> Replace the bulb.

2.CHECK TURN SIGNAL LAMP OUTPUT VOLTAGE

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

	(+)		(-)	Voltage	
Cor	nnector	Terminal	()	voltage	
LH	E29	4			
RH	E30	4	Ground	(V) 15 10 5 0 1 s	

TURN SIGNAL LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

5. With turn signal switch operating, check the voltage between the rear combination lamp harness connector and ground.

	(+)		(-)	Voltage
Cor	nnector	Terminal	()	rollage
LH	B25	4		
RH	B27	4	Ground	1 s PKID0926E

Are the inspection results normal?

YES >> GO TO 5.

NO >> GO TO 3.

3.CHECK TURN SIGNAL LAMP CIRCUIT FOR OPEN

- Turn the ignition switch OFF.
- 2. Disconnect BCM connector.
- 3. Check continuity between the BCM harness connector and the front combination lamp connector.

Connector		Terminal	Connector	Terminal	Continuity
Front LH	M99 (With Intelligent Key)	60	E29		
Front RH	(With intelligent rey)	61	E30	4	Yes
Front LH	M10 (Mithout Intelligent Key)	64	E29	4	165
Front RH	M19 (Without Intelligent Key)	63	E30		

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

Connector		Terminal Connector		Terminal	Continuity
Rear LH	M99 (With Intelligent Key)	60	B25	4	Yes
Rear RH	wise (with filterligent Key)	61	B27		
Rear LH	M19 (Without Intelligent Key)	64	B25		
Rear RH	wite (williout intelligent Key)	63	B27		

Are the inspection results normal?

YES >> GO TO 4.

NO >> Repair or replace the harness or connector.

4. CHECK TURN SIGNAL LAMP SHORT CIRCUIT

Check continuity between the BCM harness connector and ground.

Connector		Terminal	_	Continuity	
LH	M99 (With Intelligent Key)	60			
RH	wise (with intelligent Key)	61	Ground	No	
LH	M19 (Without Intelligent Key)	64	Ground		
RH	with (without intelligent Key)	63			

Revision: May 2013 EXL-83 2014 Versa Note

EXL

K

Α

В

D

Е

F

Н

M

Ν

-

0

TURN SIGNAL LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection results normal?

YES >> Repair or replace the harness or connector.

NO >> Replace BCM. Refer to <u>BCS-70, "Removal and Installation"</u> (with Intelligent Key) or <u>BCS-127, "Removal and Installation"</u> (without Intelligent Key).

5. CHECK TURN SIGNAL LAMP GROUND CIRCUIT

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

Conr	nector	Terminal	_	Continuity
Front LH	E29	6	Ground	Yes
Front RH	E30	0	Oround	163

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

Conr	nector	Terminal	_	Continuity
Rear LH	B25	6	Ground	Yes
Rear RH	B27	6	Ground	163

Are the inspection results normal?

YES >> Replace the malfunctioning lamp.

NO >> Repair or replace the harness or connector.

FRONT FOG LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

FRONT FOG LAMP CIRCUIT

Component Function Check

INFOID:0000000009694072

1. CHECK FRONT FOG LAMP OPERATION

Α

В

D

Е

®WITHOUT CONSULT

- 1. Start IPDM E/R auto active test. Refer to <u>PCS-10</u>, "<u>Diagnosis Description</u>" (with Intelligent Key) or <u>PCS-39</u>, "<u>Diagnosis Description</u>" (without Intelligent Key).
- Check that the front fog lamp is turned ON.

(P)CONSULT

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

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

Is the front fog lamp turned ON?

YES >> Front fog lamp circuit is normal.

NO >> Refer to EXL-85, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000009694073

Regarding Wiring Diagram information, refer to EXL-38. "Wiring Diagram".

Н

1. CHECK FRONT FOG LAMP FUSE

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

Unit	Fuse No.	Capacity
Front fog lamp	31	15 A

Is the fuse blown?

YES >> GO TO 2.

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

2.CHECK FOG LAMP BULB

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

Is the bulb OK?

NO

YES >> GO TO 3.

>> Replace the bulb.

3.check front fog lamp output voltage

CONSULT ACTIVE TEST

- 1. Turn ignition switch OFF.
- Disconnect front fog lamp connector.
- Turn ignition switch ON.
- Select EXTERNAL LAMPS of IPDM E/R active test item.
- While operating the fog lamps, check voltage between front fog lamp harness connector and ground.

(+) Front fog la	(+) Front fog lamp		Test item	Voltage (Approx.)
Connector Terminal				

EXL

K

M

Ν

FRONT FOG LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

RH E54		Fog	Battery voltage			
IXII	L34	1	Ground	EXTERNAL LAMPS	Off	0 V
LH E53	'	Ground	EXTERNAL EXIVITO	Fog	Battery voltage	
LII	LH E53	53			Off	0 V

Is the inspection result normal?

