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PRECAUTIONS

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PRECAUTION

PRECAUTIONS

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

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

WARNING:

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

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

WARNING:

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

Precaution for Work

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

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PREPARATION

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PREPARATION

Special Service Tool

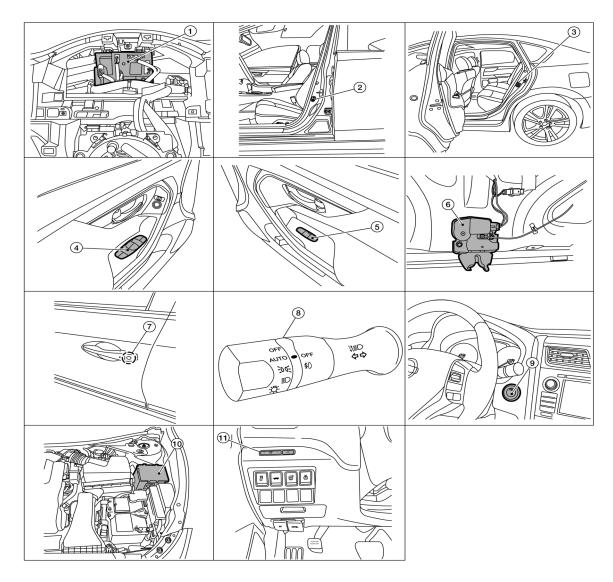
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Tool number (Kent-Moore No.) Tool name		Description
 (J-46534) Trim Tool Set	AWJIA0483ZZ	Removing trim components

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location



- BCM (view with combination meter re- 2. moved)
- Main power window and door lock/un- 5. lock switch
- 7. Front door lock assembly LH (key cylinder switch)
- 10. IPDM E/R (tail lamp relay)

- Front door switch LH (RH similar)
- Power window and door lock/unlock switch RH
- 8. Combination switch (lighting and turn signal switch)
- 11. Meter control switch (illumination control switch)
- Rear door switch LH (RH similar)
- Trunk lamp switch and trunk release solenoid (Trunk lamp switch)
- 9. Push-button ignition switch

Component Description

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	Description
BCM	The BCM monitors the combination switch (lighting and turn signal switch) position. The BCM requests via CAN communication that the IPDM E/R activate the tail lamp relay.

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COMPONENT PARTS

< SYSTEM DESCRIPTION >

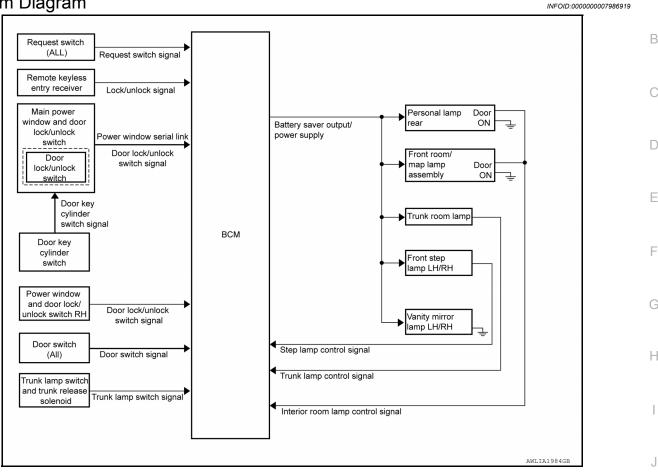
IPDM E/R	The IPDM E/R activates the tail lamp relay based on inputs received from the BCM via the CAN communication.
Push button ignition switch	Provides ignition switch status to the BCM.
Door switches	Provides door OPEN/CLOSED status to the BCM.
Combination switch (lighting and turn signal switch)	The combination switch (lighting and turn signal switch) provides input to the BCM. The BCM then sends a tail lamp relay request signal to the IPDM E/R via CAN communication to operate the illumination system.
Trunk lamp switch and release solenoid (trunk lamp switch)	Provides trunk lamp switch OPEN/CLOSED status to the BCM.
Power window and door lock/unlock switch RH	Provides door lock/unlock position switch RH status to the BCM.
Main power window and door lock/unlock switch	Provides door lock/unlock position switch LH status to the BCM.
Meter control switch (illumination control switch)	 Adjusts the illumination system and combination meter illumination brightness (except Mexico). Only adjusts the combination meter illumination brightness (for Mexico).
Front door lock assembly LH (key cylinder switch)	Provides front door lock assembly LH (key cylinder switch) door lock/unlock switch position status to the BCM.

INTERIOR ROOM LAMP CONTROL SYSTEM

< SYSTEM DESCRIPTION >

INTERIOR ROOM LAMP CONTROL SYSTEM

System Diagram



System Description

OUTLINE

 Front room/map lamps and personal lamps rear are controlled by the room lamp timer control function of the BCM when lamp switch is in the DOOR position.

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

- Trunk room lamp is controlled by trunk lamp control function of BCM.
- Push-button ignition switch illumination is controlled by the push-button ignition switch illumination control function of BCM.
- Interior room lamps are illuminated by the welcome light function of Intelligent Key system. Refer to DLK-32. "WELCOME LIGHT FUNCTION: System Description".

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 Intelligent Key, main power window and door lock/unlock switch or front door lock assembly LH (key cylinder switch)].
- When a door opens → closes.

Timer control is cancelled under the following conditions:

- When the front door LH is locked [with Intelligent Key, 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 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.

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INTERIOR ROOM LAMP CONTROL SYSTEM

< SYSTEM DESCRIPTION >

The BCM controls the following interior lamps:

- Front step lamp LH/RH
- Front room/map lamp LH/RH
- Personal lamp rear LH/RH
- Vanity mirror lamp LH/RH (if equipped)
- Trunk room lamp

After the battery saver system turns the lamps OFF, the lamps will illuminate again when:

- A signal is received from an Intelligent Key or 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.

ILLUMINATION CONTROL SYSTEM

< SYSTEM DESCRIPTION >

ILLUMINATION CONTROL SYSTEM

System Diagram

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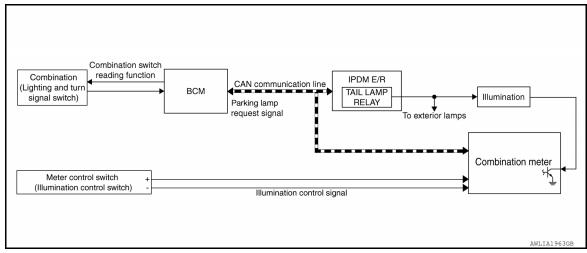
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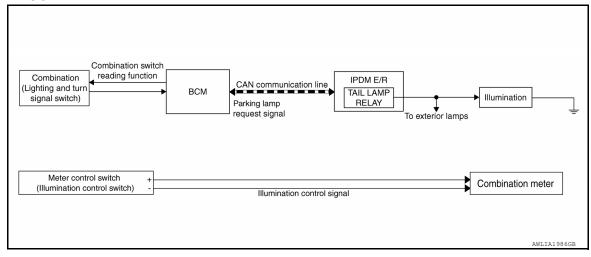
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EXCEPT MEXICO



FOR MEXICO



System Description

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EXCEPT MEXICO

The illumination system is activated by the combination switch (lighting and turn signal switch) when the switch is placed in the 1st or 2nd position (or if the auto light system is activated).

The illumination system and combination meter illumination brightness is adjustable using the meter control switch (illumination control switch).

- The BCM (body control module) receives the parking lamp request signal from the combination switch (lighting and turn signal switch) to turn the lights on.
- The BCM sends the parking lamp request signal to the IPDM E/R (intelligent power distribution module engine room) via CAN communication.
- IPDM E/R receives the parking lamp request signal from the BCM to activate the tail lamp relay and provide power to the illumination system.

FOR MEXICO

The illumination system is activated by the combination switch (lighting and turn signal switch) when the switch is placed in the 1st or 2nd position (or if the auto light system is activated).

Only the combination meter illumination brightness is adjustable using the meter control switch (illumination control switch).

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ILLUMINATION CONTROL SYSTEM

< SYSTEM DESCRIPTION >

- The BCM (body control module) receives the parking lamp request signal from the combination switch (lighting and turn signal switch) to turn the lights on.
- The BCM sends the parking lamp request signal to the IPDM E/R (intelligent power distribution module engine room) via CAN communication.
- IPDM E/R receives the parking lamp request signal from the BCM to activate the tail lamp relay and provide power to the illumination system.

BATTERY SAVER CONTROL

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

< 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	HEADLAMP			×	×	×		
Wiper and washer	WIPER			×	×	×		
Turn signal and hazard warning lamps	FLASHER			×	×			
Air conditioner	AIR CONDITIONER			×				
Intelligent Key system	INTELLIGENT KEY		×	×	×	×		
Combination switch	COMB SW			×				
BCM	BCM	×	×			×	×	×
Immobilizer	IMMU		×	×	×			
Interior room lamp battery saver	BATTERY SAVER			×	×			
Trunk open	TRUNK			×				
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×				
Signal buffer system	SIGNAL BUFFER			×				
TPMS	AIR PRESSURE MONITOR		×	×	×	×		

INT LAMP

< SYSTEM DESCRIPTION >

INT LAMP : CONSULT Function (BCM - INT LAMP)

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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.
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 trunk 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.
TRNK/HAT MNTR [On/Off]	Indicates condition of trunk room lamp 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
INT LAMP	This test is able to check interior room lamp operation [On/Off].
STEP LAMP TEST	This test is able to check step lamp operation [On/Off].

WORK SUPPORT

Support Item	Setting	Description
SET I/L D-UNLCK INTCON	On	Interior room lamp timer function ON.
SET I/E D-ONECK INTOON	Off*	Interior room lamp timer function OFF.
FOG LAMP OVERRIDE	On*	Fog lamp override function ON.
FOG LAWIF OVERRIDE	Off	Fog lamp override function OFF.

^{* :} Initial setting

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

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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.

