SECTION INTERIOR LIGHTING SYSTEM

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PRECAUTION

PRECAUTIONS

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

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

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

WARNING:

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

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PREPARATION

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PREPARATION

PREPARATION

Special Service Tool

INFOID:0000000012519748

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

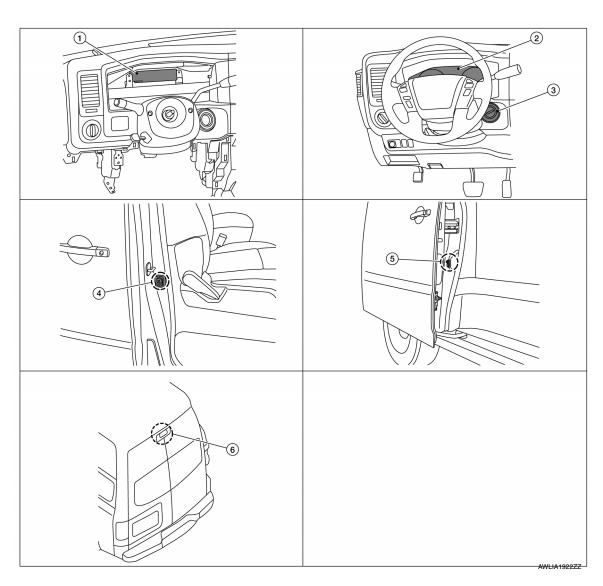
SYSTEM DESCRIPTION

COMPONENT PARTS

INTERIOR ROOM LAMP CONTROL SYSTEM

INTERIOR ROOM LAMP CONTROL SYSTEM: Component Parts Location

INFOID:0000000012519749



- BCM (view with steering wheel and combination meter removed)
- 4. Front door switch RH/LH (RH shown) 5.
- 2. Combination meter
 - Sliding door switch RH
- 3. Key switch
- 6. Back door switch upper RH (cargo van shown, passenger van similar)

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INTERIOR ROOM LAMP CONTROL SYSTEM : Component Description

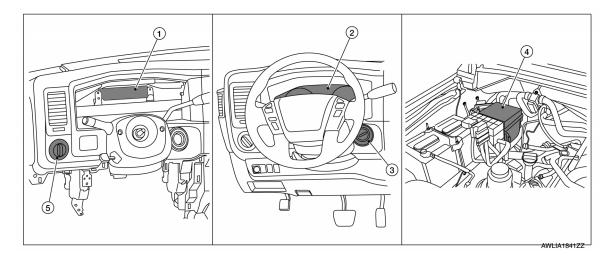
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Part name	Description		
BCM	Provides power and ground and controls timer functions for the following: • Front room lamp. • Rear Cargo lamp (cargo van). • Front and center cargo lamps (cargo van, if equipped). • Personal lamps and step lamps (passenger van, if equipped). • Cargo lamp (passenger van).		
Key switch	Provides key in ignition status to the BCM.		
Door switches	Provides door OPEN/CLOSED status to the BCM.		
Back door switch	Provides back door OPEN/CLOSED status to the BCM.		
Power window and door lock/unlock switch RH (if equipped)	Provides door lock/unlock position switch RH status to the BCM.		
Main power window and door lock/unlock switch (if equipped)	Describes described to the DON		
Front door lock assembly LH (key cylinder switch) (if equipped)	Provides door lock/unlock position switch LH status to the BCM.		

ILLUMINATION CONTROL SYSTEM

ILLUMINATION CONTROL SYSTEM: Component Parts Location

INFOID:0000000012519751



- BCM (view with steering wheel and combination meter removed)
- 4. IPDM E/R

- Combination meter (illumination con- 3. Key switch trol switch)
- 5. Lighting switch

ILLUMINATION CONTROL SYSTEM: Component Description

INFOID:0000000012519752

Part name	Description
ВСМ	The BCM monitors the lighting switch position. The BCM requests, via CAN communication, that the IPDM E/R activate the tail lamp relay.
IPDM E/R	The IPDM E/R activates the tail lamp relay based on inputs received from the BCM via the CAN communication network.

COMPONENT PARTS

< SYSTEM DESCRIPTION >

Combination meter (illumination control switch)	The illumination control switch is a part of the combination meter. The combination meter controls illumination intensity by varying ground to the illumination lamps based on the illumination control switch position.	А
Lighting switch	The lighting switch provides input to the BCM about the lighting switch position.	В

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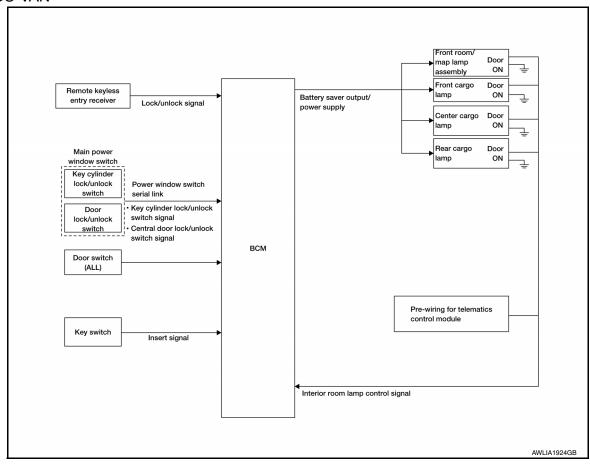
SYSTEM

INTERIOR ROOM LAMP CONTROL SYSTEM

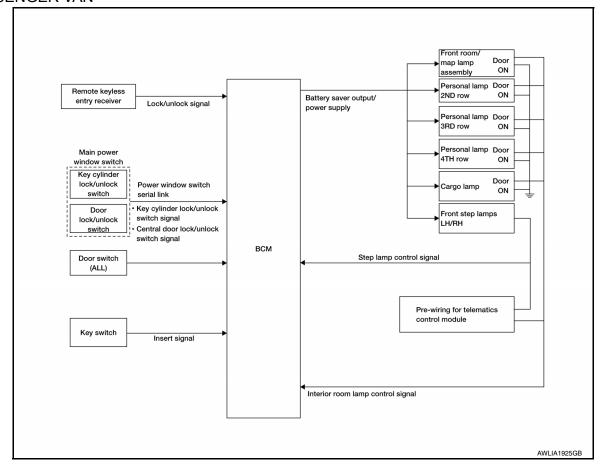
INTERIOR ROOM LAMP CONTROL SYSTEM: System Diagram

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CARGO VAN



PASSENGER VAN



INTERIOR ROOM LAMP CONTROL SYSTEM: System Description

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OUTLINE

Interior room lamps are controlled by the interior room lamp timer control function of the BCM when the lamp switch is in DOOR position.

Front step lamps are controlled by the step lamp control function of the BCM.

The timer control functions of the BCM activate based on inputs from the remote keyless entry receiver, the key cylinder lock/unlock switch, the door switches, the key switch and lock solenoid.

ROOM LAMP TIMER OPERATION

When the interior room lamp switch is in the DOOR position and when all conditions below are met, the BCM begins timer control (maximum 30 seconds) for interior room lamp ON/OFF.

- When the front door LH is unlocked with key fob, main power window and door lock/unlock switch, or front door lock assembly LH (key cylinder switch).
- When a door opens → closes and the key is not inserted in the ignition switch.

Timer control is cancelled under the following conditions.

- When the front door LH is locked with key fob, main power window and door lock/unlock switch, or front door lock assembly LH (key cylinder switch).
- A door is opened (door switch turns ON).
- Ignition switch is turned ON.

Interior lamp operational settings can be changed with the CONSULT.

INTERIOR LAMP BATTERY SAVER CONTROL

If an interior lamp is left ON and does not turn OFF even when the doors are closed, the BCM turns off power to the interior lamps automatically to save the battery 15 minutes after the ignition switch is turned OFF. The BCM controls power and ground to all interior lamps.

After the battery saver system turns the lamps OFF, the lamps will illuminate again when the following conditions are met:

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SYSTEM

< SYSTEM DESCRIPTION >

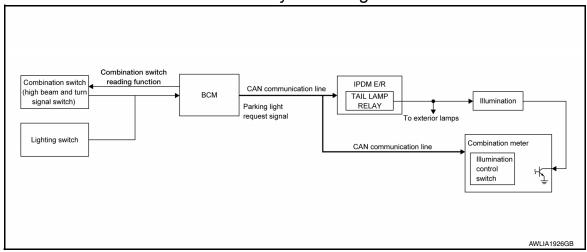
- a signal is received from a key fob, main power window and door lock/unlock switch, or when the front door lock assembly LH (key cylinder switch) is locked or unlocked
- · a door is opened or closed
- the key is removed from or inserted into the ignition switch.

The interior lamp battery saver control time period can be changed with the CONSULT.

ILLUMINATION CONTROL SYSTEM

ILLUMINATION CONTROL SYSTEM : System Diagram

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ILLUMINATION CONTROL SYSTEM: System Description

INFOID:0000000012519756

The illumination lamps operation is dependent upon the position of the lighting switch. When the lighting switch is placed in the 1st or 2nd position (or if the auto light system is activated) the BCM (body control module) receives input requesting the parking lamps to illuminate. This input is communicated to the IPDM E/R (intelligent power distribution module engine room) via the CAN communication lines. The CPU (central processing unit) of the IPDM E/R controls the tail lamp relay coil. When energized, this relay directs power to the parking and illumination lamps, which then illuminate.

BATTERY SAVER CONTROL

When the lighting switch is in the 1st or 2nd position and the ignition switch is turned from ON or ACC to OFF, the battery saver control feature is activated. Under this condition, the illumination lamps remain illuminated for 15 minutes unless the lighting switch position is changed. If the lighting switch position is changed, then the illumination lamps are turned off after a 30 second delay. When the lighting switch is turned from OFF to 1st or 2nd position (or if auto light system is activated) after illumination lamps have been turned off by the battery saver control, the illumination lamps illuminate again.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

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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			×	×			
Panic alarm system	PANIC ALARM				×			

INT LAMP

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:0000000012797928

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 back door switch.
DOOR SW-RL [On/Off]	Indicates condition of sliding door switch.
BACK DOOR SW [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.
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
INT LAMP	This test is able to check interior room lamp operation [Off/On].

WORK SUPPORT

Support Item	Setting		Description
SET I/L D-UNLCK INTCON	Off		Interior room lamp timer function OFF.
SET I/E B-ONEOK INTOON	On*		Interior room lamp timer function ON.
	MODE4*	30 sec.	
ROOM LAMP TIMER SET	MODE3	15 sec.	Sets the interior room lamp ON time (timer operation).
NOOM EANN TIMEN GET	MODE2	7.5 sec.	dets the interior room lamp dividine (times operation).
	MODE1	0 sec.	
	MODE7	0 sec.	
	MODE6	5 sec.	
	MODE5	4 sec.	
ROOM LAMP ON TIME SET	MODE4	3 sec.	Sets the interior room lamp gradual brightening time.
	MODE3	2 sec.	
	MODE2*	1 sec.	
	MODE1	0.5 sec.	
	MODE7	0 sec.	
	MODE6	5 sec.	
	MODE5	4 sec.	
ROOM LAMP OFF TIME SET	MODE4	3 sec.	Sets the interior room lamp gradual dimming time.
	MODE3	2 sec.	
	MODE2*	1 sec.	
	MODE1	0.5 sec.	

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Support Item	Setting	Description
R LAMP TIMER LOGIC SET	MODE2	Interior room lamp timer activation synchronizing all doors.
IX EAWIF TIMEIX LOGIC SET	MODE1*	Interior room lamp timer activation synchronizing driver door only.

* : Initial setting

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

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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 back door switch.
DOOR SW-RL [On/Off]	Indicates condition of sliding door switch.
BACK DOOR SW [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.
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.