YES >> GO TO 4. NO >> GO TO 5.

4. CHECK FRONT FOG LAMP GROUND CIRCUIT

- Turn ignition switch OFF.
- 2. Check continuity between front fog lamp harness connector and ground.

	Front fog lamp			Continuity
	Connector	Terminal	Ground	Continuity
RH	E54	2	Giodila	Yes
LH	E53	2		165

Is the inspection result normal?

YES >> Replace malfunctioning lamp.

NO >> Repair or replace the harness or connector.

5. CHECK FRONT FOG LAMP RELAY TO FRONT FOG LAMPS CIRCUIT FOR OPEN

- 1. Disconnect front fog lamp connector E58.
- Check continuity between the front fog lamp relay harness connector E58 and the front fog lamp connectors E53 and E54.

Connector	Terminal	Connector	Terminal	Continuity
E58	2	E53	1	Yes
L30	3	E54	1	163

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the harness or connector.

6.CHECK FRONT FOG LAMP RELAY VOLTAGE CIRCUIT

Check the voltage between the front fog lamp relay connector E58 and ground.

	(+)	()	Voltago	
Connector	Terminal	(-)	Voltage	
E58	2	Ground	Ratteny voltage	
L30	5	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace the harness or connector.

7. CHECK IPDM E/R TO FRONT FOG LAMP RELAY CIRCUIT FOR OPEN

- 1. Disconnect IPDM E/R connector E46.
- 2. Check continuity between the front fog lamp relay harness connector E58 and the IPDM E/R connector E46.

Connector	Terminal	Connector	Terminal	Continuity
E58	1	E46	71	Yes

Is the inspection result normal?

FRONT FOG LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace the harness or connector.

Component Inspection

INFOID:0000000009694074

1. CHECK FRONT FOG LAMP RELAY

- 1. Turn ignition switch OFF.
- 2. Remove front fog lamp relay.
- 3. Check the continuity between front fog lamp relay terminals 3 and 5 when voltage is supplied between terminals 1 and 2.

Terminals	Condition	Continuity
3 and 5	12V direct current supply between terminals 1 and 2	Yes
3 and 3	No current supply	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace front fog lamp relay.

Е

F

Α

В

C

 D

C

Н

Κ

EXL

M

Ν

0

EXTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

EXTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

CAUTION:

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

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 EXL-73.
	Both sides	_	Symptom diagnosis "BOTH SIDE HEADLAMPS DO NOT SWITCH TO HIGH BEAM" Refer to EXL-90.
High beam indicator lamp (Headlamp switches to th		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.	Both sides	Combination switch (lighting and turn signal switch) Harness between the combination switch (lighting and turn signal switch) and BCM BCM	Combination switch (lighting and turn signal switch) Refer to EXL-8. "HEADLAMP SYS-TEM: System Description".
		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	Bulb Harness between IPDM E/R and the front combination lamp Front combination lamp IPDM E/R	Headlamp (LO) circuit Refer to <u>EXL-76</u> .
ON.	Both sides	_	Symptom diagnosis "BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON" Refer to EXL-91.
Headlamp does not turn OFF. When the ignition switch is turned ON		BCM Combination switch (lighting and turn signal switch)	Combination switch (lighting and turn signal switch) Refer to EXL-8, "HEADLAMP SYSTEM: System Description".
Daytime light system does not activate.		Either high beam bulb Parking brake switch Combination switch (lighting and turn signal switch) BCM IPDM E/R Daytime light relays Harness between IPDM E/R and daytime light relays.	Daytime light system description. Refer to EXL-9.

EXTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

Symp	otom	Possible cause	Inspection item
Front fog lamp is not	One side	Front fog lamp bulb Harness between the front fog lamp and ground	Front fog lamp circuit Refer to EXL-85.
Front fog lamp is not turned ON.	Both sides	_	Symptom diagnosis "BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON" Refer to EXL-93.
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 EXL-79.
	Both sides	_	Symptom diagnosis "PARKING, LICENSE PLATE AND TAIL LAMPS ARE NOT TURNED ON" Refer to EXL-92.
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	Turn signal lamp circuit Refer to EXL-82.
	One side	Combination meter	_
Turn signal indicator	Both sides (Always)	Turn signal indicator lamp signal Combination meter BCM	Combination meter. Data monitor "TURN IND" BCM (FLASHER) Active test "FLASHER"
lamp does not blink.	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-7, "METER SYSTEM : System Description".

