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PRECAUTIONS

< PRECAUTION > [BCM]

PRECAUTION

PRECAUTIONS

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

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

WARNING:

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

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

WARNING:

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

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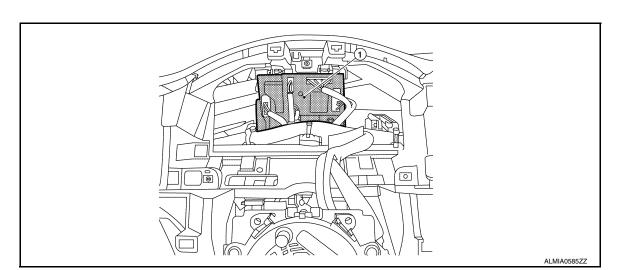
Revision: November 2013 BCS-3 2014 Altima NAM

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SYSTEM DESCRIPTION

COMPONENT PARTS
BODY CONTROL SYSTEM

BODY CONTROL SYSTEM: Component Parts Location



BCM (view with combination meter removed)

COMBINATION SWITCH READING SYSTEM

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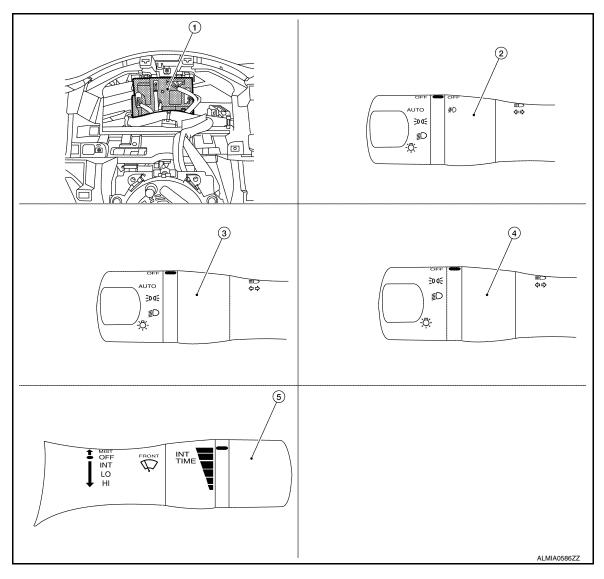
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COMBINATION SWITCH READING SYSTEM : Component Parts Location

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- BCM (view with combination meter removed)
- Combination switch (lighting and turn signal) (without auto light system and front fog lamps)
- Combination switch (lighting and turn signal) (with auto light system and front fog lamps)
- 5. Combination switch (wiper and washer)
- Combination switch (lighting and turn signal) (with auto light system, without front fog lamps)

POWER CONSUMPTION CONTROL SYSTEM

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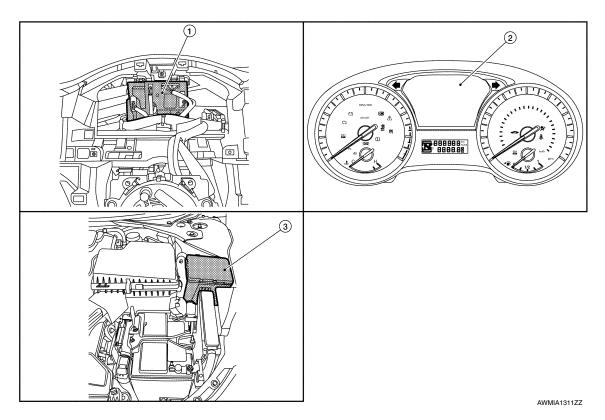
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POWER CONSUMPTION CONTROL SYSTEM : Component Parts Location

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- BCM (view with combination meter 2. Combination meter removed)
- 3. IPDM E/R

SYSTEM

BODY CONTROL SYSTEM

BODY CONTROL SYSTEM: System Description

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OUTLINE

- BCM (body control module) controls various electrical components. It receives the information required from CAN communication and the signals received from each switch and sensor.
- BCM has a combination switch reading function for reading the status of combination switches (light, turn signal, wiper and washer) in addition to functions for controlling the operation of various electrical components. It also has a signal transmission function for other systems, and a power consumption control function that reduces the power consumption with the ignition switch OFF.
- BCM is equipped with a diagnosis function that operates with CONSULT and allows for various settings to be changed.

BCM FUNCTION LIST

System	Refer to
Combination switch reading system	BCS-8, "COMBINATION SWITCH READING SYSTEM: System Description"
Signal buffer system	BCS-12, "SIGNAL BUFFER SYSTEM : System Description"
Power consumption control system	BCS-12. "POWER CONSUMPTION CONTROL SYSTEM: System Description"
Auto light system (if equipped)	EXL-10. "AUTO LIGHT SYSTEM : System Description"
Headlamp system	EXL-9, "HEADLAMP SYSTEM : System Description"
Daytime light system (if equipped)	EXL-11, "DAYTIME RUNNING LIGHT SYSTEM: System Description"
Front fog lamp system (if equipped)	EXL-11, "FRONT FOG LAMP SYSTEM : System Description"
Turn signal and hazard warning lamps system	EXL-12, "TURN SIGNAL AND HAZARD WARNING LAMPS : System Description"
Parking, license plate and tail lamps system	EXL-12, "PARKING, LICENSE PLATE AND TAIL LAMPS : System Description"
Exterior lamp battery saver system	EXL-9, "HEADLAMP SYSTEM : System Description"
Interior room lamp battery saver system	INL-7, "System Description"
Interior room lamp control system	INL-7. "System Description"
Front wiper and washer system	WW-6, "System Description"
Warning chime system	WCS-6, "WARNING CHIME SYSTEM: System Description"
Door lock system	DLK-21, "System Description"
Trunk open system	DLK-41, "System Description"
Nissan vehicle immobilizer system (NVIS)	SEC-14, "NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS: System Description"
Vehicle security system	SEC 16 "VEHICLE SECLIDITY SYSTEM - System Description"
Panic alarm	SEC-16, "VEHICLE SECURITY SYSTEM : System Description"
Rear window defogger system	DEF-7, "System Description"