WORK SUPPORT

Support Item	Sef	etting	Description
	MODE3	10 min	
ROOM LAMP TIMER SET	MODE2	60 min	Sets the interior room lamp battery saver timer operating time.
	MODE1*	15 min	

^{*:} Initial setting

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

List of ECU Reference

INFOID:0000000012519760

ECU	Reference
	BCS-28, "Reference Value"
BCM	BCS-39, "Fail-safe"
BCIVI	BCS-39, "DTC Inspection Priority Chart"
	BCS-39, "DTC Index"

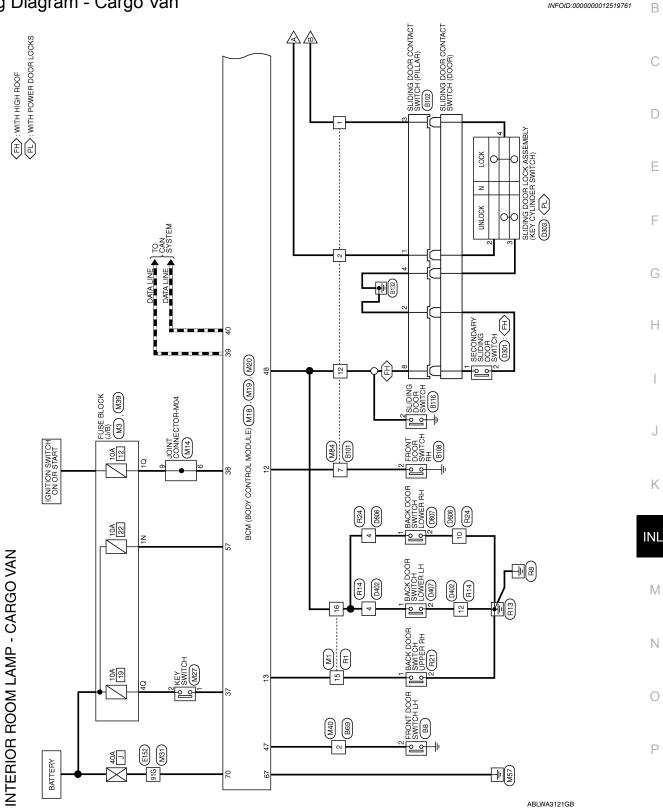
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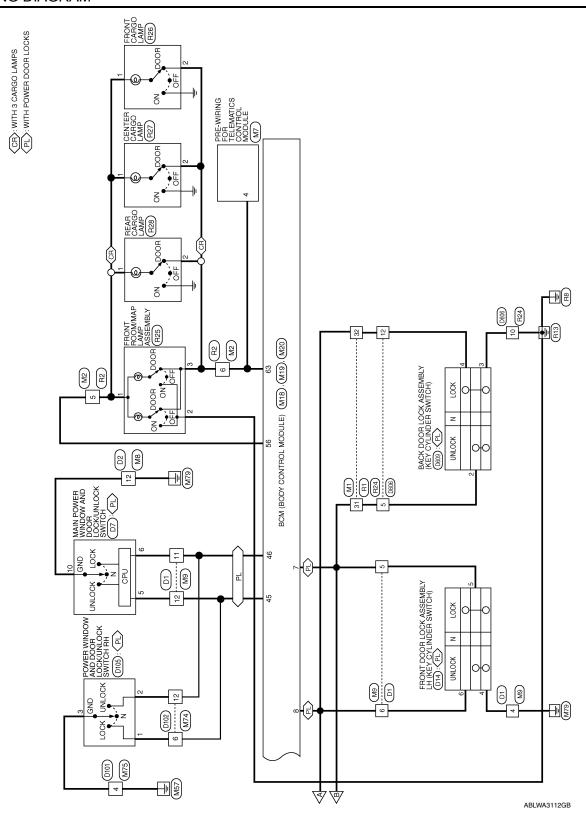
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WIRING DIAGRAM

INTERIOR ROOM LAMP CONTROL SYSTEM

Wiring Diagram - Cargo Van





WHITE WHITE STOOL OF THE STOOL	Connector Color WH. H.S. SN	2 1 3 5 6 7 8	Terminal No. Wire 5 SB 6 L		Signal Name	Color of Wire 15 GR 16 O	Terminal N
						>	31
		ı	9 P		1	0	16
		ı			ı	GR	15
or of Signal Name	Terminal No. Wi	Signal Name	Terminal No. Wire			No. Color o	Terminal N
3N	ن ن	2 9 9 2					
WHITE	Connector Color		H.S.	2 13 14 15 16 3 29 30 31 32	3 4 5 6 7 8 9 10 11 12 13 14 14 21 22 23 24 25 26 27 28 29 30	1 2 3 4 17 18 19 20	H.S.
FUSE BLOCK (J/B)		ITE	nector Color W	31	23 ~		Connector 原動 H.S.
)	Connector Name	IE TO WIRE	Connector Name WIRE TO WIRE Connector Color WHITE		23 7	Connector Name WIRE TO Connector Color WHITE M.S. [1 2 3 4 5 6 7 7 17 18 19 20 21 22 23 23 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	Connector Connector

Connector No. M8 Connector Name WIRE TO WIRE Connector Color WHITE H.S. To a signal to the signal of the signal No. Wire Signal of the signal
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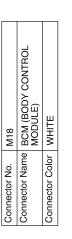
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Signal Name	KEY CYLINDER UNLOCK SW	KEY CYLINDER LOCK SW	DOOR SW (AS)	DOOR SW (RR)	KEY SW	IGN SW	CAN-H	CAN-L
Color of Wire	\	SB	0	GR	BR	В	٦	Ь
Terminal No.	7	ω	12	13	37	38	39	40





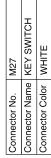


Connector No. M14
Connector Name JOINT CONNECTOR-M04

Connector Color BLUE

Signal Name	1	-	
Color of Wire	Ж	Я	
Terminal No.	9	6	



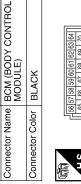


M20

Connector No.









Connector No.	M19
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color WHITE	WHITE
H.S.	



Signal Name	1	ı
Color of Wire	BR	Υ
Terminal No.	1	2

Signal Name	BATTERY SAVER OUTPUT	BATTERY (FUSE)	ROOM LAMP OUTPUT	GND	BATTERY (F/L)
Color of Wire	SB	FG	7	В	В
Terminal No. Wire	99	25	69	29	02

Signal Name	CENTRAL DOOR LOCK SW	CENTRAL DOOR UNLOCK SW	DOOR SW (DR)	DOOR SW (SLIDE, BK LWR)
Color of Wire	GR	В	SB	0
Terminal No. Wire	45	46	47	48

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		А
VIRE Signal Name		В
	# TE TO WIRE 10 9 7 6	С
No. M40 M40	M84 M85 M84 M17E M17	D
Connector No. Connector Color Connector Color H.S. Terminal No. Connector Color Connector Color Connector Color Connector Name	Connector No. M84 Connector Name WIRE TO WIRE Connector Color WHITE	Е
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Signal Name		G
M39		Н
ctor No.	No. M75 Name WIR5 Color WHI Lo. Color of Wire B B	I
Conne Conne Termir	Connector No. Connector Name Connector Color H.S. Terminal No. A	J
		K
WHITE		NL M
0. M31 ame WIRE T olor WHITE	NT4 NM74 NM76 N	N
M31 Connector No. M31	Connector No. M74 Connector Name WIRE TO WIRE Connector Color WHITE Terminal No. Wire 6 GR 12 8 4 5 6 7 8 9 10 11 12 8 GR	0
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Connector No. B69 Connector Name WIRE TO WIRE Connector Color WHITE	Terminal No. Wire Signal Name		Connector No. B108 Connector Name FRONT DOOR SWITCH RH Connector Color WHITE	H.S.		al No.	2 0 -		
Connector No. B8 Connector Name FRONT DOOR SWITCH LH Connector Color WHITE	H.S. Color of Signal Name 2 SB -		Connector No. B102 Connector Name SLIDING DOOR CONTACT SWITCH Connector Color WHITE	(新) (3) (二) (2 1) (1) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	Terminal No. Wire Signal Name	•	a >		
Connector No. E152 Connector Name WIRE TO WIRE Connector Color WHITE	16.5 16 16 16 16 16 16 16 1	1000 950 940 950 940 950 940 950 940 950 940 950 940 950 940 950 940	Connector No. B101 Connector Name WIRE TO WIRE Connector Color WHITE	1 2 3 mm 4 5 6 7 8 9 10 11 12	al No. Wire Signa	2 SB		12 0 -	

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o. R2 ame WIRE T	8 8	Color of Wire SB		D
Connector No. R2 Connector Name WIRE TO WIRE Connector Color WHITE	H.S.	Terminal No. 5	Connector No. Connector Name Connector Color Terminal No. W 4 0 5 12 S 12	Е
	3 2 1			F
	7 6 5 4 3 2 2 2 1 20 19	lame	ame JOH	G
E TO WIRE	11 10 9 8 27 26 25 24	Signat Name	C DOOR SWITCH	Н
Vo. R1 Vame WIRE T	16 15 14 13 12 32 31 30 29 28	Color of Wire GR GR	O. R21 ame BACK Color of Wire GRR GR	I
Connector No. R1 Connector Name WIRE TO WIRE Connector Color WHITE	H.S.	Terminal No. 15 16 31 32	Connector No. R21 Connector Name BACK DOOR SWITCH UPPER RH Connector Color WHITE Terminal No. Wire 1 GR 2 B	J
				K
B116 SLIDING DOOR SWITCH WHITE		Signal Name	## RE TO WIRE HITE Signal Name	INL
	0 0 0	Color of Wire O	R14 Simple R14 Simple R14 Simple R14 Simple R14 Simple R14 Simple S	N
Connector No. Connector Color	H.S.	Terminal No.	Connector No. R14	0
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< WIRING DIAGRAM >

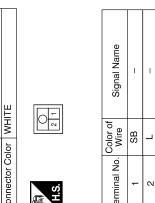


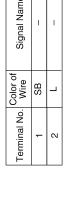
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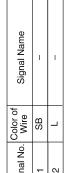
Connector Color WHITE

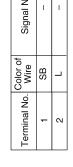
R25

Connector No.

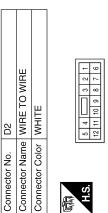


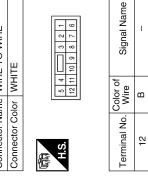






Signal Name	I	I	I	
Color of Wire	SB	В		
Terminal No. Wire	-	2	3	





	WIRE TO WIRE		_		-	7	Π
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	0			/	က	6	ıl
	<u> -</u>	Ш	l IN	١	4	10	ıl
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lo.	lame	olor					_



Signal Name	_	-	_	1	1
Color of Wire	В	Υ	SB	В	GR
Terminal No.	4	2	9	11	12

Connector No. Connector Col	Connector No. Connector Color
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R CARGO LAMP	TE	2 0
REA	MHI	
Connector Name REAR CARGO LAMP	Connector Color WHITE	

Connector No. R28

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







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< WIRING DIAGRAM >

		7				1	
	E TO WIRE		7 6 5 4	Signal Name	ı		
. D10	me WIR		∞ ∞	Color of Wire	В		
Connector No. D101	Connector Name WIRE TO WIRE Connector Color WHITE		H.S.	Terminal No. Wire	4		
	Connector Name FRONT DOOR LOCK ASSEMBLY LH		4 0 0 0	Signal Name	ı	ı	ı
. D14	me FROM ASSE	lor GRA	1 2	Color of Wire	В	>	SB
Connector No. D14	Connector Na	Connector Color GRAY	H.S.	Color of Terminal No. Wire	4	5	9
	I		1				
	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK		3 4 6 7 10 11 12 13 14 15 16	Signal Name	LOCK	UNLOCK	GND
. D7	MAIN me AND	lor WHI	1 2 3	Color of Wire	GR	œ	В
Connector No.	Connector Name AND DOOR LOC	Connector Color WHITE	原 H.S.	Terminal No. Wire	5	9	10