Monitor Item [Unit]	Description		
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 trunk 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.	
TRNK/HAT MNTR [On/Off]	Indicates	condition of trunk room lamp 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 i	s able to check battery saver operation [On/Off].	
Refer to BCS-49, "DTC Index".			
Refer to <u>BCS-49, "DTC_Index"</u> . DATA MONITOR	Main	Description	
Refer to BCS-49, "DTC Index". DATA MONITOR Monitor Item [Unit]	Main ×	Description Indicates condition of door request switch LH	
Refer to BCS-49, "DTC Index". DATA MONITOR Monitor Item [Unit] REQ SW -DR [On/Off]	×	Indicates condition of door request switch LH.	
Refer to BCS-49, "DTC Index". DATA MONITOR Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off]	_	Indicates condition of door request switch LH. Indicates condition of door request switch RH.	
Refer to BCS-49, "DTC Index". DATA MONITOR Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off] PUSH SW [On/Off] SHIFTLOCK SOLENOID POWER SUP-	×	Indicates condition of door request switch LH.	
Refer to BCS-49, "DTC Index". DATA MONITOR Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off] PUSH SW [On/Off] SHIFTLOCK SOLENOID POWER SUP-PLY [On/Off]	×	Indicates condition of door request switch LH. Indicates condition of door request switch RH. Indicates condition of push-button ignition switch.	
Refer to BCS-49, "DTC Index". DATA MONITOR Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off] PUSH SW [On/Off] SHIFTLOCK SOLENOID POWER SUP-PLY [On/Off] BRAKE SW 1 [On/Off]	×	Indicates condition of door request switch LH. Indicates condition of door request switch RH. Indicates condition of push-button ignition switch. Indicates condition of power supply to shiftlock solenoid.	
Refer to BCS-49, "DTC Index". DATA MONITOR Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off] PUSH SW [On/Off] SHIFTLOCK SOLENOID POWER SUP-PLY [On/Off] BRAKE SW 1 [On/Off] BRAKE SW 2 [On/Off]	×	Indicates condition of door request switch LH. Indicates condition of door request switch RH. Indicates condition of push-button ignition switch. Indicates condition of power supply to shiftlock solenoid. Indicates condition of brake switch.	
Refer to BCS-49, "DTC Index". DATA MONITOR Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off] PUSH SW [On/Off] SHIFTLOCK SOLENOID POWER SUP-PLY [On/Off] BRAKE SW 1 [On/Off] BRAKE SW 2 [On/Off] DETE/CANCL SW [On/Off]	× × × × ×	Indicates condition of door request switch LH. Indicates condition of door request switch RH. Indicates condition of push-button ignition switch. Indicates condition of power supply to shiftlock solenoid. Indicates condition of brake switch. Indicates condition of brake switch.	
Refer to BCS-49, "DTC Index". DATA MONITOR Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off]	× × × × ×	Indicates condition of door request switch LH. Indicates condition of door request switch RH. Indicates condition of push-button ignition switch. Indicates condition of power supply to shiftlock solenoid. Indicates condition of brake switch. Indicates condition of brake switch. Indicates condition of P (park) position.	
Refer to BCS-49, "DTC Index". DATA MONITOR Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off] PUSH SW [On/Off] SHIFTLOCK SOLENOID POWER SUP-PLY [On/Off] BRAKE SW 1 [On/Off] BRAKE SW 2 [On/Off] DETE/CANCL SW [On/Off] SFT PN/N SW [On/Off] UNLK SEN -DR [On/Off]	× × × × × ×	Indicates condition of door request switch LH. Indicates condition of door request switch RH. Indicates condition of push-button ignition switch. Indicates condition of power supply to shiftlock solenoid. Indicates condition of brake switch. Indicates condition of brake switch. Indicates condition of P (park) position. Indicates condition of P (park) or N (neutral) position.	
Refer to BCS-49, "DTC Index". DATA MONITOR Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off] PUSH SW [On/Off] SHIFTLOCK SOLENOID POWER SUP-PLY [On/Off] BRAKE SW 1 [On/Off] BRAKE SW 2 [On/Off] DETE/CANCL SW [On/Off] SFT PN/N SW [On/Off] UNLK SEN -DR [On/Off] PUSH SW -IPDM [On/Off]	× × × × × ×	Indicates condition of door request switch LH. Indicates condition of push-button ignition switch. Indicates condition of power supply to shiftlock solenoid. Indicates condition of brake switch. Indicates condition of brake switch. Indicates condition of P (park) position. Indicates condition of P (park) or N (neutral) position. Indicates condition of door unlock sensor. Indicates condition of push-button ignition switch received from IPDM E/R on CAN communication line.	
Refer to BCS-49, "DTC Index". DATA MONITOR Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off] PUSH SW [On/Off] SHIFTLOCK SOLENOID POWER SUP-PLY [On/Off] BRAKE SW 1 [On/Off] BRAKE SW 2 [On/Off] DETE/CANCL SW [On/Off] SFT PN/N SW [On/Off] UNLK SEN -DR [On/Off] PUSH SW -IPDM [On/Off] IGN RLY1 -F/B [On/Off]	× × × × × ×	Indicates condition of door request switch LH. Indicates condition of push-button ignition switch. Indicates condition of power supply to shiftlock solenoid. Indicates condition of brake switch. Indicates condition of brake switch. Indicates condition of P (park) position. Indicates condition of P (park) or N (neutral) position. Indicates condition of door unlock sensor. Indicates condition of push-button ignition switch received from IPDM E/R on CAN communication line. Indicates condition of ignition relay 1 received from IPDM E/R on CAN communication line.	
Refer to BCS-49, "DTC Index". DATA MONITOR Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off] PUSH SW [On/Off] SHIFTLOCK SOLENOID POWER SUP-PLY [On/Off] BRAKE SW 1 [On/Off] BRAKE SW 2 [On/Off] DETE/CANCL SW [On/Off] UNLK SEN -DR [On/Off] PUSH SW -IPDM [On/Off] IGN RLY1 -F/B [On/Off] DETE SW -IPDM [On/Off]	× × × × × ×	Indicates condition of door request switch LH. Indicates condition of door request switch RH. Indicates condition of push-button ignition switch. Indicates condition of power supply to shiftlock solenoid. Indicates condition of brake switch. Indicates condition of brake switch. Indicates condition of P (park) position. Indicates condition of P (park) or N (neutral) position. Indicates condition of door unlock sensor. Indicates condition of push-button ignition switch received from IPDM E/R on CAN communication line. Indicates condition of ignition relay 1 received from IPDM E/R on CAN communication line. Indicates condition of detent switch received from TCM on CAN communication line.	
REQ SW -DR [On/Off] REQ SW -AS [On/Off] PUSH SW [On/Off] SHIFTLOCK SOLENOID POWER SUP-PLY [On/Off] BRAKE SW 1 [On/Off] BRAKE SW 2 [On/Off] DETE/CANCL SW [On/Off] SFT PN/N SW [On/Off]	× × × × × ×	Indicates condition of door request switch LH. Indicates condition of push-button ignition switch. Indicates condition of power supply to shiftlock solenoid. Indicates condition of brake switch. Indicates condition of brake switch. Indicates condition of P (park) position. Indicates condition of P (park) or N (neutral) position. Indicates condition of door unlock sensor. Indicates condition of push-button ignition switch received from IPDM E/R on CAN communication line. Indicates condition of detent switch received from TCM on CAN communication line. Indicates condition of detent switch received from TCM on CAN communication line. Indicates condition of P (park) or N (neutral) position from TCM on CAN communication line.	
Refer to BCS-49, "DTC Index". DATA MONITOR Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off] PUSH SW [On/Off] SHIFTLOCK SOLENOID POWER SUP-PLY [On/Off] BRAKE SW 1 [On/Off] BRAKE SW 2 [On/Off] DETE/CANCL SW [On/Off] SFT PN/N SW [On/Off] UNLK SEN -DR [On/Off] PUSH SW -IPDM [On/Off] IGN RLY1 -F/B [On/Off] DETE SW -IPDM [On/Off] SFT PN -IPDM [On/Off]	× × × × × ×	Indicates condition of door request switch LH. Indicates condition of push-button ignition switch. Indicates condition of power supply to shiftlock solenoid. Indicates condition of brake switch. Indicates condition of brake switch. Indicates condition of P (park) position. Indicates condition of P (park) or N (neutral) position. Indicates condition of push-button ignition switch received from IPDM E/R on CAN communication line. Indicates condition of ignition relay 1 received from IPDM E/R on CAN communication line. Indicates condition of detent switch received from TCM on CAN communication line. Indicates condition of P (park) or N (neutral) position from TCM on CAN communication line.	

nication line.

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VEH SPEED 1 [mph/km/h]

Indicates condition of vehicle speed signal received from ABS on CAN commu-

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	Main	Description
VEH SPEED 2 [mph/km/h]	×	Indicates condition of vehicle speed signal received from combination meter on CAN communication line.
DOOR STAT -DR [LOCK/READY/UNLK]	×	Indicates condition of driver side door status.
DOOR STAT -AS [LOCK/READY/UNLK]	×	Indicates condition of passenger side door status.
DOOR STAT -RR [LOCK/READY/UNLK]	×	Indicates condition of rear right side door status.
DOOR STAT -RL [LOCK/READY/UNLK]	×	Indicates condition of rear left side door status.
ID OK FLAG [Set/Reset]		Indicates condition of Intelligent Key ID.
PRMT ENG STRT [Set/Reset]		Indicates condition of engine start possibility.
PRMT RKE STRT [Set/Reset]		Indicates condition of engine start possibility from Intelligent Key.
I-KEY OK FLAG [Key ON/Key OFF]	×	Indicates condition of Intelligent Key OK flag.
PRBT ENG STRT [Set/Reset]		Indicates condition of engine start prohibit.
ID VERI CANCL [STOP]		Indicates condition of Intelligent Key ID authentication.
ACC BATTERY SAVER [STOP]		Indicates condition of battery saver.
CRNK PRBT TMR [On/Off]		Indicates condition of crank prohibit timer.
AUT CRNK TMR [On/Off]		Indicates condition of automatic engine crank timer from Intelligent Key.
CRNK PRBT TME [sec]		Indicates condition of engine crank prohibit time.
AUTO CRNK TME [sec]		Indicates condition of automatic engine crank time from Intelligent Key.
CRANKING TME [sec]		Indicates condition of engine cranking time from Intelligent Key.
DETE SW PWR [On/Off]		Indicates condition of detent switch voltage.
ACC RLY -REQ [On/Off]		Indicates condition of accessory relay control request.
RKE OPE COUN1 [0-19]	×	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
RKE OPE COUN2 [0-19]	×	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
TRNK/HAT MNTR [On/Off]		Indicates condition of trunk room lamp 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-TR/BD [On/Off]		Indicates condition of trunk open signal from Intelligent Key.
RKE-PANIC [On/Off]		Indicates condition of panic signal from Intelligent Key.
RKE-MODE CHG [On/Off]		Indicates condition of mode change signal from Intelligent Key.