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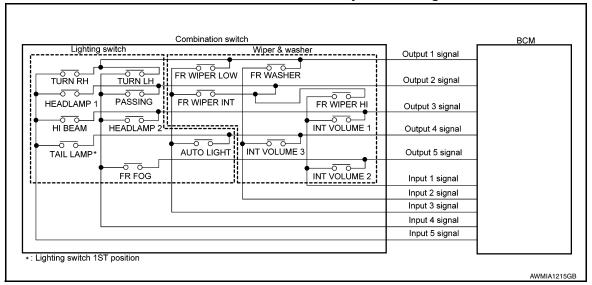
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System		Refer to			
Intelligent Key system/engine start system	Door lock function	DLK-24, "DOOR LOCK FUNCTION: System Description" (door request switch) (if equipped) DLK-24, "DOOR LOCK FUNCTION: System Description" (Intelligent Key)			
	Trunk open function	DLK-37, "TRUNK LID OPENER SYSTEM : System Description" (Intelligent Key)			
	Warning function	DLK-33, "WARNING FUNCTION : System Description"			
	Key reminder function	DLK-29, "KEY REMINDER FUNCTION : System Description"			
	Engine start function	SEC-11, "INTELLIGENT KEY SYSTEM/ENGINE START FUNC-TION: System Description"			
Power window system		PWC-10, "System Description" (LH front only anti-pinch) PWC-72, "System Description" (LH & RH front anti-pinch)			
RAP (retained accessory power) system		BCS-28, "RETAINED PWR : CONSULT Function (BCM - RE-TAINED PWR)"			
TPMS (tire pressure monitoring system)		WT-9, "System Description"			

COMBINATION SWITCH READING SYSTEM

COMBINATION SWITCH READING SYSTEM: System Diagram

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COMBINATION SWITCH READING SYSTEM: System Description

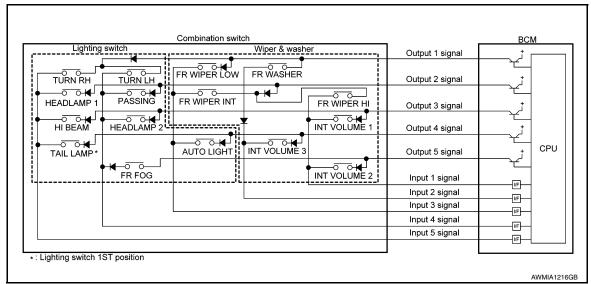
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OUTLINE

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

COMBINATION SWITCH MATRIX

Combination switch circuit



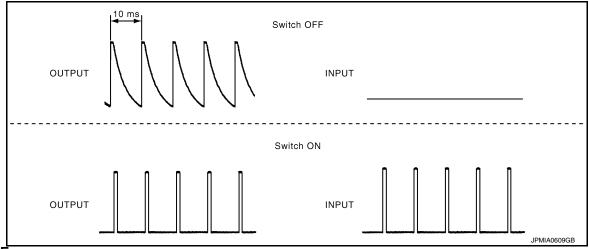
Combination switch INPUT-OUTPUT system list

COMMUNICATION CONTROLL		• •			
System	INPUT 1	INPUT 2	INPUT 2 INPUT 3		INPUT 5
OUTPUT 1	_	FR WASHER FR WIPER LOW		TURN LH	TURN RH
OUTPUT 2	FR WIPER HI	_	FR WIPER INT	PASSING	HEADLAMP 1
OUTPUT 3	INT VOLUME 1	_	_	HEADLAMP 2	HI BEAM
OUTPUT 4	_	INT VOLUME 3	AUTO LIGHT	_	TAIL LAMP
OUTPUT 5	INT VOLUME 2	_	_	FR FOG	_

COMBINATION SWITCH READING FUNCTION

Description

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



NOTE:

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

- BCM operates as follows and judges the status of the combination switch.
- It operates the transistor on OUTPUT side in the following order: OUTPUT 1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 5, and outputs voltage waveform.
- The voltage waveform of OUTPUT corresponding to the formed circuit is input into the interface on INPUT side if any (1 or more) switches are ON.

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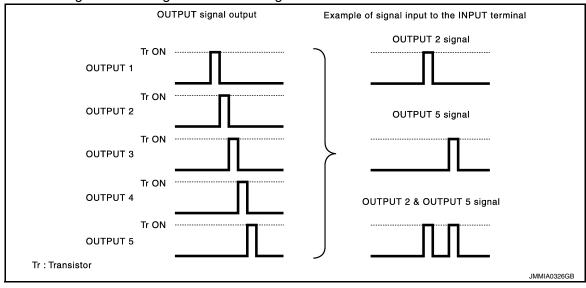
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- It reads this change of the voltage as the status signal of the combination switch.

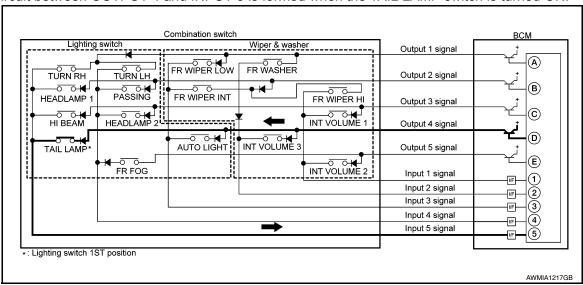


Operation Example

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

Example 1: When a switch (TAIL LAMP) is turned ON

• The circuit between OUTPUT 4 and INPUT 5 is formed when the TAIL LAMP switch is turned ON.



- BCM detects the combination switch status signal "5D" when the signal of OUTPUT 4 is input to INPUT 5.
- BCM judges that the TAIL LAMP switch is ON when the signal "5D" is detected.