Connector No.	D301	1
Connector Na	me SEC	Sonnector Name SECONDARY SLIDING DOOR SWITCH
Connector Color	olor BLACK	CK
H.S.		(1) Z
Terminal No.	Color of Wire	Signal Name
-	Μ	ı
2	В	ı

Connector No.	o. D105	J5
Connector N	ame DO SW	Connector Name POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH
Connector Color		WHITE
H.S.	- w	2
Terminal No.	Color of Wire	Signal Name
-	GR	I
7	Н	-
8	В	1

2	WIRE TO WIRE	<u> </u>	110 9 8 7 7	Signal Name	I	I
. D102		lor WH	6 5 1 1 1 1 1 1 1	Color of Wire	GR	В
Connector No.	Connector Name	Connector Color WHITE	H.S.	Terminal No.	9	12

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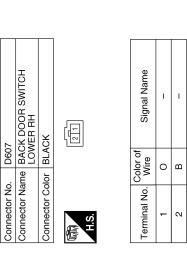
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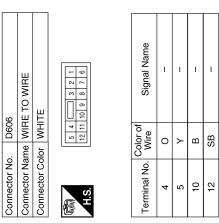
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C K	Terminal No. Wire Signal Name	0	2 B -
© CK	Signal Name	ı	1
C C K	Terminal No. Wire	0	12 B
3 4	Signal Name		1
Connector No. D303 Connector Name SLIDING DOOR ASSEMBLY Connector Color GRAY H.S.	Terminal No. Wire	2 BR	3 R

Connector No.	. D609	6
Connector Na	me BAC ASS	Connector Name BACK DOOR LOCK ASSEMBLY
Connector Color	lor GRAY	17
是 H.S.	- 2	8 C C C C C C C C C C C C C C C C C C C
Terminal No.	Color of Wire	Signal Name
2	>	ı
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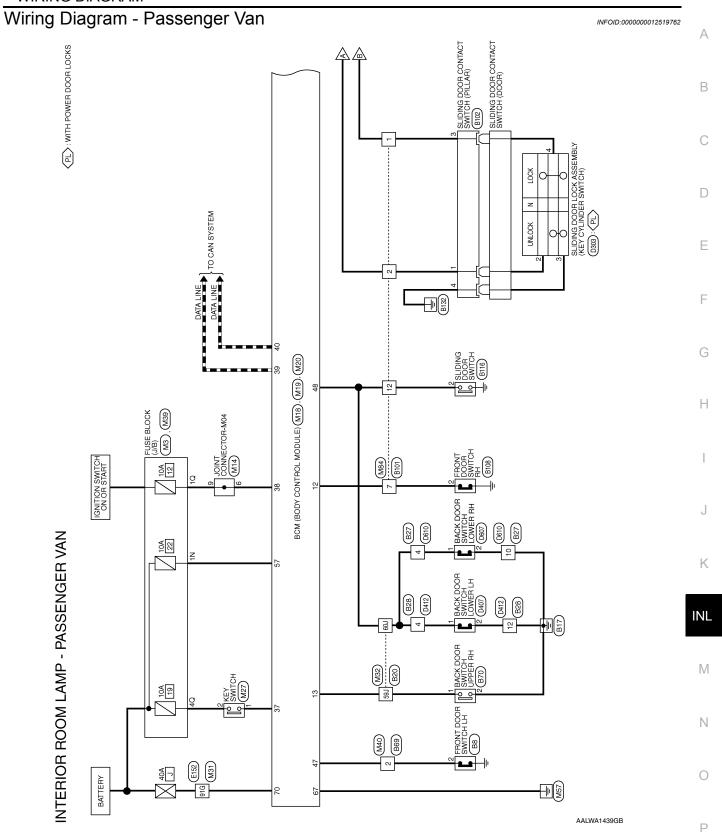
SB

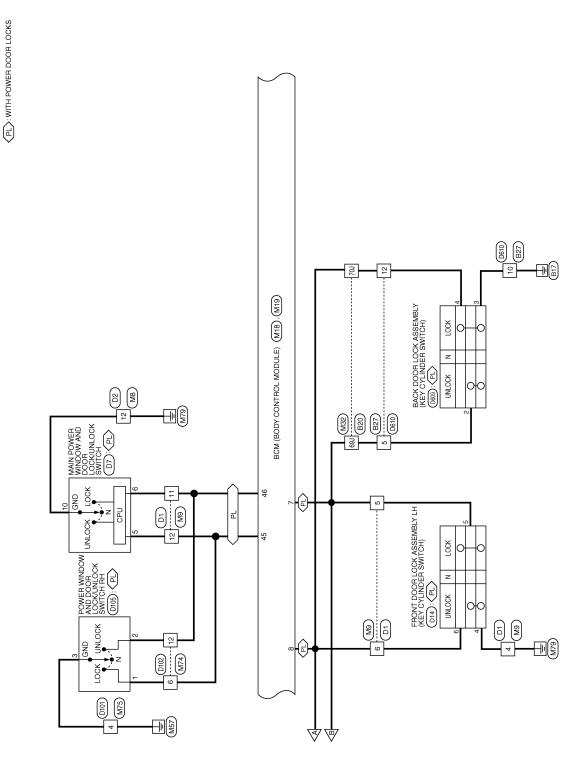




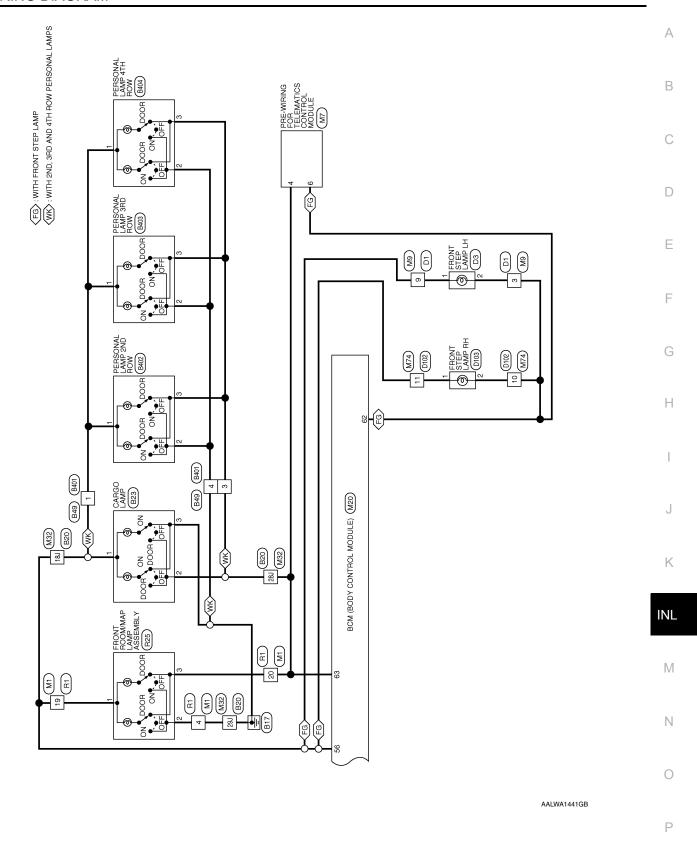
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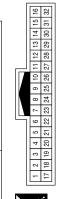


INTERIOR ROOM LAMP CONNECTORS - PASSENGER VAN

Connector No.	M
Connector Name	Connector Name WIRE TO WIRE
Connector Color WHITE	WHITE

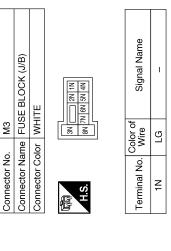
WIRE TO WIRE

Connector Color WHITE Connector Name Connector No.



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Signal Name	-	-	
Color of Wire	В	SB	_
rminal No.	4	19	20



Signal Name	-	_	
Color of Wire	SB	٦	
minal No.	5	9	

Color of Color of Wire 5 SB 6 L	Signal Name	ı	I	
Terminal No. 5	Color of Wire	SB	Т	
	Terminal No.	2	9	

Color of Wire	SB	Γ	
Terminal No.	5	9	

Signal Name	_	_	_
Color of Wire	В	SB	L
Terminal No.	4	19	20

	O WIRE	
6W	WIRE TO	WHITE
Connector No.	Connector Name WIRE TO WIRE	Connector Color
Conne	Conne	Conne



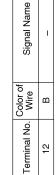
Connector No. Connector Name Connector Color	Connector No. M8 Connector Name WIRE TO WIRE Connector Color WHITE
區	1 2 3
S F	6 7 8 9 10 11 12

PRE-WIRING FOR TELEMATICS CONTROL MODULE

Connector Name Connector Color

Connector No.

WHITE



DOME LAMP (GND)

Signal Name

Color of Wire

Terminal No.

DOOR AJAR (ALL)

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Signal Name	_	
Color of Wire	В	
inal No.	12	

Signal Name

Color of Wire

Terminal No.

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GR

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Signal Name	KEY CYLINDER UNLOCK SW	KEY CYLINDER LOCK SW	DOOR SW (AS)	DOOR SW (RR)	KEY SW	IGN SW	CAN-H	CAN-L
Color of Wire	\	SB	0	GR	BR	В	٦	Ь
Terminal No.	2	8	12	13	28	38	68	40

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

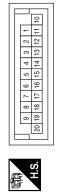


Connector Name | JOINT CONNECTOR-M04

M14

Connector No.

Connector Color BLUE

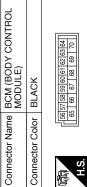


6 5 4 3 2	20 19 18 17 16 15 14 13 12		Signal	1	ı
9 8 7	20 19 18 17		Color of Wire	æ	Ж
Ti T	H.S.]	Terminal No.	9	6

Name





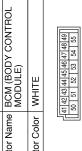




Connector No.

M19

Connector No.



Connector Na	Connector Col	

Signal Name	ı	I	
Color of Wire	BR	>	
Terminal No.	1	2	

Signal Name	BATTERY SAVER OUTPUT	BATTERY (FUSE)	STEP LAMP OUTPUT	ROOM LAMP OUTPUT	GND	BATTERY (F/L)
Color of Wire	SB	ГG	W	7	В	В
Terminal No.	56	57	62	63	29	70

Ф	ОВ	OR V	R)	VR)
Signal Name	CENTRAL DOOR LOCK SW	CENTRAL DOOR UNLOCK SW	DOOR SW (DR)	DOOR SW (SLIDE, BK LWR)
Color of Wire	GR	В	SB	0
Terminal No.	45	46	47	48