ACTIVE TEST

Test Item	Description
INTELLIGENT KEY LINK (CAN)	This test is able to check Intelligent Key identification number [Off/ID No1/ID N02/ID No3/ID No4/ID No5].
INT LAMP	This test is able to check interior room lamp operation [On/Off].
FLASHER	This test is able to check hazard lamp operation [LH/RH/Off].
HORN	This test is able to check horn operation [On].
BATTERY SAVER	This test is able to check battery saver operation [On/Off].
TRUNK/BACK DOOR	This test is able to check trunk actuator operation [Open].
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation [On/Off].
INSIDE BUZZER	This test is able to check combination meter warning chime operation [Take Out/Knob/Key/Off].
INDICATOR	This test is able to check combination meter warning lamp operation [KEY ON/KEY IND/Off].
IGN CONT2	This test is able to check ignition relay-2 control operation [On/Off].
ENGINE SW ILLUMI	This test is able to check push-button ignition switch START indicator operation [On/Off].

< SYSTEM DESCRIPTION >

Test Item			Description
PUSH SWITCH INDICATOR	This test i	s able to che	ck push-button ignition switch indicator operation [On/Off].
ACC CONT	This test i	s able to che	ck accessory relay control operation [On/Off].
IGN CONT1	This test i	s able to che	ck ignition relay-1 control operation [On/Off].
ST CONT LOW	This test i	s able to che	ck starter control relay operation [On/Off].
IGNITION RELAY	This test i	s able to igni	tion relay operation [On/Off].
REVERSE LAMP TEST	This test i	s able to che	ck reverse lamp illumination operation [On/Off].
TRUNK/LUGGAGE LAMP TEST	This test i	s able to che	ck cargo lamp illumination operation [On/Off].
KEYFOB PW TEST	This test i	s able to che	ck power window operation using the Intelligent Key [Off/DOWN/UP]
SHIFTLOCK SOLENOID TEST	This test i	s able to che	ck shift lock solenoid operation [On/Off].
VORK SUPPORT			
Support Item	Se	tting	Description
IGN/ACC BATTERY SAVER	On*		Battery saver function ON.
	Off		Battery saver function OFF.
REMOTE ENGINE STARTER	On*		Remote engine start function ON.
	Off		Remote engine start function OFF.
	BUZZER		Buzzer reminder function by door lock/unlock request switch ON.
ANSWERBACK I-KEY LOCK UNLOCK	HORN		Horn chirp reminder function by door lock request switch ON.
ANOWERE MORE THE FEORE GIVE COR	Off*		No reminder function by door lock/unlock request switch.
	INVALID		This mode is not used.
ANSWERBACK KEYLESS LOCK UN-	On		Buzzer or horn chirp reminder when doors are locked/unlocked with Intelligent Key.
LOCK	Off*		No buzzer or horn chirp reminder when doors are locked/unlocked with Intelligent Key.
ANSWER BACK	On*		Horn chirp reminder when doors are locked with Intelligent Key.
ANOWER BACK	Off		No horn chirp reminder when doors are locked with Intelligent Key.
RETRACTABLE MIRROR SET	On		Retractable mirror set ON.
THE TRACTABLE WINTON SET	Off*		Retractable mirror set OFF.
LOCK/UNLOCK BY I-KEY	On*		Door lock/unlock function from Intelligent Key ON.
LOOMUNLOOM DI I-NET	Off		Door lock/unlock function from Intelligent Key OFF.
ENGINE START BY LIVEY	On*		Engine start function from Intelligent Key ON.
ENGINE START BY I-KEY	Off		Engine start function from Intelligent Key OFF.
INTELLIGENT KEY LINK SET	On		Intelligent Key link set ON.
INTLLLIGENT RET LINK SET	Off*		Intelligent Key link set OFF.
		70 msec	
SHORT CRANKING OUTPUT	Start	100 msec	Starter motor operation duration times.
SHORT CRAINNING DUTPUT		200 msec	

This function allows inside key antenna self-diagnosis.

200 msec

End

INSIDE ANT DIAGNOSIS

< SYSTEM DESCRIPTION >

Support Item	Se	tting	Description
AUTO LOCK SET	MODE7	5 min	
	MODE6	4 min	
	MODE5	3 min	
	MODE4	2 min	Auto door lock time can be set in this mode.
	MODE3*	1 min	
	MODE2	30 sec	
	MODE1	Off	

^{*:} Initial Setting

DIAGNOSIS SYSTEM (IPDM E/R)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (IPDM E/R)

Diagnosis Description

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AUTO ACTIVE TEST

Description

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

- Front wiper (LO, HI)
- · Front fog lamps
- Parking lamps
- Side marker lamps
- Tail lamps
- · License plate lamps
- Daytime running lamps
- Headlamps (LO, HI)
- A/C compressor
- Cooling fans (LO, HI)

Operation Procedure

CAUTION:

Do not start the engine.

NOTE:

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

NOTE:

- If auto active test mode cannot be actuated, check door switch system. Refer to <u>DLK-101</u>, "Component <u>Inspection"</u>.
- When auto active test mode has to be cancelled halfway through test, turn ignition switch OFF.
- 1. Close the hood and lift the wiper arms from the windshield. (Prevent windshield damage due to wiper operation)
- Turn ignition switch OFF.
- 3. Turn the ignition switch ON, and within 20 seconds, press the front door switch LH 10 times. Then turn the ignition switch OFF.
- Turn the ignition switch ON within 10 seconds. After that the horn sounds once, and the auto active test starts.
- After a series of the following operations is repeated 3 times, auto active test is completed.

Inspection in Auto Active Test Mode

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

Operation sequence	Inspection Location	Operation	
1	Front wiper	LO for 3 seconds → HI for 3 seconds	
2	Front fog lampsParking lampsSide marker lampsTail lampsLicense plate lamps	10 seconds	
3 Daytime running lamps		10 seconds	
4	Headlamps	LO ⇔ HI 5 times	
5	A/C compressor	ON ⇔ OFF 5 times	
6*	Cooling fans	LO for 5 seconds → HI for 5 seconds	

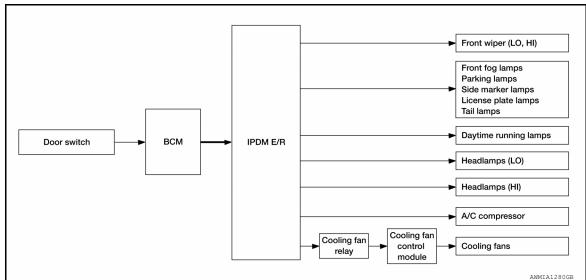
^{*:} Outputs duty ratio of 50% for 5 seconds → duty ratio of 100% for 5 seconds on the cooling fan control module.

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Concept of auto active test



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

Diagnosis chart in auto active test mode

Symptom	Inspection contents		Possible cause
Any of the following components do not operate		YES	BCM signal input circuit
 Front fog lamps Parking lamps Side marker lamps License plate lamps Tail lamps Daytime running lamps Headlamp (HI, LO) Front wiper 	Perform auto active test. Does the applicable system operate?	NO	Lamp or motor Lamp or motor ground circuit Harness or connector between IPDM E/R and applicable system IPDM E/R
		YES	ECM signal input circuit CAN communication signal between ECM and IPDM E/ R
Cooling fans do not operate	Perform auto active test. Do the cooling fans operate?	NO	Cooling fans Harness or connectors between cooling fans and cooling fan control module Cooling fan control module Harness or connectors between cooling fan relay and cooling fan control module Cooling fan relay Harness or connectors between IPDM E/R and cooling fan relay IPDM E/R

CONSULT Function (IPDM E/R)

INFOID:0000000008681877

APPLICATION ITEM

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

DIAGNOSIS SYSTEM (IPDM E/R)

< SYSTEM DESCRIPTION >

Direct Diagnostic Mode	Description		
Ecu Identification	The IPDM E/R part number is displayed.		
Self Diagnostic Result	The IPDM E/R self diagnostic results are displayed.		
Data Monitor	The IPDM E/R input/output data is displayed in real time.		
Active Test The IPDM E/R activates outputs to test components.			
CAN Diag Support Mntr The result of transmit/receive diagnosis of CAN communication is displayed.			

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ECU IDENTIFICATION

The IPDM E/R part number is displayed.

SELF DIAGNOSTIC RESULT

Refer to PCS-20, "DTC Index".

DATA MONITOR

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

ACTIVE TEST

DIAGNOSIS SYSTEM (IPDM E/R)

< SYSTEM DESCRIPTION >

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

CAN DIAG SUPPORT MNTR

Refer to LAN-15, "CAN Diagnostic Support Monitor".