Example 2: When some switches (TURN RH, TAIL LAMP) are turned ON

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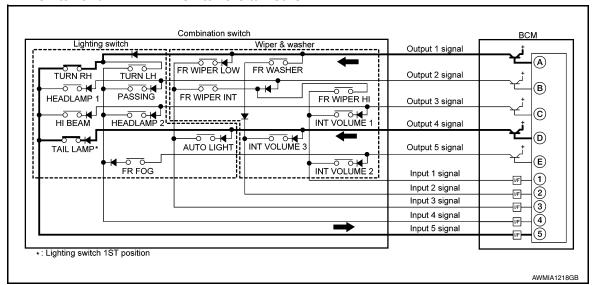
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The circuits between OUTPUT 1 and INPUT 5 and between OUTPUT 4 and INPUT 5 are formed when the TURN RH switch and TAIL LAMP switch are turned ON.



- BCM detects the combination switch status signal "5AD" when the signals of OUTPUT 1 and OUTPUT 4 are input to INPUT 5.
- BCM judges that the TURN RH switch and TAIL LAMP switch are ON when the signal "5AD" is detected.

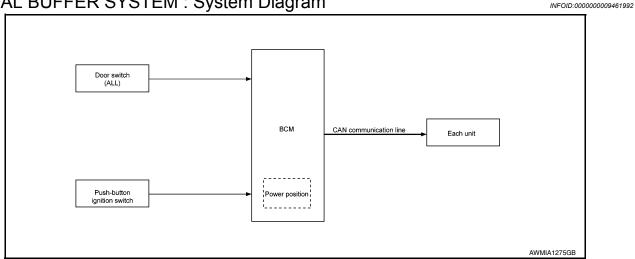
WIPER INTERMITTENT DIAL POSITION SETTING

BCM judges the wiper intermittent dial 1 - 7 by the status of INT VOLUME 1, 2, and 3 switches.

Wiper intermittent	Switch status					
dial position	INT VOLUME 1	INT VOLUME 2	INT VOLUME 3			
1	ON	ON	ON			
2	ON	ON	OFF			
3	ON	OFF	OFF			
4	OFF	OFF	OFF			
5	OFF	OFF	ON			
6	OFF	ON	ON			
7	OFF	ON	OFF			

SIGNAL BUFFER SYSTEM

SIGNAL BUFFER SYSTEM: System Diagram



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SIGNAL BUFFER SYSTEM: System Description

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OUTLINE

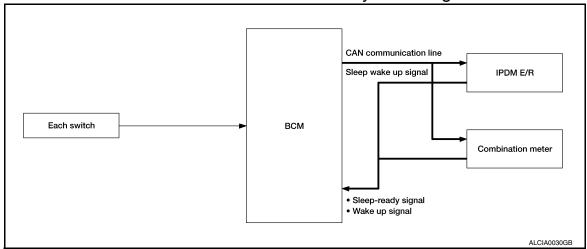
BCM has the signal transmission function that outputs/transmits each input/received signal to each unit. Signal transmission function list

Signal name	Input	Output	Description
 Ignition switch ON signal Ignition switch signal	Finding switch (bligh switch) IPI IWI F/R (CAN)		Inputs the push-button ignition switch (push switch) signal and transmits the ignition switch status judged with BCM via CAN communication.
Door switch signal	Any door switch	Combination meter (CAN) IPDM E/R (CAN)	Inputs the door switch signal and transmits it via CAN communication.

POWER CONSUMPTION CONTROL SYSTEM

POWER CONSUMPTION CONTROL SYSTEM: System Diagram

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POWER CONSUMPTION CONTROL SYSTEM: System Description

INFOID:0000000009461995

OUTLINE

- BCM incorporates a power saving control function that reduces the power consumption according to the vehicle status.
- BCM switches the status (control mode) by itself with the power saving control function. It performs the sleep request to each unit (IPDM E/R and combination meter) that operates with the ignition switch OFF.

Normal mode (wake-up)

- CAN communication is normally performed with other units
- Each control with BCM is operating properly

CAN communication sleep mode (CAN sleep)

- CAN transmission is stopped
- Control with BCM only is operating

Low power consumption mode (BCM sleep)

- Low power consumption control is active
- CAN transmission is stopped

LOW POWER CONSUMPTION CONTROL WITH BCM

BCM reduces the power consumption with the following operation in the low power consumption mode.

The reading interval of each switch changes from 10 ms interval to 60 ms interval.

Sleep mode activation

SYSTEM

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- BCM receives the sleep-ready signal (ready) from IPDM E/R and combination meter via CAN communication.
- BCM transmits the sleep wake up signal (sleep) to each unit when all of the CAN sleep conditions are fulfilled.
- Each unit stops the transmission of CAN communication with the sleep wakeup signal. BCM is in CAN communication sleep mode.
- BCM is in the low power consumption mode and performs the low power consumption control when all of the BCM sleep conditions are fulfilled with CAN sleep condition.

Sleep condition

CAN sleep condition	BCM sleep condition
Receiving the sleep-ready signal (ready) from all units Ignition switch: OFF Vehicle security system alarm and panic alarm: No operation Warning lamp: Not operation Intelligent Key system buzzer: No operation Brake switch: OFF Turn signal indicator lamp: No operation Exterior lamp: OFF Door lock status: No change CONSULT communication status: No communication Meter display signal: Non-transmission Door switch status: No change Rear window defogger: OFF	Interior room lamp battery saver: Time out RAP system: OFF Power window switch communication: No transmission Push-button ignition switch (push switch) illumination: OFF NATS: No operation Remote keyless entry receiver communication status: No communication Tire pressure monitoring system: Stop

Wake-up operation

- BCM changes from the low power consumption mode to the CAN communication sleep mode when the any of the BCM wake-up conditions are fulfilled. Only the control with BCM is activated.
- BCM transmits the sleep wake up signal (wake up) to each unit when any of the CAN wake-up conditions
 are fulfilled. It changes from the low power consumption mode or the CAN communication sleep mode to the
 normal mode.
- Each unit starts the transmission of CAN communication with the sleep wake up signal. In addition, the combination meter transmits the wake up signal to BCM via CAN communication to report the CAN communication start.