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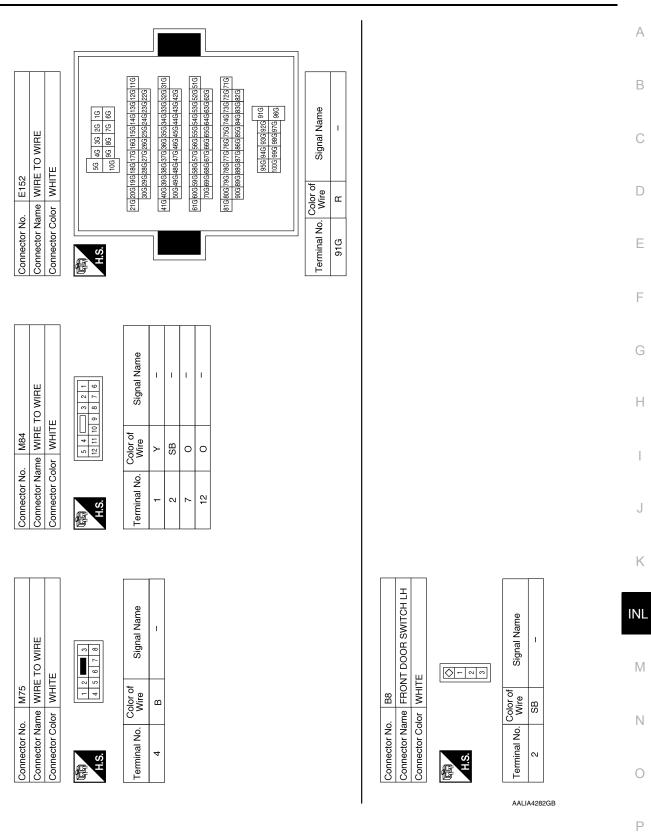
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Signal Name	ı	ı	ı	ı	1	1	ı						WIRE		11 2 B	Signal Name	-	1	ı	ı
Color of Wire	SB		В	GR	0	>	SB					M74		olor WHITE	1	Color of Wire	GR	W	SB	ш
Terminal No.	18J	28J	29J	59J	F09	C69	70N					Connector No.	Connector Name	Connector Color	崎 H.S.	Terminal No.	9	10	=	12
		7]									
TO WIRE		1		1,1 2,1 3,1 4,1 5,1	7.		11.0 12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0 21.0	31.3 (22.) (32.) (34.) (25.) (26.) (27.) (28.) (39.) (30.) (31.) (32.) (33.) (34.) (35.) (36.) (37.) (38.) (39.) (41.) (42.) (43.) (44.) (45.) (46.) (47.) (48.) (49.) (47.) (48.) (49.) (47.) (82.) 83.) 84.) 85.) 86.) 87.) 88.) 89.) 90.)	91.1 92.1 93.1 94.1 95.1 96.1 97.1 98.1 99.1 100.0			WIRE TO WIRE	ш	3 2 1	Signal Name	ı			
Connector No. M32 Connector Name WIRE TO WIRE	r Color WHITE	_					11.0 12.0 13.0	311 222 233 311 321 333 511 521 533 511 521 633 711 721 721 721	82.183.1			or No		or Color WHITE	5 4 1 1 1 1 1	No. Color of Wire	SB			
Connector No.	Connector Color			S I								Connector No.	Connector Name	Connector Color	原 H.S.	Terminal No.	2			
	T	7	Γ				<u></u>		<u> </u>											
E TO WIBE				16 26 36 46 56	76 86		11G12G13G14G15G16G17G18G19G20G21G	1310 1320	82G83G84G85G86G87G88G89G90G	91G 92G 93G 94G 95G 96G 97G 98G 99G 100G	Signal Name		FUSE BLOCK (J/B)	TE	30	Signal Name	-	ı		
Connector No. M31 Connector Name WIRE TO WIRE	Color WHITE	_					11612613	31G 22G 22G 22G 22G 22G 22G 22G 22G 22G 2	82688		Color of Wire	6EM ON .		Color WHITE	308	do. Color of Wire	В	>		
Connector No.	Connector Color			S I							Terminal No.	Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	1Q	4Ω		

< WIRING DIAGRAM >



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18.1 SB	Connector No. B20	B20 WIBE TO WIBE	Terminal No.	Color of Wire	Signal Name	Connector No.	r No.	B23	B23
Salut Salu		O WILL	181	SB	ı	Connecto	r Color		CAIMIL
Second S	\neg		28J	_	ı		5		
Note 1 1 1 1 1 1 1 1 1			29.1	В	ı				76
Terminal No. Color of Terminal No. Terminal No. Color of Terminal No.		2	69	GR	1	O T		1 2	(8)
Second S		8 8	F09	0	ı	2]
Section Signal Name Sign		-	ſ69	>	ı				
1 SB	30, 29, 2		707	SB	ı	Terminal		lor of Vire	Signal Name
Second S						_	"	SB SB	1
State Stat	5014914	8.0 37.0 36.0 35.0 34.0 33.0 32.0 31.0				2			I
10 36 36		27-				ю		В	I
Lonnector No. B28 base Connector No. B49 base Inc WHITE Connector Name WIRE TO WIRE Connector Name WIRE TO WIRE Connector Name WIRE TO WIRE Inc WHITE Connector Name WIRE TO WIRE Connector Name WIRE TO WIRE Connector Name WIRE TO WIRE Inc Signal Name Inc Signal Name Inc Signal Name Inc Signal Name O - 4 O Y - 3 L A B - A B	186	941 930 924 971 961 961 961							
WIRE TO WIRE Connector Name WIRE TO WIRE Connector Name WIRE TO WIRE WHITE Connector Color WHITE Connector Color WHITE 2 3 10 11 12 3 10 11 12 3 10 11 12 3 10 11 12 3 10 11 12 3 10 11 12 3 10 11 12 3 10 11 12 3 10 11 12 3 10 11 12 3 10 11 12 3 10 11 12 3 10 11 12 3 10 11 12 3 10 11 12 3 10 11 12 3 10 11 12 10 11 12 10 11 12 10 11 12 10 11 12 10 11 12 10 11 12 10 11 12 11 12 10 11 12 11 12 12			Connector No			Connecto	r No.	B49	
WHITE Connector Color WHITE Connector Color WHITE 1 2 8 9 10 11 12 1 2 8 9 10 11 12 1 2 8 9 10 11 12 1 2 8 9 10 11 12 1 2 8 9 10 11 12 1 2 8 9 10 11 12 MHITE MHITE MHITE MHITE MHITE 1 2 8 9 10 11 12 MHITE MHITE MHITE MHITE MHITE 1 2 8 0 11 12 MHITE MHITE MHITE MHITE MHITE 1 2 8 0 11 12 MITE MITE MITE MITE MITE 1 2 8 0 11 12 MITE MITE MITE MITE MITE 1 2 8 0 11 12 MITE MITE MITE MITE MITE 1 2 8 0 11 12 MITE MITE MITE MITE MITE MITE 1 3 11 12 MITE MITE </td <td>ector Name WIRE</td> <td></td> <td>Connector Na</td> <td></td> <td>TO WIRE</td> <td>Connecto</td> <td>r Name</td> <td>WIRE</td> <td>O WIRE</td>	ector Name WIRE		Connector Na		TO WIRE	Connecto	r Name	WIRE	O WIRE
Color of Wire Signal Name Terminal No. Wire Color of Y Signal Name Terminal No. Wire Terminal No. Wire Signal Name Terminal No. Wire V - 4 O - 3 L B - 4 B - 4 B	WHIT		Connector Co	or WHIT	Ë	Connecto	r Color	WHITE	
Color of Wire Signal Name Terminal No. Color of Wire Signal Name Terminal No. Color of Wire 0 - 4 0 - 1 SB Y - 12 B - 3 L B - 4 B	2 2	9 11 1	崎 H.S.	7 2	9 10 1	H.S.			
0 - 4 0 - 1 SB Y - 12 B - 3 L B - 4 B	Terminal No. Wire	Signal Name		Color of Wire	Signal Name	Terminal I	% % %>	lor of Vire	Signal Name
Y - 3 L B - 4 B		1	4	0	ı	-	0,	SB SB	I
B 4 B		ı	12	В	ı	ო		_	ı
		1				4		В	ı

< WIRING DIAGRAM >

Connector Na. Bits					Α
Connector Numb B102 Connector Numb Connector Numb		Name	SWITCH	Name -	В
Connector Numb B102 Connector Numb Connector Numb			6 DING DOOR TTE	Signal	С
Connector No. Big Connector Name Big Connector Name Connector	olor WHI				D
Connector No. B69 Connector No. B70 Connector Name WIRE TO WIRE Connector Name WASK DOOR SWITCH Connector Name NAME Connector Name Signal Name S	Connector No Connector No Connector No	Terminal No. 1 2 2 7 7 12	Connector N. Connector Con	Terminal No.	Е
Connector No. B69 Connector No. B69 Connector No.					F
Connector No. B69 Connector No. B69 Connector No.	ИТСН	Vame	SWITCH RH	Aame	G
Connector No. B69 Connector No. B69 Connector No.	O CK DOOR SV		ONT DOOR (Н
Connector No. B69 Connector Name WHE TO WHE Connector Color WHITE Connector No. Wire Signal Name Switch Connector No. B102 Connector No. B102 Connector No. Wire Switch Signal Name 1 SB	Vo. B7	Color o Wire GR			I
Connector No. B69 Connector Name WIRE TO WIRE Connector Name WIRE TO WIRE Connector Color WHITE Signal Name Switch S	Connector N Connector C Connector C	Terminal No.	Connector Connec	Terminal Nc	J
Connector No. Connector No. Connector No. Connector No. Connector Color Terminal No. Connector Color Terminal No. A A A A A A A A A A A A A					K
Connector No. Connector No. Connector No. Connector No. Connector Color Terminal No. Connector Color Terminal No. A A A A A A A A A A A A A	O WIRE	Signal Name	S DOOR CONTACT	Signal Name	
	B69 WHITE TWHITE 1 2 3 ■ 6 7 8 8 9	Vire SB		Wire SB SB A Y Y BB	1 4 1
	tor No.		tor No. tor Color		Ν
AAI IA4284GR	Connec Connec Connec H.S.	Termin 2	Connec Connec Connec H.S.	Temin 1 1 8 8 8 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9	0
P				AALIA4284GB	D

33	Connector Name PERSONAL LAMP 3RD ROW	нте	2 3	Signal Name	1	ı	ı
B403	ne PE	or WF	년	Solor of Wire	SB	В	٦
Connector No.	Connector Nar	Connector Color WHITE	H.S.	Terminal No. Wire	-	2	3
	MC						
B402	Connector Name PERSONAL LAMP 2ND ROW	/HITE	123	of Signal Name	ı	ı	ı
	ame P	N N		Color	SB	В	٦
Connector No.	Connector Na	Connector Color WHITE	H.S.	Terminal No. Wire	-	2	3
	E TO WIRE	TE	3 2 1	Signal Name	1	ı	ı
B40.	e WIR	ır WHI	4	color of Wire	SB	_	В
Connector No. B401	Connector Name WIRE TO WIRE	Connector Color WHITE	所.S.	Terminal No. Wire	-	8	4

Signal Name

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< WIRING DIAGRAM >

2	IRE TO WIRE		5 4	of Signal Name	ı	-					
Connector No. D2	Connector Name WIRE TO WIRE		E 12 12 12 12 12 12 12 12 12 12 12 12 12	Terminal No. Wire	12 B	-					
	TO WIRE		4 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Signal Name	1	1	ı	ı	ı	1	ı
). D1	Ime WIRE) 	12 6 5 1 1 2 1 1 2	Color of Wire	>	В	>-	SB	SB	œ	GR
Connector No.	Connector Name WIRE TO WIRE		明.S.	Terminal No.	3	4	5	9	6	11	12
					1		-	1			
	NT ROOM/MAP LAMP EMBLY		[Z]	Signal Name	1	I	ı				
. R25	me FROI ASSE	lor WHI		Color of Wire	SB	В	_				
Connector No.	Connector Name FRONT ROOM/	Connector Color WHITE	南 H.S.	Terminal No.	-	2	က				

Connector No.). D14	
Connector Name		FRONT DOOR LOCK ASSEMBLY LH
Connector Color GRAY	lor GR/	. At
赋 H.S.	1	3 9 4 6 2 0
Terminal No.	Color of Wire	Signal Name
4	В	1
5	Υ	I
9	SB	I

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Connector No.	. D7	
Connector Na	me AND	Connector Name AND DOOR LOCK/UNLOCK SWITCH
Connector Color	lor WHITE	TE
南 H.S.	8 9 10	10 11 12 13 14 15 16
Terminal No.	Color of Wire	Signal Name
2	GR	LOCK
9	ж	UNLOCK
10	В	GND

(j	Color of Wire	Color of Wire SB	Connector Name		
		Color of Wire SB	H.S.	11	- 2

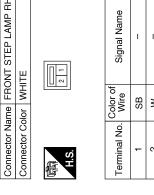
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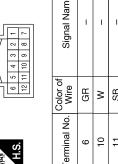
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2 1	Signal Name	_	_
	Color of Wire	SB	>
, ió	inal No.	1	2



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	>		
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05	<u> </u>	∖	6 5 4 3 10 9
D102	⋛	⋝	9 2
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S.