BCM, IPDM E/R

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM, IPDM E/R

List of ECU Reference

ECU	Reference
	BCS-28, "Reference Value"
BCM	BCS-47, "Fail Safe"
DCIVI	BCS-47, "DTC Inspection Priority Chart"
	BCS-49, "DTC Index"
	PCS-12, "Reference Value"
IPDM E/R	PCS-19, "Fail Safe"
	PCS-20, "DTC Index"

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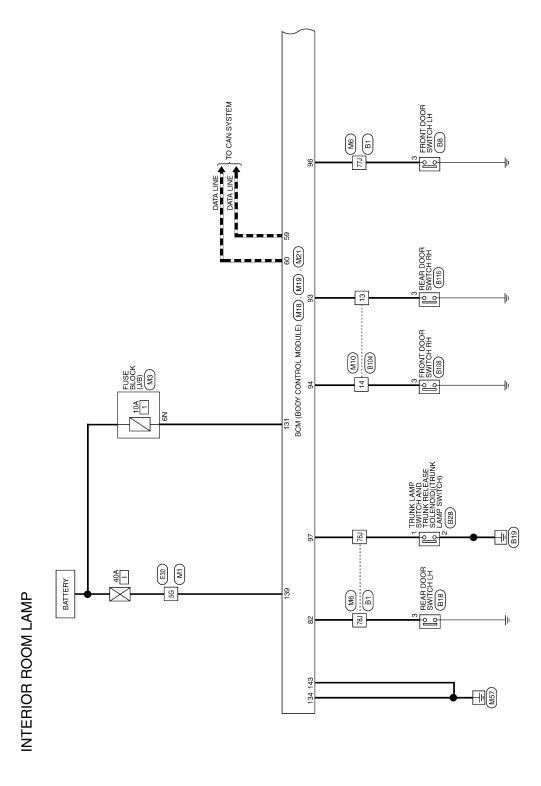
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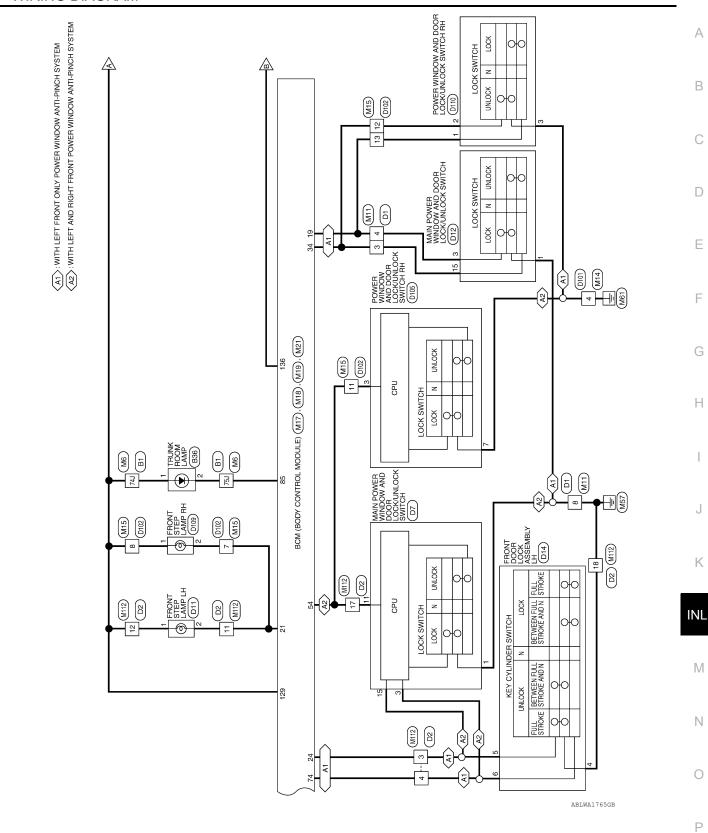
WIRING DIAGRAM

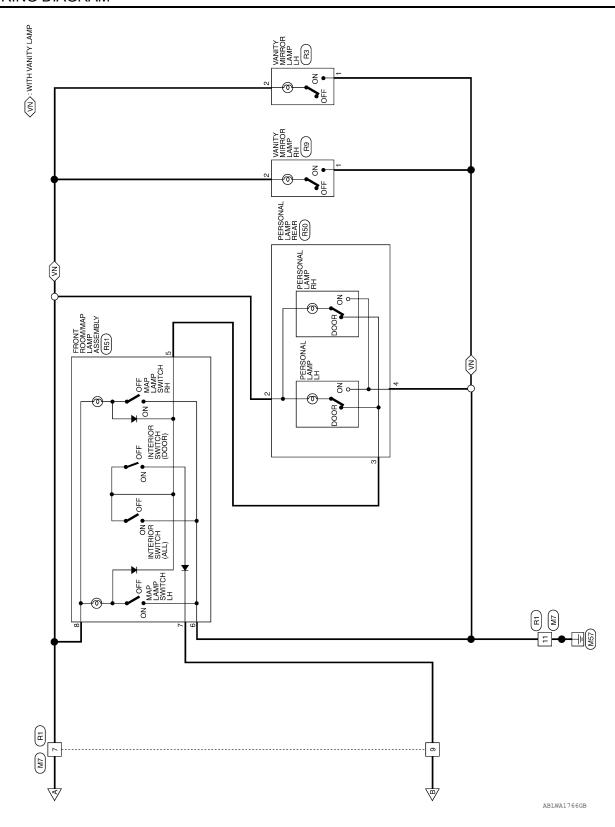
INTERIOR ROOM LAMP

Wiring Diagram



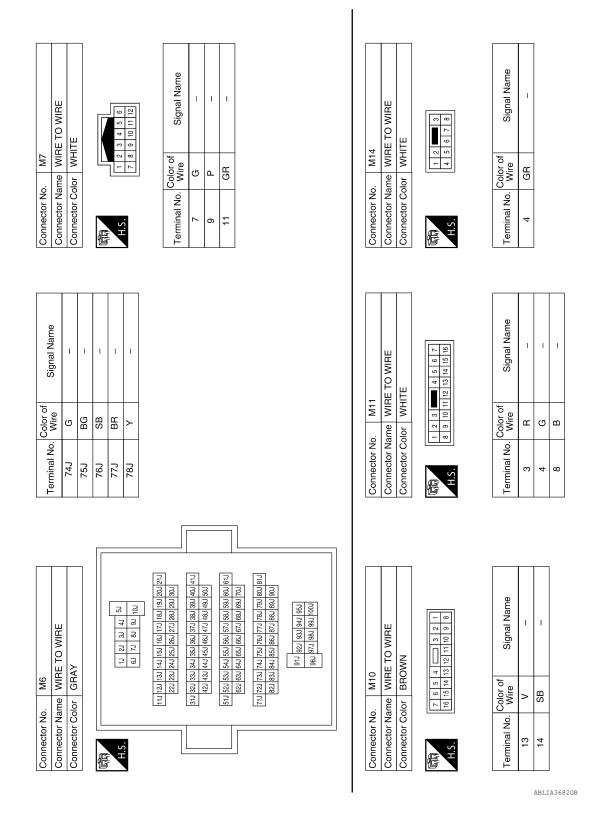
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INTERIOR ROOM LAMP

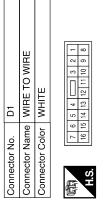
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	Terminal No.	Color of Wire	_	Signal Name		Termi	al No.	Color of Wire	Signal Name		Terminal No.	Color of Wire		Signal Name	Φ	
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INTERIOR ROOM LAMP

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INTERIOR ROOM LAMP

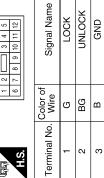
Connector No. D14 Connector Name FRONT DOOR LOCK ASSEMBLY LH Connector Color GRAY LI 2 3 4 5 6	Terminal No. Color of Wire Signal Name 4 B - 5 G - 6 P -	Connector No. D105 POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH (WITH LEFT SWITCH RH (WITH LE	A B C D
Connector No. D12 MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH (WITH LEFT FRONT ONLY POWER WINDOW ANTI-PINCH SYSTEM) Connector Color WHITE T 2 3 4 T 5 16 7 1 1 1 2 13 14 15 16 1 1 1 1 2 1 3 14 15 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Terminal No. Wire Signal Name 1 B GND 3 G LOCK SW 15 R UNLOCK SW	Connector No. D102 Connector Name WIRE TO WIRE Connector Color WHITE R 7 6 5 4 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	F G H
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Connector No. D110	Connector Name SWITCH RH (WITH LEFT POWER WINDOW ANTI-PINCH SYSTEM)	Connector Color WHITE
	POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH (WITH LEFT POWER WINDOW ANTI: PINCH SYSTEM)	





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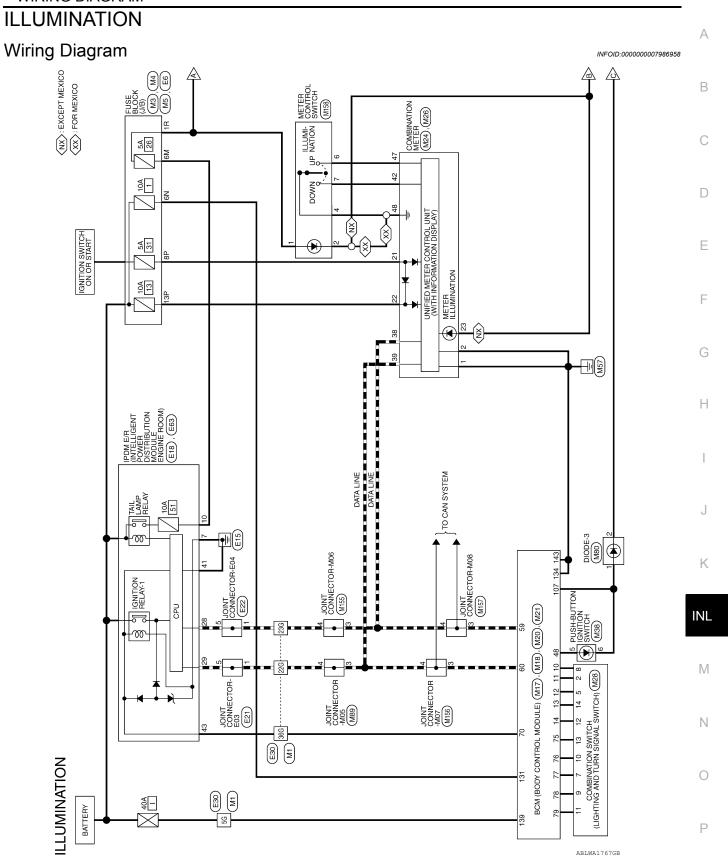
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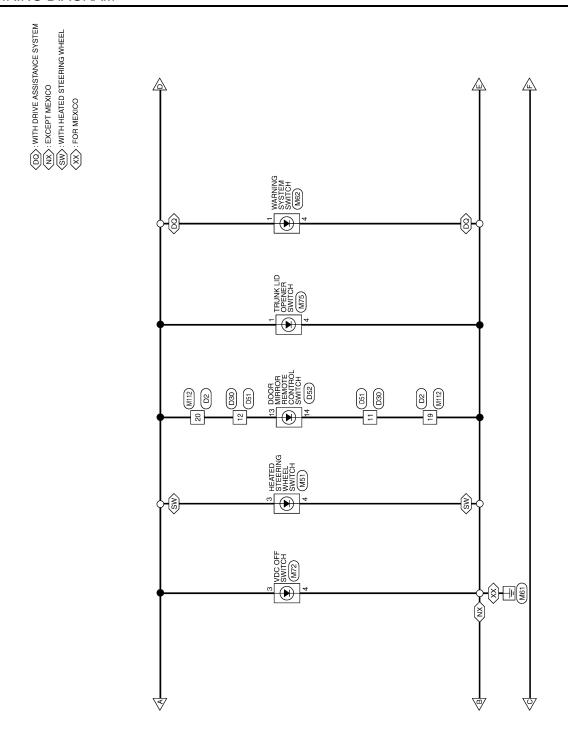
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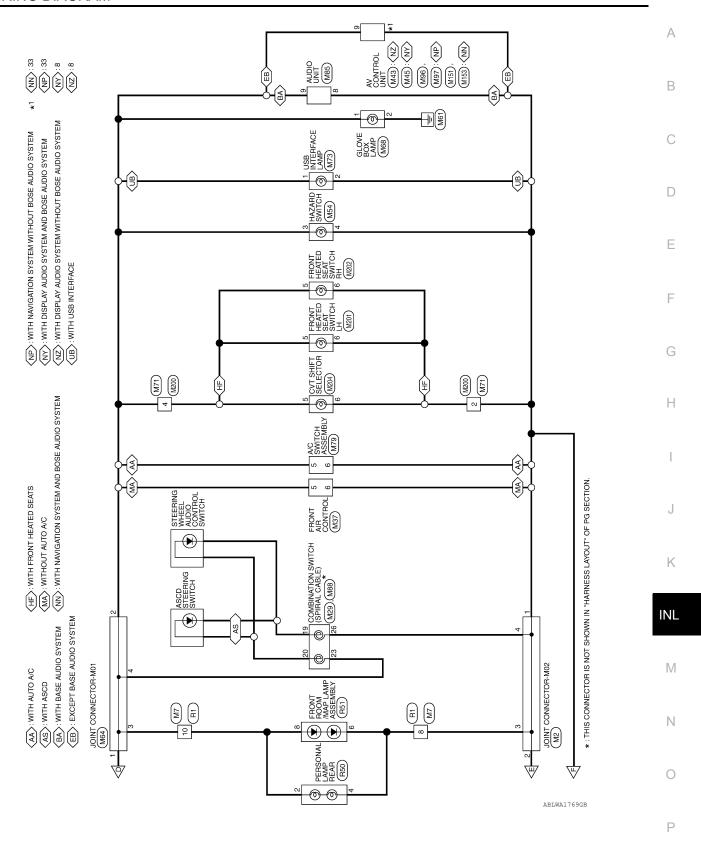
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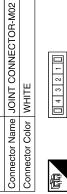