BCM wake-up condition	CAN wake-up condition
 Door unlock sensor: OFF→ON, ON→OFF Door lock assembly LH (key cylinder switch): Lock or unlock Door lock switch: OFF→ON Door unlock switch: OFF→ON Trunk opener switch: OFF→ON Power window serial link communication: Receiving Remote keyless entry receiver: Receiving valid keyfob 	 Receiving the sleep-ready signal (Not-ready) from any units Push-button ignition switch (push switch): OFF→ON Hazard switch: OFF→ON PASSING switch: OFF→ON, ON→OFF TAIL LAMP switch: OFF→ON Driver door switch: OFF→ON, ON→OFF Passenger door switch: OFF → ON, ON → OFF Trunk switch: OFF→ON, ON→OFF Driver door request switch (if equipped): OFF→ON Passenger door request switch (if equipped): OFF→ON Stop lamp switch 2 signal: ON Remote keyless entry receiver: Receiving valid keyfob

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DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000009461996

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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

SYSTEM APPLICATION

BCM can perform the following functions.

				Direct [Diagnosti	c Mode		
System	Sub System	Ecu Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr
Door lock	DOOR LOCK		×	×	×	×		
Rear window defogger	REAR DEFOGGER			×	×	×		
Warning chime	BUZZER			×	×			
Interior room lamp timer	INT LAMP			×	×	×		
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			×	×	×		

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		Direct Diagnostic Mode						
System	Sub System	Ecu Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr
RAP system	RETAINED PWR			×				
Signal buffer system	SIGNAL BUFFER			×				
TPMS	AIR PRESSURE MONITOR		×	×	×	×		

DOOR LOCK

DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)

INFOID:0000000009461997

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

SELF DIAGNOSTIC RESULT

Refer to BCS-52, "DTC Index".

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.	_
REQ SW-BD/TR [On/Off]	Indicates condition of trunk opener request switch.	_
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.	
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.	
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.	_
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.	
DOOR SW-BK [On/Off]	Indicates condition of 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.	

ACTIVE TEST

Test Item	Description
DOOR LOCK	This test is able to check door lock operation [ALL LOCK/ALL UNLK].

WORK SUPPORT

Support Item	Setting	Description
DOOR LOCK-UNLOCK SET	On*	Automatic door locks function ON.
DOOR LOCK-UNLOCK SET	Off	Automatic door locks function OFF.
AUTO UNLOCK TYPE	MODE2	Driver door only unlocks automatically.
AUTO UNLOCK TIFE	MODE1*	All doors unlock automatically.

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Support Item	Setting	Description
	MODE3	This mode is not used.
AUTO LOCK FUNCTION	MODE2	Doors lock automatically when shifted out of P (park).
AUTO LOCK FUNCTION	MODE1*	Doors lock automatically when vehicle speed reaches 24 km/h (15 mph).
	Off	_
	MODE3	This mode is not used.
AUTO UNLOCK FUNCTION	MODE2	Doors unlock automatically when shifted into P (park).
AUTO UNLOCK FUNCTION	MODE1*	Doors unlock automatically when ignition is switched from ON to OFF.
	Off	_

^{*:} Initial setting

REAR DEFOGGER

REAR DEFOGGER: CONSULT Function (BCM - REAR DEFOGGER)

INFOID:0000000009461998

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

DATA MONITOR

Monitor Item [Unit]	Description
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.
REAR DEF SW [On/Off]	Indicates condition of rear window defogger switch.

ACTIVE TEST

Test Item	Description
REAR DEFOGGER	This test is able to check rear window defogger operation [Off/On].

WORK SUPPORT

Support Item	Setting	Description
	MODE3	Rear defogger turns OFF after 1 minute.
SET R-DEF TIMER	MODE2	Rear defogger remains ON until turned OFF.
	MODE1*	Rear defogger turns OFF after 15 minutes.

^{*:} Initial setting

BUZZER

BUZZER: CONSULT Function (BCM - BUZZER)

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CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

DATA MONITOR

Monitor Item [Unit]	Description
PUSH -SW [On/Off]	Indicates condition of push-button ignition switch.
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor.
VEH SPEED 1 [km/h]	Indicates vehicle speed signal received from ABS on CAN communication line.

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Monitor Item [Unit]	Description	
TAIL LAMP SW [On/Off]	Indicates condition of combination switch.	
FR FOG SW [On/Off]	Indicates condition of front fog lamp switch.	
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.	
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.	

ACTIVE TEST

Test Item	Description
SEAT BELT WARN TEST	This test is able to check seat belt warning chime operation [On/Off].
LIGHT WARN ALM	This test is able to check light warning chime operation [On/Off].
REVERSE WARNING	This test is able to check reverse warning chime operation [On/Off].
ID REGIST WARNING	This test is able to check TPMS transmitter ID regist warning chime operation [On/Off].

INT LAMP

INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:0000000009462000

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

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

NOTE:

The items listed below are the only applicable Work Support items for this vehicle. If other items are displayed on CONSULT, do not use or change the setting for these other items.

Support Item	Setting	Description
SCENARIO LIGHTING SETTING	On	NOTE:
SCENARIO LIGHTING SETTING	Off*	Do not use this function since interior room lamp control is changed.
SET I/L D-UNLCK INTCON	On	Interior room lamp timer function ON.
SET I/E D-ONEON 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

MULTI REMOTE ENT

MULTI REMOTE ENT: CONSULT Function (BCM - MULTI REMOTE ENT)

INFOID:0000000009462001

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

DATA MONITOR

Monitor Item [Unit]	Description
RKE-LOCK [On/Off]	Indicates condition of lock signal from keyfob.
RKE-UNLOCK [On/Off]	Indicates condition of unlock signal from keyfob.
RKE-TR/BD [On/Off]	Indicates condition of trunk release signal from keyfob.
RKE-PANIC [On/Off]	Indicates condition of panic signal from keyfob.
RKE-P/W OPEN [On/Off]	Indicates condition of power window down signal from keyfob.
RKE-MODE CHG [On/Off]	Indicates condition of mode change signal from keyfob.
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.
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.