Signal N	_	ı	ı	
Color of Wire	GR	8	SB	а
Terminal No.	9	10	11	10

Connector Name WIRE TO WIRE	or WHI	E TO WIRE
S.H	8 3	8 5 4 1
Terminal No.	Color of Wire	Signal Name
4	В	1

7	Connector Name BACK DOOR SWITCH LOWER LH	CK		Signal Name	I
D407	ne BAC LOV	or BLA		Color of Wire	0
Connector No.	Connector Nar	Connector Color BLACK	H.S.	Terminal No.	-

D303	nector Name SLIDING DOOR LOCK ASSEMBLY	or GRAY	1 2 3 4 5 6
nector No.	nector Nam	nector Color GRAY	, vi

Connector Name SLIDING DOOR LOCK ASSEMBLY	٩٧	3 4 5 6	Signal Name	ı	-	I
me SLII	lor GRAY	-	Color of Wire	BR	В	_
Connector Na	Connector Color	H.S.	Terminal No.	2	3	4

POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH	ПЕ	8 9 10 11 12	Signal Name	-	-	-
	or WH	1 2 2 9	Color of Wire	GR	В	В
Connector Name	Connector Color WHITE	H.S.	Terminal No.	-	2	က

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INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

Connector No. D607 Connector Name BACK Connector Color BLACK H.S. Terminal No. Wire 1 0 2 B	Connector No. D412 Connector No. D607 Connector Name WIRE TO WIRE Connector Name BACK Connector Color WHITE Connector Color BLOWE Connector Color BLOWE BLOWE Terminal No. Color of Wire Signal Name Terminal No. Wire 4 O - 1 O 12 B 2 B B		LOWER RH ASSEMBLY	Connector Color GRAY	H.S. (1 2 3 4 5 6	Signal Name Terminal No. Wire Signal Name		- 3 B	S
		Connector No. D607 Connector Name BACK	LOWE	Connector Color BLACK	H.S.	Terminal No. Wire	0		

0	WIRE TO WIRE	ΠE	11 10 9 8 7 6	Signal Name	1	-	-	_
. D610	me WIF	lor WHITE	12 11	Color of Wire	0	Υ	В	SB
Connector No.	Connector Name	Connector Color	响 H.S.	Color of Wire	4	9	10	12

Signal Name	1	I	ı	ı
Color of Wire	0	>	В	SB
Terminal No.	4	5	10	12

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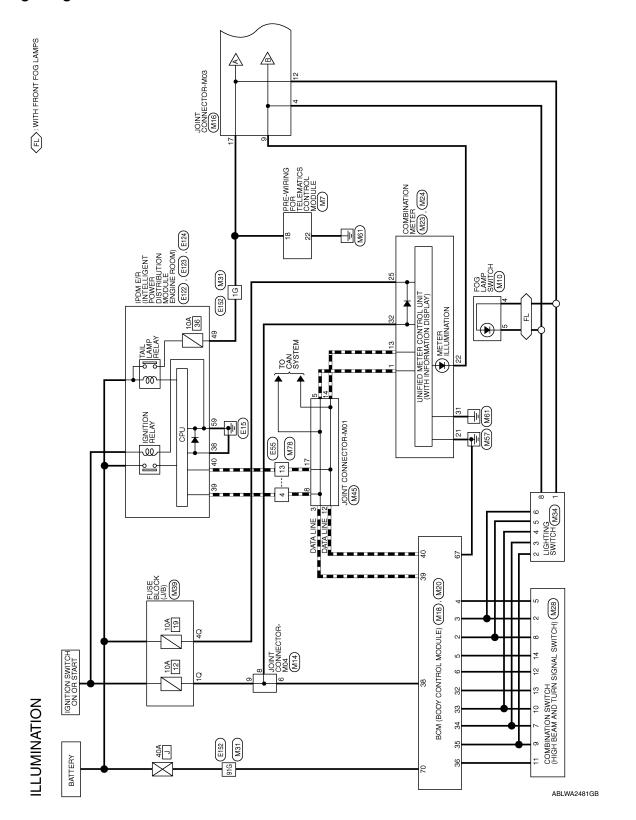
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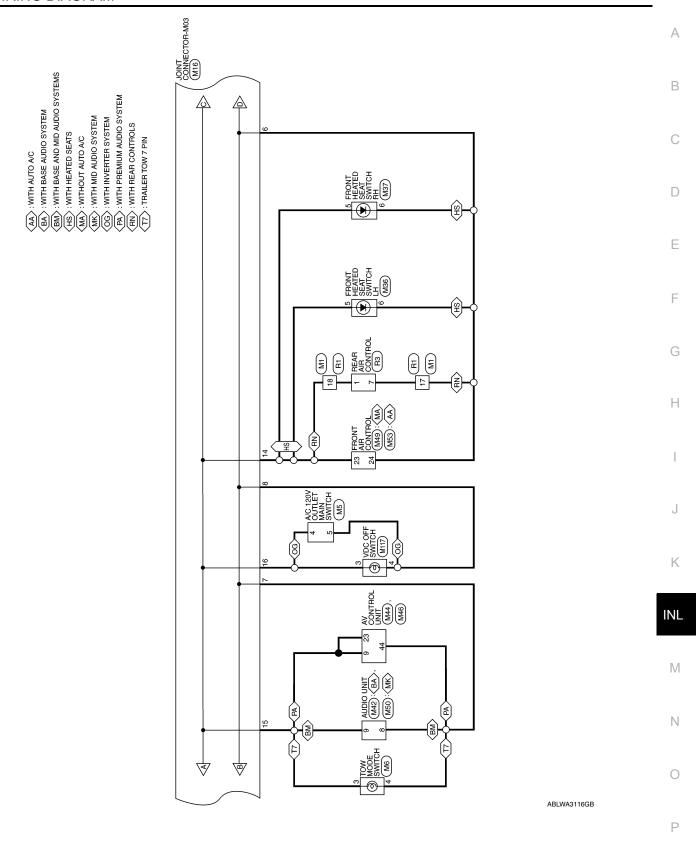
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INL-37 2016 NV NAM Revision: August 2015

ILLUMINATION

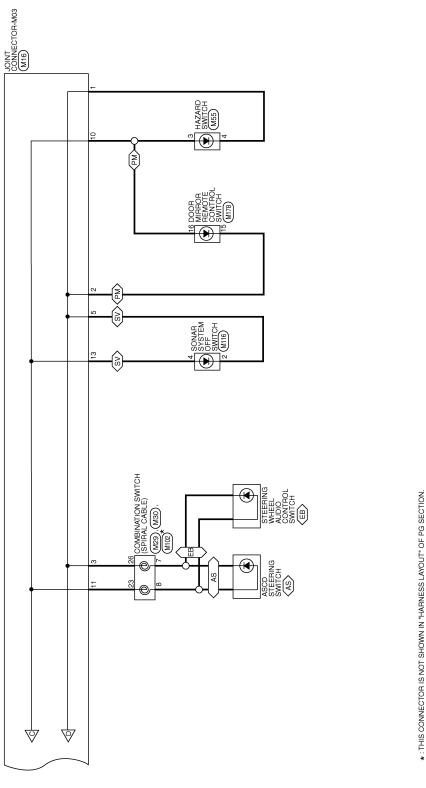
Wiring Diagram





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ILLUMINATION CONNECTORS

WHILE	Connector Color WHITE		
LH	20,000,000	J	
SWIICH		IL WHITE	Connector Color WHITE
Connector Name A/C 120V OUTLE	Connector Name	Connector Name WIRE TO WIRE	Connector Name
M5	Connector No. M5	M1	Connector No. M1

	Connector Name TOW MODE SWITCH	À		4 8 2 1	Signal Name	1	-
. M6	me TOV	lor GR/			Color of Wire	>	BR
Connector No. M6	Connector Na	Connector Color GRAY		喃 H.S.	Terminal No. Wire	ဇ	4
			_				
	Connector Name A/C 120V OUTLET MAIN	H3	ITE	10 5 4 3 2 1	Signal Name	ILL CONT SW (+)	ILL CONT SW (-)
. M5	me A/C	δ N	or WH	12 11 7 6	Color of Wire	>	BR
Connector No. M5	Connector Na		Connector Color WHITE	原 H.S.	Terminal No. Wire	4	5
				[8] [8]			
	E TO WIRE	里		6 7 8 9 10 11 12 13 14 15 16 16 12 12 12 23 24 25 26 27 28 29 30 31 32	Signal Name	ı	ı
M	ne WIRE	or WHI		2 3 4 5 18 19 20 21	Color of Wire	BR	>
Connector No. M1	Connector Name WIRE TO WIRE	Connector Color WHITE		H.S.	Terminal No. Wire	17	18

Sonnector No. M14
Connector Name JOINT CONNECTOR-M04
Connector Color BLUE
¥ ¥

. M14	Connector Name JOINT CONNECTOR-M04	lor BLUE		20 19 18 17 16 15 14 13 12 11 10		Color of Signal Name		
Connector No. M14	Connector Na	Connector Color BLUE	á	H.S.		Terminal No. Wire	9	8
					Г			
	Connector Name FOG LAMP SWITCH	ITE				Signal Name	I	-
). M1(ıme FO	lor WH	[4 2		Color of Wire	>	BR
Connector No. M10	Connector Na	Connector Color WHITE	é	国内 H.S.		Terminal No. Wire	4	2
				1				
	PRE-WIRING FOR	Connector Name IELEMATICS CONTRUC MODULE	ITE	5 6 7 8 9 10 111 12		Signal Name	+ 171	GNUOHD
. M7	H.	me MOI	lor WH	2 3 4 4 15 16		Color of Wire	^	В
Connector No.		Connector Na	Connector Color WHI	H.S.		Terminal No. Wire	18	22

I	_	I
œ	Я	В
9	8	6
1	_	
>	BR	
4	2	

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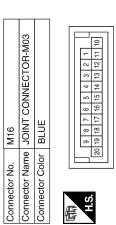
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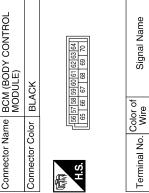
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Signal Name	I	-	_	_	-	ı	-	ı
Color of Wire	>	^	^	^	^	^	^	^
Terminal No. Wire	10	11	12	13	14	15	16	17

Signal Name	-	-	_	_	ı	ı	-	_	1
Color of Wire	BR								
Terminal No. Wire	ļ	2	ε	4	5	9	2	8	6







BATTERY (F/L)

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GND

Signal Name	INPUT 5	INPUT 4	INPUT 3	INPUT 2	INPUT 1	OUTPUT 5	OUTPUT 4	OUTPUT 3	OUTPUT 2	OUTPUT 1	IGN SW	CAN-H	CAN-L
Color of Wire	٦	Ъ	ГG	0	В	SB	9	\	BR	\	æ	_	۵
Terminal No.	2	3	4	2	9	32	33	34	35	36	38	39	40

\cup	Ņ	Ĕ	ect	ō	Connector No.		=	M18	ω											
<u> </u>	١Ō	۱Ĕ	to	ō	Connector Name BCM (BODY CONTROL MODULE)	ΙĔ	0	BCM (BOE MODULE)	ΣĒ	l@3		≿	18	ΙŻ	۱Ě	ᅵᅥ	l .			
	١ō	ΙĔ	당	ō	Connector Color	<u>ē</u>		WHITE	₩	ш										
	停工	H.S.	16							I IN	l IV	l 17							,	
_	-	2	3 4		5	9	7	∞	6	10	9 10 11 12 13 14 15 16 17 18 19 20	12	13	14	15	16	17	18	19	20
_	2	22	23	21 22 23 24	25	25 26 27 28 29 30 31 32 33 34 35 36 37 38 39	27	28	29	98	33	32	33	8	35	38	37	æ	39	40

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	ON SWITCH		
M28	Connector Name COMBINATION SWITCH	WHITE	
Connector No.	or Name (Connector Color WHITE	
Connect	Connect	Connect	

01 01 12 13 14 6	Signal Name	ı	-	1	1	I	-	ı	ı	-	1
2/ 8/ 0/ 0/	Color of Wire	Ь	ГG	\	٦	BR	G	Y	В	SB	0
H.S.	Terminal No.	2	9	2	8	6	10	11	12	13	14