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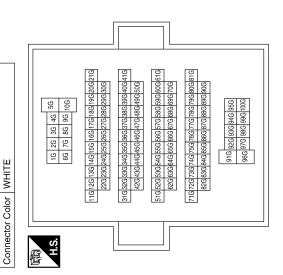
ILLUMINATION CONNECTORS

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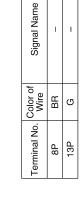
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minal No.	5G	22G	23G	36G	

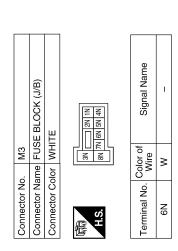


M5	Connector Name FUSE BLOCK (J/B)	WHITE	
Connector No.	Connector Name	Connector Color WHITE	





	Connector Name FUSE BLOCK (J/B)	NWC	178 I 681 581 481 (] 381 281 181 1681 581 481 (381 281 181 181 181 181 181 181 181 181 1	Signal Name	-
M	me FUS	lor BRC	7R 6R 5R 4R 16R 15R 14R 13R 1	Color of Wire	Я
Connector No.	Connector Na	Connector Color BROWN	H.S.	Terminal No. Wire	1R



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	_		_
Signal Name	COMBI SW IN 3	COMBI SW IN 2	COMBI SW IN 1
Color of Wire	M	В	۵
Terminal No. Wire	12	13	14

OILLIECTOL INO.	/ I MI I /
connector Name BCM (BODY)	BCM (BODY CONTROL MODULE)
connector Color GREEN	GREEN
诵 H.S.	



COMBI SW IN 5 COMBI SW IN 4

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Signal Name

Color of Wire | ≥ | 8

Terminal No.

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Connector Name WIRE TO WIRE

Connector No. M7

Connector Color WHITE

9 4 5 6 10 11 12 2	Signal Name	I
7 1 2 8 8	Color of Wire	В
H.S.	Terminal No.	8

M20	Connector Name BCM (BODY CONTROL MODULE)	ACK	
Connector No.	Connector Name	Connector Color BLACK	

BCM (BODY CONTROL MODULE)	CK	116 15 14 13 12 11 11 10 109 106 105 128 127 126 126 124 123 122 121 120 119 118 17	Signal Name	LOW SIDE START
ne BCN	or BLA	127 126 125	Color of Wire	Μ
Connector Name BCM (BODY CONTROL N	Connector Color BLACK	斯 H.S.	Terminal No.	107
		<u> </u>		

Signal Name	HIGH SIDE START SW LED	CAN-L	CAN-H	IGN USM OUT 1	COMBI SW OUT 5	COMBI SW OUT 4	COMBI SW OUT 3	COMBI SW OUT 2	COMBI SW OUT 1	
Color of Wire	BB	۵	٦	ŋ	BG	×	ш	Д	ŋ	
Terminal No.	48	59	09	70	75	9/	77	78	62	

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				43	83
				4	22
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	BCM (BODY CONTROL MODULE)			46	79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63
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	≽Σ		l 17	49	69
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nn	Connector Name BCM (BODY CONTROL M	ľ	H.S.	29	29
Connector No.	ပိ	Connector Color BLACK		99	8

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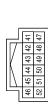
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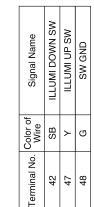
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CAN-H CAN-L







Signal Name

Color of Wire

Terminal No.

В ш

GND2 GND1





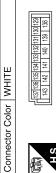
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Connector Color WHITE

Connector No. M24





Connector Name BCM (BODY CONTROL MODULE)

M21

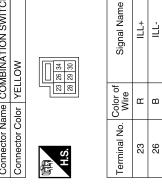
Connector No.



Signal Name	BAT BCM FUSE	GND2	BAT POWER F/L	GND1
Color of Wire	Μ	В	8	В
Terminal No. Wire	131	134	139	143



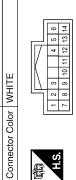




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Signal Name	INPUT 2	INPUT 4	INPUT 1	OUTPUT 1	INPUT 5	OUTPUT 2
Color of Wire	Ь	Μ	g	Ь	BG	G
Terminal No. Wire	6	10	11	12	13	14



Connector Name | COMBINATION SWITCH

M28

Connector No.



Signal Name	OUTPUT 4	OUTPUT 3	NPUT 3	OUTPUT 5
Color of Wire	BG	M	Я	W
Terminal No. Wire	2	5	7	8

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	Connector Name (WITH DISPLAY AUDIO	TE TE	1 2 3 4 5 6 7 8 9 70 10 11 12 13 14 15 16 17 18 20	Signal Name	ILL-	ILL+
. M43	AV (SYS lor WHI	1001	Color of Wire	GR	Œ
Connector No.	Connector Na	Connector Color WHITE	原 H.S.	Terminal No. Wire	∞	6
	PUSH-BUTTON IGNITION SWITCH	ш	8 2 2	Signal Name	ı	ı
M38	me PUSI IGNIT	or WHIT	4 0	Solor of Wire	BR	>
Connector No. M38	Connector Name PUSH-BUTTON IGNITION SWIT	Connector Color WHITE	H.S.	Terminal No. Wire	5	9
	Connector Name FRONT AIR CONTROL (WITHOUT AUTO A/C)	TE	4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Signal Name	ILL+	III-
. M37	me FRO (WIT	lor WHI	9 1 2 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Color of Wire	œ	GR
Connector No.	Connector Na	Connector Color WHITE	H.S.	Terminal No. Wire	5	9

TED STEERING TED STEERING TEL SWITCH Connector Name HAZARD SWITC Connector Color WHITE Connector Color WHITE Terminal No. Color of Signa Terminal No. Wire Signal Name 3 R	Connector No. M51						
TED STEERING EEL SWITCH E E Signal Name	Connector No. M51 Connector Name HEATED STEERING WHEEL SWITCH Connector Color BLUE A 6 6 3 Terminal No. Color of Signal Name 3 R - 4 B - 4 B - 4 B - 4 B - 4 B - 4 B - 4 B - 4 B - 5 Connector No. Color of Signal Name		ARD SWITCH E	1 2 4	Signal Name	I	I
TED STEERING SEL SWITCH Signal Name	Connector No. M51 Connector Name HEATED STEERING WHEEL SWITCH Connector Color BLUE Terminal No. Color of Signal Name 3 R - 4 B -		or WHIT		Solor of Wire	Œ	GR
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		Connector I	Connector Connec	H.S.	Terminal No	က	4
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CONTROL UNIT TH DISPLAY AUDIO TEM WITH BOSE) TE 3 4 5 6 7 8 9 12 13 14 15 16 17 18 Signal Name	0. M4 AV A	Connector No.	Connector Ni	H.S.	Terminal No. Wire	8	6

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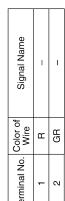
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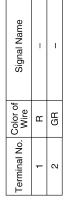
INL-39 2013 Altima Sedan Revision: August 2012

Connector Name WARNING SYSTEM SWITCH

Connector No. M62

Connector Color WHITE





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Ж	GR		M73
ļ	2		Connector No.

ame					
Signal Name	l	1	1	1	
Color of Wire	Ж	ш	ш	œ	
rminal No.	-	2	8	4	

Signal Name	1	-	1	1	
Color of Wire	н	ш	Н	œ	
Terminal No. Color of Wire		2	3	4	

Signal Name	ı	_	
Color of Wire	н	В	
Terminal No. Wire	-	4	

3	USB INTERFACE LAMP	ITE	<u>~</u>	Signal Name	-	ı
M/3	me USE	lor WH		Color of Wire	Я	GR
Connector No.	Connector Name	Connector Color WHITE	H.S.	Terminal No. Wire	ļ	2
			- 			