ACTIVE TEST

Test Item	Description
INT LAMP	This test is able to check interior room lamp operation [On/Off].
DOOR LOCK	This test is able to check door lock operation [OTR ULK/AS UNLK/DR UNLK/ALL ULK/ALL LCK].
PW REMOTO DOWN SET	This test is able to check keyfob power window down operation [Off/On].
FLASHER	This test is able to check hazard reminder operation [Off/LH/RH].
HORN	This test is able to check horn operation [On].
TRUNK/GLASS HATCH	This test is able to check trunk open operation [Open].

WORK SUPPORT

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Support Item		Setting	Description	
DOOR LOCK-UNLOCK SET	On*		Automatic door locks function ON.	
DOOR LOCK-UNLOCK SET	Off		Automatic door locks function OFF.	
LIODA CUIDO OST	Off		Harn shirn function can be shanged in this made	
HORN CHIRP SET	On*		Horn chirp function can be changed in this mode.	
	MODE4*	Lock and Unlock		
HAZARD LAMP SET	MODE3	Lock Only	Howard warning laws function can be abanded in this made	
HAZARD LAWP SET	MODE2	Unlock Only	Hazard warning lamp function can be changed in this mode.	
	MODE1	OFF		
	MODE3	1 min		
AUTO LOCK SET	MODE2	OFF	Auto locking function can be changed in this mode.	
	MODE1*	5 min		
	MODE3	1.5 sec		
PANIC ALRM SET	MODE2	OFF	Panic alarm operation can be changed in this mode.	
	MODE1*	0.5 sec		
	MODE3	5 sec		
PW DOWN SET	MODE2	OFF	Keyfob power window down can be changed in this mode.	
	MODE1*	3 sec		

^{*:} Initial setting

HEADLAMP

HEADLAMP: CONSULT Function (BCM - HEADLAMP)

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

DATA MONITOR

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

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< SYSTEM DESCRIPTION >

[BCM]

Monitor Item [Unit]	Description
DOOR SW-BK [On/Off]	Indicates condition of trunk switch.
OPTI SEN (DTCT) [V]	Indicates outside brightness voltage signal from optical sensor.
OPTI SEN (FILT) [V]	Indicates outside brightness voltage signal from optical sensor filtered by BCM.

ACTIVE TEST

Test Item	Description
FR FOG LAMP	This test is able to check front fog lamp operation [On/Off].
DAYTIME RUNNING LIGHT	This test is able to check daytime running lamp operation [On/Off].
ILL DIM SIGNAL	This test is able to check head lamp illumination dimming operation [On/Off].

WORK SUPPORT

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

^{* :} Initial setting

WIPER

WIPER: CONSULT Function (BCM - WIPER)

INFOID:0000000009462003

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

DATA MONITOR

Monitor Item [Unit]	Description
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.
VEH SPEED 1 [km/h]	Indicates vehicle speed signal received from ABS on CAN communication line.