Connector No.		M24	7								
Connector Name COMBINATION METER	r Name	8	∣⋛	<u></u>	l≨	ΙĔ	l	≥	<u>ш</u>	曲	
Connector Color WHITE	r Color	>	∖	쁜							
				Ш	- 11	IV	- 117				
	12 11	9	10 9	∞	~	9	5	4	6	2	-
6	24 23 22 21 20 19 18 17 16 15 14 13	22	21	20	19	18	17	16	15	4	5

	Signal Name	CAN-H	CAN-L	GND (ILL)	ILLUMINATION CONTROL
	Color of Wire	Γ	Ъ	В	BR
<u>'</u>	Terminal No.	1	13	21	22

Connector Name COMBI Connector Color WHITE	Connector No. M23 Connector Name COMBINATION METER Connector Color WHITE
H.S.	30 29 28 27 26 25 36 35 34 33 32 31

Signal Name	BATTERY	GND (POWER)	RUN START
Color of Wire	У	В	В
Terminal No.	25	31	32

Connector No.). M30	
Connector Name		COMBINATION SWITCH (SPIRAL CABLE)
Connector Color	olor GRAY	٩٧
用.S.	31	24 82 88 27
Terminal No.	Color of Wire	Signal Name
96	AA	ı

MBINATION SWITCH	(SPIRAL CABLE) YELLOW	21 22 23 23 23 23 23 23 23 23 23 23 23 23	Signal Name	ı
			Color of Wire	>
Connector No.	Connector Color	明 H.S.	Terminal No.	23

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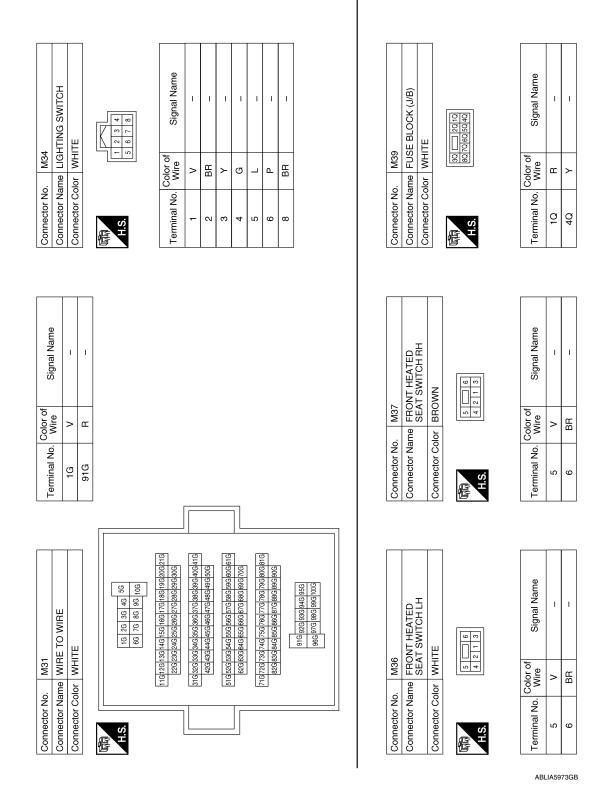
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	Connector Name JOINT CONNECTOR-M01		6 5 4 3 2 1 16 15 14 13 12 11 10		Signal Name	1	1	1	ı	ı	1	
M45	ne JOINT		9 8 7 20 19 18 17		Color of Wire	7	7	٦	۵	۵	۵	
Connector No.	Connector Name		H.S.		Terminal No.	ဇ	2	8	12	41	17	
	Connector Name AV CONTROL UNIT (WITH PREMIUM AUDIO SYSTEM)		8 1	12 13 14 15 16 17 18 25	Signal Name	ILL (+), LIGHT SW	(-)					
M44	Ime AV C	lor WHIT	21,	1	Color of Wire	^	BR					
Connector No.	Connector Na	Connector Color WHITE	E H.S.		Terminal No.	6	44					
	Connector Name AUDIO UNIT (WITH BASE AUDIO SYSTEM)	TE	4 5 6 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	13 16 17 18	Signal Name	(-)	ILL (+), LIGHT SW					
). M42	ame AUD AUD	olor WHI	2 ; C ;	71 01	Color of Wire	BB	>					
Connector No.	Connector Na	Connector Color WHITE	H.S.	<u>-</u> 1	Terminal No.	8	o					

	IT (WITH MID STEM)		15 16 17 18 20	Signal Name	ILL (-)	ILL (+), LIGHT SW
M50	AUDIO UNI AUDIO SYS	r WHITE	10 1 2 3 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		BR	٨
Connector No.	Connector Name AUDIO UNIT (WITH MID AUDIO SYSTEM)	Connector Color WHITE	H.S.	Terminal No. Wire	8	6
6	Connector Name (WITHOUT AUTO A/C)	ІТЕ	4 5 6 7 8 9 10 11 12 12 23 24 14 15 19 20 21 22 23 24	Signal Name	ILL +	- ILL
No. M49	Vame FR	Solor WH	13 14 15	Color of Wire	>	BB
Connector No.	Connector N	Connector Color WHITE	南 H.S.	Terminal No. Wire	23	24
			ſ			
	Connector Name AV CONTROL UNIT (WITH PREMIUM AUDIO SYSTEM)	TE	29 28 27 28 25 24 29 22 21 41 40 39 38 37 38 35 34 33	Signal Name	MR OUTPUT	
o. M46	ame AV (olor WHI	22 31 30 29 28 27 28 44 43 42 41 40 39 38	Color of Wire	>	
Connector No.	Connector Na	Connector Color WHITE	H.S.	Terminal No. Wire	23	

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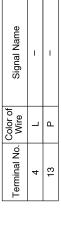
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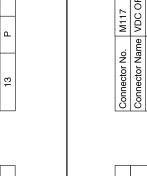
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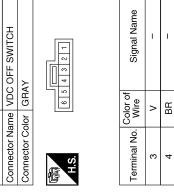
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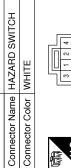


7 6 5 4 7 3 2 1 1 16 15 14 13 12 11 10 9 8	Signal Name	I	
7 6 5 14 15 14	Color of Wire	٦	
原 H.S.	Terminal No.	4	











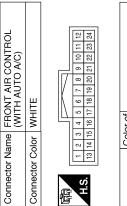
Connector No.	M116
Connector Name	Connector Name SONAR SYSTEM OI SWITCH
Connector Color WHITE	WHITE





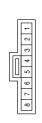
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Connector No.



Signal Name	ILL+	ILL-	
Color of Wire	>	BR	
Terminal No.	23	24	

M102	Connector Name COMBINATION SWITCH (SPIRAL CABLE)	3RAY SRAY	
Connector No.	Connector Name	Connector Color GRAY	

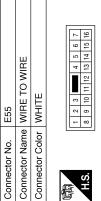




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No. E122 IPDM E/R (INTELLIGENT Name POWER DISTRIBUTION MODULE ENGINE ROOM) Solor WHITE	Connector No. E122 Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM Connector Color WHITE		LIGENT SUTION E ROOM)	
Vo. Name Color	Connector No. Connector Name Connector Color	E122	IPDM E/R (INTEL POWER DISTRIE MODULE ENGIN	WHITE
Connector I Connector I		Connector No.	Connector Name	Connector Color

42 41 40 39 88 37 48 47 46 45 44 43	Signal Name	GND (SIGNAL)	CAN-H	CAN-L
42 41	Color of Wire	В	٦	Ь
(中旬) H.S.	Terminal No.	38	39	40



Connector Name DOOR MIRROR REMOTE CONTROL SWITCH

M178

Connector No.

WHITE

Connector Color

Signal Name	1	ı	
Color of Wire	٦	۵	
Terminal No.	4	13	

Signal Name	1	ı	
Color of Wire	BR	^	
Terminal No.	15	16	

Connector No.	E124
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color BLACK	BLACK
4	

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROON	CK	19 (50 kg 22	Signal Name	GND (POWER)
	or BLACK	65 59	Color of Wire	В
Connector Name	Connector Color	原 H.S.	Terminal No.	69
			r=	

Connector No.	. E123	3
Connector Name		IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	lor BROWN	NWO
咏 H.S.	51 55 56 55 54	50 48
Terminal No.	Color of Wire	Signal Name
49	^	ILLUMINATION

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Connector No. Connector Name Connector Color	-	E152 WIRE TO WIRE		Connector No. R1 Connector Name WIRE TO WIRE Connector Color WHITE	o. R1 ame WIRE olor WHIT	E TO WIRE		Connector No. Connector Name	-	R3 REAR AIR CONTROL WHITE	
H.S.				H.S.	16 15 14 13 12 11 10 32 31 30 29 28 27 26	9 8 7 6 5 4 3 22 21 20 19 8 1 4 8 19 8 1 4 8 19 8 1 5 8 19 8 19 8 19 8 19 8 19 8 1	18 1 1	是 H.S.	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 1 1 2 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	
	21620	216206196186176186156146136126116 306296286226286286286286286286 41640639863863769868585894638363826316		Terminal No.	Color of Wire	Signal Name		Terminal No.	Color of Wire	Signal Name	
	200	50G 49G 48G 47G 46G 45G 44G 43G 42G		18	<u> </u>	1 1			> HB	1 1	<u> </u>
	616601										1
	81680	81 G 800G 179G 176G 176G 176G 174G 73G 12G 171G 900G 890G 880G 87 G 86G 85G 84G 83G 82G									
		95G 94G 93G 92G 91G 100G 99G 99G 97G 96G									
			_								
Terminal No.	Color of Wire	of Signal Name									
1G	>	ı									
916	<u>ac</u>	ı									

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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

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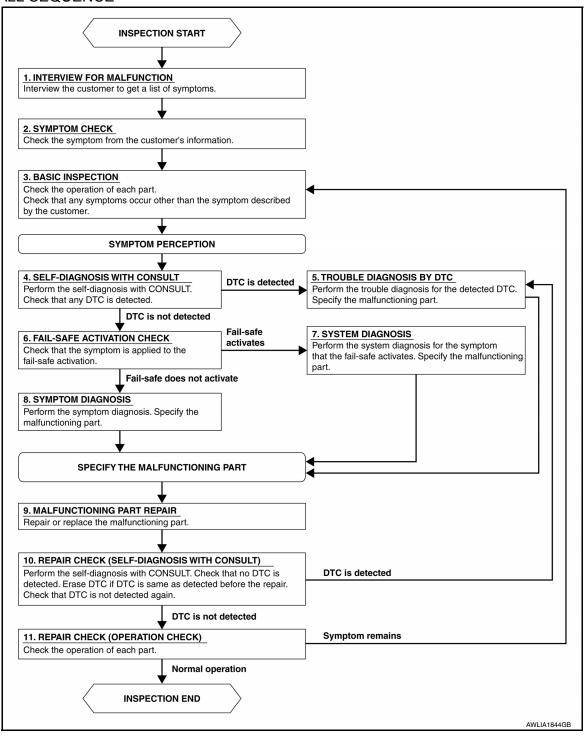
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OVERALL SEQUENCE



DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

DETAILED FLOW

1.INTERVIEW FOR MALFUNCTION

Find out what the customer's concerns are.

>> GO TO 2.

2.SYMPTOM CHECK

Verify the symptom from the customer's information.

>> GO TO 3.

3.BASIC INSPECTION

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

>> GO TO 4.

4. SELF-DIAGNOSIS WITH CONSULT

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

Is any DTC detected?

YES >> GO TO 5.

NO >> GO TO 6.

5. TROUBLE DIAGNOSIS BY DTC

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

>> GO TO 9.

6. FAIL-SAFE ACTIVATION CHECK

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

Does the fail-safe activate?

YES >> GO TO 7.

NO >> GO TO 8.

7. SYSTEM DIAGNOSIS

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

>> GO TO 9.