EXL

M

Ν

0

BOTH SIDE HEADLAMPS DO NOT SWITCH TO HIGH BEAM

< SYMPTOM DIAGNOSIS >

BOTH SIDE HEADLAMPS DO NOT SWITCH TO HIGH BEAM

Description INFOID:000000009694076

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

Diagnosis Procedure

INFOID:0000000009694077

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

Check the combination switch (lighting and turn signal switch). Refer to <u>EXL-88</u>, "Symptom Table". Is the combination switch (lighting and turn signal switch) normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

2.CHECK HEADLAMP (HI) REQUEST SIGNAL INPUT

(P)CONSULT DATA MONITOR

- 1. Select HL HI REQ of IPDM E/R DATA MONITOR item.
- 2. While operating the combination switch (lighting and turn signal switch), check the monitor status.

Monitor item	Monitor item Condition		Monitor status
HL HI REQ	Combination switch (lighting and turn signal switch)	HI or PASS	ON
TILTITILLA	Combination switch (lighting and turn signal switch)	Except for HI or PASS	OFF

Is the item status normal?

YES >> GO TO 3.

NO >> Replace BCM. Refer to <u>BCS-70</u>, "<u>Removal and Installation</u>" (with Intelligent Key) or <u>BCS-127</u>, "<u>Removal and Installation</u>" (without Intelligent Key).

3.HEADLAMP (HI) CIRCUIT INSPECTION

Check the headlamp (HI) circuit. Refer to EXL-8, "HEADLAMP SYSTEM: System Description".

Is the headlamp (HI) circuit normal?

YES >> Replace IPDM E/R. Refer to <u>PCS-31, "Removal and Installation"</u> (with Intelligent Key) or <u>PCS-60, "Removal and Installation"</u> (without Intelligent Key).

NO >> Repair or replace the malfunctioning part.

BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS >

BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON

Description INFOID:0000000000694078

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

Diagnosis Procedure

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

Check the combination switch (lighting and turn signal switch). Refer to EXL-88, "Symptom Table".

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

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

2.CHECK HEADLAMP (LO) REQUEST SIGNAL INPUT

(P)CONSULT DATA MONITOR

1. Select HL LO REQ of IPDM E/R DATA MONITOR item.

2. While operating the combination switch (lighting and turn signal switch), check the monitor status.

Monitor item	Monitor item Condition		Monitor status
HL LO REQ	Combination switch (lighting and turn signal switch)		ON
HL LO KEQ	Combination switch (lighting and turn signal switch)	OFF	OFF

Is the item status normal?

YES >> GO TO 3.

NO >> Replace BCM. Refer to <u>BCS-70, "Removal and Installation"</u> (with Intelligent Key) or <u>BCS-127, "Removal and Installation"</u> (without Intelligent Key).

3.HEADLAMP (LO) CIRCUIT INSPECTION

Check the headlamp (LO) circuit. Refer to <u>EXL-8</u>, "<u>HEADLAMP SYSTEM</u>: <u>System Description</u>". Is the headlamp (LO) circuit normal?

YES >> Replace IPDM E/R. Refer to <u>PCS-31, "Removal and Installation"</u> (with Intelligent Key) or <u>PCS-60, "Removal and Installation"</u> (without Intelligent Key).

NO >> Repair or replace the malfunctioning part.

EXL

K

Α

D

Е

F

Н

INFOID:0000000009694079

N

Р

Revision: May 2013 EXL-91 2014 Versa Note

PARKING, LICENSE PLATE AND TAIL LAMPS ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS >

PARKING, LICENSE PLATE AND TAIL LAMPS ARE NOT TURNED ON

Description INFOID:000000009694080

The parking, license plate and tail lamps do not turn ON in any combination switch (lighting and turn signal switch) position.

Diagnosis Procedure

INFOID:0000000009694081

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

Check the combination switch (lighting and turn signal switch). Refer to <u>EXL-88</u>, "Symptom Table".

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

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

2.CHECK TAIL LAMP RELAY REQUEST SIGNAL INPUT

(P)CONSULT DATA MONITOR

- Select TAIL & CLR REQ of IPDM E/R DATA MONITOR item.
- 2. While operating the combination switch (lighting and turn signal switch), check the monitor status.

Monitor item	Condition		Monitor status
TAIL & CLR REQ	Combination switch (lighting and turn signal switch)	1st	ON
IAIL & OLIVINLO	Combination switch (lighting and turn signal switch)	OFF	OFF

Is the item status normal?

YES >> GO TO 3.

NO >> Replace BCM. Refer to <u>BCS-70, "Removal and Installation"</u> (with Intelligent Key) or <u>BCS-127, "Removal and Installation"</u> (without Intelligent Key).

3.PARK LAMP CIRCUIT INSPECTION

Check the parking lamp circuit. Refer to <u>EXL-11</u>, "PARKING, LICENSE PLATE AND TAIL LAMP SYSTEM: System Description".

Is the tail lamp circuit normal?