	VDC OFF SWITCH	YO.	<u> </u>	Signal Name	1	1
M72	ıme VDC	lor BLACK	4 0	Color of Wire	Œ	В
Connector No.	Connector Name	Connector Color	原 H.S.	Terminal No.	3	4

Color BLACK	40	o. Color of Wire	Œ	В
Connector Color	原 H.S.	Terminal No.	ဇ	4

3 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Signal Name	_	-
2 t	Color of Wire	GR	α
H.S.	Terminal No. Wire	2	4

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Connector Name WIRE TO WIRE

Connector No. M71

Connector Color WHITE

Connector Name A/C SWITCH ASSEMBLY Connector Name DIODE-3 Connector Color GREEN Connector Color GREEN WHITE Connector Color GREEN Connector Color GREEN Connector Color GREEN Connector Color GREEN H.S. Terminal No. Wire Signal Name Terminal No. Wire Color of GR Signal Name 4 B - CONDOR OF GREEN	Connector No.	M75		Connector No.		M79	Con	Connector No.	M80	
Signal Name Signal Name F F F F F F F F F	lame	TRUNK	(LID OPENER H	Connector	Name	A/C SWITCH ASSEMBLY WHITE	Col	nector Name	DIODE-3	
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6 GR - 2 GR - 2 GR - 3	S Š Š	lor of lire	Signal Name	Terminal P	do. Colc		Terr	ninal No. Vo		gnal Name
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nector Name AUDIO UNIT (WITH AUDIO SYSTEM) nector Color WHITE S. 1 2 4 5 6 7 8 9 9 10 11 12 13 14 15 16 17 18 9 9 10 11 12 13 14 15 16 17 18 9 9 10 11 12 13 14 15 16 17 18 9 10 11 12 13 14 15 16 17 18 9 10 11 12 13 14 15 16 17 18 10 17 18 10 17 18 18 10 17 18 18 18 18 18 18 18											
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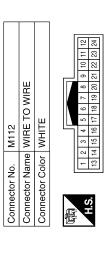
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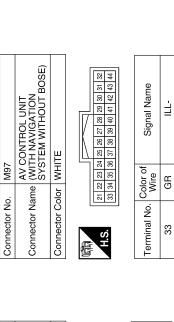
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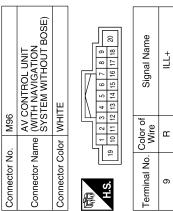
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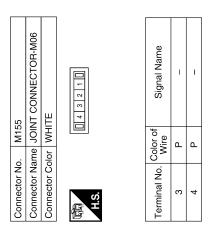
Revision: August 2012 INL-41 2013 Altima Sedan

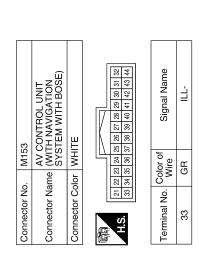


Signal Name	ı	I
Color of Wire	GR	н
Terminal No.	19	20









-	AV CONTROL UNIT (WITH NAVIGATION SYSTEM WITH BOSE)	믵	1 2 3 4 5 6 7 8 9	Signal Name	ILL+
. M151	AV (WI'SYS	lor WH	11 12 2 11 12 12	Color of Wire	ш
Connector No.	Connector Name	Connector Color WHITE	H.S. 19	Terminal No.	6

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ILLUMINATION

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Connector Name METER CONTROL SWITCH Connector Color WHITE H.S. Terminal No. Color of Signal Name 1 R - 1 2 B - 2	o. Color of Wire R	Terminal No. Color of Wire 1 R
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ı	Œ	-
	o. Color of Wire	Terminal No
/ m r		
=	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	呵可 H.S.
TER CONTROL SWITCH		Connector C
	Name METER Color WHITE	Connector Connector Connector China

Signal Name	Ι	I	
Color of Wire	В	œ	
Terminal No.	7	4	

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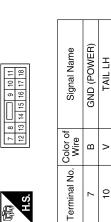
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Connector Name WIRE TO WIRE

Connector No. M200

Connector Color WHITE

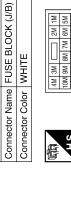
Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM) Connector Color WHITE	Connector No.	E18
Connector Color WHITE	Connector Name	
	Connector Color	WHITE



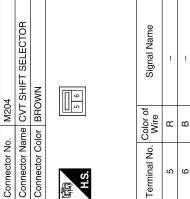






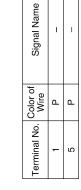


Connector No. E6











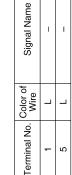


Connector Name | JOINT CONNECTOR-E03

E21

Connector No.

Connector Color GRAY

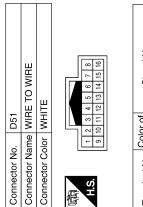


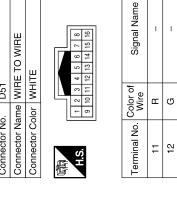
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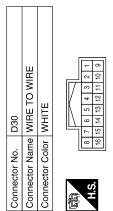
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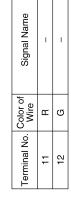
Connector No. E63 IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) Connector Color WHITE S	Connector No. R51 Connector Name FRONT ROOM/MAP LAMP ASSEMBLY Connector Color GRAY Terminal No. Color of Signal Name 6 B 8 G	A B C D
		F
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INL-45 Revision: August 2012 2013 Altima Sedan

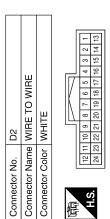




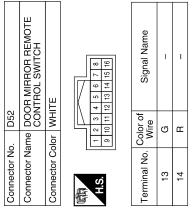




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Signal Name	I	_
Color of Wire	œ	Э
Terminal No.	19	20



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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

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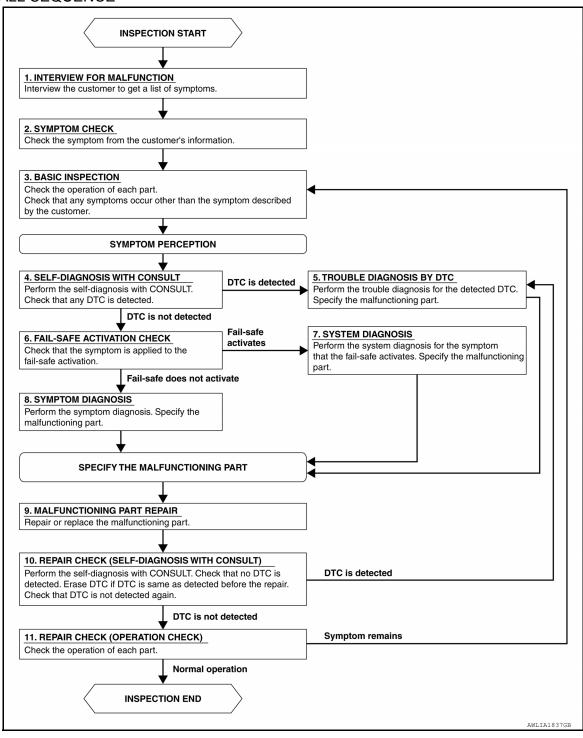
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OVERALL SEQUENCE



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.

${f 5}$. TROUBLE DIAGNOSIS BY DTC

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

>> GO TO 9.

6. FAIL-SAFE ACTIVATION CHECK

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

Does the fail-safe activate?

YES >> GO TO 7.

NO >> GO TO 8.

7. SYSTEM DIAGNOSIS

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

>> GO TO 9.

8.SYMPTOM DIAGNOSIS

Perform the symptom diagnosis, refer to INL-62, "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?

DIAGNOSIS AND REPAIR WORKFLOW < BASIC INSPECTION > YES >> GO TO 5. NO >> GO TO 11. Α 11. REPAIR CHECK (OPERATION CHECK) Check the operation of each part. В Does it operate normally? >> Inspection End YES >> GO TO 3. NO С D Е F G Н J K

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

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INFOID:0000000008681875

Regarding Wiring Diagram information, refer to BCS-52, "Wiring Diagram".

1. CHECK FUSE AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuse and fusible link No.
139	Fusible link battery power	I (40A)
131	BCM battery fuse	1 (10A)

Is the fuse or fusible link blown?

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

NO >> GO TO 2

2. CHECK POWER SUPPLY CIRCUIT

- 1. Disconnect BCM connector M21.
- 2. Check voltage between BCM connector M21 terminals 131, 139 and ground.

В	CM	Ground	Voltage (Approx.)
Connector	Terminal	Ground	(Approx.)
M21	131		Pottory voltage
IVIZ I	139	_	Battery voltage

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness or connectors.

3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M21 terminals 134, 143 and ground.

В	CM	Ground	Continuity
Connector	Terminal		Continuity
M21	134		Yes
IVIZ I	143	_	Tes

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

IPDM E/R

IPDM E/R: Diagnosis Procedure

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

1. CHECK FUSIBLE LINKS

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Check that the following fusible links are not blown.

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

Is the fusible link blown?

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

NO >> GO TO 2

$2.\,$ CHECK POWER SUPPLY CIRCUIT

- 1. Disconnect IPDM E/R connectors E16 and E17.
- 2. Check voltage between IPDM E/R connectors and ground.

IPDM E/R		Ground	Voltage (Approx.)	
Connector Terminal		Ground		
E16	1			
EIO	2	_	Battery voltage	
E17	3			

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness or connectors.

3. CHECK GROUND CIRCUIT

- 1. Disconnect IPDM E/R connectors E18 and E63.
- 2. Check continuity between IPDM E/R connectors and ground.

IPDM E	E/R	Ground	Continuity	
Connector	Terminal	Giodila	Continuity	
E18	7		Yes	
E63	41	_	165	

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

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BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

Description INFOID.000000007986934

Provides the interior room lamp power supply. Also cuts the power supply when the interior room lamp battery saver is activating.

Component Function Check

INFOID:0000000007986935

1. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY FUNCTION

(P)CONSULT

- 1. Turn ignition switch ON.
- Turn each interior room lamp ON.
- Front room/map lamps
- Personal lamps rear
- Front step lamps
- Vanity mirror lamps (if equipped)
- Trunk room lamp
- 3. Open the driver door to turn ON the front step lamps.
- 4. Select BATTERY SAVER of BCM (BATTERY SAVER) active test item.
- 5. While operating the test item, check that each interior room lamp turn ON/OFF.