8. SYMPTOM DIAGNOSIS

Perform the symptom diagnosis, refer to INL-61, "Symptom Table". 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.

Is any DTC detected?

YES >> GO TO 5.

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

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.

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000012797954

Regarding Wiring Diagram information, refer to BCS-41, "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	Battery power supply	22 (10A)
70	Battery power suppry	J (40A)
11	Ignition ACC or ON	9 (10A)
38	Ignition ON or START	12 (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

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

	Terminals			Ignition switch position	nn
(-	+)			igilition switch positic)
ВС	CM	(–)	OFF	ACC	ON
Connector	Terminal		OH	7.00	
M20	70		Battery voltage	Battery voltage	Battery voltage
IVIZO	57	Ground	Battery voltage	Battery voltage	Battery voltage
M18	11	Ground	Approx. 0 V	Battery voltage	Battery voltage
W110	38		Approx. 0 V	Approx. 0 V	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.

В	CM		Continuity
Connector Terminal		Ground	Continuity
M20	67		Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair harness or connector.

BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

Description INFOID:0000000012519766

Provides the battery saver output/power supply. Also cuts the power supply when the interior room lamp battery saver is activated.

Diagnosis Procedure

INFOID:0000000012519767

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CARGO VAN

Regarding Wiring Diagram information, refer to INL-15, "Wiring Diagram - Cargo Van".

1. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

Turn ignition switch ON.

Check voltage between BCM harness connector M20 terminal 56 and ground. 2.

(+)		()	Voltage (V) (Approx.)	
Connector	Terminal (-)			
M20	56	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 2

NO >> Replace BCM after making sure battery saver output/power supply circuit is not shorted to ground. Refer to BCS-62, "Removal and Installation".

2.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OPEN CIRCUIT

Turn ignition switch OFF.

- Disconnect the following harness connectors.
- BCM M20
- Front room/map lamp assembly R25
- Front cargo lamp R26 (if equipped)
- Center cargo lamp R27 (if equipped)
- Rear cargo lamp R28
- Check continuity between BCM harness connector M20 terminal 56 and each interior room lamp harness connector terminal 1.

BCM	BCM Each interior room lamp				Continuity
Connector	Terminal	Connector Terminal			Continuity
		Front room/map lamp assembly	R25	1	Yes
M20 56		Front cargo lamp	R26	1	
		Center cargo lamp	R27	1	
		Rear cargo lamp	R28	1	

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair the harness or connectors.

${f 3}.$ CHECK BATTERY SAVER OUTPUT/POWER SUPPLY SHORT CIRCUIT

Check continuity between BCM harness connector M20 terminal 56 and ground.

Connector	Terminal	_	Continuity
M20	56	Ground	No

Is the inspection result normal?

>> Check that each interior room lamp has no internal short circuit.

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BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair the harness or connectors.

PASSENGER VAN

Regarding Wiring Diagram information, refer to INL-25, "Wiring Diagram - Passenger Van".

1. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

- 1. Turn ignition switch ON.
- 2. Check voltage between BCM harness connector M20 terminal 56 and ground.

(+)		(-)	Voltage (V) (Approx.)	
Connector	Terminal	(-)	voltage (v) (Approx.)	
M20	56	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 2

NO >> Replace BCM after making sure battery saver output/power supply circuit is not shorted to ground. Refer to <u>BCS-62</u>, "Removal and Installation".

2.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OPEN CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect the following harness connectors.
- BCM M20
- Front room/map lamp assembly R25
- Cargo lamp B23
- Personal lamp 2nd row B402 (if equipped)
- Personal lamp 3rd row B403 (if equipped)
- Personal lamp 4th row B404 (if equipped)
- Front step lamp LH D3 (if equipped)
- Front step lamp RH D103 (if equipped)
- 3. Check continuity between BCM harness connector M20 terminal 56 and each interior room lamp harness connector terminal 1.

BCI	M	Each interior room lamp			Continuity
Connector	Terminal	Connector	Terminal	Continuity	
		Front room/map lamp assembly	R25	1	
	M20 56	Cargo lamp	B23	1	
		Personal lamp 2nd row	B402	1	
M20		Personal lamp 3rd row	B403	1	Yes
		Personal lamp 4th row	B404	1	
		Step lamp LH	D3	1	
		Step lamp RH	D103	1	

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair the harness or connectors.

3. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY SHORT CIRCUIT

Check continuity between BCM harness connector M20 terminal 56 and ground.

Connector	Terminal	_	Continuity
M20	56	Ground	No

Is the inspection result normal?

BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

YES	>> Check that each interior room lamp has no internal short circuit.
NO	>> Penair the harness or connectors

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< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL CIRCUIT CARGO VAN

CARGO VAN: Description

INFOID:0000000012519768

Controls the following interior room lamps (ground side) by PWM signal.

- · Front room/map lamp assembly
- Front and center cargo lamp (if equipped)
- Rear cargo lamp

NOTE:

PWM signal control period is approximately 250 Hz (in the gradual brightening/dimming).

CARGO VAN: Component Function Check

INFOID:0000000012519769

CAUTION:

Before performing the diagnosis, check that the following is normal.

- · Battery saver output/power supply
- Front room/map lamp bulbs
- Cargo lamp bulbs

$1.\mathsf{check}$ interior room Lamp control function

(P)CONSULT

- 1. Place each room lamp switch into the DOOR position on an individual basis. Test each of the following switches individually.
- Front room/map lamp
- Front cargo lamp (if equipped)
- Center cargo lamp (if equipped)
- Rear cargo lamp
- 2. Turn ignition switch ON.
- Select "INT LAMP" of BCM (INT LAMP) active test item.
- While operating the test item, check that each interior room lamp turns ON/OFF (gradual brightening/dimming).

ON : Interior room lamp gradual brightening
OFF : Interior room lamp gradual dimming

Is the inspection result normal?

YES >> Interior room lamp control circuit is normal.

NO >> Refer to INL-56. "CARGO VAN : Diagnosis Procedure".

CARGO VAN: Diagnosis Procedure

INFOID:0000000012519770

Regarding Wiring Diagram information, refer to INL-15, "Wiring Diagram - Cargo Van".

1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

CONSULT

- Place each room lamp switch into the DOOR position on an individual basis. Test each of the following switches individually.
- Front room/map lamp
- Front cargo lamp (if equipped)
- Center cargo lamp (if equipped)
- Rear cargo lamp
- 2. Turn ignition switch ON.
- 3. Select "INT LAMP" of BCM (INT LAMP) active test item.
- 4. While operating the test item, check voltage between BCM connector M20 terminal 63 and ground.

< DTC/CIRCUIT DIAGNOSIS >

(+)		(-) INT LAMP		Voltage	
Connector	Terminal	(-)	INT LAWIF	Voltage	
M20	63	Ground	ON	0V	
IVIZU	03	Ground	OFF	Battery voltage	

Is the inspection result normal?

>> Interior room lamp control circuit is operating normally.

Fixed ON>> GO TO 3

Fixed OFF>> GO TO 2

2.CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM harness connector M20 and interior room lamp harness connector in question.
- Check continuity between BCM harness connector M20 terminal 63 and interior room harness connector terminal in question.

BC	М	Interior room lamp		Continuity	
Connector	Terminal	Component Connector Terr		Terminal	Continuity
		Front room/map lamp	R25	3	Yes
M20	63	Front cargo lamp	R26	2	
IVIZU	03	Center cargo lamp	R27	2	
		Rear cargo lamp	R28	2	

Is the inspection result normal?

YES >> Check interior room lamps for an open. If NG, replace lamp in question. Refer to INL-62, "Removal and Installation", INL-68, "Removal and Installation - Front, Center or Rear". If OK, replace BCM. Refer to BCS-62, "Removal and Installation".

NO >> Repair the harness or connectors.

3.check interior room Lamp control short circuit

- Turn ignition switch OFF.
- 2. Disconnect BCM harness connector M20.
- Check continuity between BCM harness connector M20 terminal 63 and ground.

Connector	Terminal	_	Continuity
M20	63	Ground	No

Is the inspection result normal?

>> Check interior room lamps for a short circuit. If NG, replace lamp in question. Refer to INL-62 YES "Removal and Installation", INL-68, "Removal and Installation - Front, Center or Rear". If OK, replace BCM. Refer to BCS-62, "Removal and Installation".

NO >> Repair the harness or connectors.

PASSENGER VAN

PASSENGER VAN: Description

Controls the following interior room lamps (ground side) by PWM signal.

- · Front room/map lamp assembly
- · Cargo lamp
- Personal lamp 2nd, 3rd, and 4th row (if equipped)

PWM signal control period is approximately 250 Hz (in the gradual brightening/dimming).

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< DTC/CIRCUIT DIAGNOSIS >

PASSENGER VAN: Component Function Check

INFOID:0000000012519772

INFOID:0000000012519773

CAUTION:

Before performing the diagnosis, check that the following is normal.

- Battery saver output/power supply
- Front room/map lamp bulbs
- · Cargo lamp bulbs
- Personal lamp bulbs
- ${\sf 1.}$ CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

(P)CONSULT

- Place each room lamp switch into the DOOR position on an individual basis. Test each of the following switches individually.
- Front room/map lamp
- Cargo lamp
- Personal lamp 2nd row (if equipped)
- Personal lamp 3rd row (if equipped)
- Personal lamp 4th row (if equipped)
- 2. Turn ignition switch ON.
- Select "INT LAMP" of BCM (INT LAMP) active test item.
- 4. While operating the test item, check that each interior room lamp turns ON/OFF (gradual brightening/dimming).

ON : Interior room lamp gradual brightening
OFF : Interior room lamp gradual dimming

Is the inspection result normal?

YES >> Interior room lamp control circuit is normal.

NO >> Refer to INL-58. "PASSENGER VAN : Diagnosis Procedure".

PASSENGER VAN : Diagnosis Procedure

Regarding Wiring Diagram information, refer to INL-25, "Wiring Diagram - Passenger Van".

1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

CONSULT

- Place each interior room lamp switch into the DOOR position on an individual basis. Test each of the following switches individually.
- Front room/map lamp
- Cargo lamp
- Personal lamp 2nd row (if equipped)
- Personal lamp 3rd row (if equipped)
- Personal lamp 4th row (if equipped)
- 2. Turn ignition switch ON.
- 3. Select "INT LAMP" of BCM (INT LAMP) active test item.
- 4. While operating the test item, check voltage between BCM connector M20 terminal 63 and ground.

(+)		(-)	INT LAMP	Voltage	
Connector	Terminal	(-)	IIVI LAWII	voltage	
M20	63	Ground	ON	0V	
			OFF	Battery voltage	

Is the inspection result normal?

YES >> Interior room lamp control circuit is operating normally.

Fixed ON>>GO TO 3

Fixed OFF>>GO TO 2

< DTC/CIRCUIT DIAGNOSIS >

$\overline{2}$.CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector M20 and interior room lamp harness connector in question.
- 3. Check continuity between BCM connector M20 terminal 63 and interior room lamp harness connector in question.

ВСМ		Interior room lamp			Continuity	
Connector	Terminal	Component	Connector	Terminal	Continuity	
M20		Front room/map lamp	R25	3		
	63	Personal lamp 2nd row	B23	3		
		Personal lamp 3rd row	B402	3	Yes	
		Personal lamp 4th row	B403	3	1	
		Cargo lamp	B404	2		

Is the inspection result normal?

- YES >> Check interior room lamps for an open. If NG, replace lamp in question. Refer to INL-62, "Removal and Installation", INL-68, "Removal and Installation Front, Center or Rear" or INL-64, "Removal and Installation". If OK, replace BCM. Refer to BCS-62, "Removal and Installation".
- NO >> Repair the harness or connectors.

3.check interior room Lamp control short circuit

- Turn ignition switch OFF.
- 2. Disconnect BCM harness connector M20.
- Check continuity between BCM harness connector M20 terminal 63 and ground.

Connector	Terminal	_	Continuity
M20	63	Ground	No

Is the inspection result normal?