YES >> Replace IPDM E/R. Refer to <u>PCS-31, "Removal and Installation"</u> (with Intelligent Key) or <u>PCS-60, "Removal and Installation"</u> (without Intelligent Key).

NO >> Repair or replace the malfunctioning part.

BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS >

BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

Description INFOID:000000009694082

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

Diagnosis Procedure

INFOID:0000000009694083

Α

В

D

Е

F

Н

J

K

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

Check the combination switch (lighting and turn signal switch). Refer to EXL-88, "Symptom Table".

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

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

2.CHECK FRONT FOG LAMP REQUEST SIGNAL INPUT

(P)CONSULT DATA MONITOR

1. Select FR FOG REQ of IPDM E/R DATA MONITOR item.

2. With operating the front fog lamp switch, check the monitor status.

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

Is the item status normal?

YES >> GO TO 3.

NO >> Replace BCM. Refer to <u>BCS-70</u>, "Removal and Installation" (with Intelligent Key) or <u>BCS-127</u>, "Removal and Installation" (without Intelligent Key).

3.FRONT FOG LAMP CIRCUIT INSPECTION

Check the front fog lamp circuit. Refer to EXL-85, "Diagnosis Procedure".

Is the front fog lamp circuit normal?

YES >> Replace IPDM E/R. Refer to <u>PCS-31, "Removal and Installation"</u> (with Intelligent Key) or <u>PCS-60, "Removal and Installation"</u> (without Intelligent Key).

NO >> Repair or replace the malfunctioning part.

EXL

Ν

 \cup

Р

Revision: May 2013 EXL-93 2014 Versa Note

HEADLAMP AIMING ADJUSTMENT

< PERIODIC MAINTENANCE >

PERIODIC MAINTENANCE

HEADLAMP AIMING ADJUSTMENT

Inspection INFOID:000000008969395

PREPARATION BEFORE ADJUSTING

Before performing aiming adjustment, check the following:

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

CAUTION:

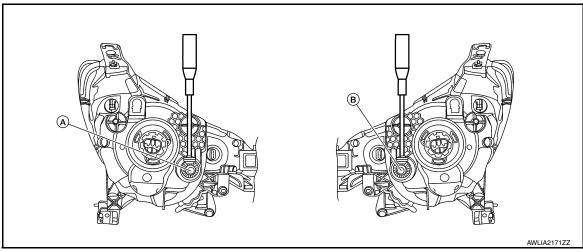
Do not use organic solvent (thinner, gasoline etc.)

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

NOTE:

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

AIMING ADJUSTMENT SCREW



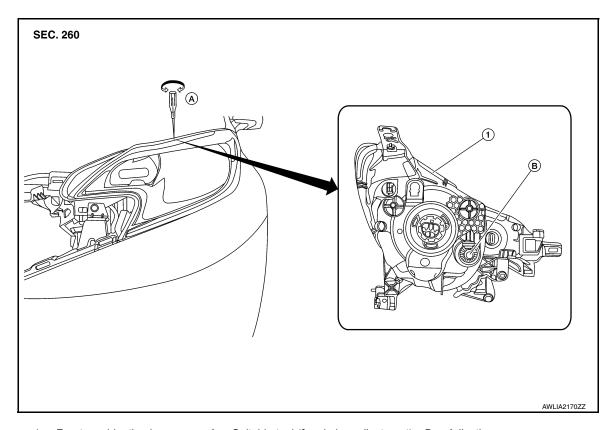
A. Headlamp (LH) (UP/DOWN) adjustment screw

B. Headlamp (RH) (UP/DOWN) adjustment screw

AIMING ADJUSTMENT SCREW

HEADLAMP AIMING ADJUSTMENT

< PERIODIC MAINTENANCE >



1. Front combination lamp

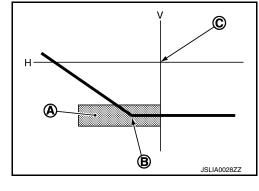
A. Suitable tool (for aiming adjustment) B. Adjusting screw

Aiming Adjustment Procedure

1. Use the aiming adjustment screw to adjust the elbow point projected by the low beams on the screen, so that it is within the aiming adjustment area.