OFF : Interior room lamp OFF
ON : Interior room lamp ON

Is the inspection result normal?

YES >> Interior room lamp power supply circuit is normal.

NO >> Refer to INL-52, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000007986936

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

1. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OUTPUT

CONSULT

- Turn ignition switch ON.
- Select BATTERY SAVER of BCM (BATTERY SAVER) active test item.
- 3. While operating the test item, check voltage between BCM connector M21 terminal 129 and ground.

(+)	(-) Test item		Voltage
Connector	Terminal	(-)	BATTERY SAVER	(Approx.)
M21	M21 129	Ground	OFF	0V
IVIZ I			ON	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 voltage. Refer to BCS-77, "Removal and Installation".

2.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OPEN CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect the following connectors.
- BCM M21
- Front step lamp LH D11
- Front step lamp RH D109
- Front room/map lamp assembly R51

Revision: August 2012 INL-52 2013 Altima Sedan

BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

- Vanity mirror lamp LH (if equipped) R3
- Vanity mirror lamp RH (if equipped) R9
- Trunk room lamp B36
- Personal lamp rear R50
- 3. Check continuity between BCM connector M21 terminal 129 and each interior room lamp connector.

BC	М	Each inte		Continuity	
Connector	Terminal	rminal Connector		Terminal	Continuity
	Front step lamp LH	D11	1		
		Front step lamp RH	D109	1	
		Front room/map lamp assembly	R51	8	
M21	129	Vanity mirror lamp LH	R3	2	Yes
		Vanity mirror lamp RH	R9	2	
		Trunk room lamp	B36	1	
		Personal lamp rear	R50	2	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY SHORT CIRCUIT

Check continuity between BCM connector M21 terminal 129 and ground.

В	CM		Continuity	
Connector	Connector Terminal		Continuity	
M21	129		No	

Is the inspection result normal?

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

NO >> Repair or replace harness or connectors.

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INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL CIRCUIT

Description INFOID:0000000007986937

Controls the room lamp control circuit (ground side) to turn the room lamps ON and OFF.

Component Function Check

INFOID:0000000007986938

CAUTION:

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

- Battery saver output/power supply
- Front room/map lamp assembly bulbs
- Personal lamp bulbs

${f 1}$.CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

(P)CONSULT

- 1. Switch the front room/map lamp assembly switch to DOOR.
- Turn ignition switch ON.
- 3. Select INT LAMP of BCM (INT LAMP) active test item.
- While operating the test item, check that each interior room lamp turn ON/OFF.

ON : Interior room lamp ON
OFF : Interior room lamp OFF

Is the inspection result normal?

YES >> Interior room lamp control circuit is normal. NO >> Refer to INL-54, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000007986939

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

1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

(P)CONSULT

- 1. Turn ignition switch ON.
- Select INT LAMP of BCM (INT LAMP) active test item.
- 3. While operating the test item, check voltage between BCM connector M21 terminal 136 and ground.

В	BCM		Test item	Voltago
Connector	Terminal	Ground	INT LAMP	Voltage
M21	M21 136	Oround	ON	0V
IVIZ I	130		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.

2.CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM harness connector M21, front room/map lamp harness connector R51.
- Check continuity between BCM harness connector M21 terminal 136 and front room/map lamp assembly harness connector R51 terminal 7.

INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

BCM		Front room/map lamp		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M21	136	R51	7	Yes

4. Reconnect the front room/map lamp assembly harness connector.

Check continuity between BCM harness connector M21 terminal 136 and personal lamp rear harness connector R50 terminal 3.

ВСМ		Personal	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
M21	136	R50	3	Yes

Is the inspection result normal?

YES >> Check interior room lamps for an open. If NG, replace lamp in question. Refer to INL-63, "Removal and Installation" (front room/map lamp assmbly) or refer to INL-67, "Removal and Installation" (personal lamp rear). If OK, replace BCM. Refer to BCS-77, "Removal and Installation".

NO >> Repair or replace harness or connectors.

3.CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect BCM harness connector M21and front room/map lamp harness connector R51 lamp harness.
- 3. Check continuity between BCM harness connector M21 terminal 136 and ground.

	ВСМ			Continuity
Connector Terminal		Ground	Continuity	
M21		136		No

Is the inspection result normal?

YES >> Check the interior room lamps for a short circuit. If NG, replace the interior room lamp. Refer to INL-63, "Removal and Installation" (front room/map lamp assmbly) or refer to INL-67, "Removal and Installation" (personal lamp rear). If OK, replace BCM. Refer to BCS-77, "Removal and Installation"

NO >> Repair or replace the harness or connectors.

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Revision: August 2012 INL-55 2013 Altima Sedan

STEP LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

STEP LAMP CIRCUIT

Description INFOID:000000007986940

Controls the step lamp control circuit (ground side) to turn the step lamp ON and OFF.

Component Function Check

INFOID:0000000007986941

CAUTION:

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

- Battery saver output/power supply
- Step lamp bulbs

1. CHECK STEP LAMP OPERATION

(P)CONSULT

- 1. Turn ignition switch ON.
- 2. Select STEP LAMP of BCM (INT LAMP) active test item.
- 3. While operating the test item, check that step lamps turn ON/OFF.

ON: Step lamp ON
OFF: Step lamp OFF

Is the inspection result normal?

YES >> Step lamp circuit is normal.

NO >> Refer to INL-56, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000007986942

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

1. CHECK STEP LAMP OUTPUT

(P)CONSULT

- Turn ignition switch ON.
- Select STEP LAMP TEST of BCM (INT LAMP) active test item.
- While operating the test item, check voltage between BCM connector M17 terminal 21 and ground.

В	CM		Test item	
Connector	Terminal	Ground	STEP LAMP TEST	Voltage
M17	M17 21	Glound	ON	0V
IVIT			OFF	Battery voltage

Is the inspection result normal?

YES >> Step lamp circuit is operating normally.

Fixed ON>>GO TO 3.

Fixed OFF>>GO TO 2.

2.CHECK STEP LAMP OPEN CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect BCM connector M17 and step lamp LH and RH connectors.
- 3. Check continuity between BCM connector M17 terminal 21 and step lamp connector terminal 2.

В	ВСМ		Step lamp		
Connector	Terminal	Connector		Terminal	Continuity
M17	21	LH	D11	2	Yes
IVI I 7	21	RH	D109	2	res

STEP LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Check the step lamps for an open. If OK, replace BCM. Refer to <u>BCS-77</u>, "Removal and Installation". If NG, replace the step lamp. Refer to <u>INL-66</u>, "Bulb or Lens Replacement".
- NO >> Repair or replace harness or connectors.

3.CHECK STEP LAMP SHORT CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector M17 and step lamp LH and RH connectors.
- 3. Check continuity between BCM connector M17 terminal 21 and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M17	21		No

Is the inspection result normal?

- YES >> Check the step lamps for a short circuit. If OK, replace BCM. Refer to <u>BCS-77</u>, "Removal and <u>Installation"</u>. If NG, replace the interior room lamp. Refer to <u>INL-66</u>, "Bulb or Lens Replacement".
- NO >> Repair or replace harness or connectors.

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TRUNK ROOM LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

TRUNK ROOM LAMP CIRCUIT

Description INFOID:000000007986943

Controls the trunk room lamp (ground side) to turn the trunk room lamp ON and OFF.

Component Function Check

INFOID:0000000007986944

CAUTION:

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

- Battery saver output/power supply
- Trunk room lamp bulb
- $1.\mathsf{check}$ trunk room Lamp operation

(P)CONSULT

- 1. Turn ignition switch ON.
- Select TRUNK/LUGAGE LAMP TEST of BCM (INTELLIGENT KEY) active test item.
- 3. While operating the test item, check that the trunk room lamp turns ON/OFF.

ON: Trunk room lamp ON
OFF: Trunk room lamp OFF

Is the inspection result normal?

YES >> Trunk room lamp circuit is normal.

NO >> Refer to INL-58, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000007986945

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

1. CHECK TRUNK ROOM LAMP OUTPUT

(P)CONSULT

- Turn ignition switch ON.
- Select TRUNK/LUGAGE LAMP TEST of BCM (INTELLIGENT KEY) active test item.
- 3. While operating the test item, check voltage between BCM connector M19 terminal 85 and ground.

BCM			Test item	
Connector	Terminal	Ground	TRUNK/LUGGAGE LAMP TEST	Voltage
M10	M19 85		ON	0V
WHY			OFF	Battery voltage

Is the inspection result normal?

YES >> Trunk room lamp circuit is operating normally.

Fixed ON>>GO TO 3.

Fixed OFF>>GO TO 2.

2.CHECK TRUNK ROOM LAMP OPEN CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM connector M19 and trunk room lamp connector.
- Check continuity between BCM connector M19 terminal 85 and trunk room lamp connector B36 terminal
 2.

BCM		Trunk room lamp		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M19	85	B36	2	Yes

TRUNK ROOM LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Check the trunk room lamp for an open. If OK, replace BCM. Refer to <u>BCS-77</u>, "Removal and <u>Installation"</u>. If NG, replace the trunk room lamp. Refer to <u>INL-68</u>, "Removal and <u>Installation"</u>.
- NO >> Repair or replace harness or connectors.

3. CHECK TRUNK ROOM LAMP SHORT CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector M19 and trunk room lamp connector.
- 3. Check continuity between BCM connector M19 terminal 85 and ground.

ВСМ			Continuity
Connector	Terminal	Ground	Continuity
M19	85		No

Is the inspection result normal?

- YES >> Check the trunk room lamp for a short circuit. If OK, replace BCM. Refer to BCS-77, "Removal and Installation". If NG, replace the trunk room lamp. Refer to INL-68, "Removal and Installation".
- NO >> Repair or replace harness or connectors.

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PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

Description INFOID:0000000007986946

Provides the power supply and the ground to control the push-button ignition switch illumination.

Component Function Check

INFOID:0000000007986947

$1.\mathsf{check}$ push-button ignition switch illumination operation

CONSULT

- 1. Turn the ignition switch ON.
- Select ENGINE SW ILLUMI of BCM (INTELLGENT KEY) active test item.
- While operating the test item, check that the push-button ignition switch illumination turns ON/OFF

ON : Push-button ignition switch illumination ON OFF : Push-button ignition switch illumination OFF

Is the inspection result normal?