YES >> Check interior room lamps for a short circuit. If NG, replace lamp in question. Refer to INL-62, "Removal and Installation", INL-68, "Removal and Installation". If OK, replace BCM. Refer to BCS-62, "Removal and Installation".

NO >> Repair the harness or connectors.

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STEP LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

STEP LAMP CIRCUIT

Description INFOID:000000012519774

Controls the front step lamps (if equipped) (ground side) to turn the lamps ON and OFF.

Diagnosis Procedure

INFOID:0000000012519775

Regarding Wiring Diagram information, refer to INL-25, "Wiring Diagram - Passenger Van".

1. CHECK STEP LAMP CONTROL CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Open driver's door.
- 3. Check voltage between BCM harness connector M20 terminal 62 and ground.

NOTE:

Observe interior lamp timer period when performing test.

Connector	Terminal	_	DRIVER DOOR	Voltage
M20	62	Ground	OPEN	0V
IVIZO	02	Ground	CLOSED	Battery voltage

Is the inspection result normal?

YES >> Step lamp control circuit is operating normally.

Fixed ON>> GO TO 3

Fixed OFF>> GO TO 2

2.CHECK STEP LAMP OPEN CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect BCM harness connector M20 and front step lamp harness connector in question.
- 3. Check continuity between BCM harness connector M20 terminal 62 and step lamp harness connector in question.

Connector	Terminal	Connector		Terminal	Continuity
M20 62	62	Front step lamp LH	D3	2	Yes
	Front step lamp RH	D103	2	165	

Is the inspection result normal?

YES >> Check step lamp for an open. If NG, replace step lamp. Refer to INL-66, "Removal and Installation".

NO >> Repair harness or connectors.

3.CHECK STEP LAMP SHORT CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect BCM harness connector M20.
- 3. Check continuity between BCM harness connector M20 terminal 62 and ground.

Connector	Terminal	_	Continuity
M20	62	Ground	No

Is the inspection result normal?

YES >> Check step lamps for a short circuit. If NG, replace step lamp. Refer to INL-66, "Removal and Installation". If OK, replace BCM. Refer to BCS-62, "Removal and Installation".

NO >> Repair the harness or connectors.

INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

CAUTION:

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

Symptom	Possible cause	Inspection item
All of the following lamps do not turn ON. Front room/map lamp assembly Front and center cargo lamp (cargo van, if equipped) Rear cargo lamp (cargo van) Personal lamp 2nd, 3rd and 4th row (passenger van, if equipped) Front step lamp LH/RH (passenger van, if equipped) Cargo lamp (passenger van)	Harness between BCM and each interior room lamp BCM	Battery saver output/power supply circuit Refer to INL-53, "Description".
Some or all of the following interior room lamps do not turn ON/OFF when opening/closing door. • Front room/map lamp assembly • Front and center cargo lamp (cargo van, if equipped) • Rear cargo lamp (cargo van) • Personal lamp 2nd, 3rd and 4th row (passenger van, if equipped)	Harness between BCM and each door switch Harness between BCM and each interior room lamp BCM	Door switch circuit Refer to <u>DLK-50</u> , " <u>Description</u> ". Interior room lamp control circuit Refer to <u>INL-56</u> , " <u>CARGO VAN</u> : <u>Description</u> " or <u>INL-57</u> , " <u>PASSENGER</u> <u>VAN</u> : <u>Description</u> ".
Cargo lamp (passenger van) Front step lamps do not turn ON/OFF when opening/ closing door.	Harness between BCM and each door switch Harness between BCM and each front step lamp BCM	Door switch circuit Refer to DLK-50, "Description". Front step lamp control circuit Refer to INL-60, "Description".
Interior room lamp timer does not activate. (It turns ON/ OFF when the door opens/closes.)	_	Check the interior room lamp setting. Refer to BCS-18, "INT LAMP: CON- SULT Function (BCM - INT LAMP)".
Interior room lamp battery saver does not activate.	_	Check the interior room lamp battery saver setting. Refer to BCS-24, "BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)".

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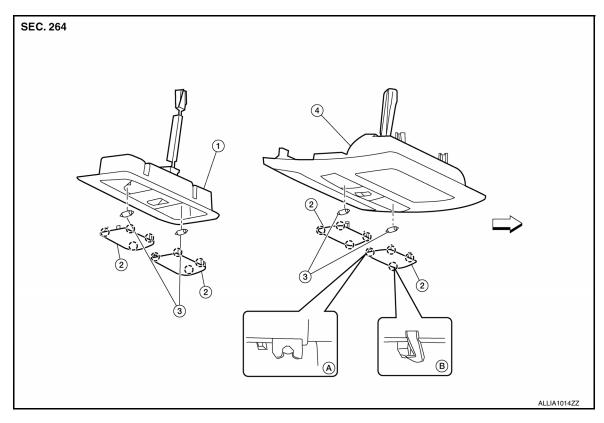
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REMOVAL AND INSTALLATION

FRONT ROOM/MAP LAMP

Exploded View



- Front room/map lamp assembly (high roof models)
 - Front room/map lamp assembly (w/overhead console) (standard roof models)
- ∕ `\ Paw

- 2. Lens
- A. Pawl (primary)
- ⟨
 □ Front

- 3. Bulb
- B. Pawl (secondary)

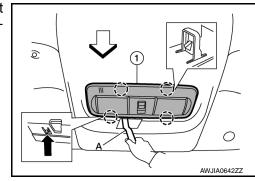
Removal and Installation

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.

- 1. Remove the front room/map lamp assembly.
 - For high roof models, release the pawls beginning at the front edge using a suitable tool (A), disconnect the harness connectors from front room/map lamp assembly (1) and remove.
 - <⊐: Front
 - (): Pawl



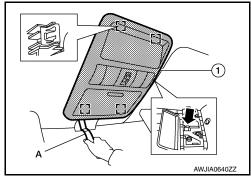
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FRONT ROOM/MAP LAMP

< REMOVAL AND INSTALLATION >

• For standard roof models, release the metal clips beginning at the front edge using a suitable tool (A), disconnect the harness connectors from front room/map lamp assembly (1) and remove.

[]: Metal clip



Bulb Replacement

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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.
- 1. Insert a suitable tool into the gap between the lens and the front room/map lamp assembly at the inside edge to release the pawl (primary).
- 2. Slide the lens aside enough to release the pawl (secondary).
- 3. Remove the front room lamp bulb.
- 4. Install a new front room lamp bulb and securely snap the lens into the front room/map lamp assembly.

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PERSONAL LAMP

< REMOVAL AND INSTALLATION >

PERSONAL LAMP

Removal and Installation

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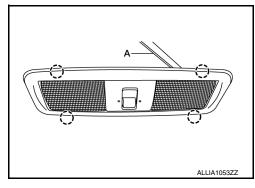
Do not touch bulb with your hand while it is on or right after being turned off. Burning may result. CAUTION:

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.

REMOVAL

 Release the personal lamp pawls and remove the personal lamp from the headlining, using a suitable tool (A).

(): Pawl



- 2. Disconnect the harness connector from personal lamp.
- 3. Remove the personal lamp from the headlining.

INSTALLATION

Installation is in the reverse order of removal.

Bulb Replacement

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WARNING:

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

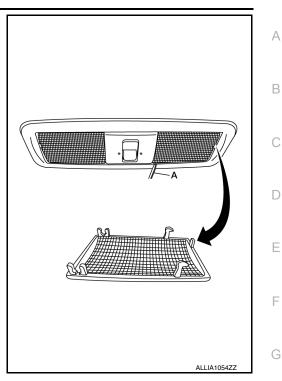
- Do not touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Do not leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with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

PERSONAL LAMP BULB

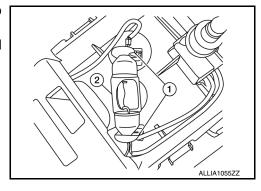
PERSONAL LAMP

< REMOVAL AND INSTALLATION >

 Release the personal lamp lens pawls, then remove the personal lamp lens, using a suitable tool (A).



- 2. Release the personal lamp bulb retainers (1), then pull the bulb (2) straight out to remove.
- 3. Install a new personal lamp bulb securely into the retainers and install the lens into the personal lamp.



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STEP LAMP

Removal and Installation

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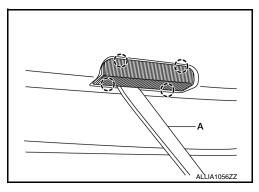
Do not touch bulb with your hand while it is on or right after being turned off. Burning may result. CAUTION:

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.

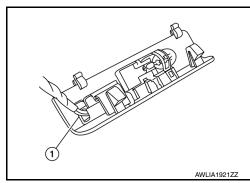
REMOVAL

1. Replace the step lamp pawls and remove the step lamp from the door, using a suitable tool (A).

(): Pawl



2. Disconnect harness connector from step lamp (1).



3. Remove the step lamp from the vehicle.

INSTALLATION

Installation is in the reverse order of removal.

Bulb Replacement

INFOID:0000000012519783

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.

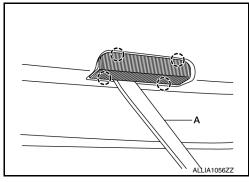
STEP LAMP BULB

STEP LAMP

< REMOVAL AND INSTALLATION >

1.	Release the step lamp pawls and remove the step lamp from the
	door, using a suitable tool (A).

(<u></u>): Pawl



- 2. Pull the bulb straight out to remove.
- 3. Install the new step lamp bulb and securely snap the step lamp into the door.

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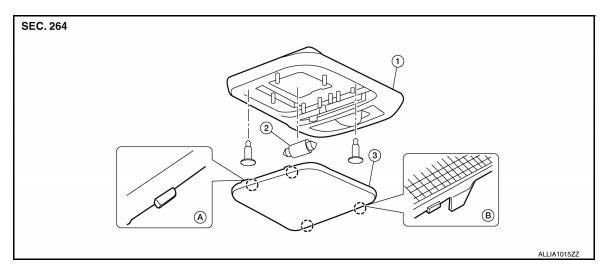
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CARGO LAMP

Exploded View



- 1. Cargo area courtesy lamp housing
- Bulb
- B. Pawl (bottom edge)
- 3. Cargo area courtesy lamp lens
- (Paw

Removal and Installation - Front, Center or Rear

INFOID:0000000012519785

WARNING:

A. Pawl (top edge)

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

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.

NOTE:

Front cargo lamp shown: procedure also applies to center and rear cargo lamps (if equipped).

REMOVAL

- 1. Remove the cargo lamp lens.
- Remove the cargo lamp screws.
- 3. Disconnect the harness connector from cargo lamp and remove.

INSTALLATION

Installation is in the reverse order of removal.

Bulb Replacement

INFOID:0000000012519786

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.

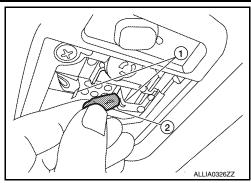
Front cargo lamp shown; procedure also applies to center and rear cargo lamps (if equipped).

1. Release the cargo lamp lens pawls, then remove the cargo lamp lens, using a suitable tool.

CARGO LAMP

< REMOVAL AND INSTALLATION >

2. Release the bulb retainers (1), then pull bulb (2) straight out to remove.



3. Insert a new bulb and securely snap the lens into the cargo lamp.

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ILLUMINATION CONTROL SWITCH

< REMOVAL AND INSTALLATION >

ILLUMINATION CONTROL SWITCH

Removal and Installation

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The illumination control switch is replaced as a part of the combination meter. Refer to MWI-68, "Removal and <a href="Installation".

BULB SPECIFICATIONS

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

BULB SPECIFICATIONS

Interior Lamp/Illumination

Step lamp (Passenger van)

Item	Wattage (W)*
Front room/map lamp (Cargo Van)	8
Front room/map lamp (Passenger Van)	8
Cargo lamp (Front, Center or Rear)	10
Personal lamp (Passenger van)	8

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

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