Low beam distribution on the screen

A. : 150 mm (5.91 in)
B. : 100 mm (3.94 in)
C. : 100 mm (3.94 in)



Α

В

C

D

Е

F

G

Н

so

INFOID:0000000008969396

EXL

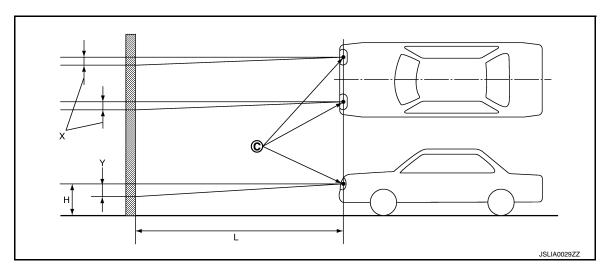
K

LAL

M

Ν

0



- C. Vertical center line of headlamp H. Horizontal center line of headlamp L. Distance from headlamp center to screen
- X. Aiming adjustment area (lateral)
- Y. Aiming adjustment area (vertical)

Distance from headlamp center to screen (L) : 10 m (33 ft)

Unit: mm (in)

	Aiming adjustment ar	ea
Vertical direct (Lower side from headle	` '	Lateral direction (X) (Left side from headlamp center line)
Highest light axis	100 (3.94)	
Target light axis	100 (3.94)	0 - 100 (3.94)
Lowest light axis	150 (5.91)	

LOW BEAM AND HIGH BEAM

NOTE:

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

CAUTION:

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

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

NOTE:

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

Distance (D) between the headlamp center and the screen : 10 m (33 ft)

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

FRONT FOG LAMP AIMING ADJUSTMENT

< PERIODIC MAINTENANCE >

FRONT FOG LAMP AIMING ADJUSTMENT

Inspection INFOID:000000009445889

PREPARATION BEFORE ADJUSTING

Before performing aiming adjustment procedure, check the following:

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

CAUTION:

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

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

NOTE:

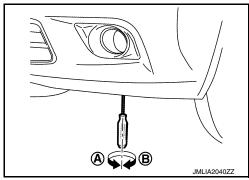
- For headlamp aiming details, refer to regulations in your area.
- By regulation, no means for horizontal aim adjustment is provided from the factory; only vertical aim is adjustable.
- Use adjusting screw to perform aiming adjustment.
- Perform headlamp aiming if:
- The vehicle front body has been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

AIMING ADJUSTMENT SCREW

 Turn the aiming adjusting screw using a suitable tool to aim the fog lamp.

A: UP

B: DOWN



Aiming Adjustment Procedure

Screen placement.

NOTE:

- Place the screen perpendicular to the level road.
- Position the vehicle facing the screen with 10 m (33 ft) between the front fog lamp center and the screen.

EXL-97

2. Start the engine. Illuminate the front fog lamp.

CAUTION:

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

INFOID:0000000009445890

EXL

Α

D

Е

Н

M

Ν

Р

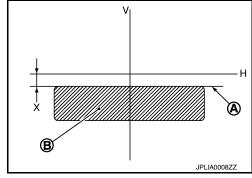
2014 Versa Note

FRONT FOG LAMP AIMING ADJUSTMENT

< PERIODIC MAINTENANCE >

- Adjust the cutoff line height (A) with the aiming adjustment screw so that the distance (X) between the horizontal center line of front fog lamp (H) and (A) becomes 200 mm (7.87 in). Front fog lamp light distribution on the screen
 - A :Cutoff line
 - B :High illuminance
 - H :Horizontal center line of front fog lampV :Vertical center line of front fog lamp

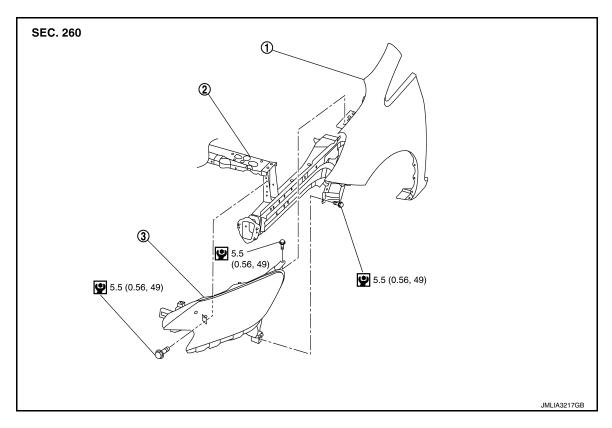
 - X :Cutoff line height



REMOVAL AND INSTALLATION

FRONT COMBINATION LAMP

Exploded View INFOID:0000000008969397



Front fender

Radiator core upper support

Front combination lamp

Removal and Installation

REMOVAL

Remove front bumper fascia. Refer to EXT-24, "Removal and Installation".

- 2. Remove the front combination lamp bolts.
- Pull front combination lamp forward.
- Disconnect the harness connectors from front combination lamp and remove.

INSTALLATION

Installation is in the reverse order of removal.

NOTE:

After installation, perform headlamp aiming adjustment procedure. Refer to EXL-95, "Aiming Adjustment Procedure".

Bulb Replacement

WARNING:

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

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

HEADLAMP BULB

EXL-99 Revision: May 2013 2014 Versa Note EXL

INFOID:0000000008969398

INFOID:0000000008969399

Α

В

D

Е

Н

Ν

FRONT COMBINATION LAMP

< REMOVAL AND INSTALLATION >

Removal

- Remove plastic cover.
- Remove bulb from the front combination lamp.