YES >> Push-button ignition switch illumination circuit is normal.

NO >> Refer to INL-60, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000007986948

Regarding Wiring Diagram information, refer to INL-33, "Wiring Diagram".

1. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION OPERATION

CONSULT

- Turn the ignition switch ON.
- Select ENGINE SW ILLUMI of BCM (INTELLIGENT KEY) active test item.
- While operating the test item, check voltage between push-button ignition switch connector M38 terminal 5 and ground.

	Terminals		Test item		
	(+)		(-)		
Push-button	Push-button ignition switch		ENGINE SW ILLUMI	Voltage	
Connector	Terminal	Ground	ENGINE SWILLOWII		
M38	5	Ground	ON	5 V	
WISO	5		OFF	0 V	

Is the inspection result normal?

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

2.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY OPEN CIRCUIT

- Turn the ignition switch OFF.
- 2. Disconnect BCM connector M18 and push-button ignition switch connector.
- Check continuity between BCM connector M18 terminal 48 and push-button ignition switch connector M38 terminal 5.

В	BCM Push-button i		ignition switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M18	48	M38	5	Yes

Is the inspection result normal?

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3

NO >> Repair or replace the harness or connectors.

3.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY SHORT CIRCUIT

Check continuity between BCM connector M18 terminal 48 and ground.

ВСМ			Continuity
Connector	Terminal	Ground	Continuity
M18	48		No

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-77, "Removal and Installation".

NO >> Repair or replace the harness or connectors.

f 4.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION GROUND CIRCUIT

- Turn the ignition switch OFF
- 2. Disconnect push-button ignition switch connector.
- 3. Check continuity between push-button ignition switch connector M38 terminal 6 and ground.

Push-button	Push-button ignition switch		Continuity
Connector	Terminal	Ground	Continuity
M38	6		Yes

Is the inspection result normal?

YES >> Replace push-button ignition switch.

NO >> GO TO 5

5. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION GROUND OPEN CIRCUIT

- 1. Disconnect BCM connector M20.
- Check continuity between BCM connector M20 terminal 107 and push-button ignition switch connector M38 terminal 6.

В	CM	Push-button	ignition switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M20	107	M38	6	Yes

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-77, "Removal and Installation".

NO >> Repair or replace the harness or connectors.

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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 the following lamps do not turn ON. Front room/map lamp LH/RH Personal lamp rear LH/ RH Trunk room lamp Front step lamp LH/RH Vanity mirror lamp LH/RH (if equipped)	Harness between BCM and each interior room lamp BCM	Battery saver output/power supply circuit Refer to INL-52.
 Interior room lamp does not turn ON even though the door is open. (It turns ON when turning the interior room lamp ON.) Interior room lamp does not turn OFF even though the door is closed. 	Harness between BCM and each door switch Harness between BCM and each interior room lamp BCM	Door switch circuit Refer to DLK-99. Interior room lamp control circuit Refer to INL-54.
Interior room lamp timer does not activate. (It turns ON/ OFF when the door opens/closes.)	_	Check the interior room lamp setting. Refer to <u>BCS-16</u> .
Front step lamps do not turn ON. (The front room/map lamps and the personal lamps turn ON.)	Harness between BCM and each step lamp	Step lamp circuit
Front step lamps do not turn OFF. (The front room/map lamps and the personal lamps turn OFF.)	• BCM	Refer to INL-56.
Trunk room lamp does not turn ON.	Harness between BCM and trunk room lamp switch	Trunk room lamp switch circuit Refer to <u>DLK-125</u> .
(The bulb is normal.)Trunk room lamp does not turn OFF.	Harness between BCM and trunk room lamp BCM	Trunk room lamp circuit Refer to INL-58.
Push-button ignition switch illumination does not turn ON.	Harness between BCM and combi- nation switch (lighting and turn sig- nal switch)	Combination switch (lighting and turn signal switch) input circuit Refer to BCS-76.
 Push-button ignition switch illumination does not turn OFF. 	Harness between BCM and push- button ignition switch BCM	Push-button ignition switch illumination circuit Refer to INL-60.
Interior room lamp battery saver does not activate.	_	Check the interior room lamp battery saver setting. Refer to BCS-25.

FRONT ROOM/MAP LAMP

< REMOVAL AND INSTALLATION >

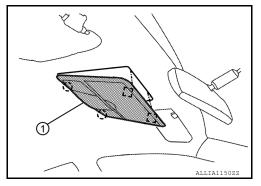
REMOVAL AND INSTALLATION

FRONT ROOM/MAP LAMP

Removal and Installation

REMOVAL

- 1. Lower front edge of front room/map lamp assembly (1) down from the headlining by releasing the metal clips, then slide forward to clear pawls at rear.
 - : Metal clip
 - (Pawl



Disconnect the harness connectors from the front room/map lamp assembly and remove.

INSTALLATION

Installation is in the reverse order of removal.

Bulb Replacement

The front room/map lamp LED bulbs are serviced as an assembly. Refer to INL-63, "Removal and Installation".

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VANITY MIRROR LAMP

< REMOVAL AND INSTALLATION >

VANITY MIRROR LAMP

Removal and Installation

INFOID:0000000008748310

CAUTION:

Do not attempt to separate the vanity mirror lamp from the sun visor or damage to the components may occur.

The vanity mirror lamp is replaced as part of the sun visor. Refer to INT-30. "Removal and Installation".

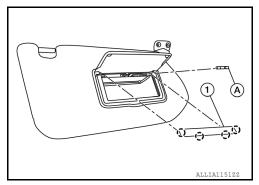
Bulb or Lens Replacement

INFOID:0000000008748311

WARNING:

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

- Do not attempt to separate the vanity mirror lamp from the sun visor or damage to the components may occur.
- 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.
- Release the pawls on the vanity mirror lamp lens (1) using a suitable tool.
 - (): Pawl
- 2. Remove the bulb (A) using a suitable tool.



- 3. Install bulb to vanity mirror lamp.
- 4. Install the vanity mirror lamp lens.

GLOVE BOX LAMP

< REMOVAL AND INSTALLATION >

GLOVE BOX LAMP

Removal and Installation

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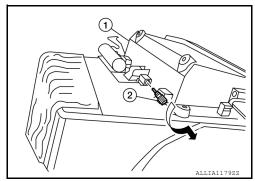
WARNING:

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.

REMOVAL

- 1. Remove the glove box assembly (1). Refer to <u>IP-22, "Removal and Installation"</u>.
- Rotate the glove box lamp socket assembly (2) counterclockwise and remove.



INSTALLATION

- 1. Insert bulb socket into glove box assembly and rotate clockwise to lock in position.
- 2. Install glove box assembly. Refer to IP-22, "Removal and Installation".

Bulb Replacement

INFOID:0000000008769732

The glove box lamp bulb is serviced as part of the glove box lamp socket. Refer to INL-65, "Removal and <a href="Installation".

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STEP LAMP

Bulb or Lens Replacement

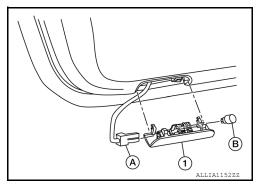
INFOID:0000000008748315

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.

- 1. Release the front step lamp pawls using a suitable tool and remove.
- 2. Disconnect the harness connector (A) from the front step lamp (1).
- 3. Remove front step lamp bulb (B).



- 4. Install the front step lamp bulb.
- 5. Connect the harness connector to the front step lamp.
- 6. Install the front step lamp.

PERSONAL LAMP

< REMOVAL AND INSTALLATION >

PERSONAL LAMP

Removal and Installation

INFOID:0000000008748318

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CAUTION:

Do not attempt to separate the personal lamp rear from the headlining or damage to the components may occur.

The personal lamp rear is replaced as part of the headlining. Refer to INT-30, "Removal and Installation".

Bulb or Lens Replacement

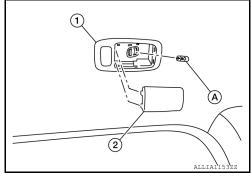
INFOID:0000000008748319

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.

- 1. Using a suitable tool, release the pawls and remove lens (2) from the personal lamp rear (1).
- 2. Remove personal lamp rear bulb (A).



- 3. Install personal lamp bulb to personal lamp rear.
- 4. Install the personal lamp rear lens.

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TRUNK ROOM LAMP

< REMOVAL AND INSTALLATION >

TRUNK ROOM LAMP

Removal and Installation

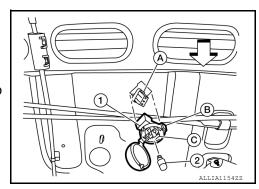
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WARNING:

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.

- 1. Release the tab (B) to open the lens. ⟨⊐: Front
- 2. Remove the trunk room bulb (2).
- 3. Release tab (C), then pull trunk room lamp (1) down to remove.
- 4. Disconnect the harness connector (A) from the trunk room lamp and remove.



INSTALLATION

Installation is in the reverse order of removal.

Bulb Replacement

INFOID:0000000008748322

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.

- 1. Release the tab to open the lens.
- 2. Remove bulb from trunk room lamp.
- 3. Install bulb to trunk room lamp.
- 4. Close lens.

ILLUMINATION CONTROL SWITCH

< REMOVAL AND INSTALLATION >

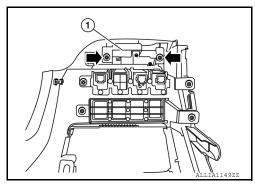
ILLUMINATION CONTROL SWITCH

Removal and Installation

INFOID:0000000008748323

REMOVAL

- 1. Remove the instrument lower panel LH. Refer to IP-21, "Removal and Installation".
- Remove screws (←) and remove illumination control (1).



INSTALLATION

Installation is in the reverse order of removal.

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SERVICE DATA AND SPECIFICATIONS (SDS)

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SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

INFOID:0000000007986965

Item	Wattage (W)*
Front room/map lamp	LED
Vanity mirror lamp	1.8
Glove box lamp	-
Front step lamp	3.8
Personal lamp rear	8
Trunk room lamp	3.4

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