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Monitor Item [Unit]		Description	
FR WIPER HI [On/Off]		· · · · · · · · · · · · · · · · · · ·	
FR WIPER LOW [On/Off]		Indicates condition of wiper operation of combination switch.	
FR WASHER SW [On/Off]	Indicates		
FR WIPER INT [On/Off]			
FR WIPER STOP [On/Off]	Indicates line.	Indicates front wiper auto stop signal received from IPDM E/R on CAN communication line.	
INT VOLUME [1 – 7]	Indicates	Indicates condition of intermittent wiper operation of combination switch.	
ACTIVE TEST	1		
Test Item		Description	
FR WIPER	This test is	s able to check front wiper operation [Hi/Lo/INT/Off].	
WORK SUPPORT			
Support Item	Setting	Description	
	On	Front wiper intermittent time linked with vehicle speed and wiper dial position.	
WIPER SPEED SETTING	Off*	Front wiper intermittent time linked with wiper dial position.	
be cycled OFF $ ightarrow$ ON (for at le	SULT vehicle east 5 second	CM - FLASHER) interface (VI) from the data link connector, the ignition must is) → OFF. If this step is not performed, the BCM may not go charged battery and a no-start condition.	
CAUTION: After disconnecting the CONS be cycled OFF $ ightarrow$ ON (for at le	SULT vehicle east 5 second	interface (VI) from the data link connector, the ignition must s) \rightarrow OFF. If this step is not performed, the BCM may not go	
CAUTION: After disconnecting the CONS be cycled OFF $ ightarrow$ ON (for at le to "sleep mode", potentially o	SULT vehicle east 5 second	interface (VI) from the data link connector, the ignition must s) \rightarrow OFF. If this step is not performed, the BCM may not go	
CAUTION: After disconnecting the CONS be cycled OFF → ON (for at le to "sleep mode", potentially o	SULT vehicle east 5 second causing a disc	interface (VI) from the data link connector, the ignition must is) \rightarrow OFF. If this step is not performed, the BCM may not go charged battery and a no-start condition.	
CAUTION: After disconnecting the CONS be cycled OFF → ON (for at le to "sleep mode", potentially o DATA MONITOR Monitor Item [Unit]	SULT vehicle east 5 second causing a disc	interface (VI) from the data link connector, the ignition must s) → OFF. If this step is not performed, the BCM may not go charged battery and a no-start condition. Description	
CAUTION: After disconnecting the CONS be cycled OFF → ON (for at le to "sleep mode", potentially of DATA MONITOR Monitor Item [Unit] REQ SW -DR [On/Off]	SULT vehicle east 5 second causing a disc Indicates	interface (VI) from the data link connector, the ignition must s) → OFF. If this step is not performed, the BCM may not go charged battery and a no-start condition. Description condition of door request switch LH.	
CAUTION: After disconnecting the CONS be cycled OFF → ON (for at le to "sleep mode", potentially of DATA MONITOR Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off]	SULT vehicle east 5 second causing a disc Indicates Indicates Indicates	interface (VI) from the data link connector, the ignition must is) → OFF. If this step is not performed, the BCM may not go charged battery and a no-start condition. Description condition of door request switch LH. condition of door request switch RH. condition of push-button ignition switch.	
CAUTION: After disconnecting the CONS be cycled OFF → ON (for at le to "sleep mode", potentially of DATA MONITOR Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off] PUSH SW [On/Off]	SULT vehicle east 5 second causing a disc Indicates Indicates Indicates	interface (VI) from the data link connector, the ignition must (s) → OFF. If this step is not performed, the BCM may not go charged battery and a no-start condition. Description condition of door request switch LH. condition of door request switch RH.	
CAUTION: After disconnecting the CONS be cycled OFF → ON (for at le to "sleep mode", potentially of DATA MONITOR Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off] PUSH SW [On/Off] TURN SIGNAL R [On/Off]	SULT vehicle east 5 second causing a disc Indicates Indicates Indicates Indicates	interface (VI) from the data link connector, the ignition must is) → OFF. If this step is not performed, the BCM may not go charged battery and a no-start condition. Description condition of door request switch LH. condition of door request switch RH. condition of push-button ignition switch.	
CAUTION: After disconnecting the CONS be cycled OFF → ON (for at le to "sleep mode", potentially of DATA MONITOR Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off] PUSH SW [On/Off] TURN SIGNAL R [On/Off]	SULT vehicle east 5 second causing a disc Indicates Indicates Indicates Indicates Indicates Indicates	interface (VI) from the data link connector, the ignition must s) → OFF. If this step is not performed, the BCM may not go charged battery and a no-start condition. Description condition of door request switch LH. condition of door request switch RH. condition of push-button ignition switch.	
CAUTION: After disconnecting the CONS be cycled OFF → ON (for at le to "sleep mode", potentially of DATA MONITOR Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off] PUSH SW [On/Off] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] HAZARD SW [On/Off]	SULT vehicle east 5 second causing a disc Indicates Indicates Indicates Indicates Indicates Indicates Indicates Indicates	interface (VI) from the data link connector, the ignition must (s) → OFF. If this step is not performed, the BCM may not go charged battery and a no-start condition. Description condition of door request switch LH. condition of door request switch RH. condition of push-button ignition switch. condition of turn signal function of combination switch. condition of hazard switch.	
CAUTION: After disconnecting the CONS be cycled OFF → ON (for at le to "sleep mode", potentially of DATA MONITOR Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off] PUSH SW [On/Off] TURN SIGNAL R [On/Off] HAZARD SW [On/Off] RKE-LOCK [On/Off]	SULT vehicle east 5 second causing a disc Indicates	interface (VI) from the data link connector, the ignition must s) → OFF. If this step is not performed, the BCM may not go charged battery and a no-start condition. Description condition of door request switch LH. condition of door request switch RH. condition of push-button ignition switch. condition of turn signal function of combination switch. condition of hazard switch. condition of lock signal from Intelligent Key.	
CAUTION: After disconnecting the CONS be cycled OFF → ON (for at le to "sleep mode", potentially of DATA MONITOR Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off] PUSH SW [On/Off] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] HAZARD SW [On/Off] RKE-LOCK [On/Off]	SULT vehicle east 5 second causing a disc Indicates	interface (VI) from the data link connector, the ignition must s) → OFF. If this step is not performed, the BCM may not go charged battery and a no-start condition. Description condition of door request switch LH. condition of door request switch RH. condition of push-button ignition switch. condition of turn signal function of combination switch. condition of hazard switch. condition of lock signal from Intelligent Key. condition of unock signal from Intelligent Key.	
CAUTION: After disconnecting the CONS be cycled OFF → ON (for at le to "sleep mode", potentially of DATA MONITOR Monitor Item [Unit] REQ SW -DR [On/Off] REQ SW -AS [On/Off] PUSH SW [On/Off] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] HAZARD SW [On/Off] RKE-LOCK [On/Off] RKE-UNLOCK [On/Off] RKE-PANIC [On/Off]	SULT vehicle east 5 second causing a disc Indicates	interface (VI) from the data link connector, the ignition must s) → OFF. If this step is not performed, the BCM may not go charged battery and a no-start condition. Description condition of door request switch LH. condition of door request switch RH. condition of push-button ignition switch. condition of turn signal function of combination switch. condition of hazard switch. condition of lock signal from Intelligent Key. condition of unock signal from Intelligent Key.	

AIR CONDITIONER

AIR CONDITIONER : CONSULT Function (BCM - AIR CONDITIONER) INFOID-00000009462005

CAUTION:

< SYSTEM DESCRIPTION >

[BCM]

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

DATA MONITOR

Monitor Item [Unit]	Description
FAN ON SIG [On/Off]	Indicates condition of fan switch.
AIR COND SW [On/Off]	Indicates condition of A/C switch.

INTELLIGENT KEY

INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)

INFOID:0000000009462006

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

SELF DIAGNOSTIC RESULT Refer to BCS-52, "DTC Index".