Installation

Installation is in the reverse order of removal.

CAUTION:

After installing the bulb, install the bulb socket securely for watertightness.

SIDE MARKER LAMP BULB

Removal

- 1. Rotate bulb socket counterclockwise and remove.
- 2. Remove the bulb from bulb socket.

Installation

Installation is in the reverse order of removal.

CAUTION:

After installing the bulb, install the bulb socket securely for watertightness.

FRONT TURN SIGNAL/PARKING LAMP BULB

Removal

- 1. Rotate bulb socket counterclockwise and remove.
- 2. Remove the bulb from bulb socket.

Installation

Installation is in the reverse order of removal.

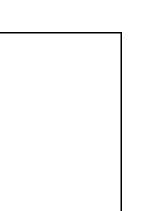
CAUTION:

After installing the bulb, install the bulb socket securely for watertightness.

FRONT FOG LAMP

SEC. 263

Exploded View



AWLIA2178ZZ

INFOID:0000000009445892

INFOID:0000000009445893

Front fog lamp

Front bumper fascia

Front fog lamp bracket

Removal and Installation

REMOVAL

- Partially remove front fender protector. Refer to EXT-36, "Exploded View".
- Disconnect the harness connector from front fog lamp.
- 3. Remove screws and front fog lamp.

INSTALLATION

Installation is in the reverse order of removal.

NOTE:

After installation, perform fog lamp aiming adjustment procedure. Refer to EXL-97, "Aiming Adjustment Procedure".

Bulb Replacement

WARNING:

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

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

REMOVAL

1. Partially remove fender protector. Refer to EXT-36, "Exploded View".

K

Α

В

D

Е

Н

INFOID:0000000009445891

EXL

M

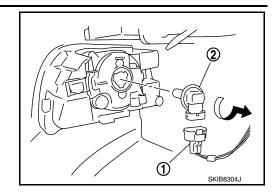
Ν

0

FRONT FOG LAMP

< REMOVAL AND INSTALLATION >

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



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installing the bulb, install the bulb socket securely for watertightness.

COMBINATION SWITCH

< REMOVAL AND INSTALLATION >

COMBINATION SWITCH

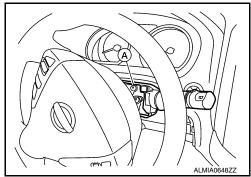
Removal and Installation

CAUTION:

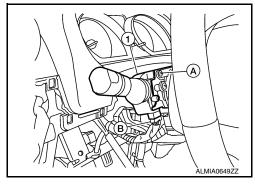
- Before servicing, turn the ignition switch OFF, disconnect both battery terminals and wait at least three minutes.
- Do not use air or electric tools when removing or installing the combination switch.

REMOVAL

- 1. Disconnect the negative and positive battery terminals, then wait at least three minutes. Refer to <u>PG-67</u>. "Removal and Installation (Battery)".
- Remove the steering column covers. Refer to <u>IP-17, "Removal and Installation"</u>.
- 3. Rotate steering wheel clockwise to access first combination switch screw (A) and remove.



- Rotate steering wheel counter-clockwise to access second combination switch screw (A) and remove.
- 5. Disconnect the harness connector (B) from the combination switch (1) and remove.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- 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.
- If a malfunction is still detected after the above operation, perform self-diagnosis to repair malfunctions. Refer to BCS-57, "Work Procedure".

EXL

K

Α

D

Е

Н

INFOID:0000000009606281

Ν

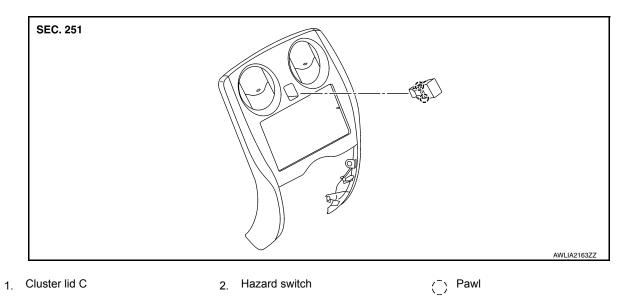
0

Р

Revision: May 2013 EXL-103 2014 Versa Note

HAZARD SWITCH

Exploded View



Removal and Installation

INFOID:0000000009445881

REMOVAL

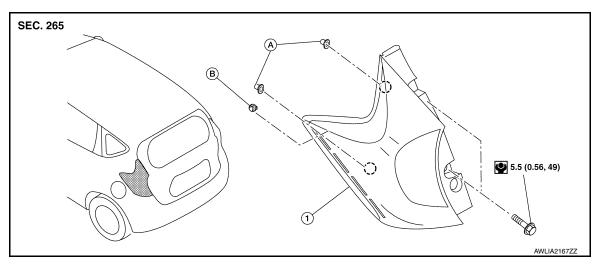
- 1. Remove cluster lid C. Refer to IP-22, "Removal and Installation".
- 2. Release pawls and remove hazard switch.

INSTALLATION

Installation is in the reverse order of removal.

REAR COMBINATION LAMP

Exploded View INFOID:0000000008969409



- Rear combination lamp
- A. Grommet

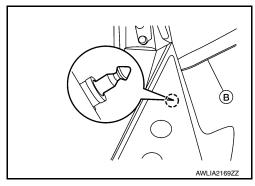
B. Clip

() Locating pin

Removal and Installation

REMOVAL

- 1. Remove rear combination lamp bolts.
- Release the locating pin (A) of the rear combination lamp using a suitable tool (B) as shown.



Disconnect the harness connector from the rear combination lamp and remove.

INSTALLATION

Installation is in the reverse order of removal.

Bulb Replacement

INFOID:0000000008969411

INFOID:0000000008969410

WARNING:

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

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

STOP/TAIL LAMP BULB

Removal

Remove rear combination lamp. Refer to <u>EXL-105</u>, "Removal and Installation".

EXL-105 Revision: May 2013 2014 Versa Note

Ν

M

K

EXL

Α

В

D

Е

0

REAR COMBINATION LAMP

< REMOVAL AND INSTALLATION >

- 2. Rotate stop/tail lamp bulb socket counterclockwise and remove.
- Remove stop/tail lamp bulb from bulb socket.

Installation

Installation is in the reverse order of removal.

CAUTION:

After installing the bulb, install bulb socket securely for watertightness.

REAR TURN SIGNAL LAMP BULB

Removal

- Remove rear combination lamp. Refer to <u>EXL-105</u>, "<u>Removal and Installation</u>".
- 2. Rotate rear turn signal lamp bulb socket counterclockwise and remove.
- 3. Remove rear turn signal lamp bulb from bulb socket.

Installation

Installation is in the reverse order of removal.

CAUTION:

After installing the bulb, install bulb socket securely for watertightness.

BACK-UP LAMP BULB

Removal

- 1. Remove rear combination lamp. Refer to EXL-105, "Removal and Installation".
- 2. Rotate back-up lamp bulb socket counterclockwise and remove.
- 3. Remove back-up lamp bulb from bulb socket.

Installation

Installation is in the reverse order of removal.

CAUTION:

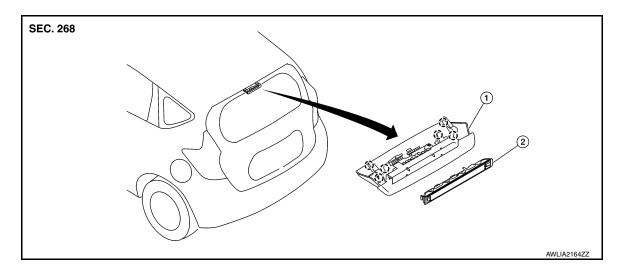
After installing the bulb, install bulb socket securely for watertightness.

HIGH-MOUNTED STOP LAMP

< REMOVAL AND INSTALLATION >

HIGH-MOUNTED STOP LAMP

Exploded View INFOID:0000000008969412



- 1. High-mounted stop lamp
- 2. High-mounted stop lamp LED () Pawl

Removal and Installation

INFOID:0000000008969413

REMOVAL

- Release high-mounted stop lamp pawls using a suitable tool.
- Disconnect the harness connector from high-mounted stop lamp and remove.

INSTALLATION

Installation is in the reverse order of removal.

Bulb Replacement

INFOID:0000000008969414

HIGH-MOUNTED STOP LAMP BULB

The high-mounted stop lamp bulb is a LED and is integrated into the high-mounted stop lamp and is serviced as an assembly. Refer to EXL-107, "Removal and Installation".

EXL

Α

В

D

Е

F

Н

J

K

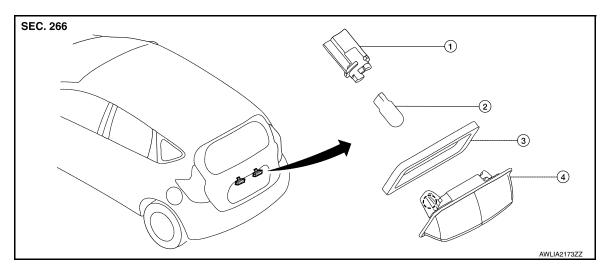
M

Ν

0

LICENSE PLATE LAMP

Exploded View



- 1. License plate lamp bulb socket
- License plate lamp bulb
- Seal

- 4. License plate lamp
- (Pawl

Removal and Installation

INFOID:0000000008969416

REMOVAL

- 1. Remove back door outer finisher. Refer to EXT-46, "Removal and Installation".
- 2. Disconnect harness connector from license plate lamp.
- 3. Release license plate lamp pawl and remove license plate lamp.