DATA MONITOR

Monitor Item [Unit]	Main	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.
REQ SW -BD/TR [On/Off]	×	Indicates condition of trunk opener request switch.
PUSH SW [On/Off]		Indicates condition of push-button ignition switch.
SHFTLCK SLNID PER SPLY [On/Off]	×	Indicates condition of power supply to shiftlock solenoid.
BRAKE SW 1 [On/Off]	×	Indicates condition of brake switch.
BRAKE SW 2 [On/Off]		Indicates condition of brake switch.
DETE/CANCL SW [On/Off]	×	Indicates condition of P (park) position.
SFT PN/N SW [On/Off]	×	Indicates condition of P (park) or N (neutral) position.
UNLK SEN -DR [On/Off]	×	Indicates condition of door unlock sensor.
PUSH SW -IPDM [On/Off]		Indicates condition of push-button ignition switch received from IPDM E/R on CAN communication line.
IGN RLY1 -F/B [On/Off]		Indicates condition of ignition relay 1 received from IPDM E/R on CAN communication line.
DETE SW -IPDM [On/Off]		Indicates condition of detent switch received from TCM on CAN communication line.
SFT PN -IPDM [On/Off]		Indicates condition of P (park) or N (neutral) position from TCM on CAN communication line.
SFT P -MET [On/Off]		Indicates condition of P (park) position from TCM on CAN communication line.
SFT N -MET [On/Off]		Indicates condition of N (neutral) position from IPDM E/R on CAN communication line.
ENGINE STATE [STOP/START/CRANK/RUN]	×	Indicates condition of engine state from ECM on CAN communication line.
VEH SPEED 1 [mph/km/h]	×	Indicates condition of vehicle speed signal received from ABS on CAN communication line.
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.

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[BCM]

Monitor Item [Unit]	Main	Description
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 AUTHENT CANCEL TIMER [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].
PUSH SWITCH INDICATOR	This test is able to check push-button ignition switch indicator operation [On/Off].
ACC CONT	This test is able to check accessory relay control operation [On/Off].
IGN CONT1	This test is able to check ignition relay-1 control operation [On/Off].

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[BCM]

Test Item	Description
ST CONT LOW	This test is able to check starter control relay operation [On/Off].
IGNITION RELAY	This test is able to ignition relay operation [On/Off].
REVERSE LAMP TEST	This test is able to check reverse lamp illumination operation [On/Off].
TRUNK/LUGGAGE LAMP TEST	This test is able to check cargo lamp illumination operation [On/Off].
KEYFOB PW TEST	This test is able to check power window operation using the Intelligent Key [Off/DOWN/UP].
SHIFTLOCK SOLENOID TEST	This test is able to check shift lock solenoid operation [On/Off].

WORK SUPPORT

Support Item	Se	tting	Description
IGN/ACC BATTERY SAVER	On*		Battery saver function ON.
IGIVACC BALLERT SAVER	Off		Battery saver function OFF.
	On*		Remote engine start function ON.
REMOTE ENGINE STARTER	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.
ANSWERBACK I-KET LOCK UNLOCK	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.
RETRACTABLE WIRROR SET	Off*		Retractable mirror set OFF.
CONFIRM KEY FOB ID	-		Intelligent Key ID code can check.
LOCK/UNLOCK BY I-KEY	On*		Door lock/unlock function from Intelligent Key ON.
EOGNONEOGR BT I-RET	Off		Door lock/unlock function from Intelligent Key OFF.
ENGINE START BY I-KEY	On*		Engine start function from Intelligent Key ON.
ENGINE START BY I-RET	Off		Engine start function from Intelligent Key OFF.
TRUNK/GLASS HATCH OPEN	On*		Buzzer reminder function by trunk opener request switch ON.
TRUNNGLASS HATCH OPEN	Off		Buzzer reminder function by trunk opener request switch OFF.
INTELLIGENT KEY LINK SET	On		Intelligent Key link set ON.
INTELLIGENT RET LINK SET	Off*		Intelligent Key link set OFF.
SHORT CRANKING OUTPUT		70 msec	
	Start	100 msec	Starter motor operation duration times.
SHORT CRAINING OUTFUT		200 msec	
	End		_
INSIDE ANT DIAGNOSIS	-	_	This function allows inside key antenna self-diagnosis.

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

^{*:} Initial Setting

COMB SW

COMB SW: CONSULT Function (BCM - COMB SW)

INFOID:0000000009462007

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

DATA MONITOR

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Monitor Item [Unit]	Description	
FR WIPER HI [On/Off]		Н
FR WIPER LOW [On/Off]	Indicates condition of winer energtion of combination quitab	
FR WASHER SW [On/Off]	Indicates condition of wiper operation of combination switch.	1
FR WIPER INT [On/Off]		1
INT VOLUME [1 - 7]	Indicates condition of intermittent wiper operation of combination switch.	
TURN SIGNAL R [On/Off]	Indicates condition of right turn signal operation of combination switch.	J
TURN SIGNAL L [On/Off]	Indicates condition of left turn signal operation of combination switch.	
TAIL LAMP SW [On/Off]	Indicates condition of tail lamp switch operation of combination switch.	
HI BEAM SW [On/Off]	Indicates condition of Hi beam switch operation of combination switch.	K
HEAD LAMP SW 1 [On/Off]	Indicates condition of head lamp switch 1 operation of combination switch.	
HEAD LAMP SW 2 [On/Off]	Indicates condition of head lamp switch 2 operation of combination switch.	L
PASSING SW [On/Off]	Indicates condition of passing switch operation of combination switch.	
AUTO LIGHT SW [On/Off]	Indicates condition of auto light switch operation of combination switch.	
FR FOG SW [On/Off]	Indicates condition of front fog lamp switch operation of combination switch.	BCS

BCM

BCM: CONSULT Function (BCM - BCM)

INFOID:0000000009462008

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CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

ECU IDENTIFICATION

The BCM part number is displayed.

SELF DIAGNOSTIC RESULT

Refer to BCS-52, "DTC Index".

WORK SUPPORT

BCS-25 Revision: November 2013 2014 Altima NAM

Support Item	Setting	Description
RESET SETTING VALUE	Reset	Returns BCM to initial value in factory shipment.
RESET SETTING VALUE	Cancel	Cancels the reset function.