INSTALLATION

Installation is in the reverse order of removal.

Bulb Replacement

INFOID:0000000008969417

WARNING:

Do not touch bulb with your hand while it is on or right after being turned off. Burning may result. CAUTION:

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

REMOVAL

- 1. Remove license plate lamp. Refer to EXL-108, "Removal and Installation".
- 2. Rotate license plate lamp bulb socket counterclockwise and remove.
- 3. Remove license plate lamp bulb from bulb socket.

INSTALLATION

Installation is in the reverse order of removal.

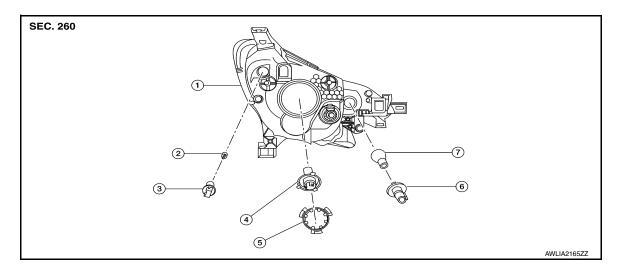
CAUTION:

After installing the bulb, install the bulb socket securely for watertightness.

UNIT DISASSEMBLY AND ASSEMBLY

FRONT COMBINATION LAMP

Exploded View



1. Front combination lamp

Front turn signal/Parking lamp

- 4. Headlamp bulb
- 2. Side marker lamp bulb
- Lock ring

- 3. Side marker lamp socket
- Front turn signal/Parking lamp bulb socket

Disassembly and Assembly

WARNING:

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

 Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.

• Do not leave the bulb out of the lamp reflector for a long time because dust, moisture, smoke, etc. may affect the performance of the lamp.

DISASSEMBLY

- 1. Remove front combination lamp. Refer to EXL-99, "Removal and Installation".
- 2. Rotate lock ring counterclockwise and remove.
- 3. Remove headlamp bulb.
- 4. Rotate side marker bulb socket counterclockwise and remove.
- 5. Remove the side marker lamp bulb from the side marker bulb socket.
- 6. Rotate turn signal/parking lamp bulb socket counterclockwise and remove.
- Remove turn signal/parking lamp bulb from turn signal/parking lamp bulb socket.

ASSEMBLY

Assembly is in the reverse order of disassembly.

CAUTION:

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

INFOID:0000000009670468

EXL

Α

В

D

Е

Н

ΞXL

Ν

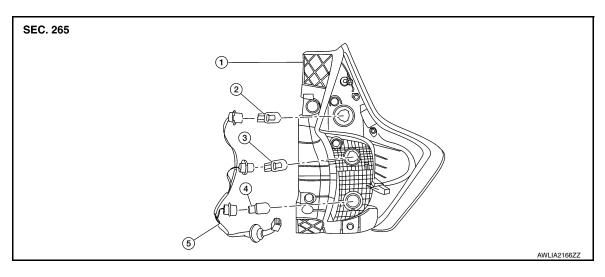
0

Р

Revision: May 2013 EXL-109 2014 Versa Note

REAR COMBINATION LAMP

Exploded View



- 1. Rear combination lamp
- 4. Rear turn signal lamp bulb
- Stop/tail lamp bulb
 Harness connector
- 3. Back-up lamp bulb

Disassembly and Assembly

INFOID:0000000009670472

WARNING:

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

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

DISASSEMBLY

- Remove rear combination lamp. Refer to EXL-105, "Removal and Installation".
- 2. Rotate rear turn signal lamp bulb socket counterclockwise and remove.
- 3. Remove rear turn signal lamp bulb from bulb socket.
- 4. Rotate back-up lamp bulb socket counterclockwise and remove.
- 5. Remove back-up lamp bulb from bulb socket.
- 6. Rotate stop/tail lamp bulb socket counterclockwise and remove.
- 7. Remove stop/tail lamp bulb from bulb socket.

ASSEMBLY

Assembly is in the reverse order of disassembly.

CAUTION:

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

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb specification

Item		Wattage (W)*
Front combination	Headlamp (HI/LO)	65/55
	Front Turn signal/Parking lamp	27/8
	Side marker lamp	5
Fog lamp (if equipped)		55
Rear combination	Stop/Tail lamp	21/5
	Rear turn signal lamp	21
	Back-up lamp	21
License plate lamp		5
High-mounted stop lamp	Normal glass	LED
	Privacy glass	LED

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

K

EXL

Α

В

C

D

Е

F

Н

INFOID:0000000008969418

Ι. /Ι

Ν

0

Р

Revision: May 2013 EXL-111 2014 Versa Note