CONFIGURATION

Refer to BCS-65, "CONFIGURATION (BCM): Description".

CAN DIAG SUPPORT MNTR

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

IMMU

IMMU: CONSULT Function (BCM - IMMU)

INFOID:0000000009462009

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

SELF DIAGNOSTIC RESULT

Refer to BCS-52, "DTC Index".

DATA MONITOR

Monitor Item [Unit]	Description
CONFRM ID ALL [Yet/DONE]	
CONFIRM ID4 [Yet/DONE]	Switches to DONE when an Intelligent Key is registered.
CONFIRM ID3 [Yet/DONE]	
CONFIRM ID2 [Yet/DONE]	
CONFIRM ID1 [Yet/DONE]	
TP 4 [Yet/DONE]	
TP 3 [Yet/DONE]	DONE indicates the number of Intelligent Key ID which has been registered.
TP 2 [Yet/DONE]	DONE indicates the number of intelligent Key ID which has been registered.
TP 1 [Yet/DONE]	
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.

ACTIVE TEST

Test Item	Description
THEFT IND	This test is able to check security indicator operation [On/Off].

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:0000000009462010

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

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.

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Monitor Item [Unit]	Description
PUSH SW [On/Off]	Indicates condition push-button ignition switch.
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
DOOR SW-BK [On/Off]	Indicates condition of 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 is able to check battery saver operation [On/Off].

TRUNK

TRUNK: CONSULT Function (BCM - TRUNK)

INFOID:0000000009462011

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

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Monitor Item [Unit]	Description
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor.
VEH SPEED 1 [km/h]	Indicates vehicle speed signal received from ABS on CAN communication line.
TR CANCEL SW [On/Off]	Indicates condition of trunk cancel switch.
TR/BD OPEN SW [On/Off]	Indicates condition of trunk opener switch.
TRNK/HAT MNTR [On/Off]	Indicates condition of trunk room lamp switch.
RKE-TR/BD [On/Off]	Indicates condition of trunk open signal from Intelligent Key.

THEFT ALM

THEFT ALM: CONSULT Function (BCM - THEFT ALM)

INFOID:0000000009462012

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

DATA MONITOR

Monitored Item	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.
REQ SW -BD/TR [ON/OFF]	Indicates condition of trunk opener request switch.
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.
TR/BD OPEN SW [On/Off]	Indicates condition of trunk opener 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.
RKE-TR/BD [On/Off]	Indicates condition of trunk open signal from Intelligent Key.

ACTIVE TEST

Test Item	Description
FLASHER	This test is able to check turn signal lamp operation [LH/RH/Off].
THEFT IND	This test is able to check security indicator lamp operation [On/Off].
VEHICLE SECURITY HORN	This test is able to check vehicle security horn operation [On].
HEADLAMP(HI)	This test is able to check vehicle security lamp operation [On].

WORK SUPPORT

Support Item	Setting	Description
SECURITY ALARM SET	On	Security alarm ON.
SECONT ALANWISET	Off	Security alarm OFF.

RETAINED PWR

RETAINED PWR : CONSULT Function (BCM - RETAINED PWR)

INFOID:0000000009462013

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

DATA MONITOR

Monitor Item [Unit]	Description	
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.	
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.	

SIGNAL BUFFER

< SYSTEM DESCRIPTION > [BCM]

SIGNAL BUFFER: CONSULT Function (BCM - SIGNAL BUFFER)

INFOID:0000000009462014

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

DATA MONITOR

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Monitor Item [Unit]	Description
PUSH SW [On/Off]	Indicates condition of the push-button ignition switch.

AIR PRESSURE MONITOR

AIR PRESSURE MONITOR: CONSULT Function (BCM-AIR PRESSURE MONITOR)

IFOID:0000000009462015

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs

SELF DIAGNOSTIC RESULT

NOTE

Before performing Self Diagnostic Result, be sure to register the transmitter ID or the actual malfunction may be different from that displayed on CONSULT.

Refer to BCS-52, "DTC Index".

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Monitor Item [Unit]	Description	
AIR PRESS FL [kPa, kg/cm ² or Psi]	Indicates air pressure of front LH tire.	
AIR PRESS FR [kPa, kg/cm ² or Psi]	Indicates air pressure of front RH tire.	
AIR PRESS RR [kPa, kg/cm ² or Psi]	Indicates air pressure of rear RH tire.	
AIR PRESS RL [kPa, kg/cm ² or Psi]	Indicates air pressure of rear LH tire.	
ID REGST FL1 [Done/Yet]	Indicates ID registration status of front LH transmitter.	
ID REGST FR1 [Done/Yet]	Indicates ID registration status of front RH transmitter.	
ID REGST RR1 [Done/Yet]	Indicates ID registration status of rear RH transmitter.	
ID REGST RL1 [Done/Yet]	Indicates ID registration status of rear LH transmitter.	
WARNING LAMP [Off/On]	Indicates condition of low tire pressure warning lamp in combination meter.	
BUZZER [Off/On]	Indicates condition of buzzer in combination meter.	

ACTIVE TEST

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

< SYSTEM DESCRIPTION >

Test Item	Description
WARNING LAMP	This test is able to check tire pressure warning lamp operation [On/Off].
ID REGIST WARNING	This test is able to check ID regist warning chime operation [On/Off].
WORK SUPPORT	
Support Item	Description
ID READ	The registered ID number is displayed.
ID REGIST	Refer to WT-25, "Description".

< ECU DIAGNOSIS INFORMATION >

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ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs
- Check Intelligent Key relative signal strength
- · Confirm vehicle Intelligent Key antenna signal strength

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status	·
ACC BATTERY SAVER	When battery saver is OFF.	STOP	
ACC RLY -REQ	When BCM is not requesting accessory relay activation.	Off	
	When BCM is requesting accessory relay activation.	On	
AIR COND SW	A/C switch OFF	Off	
	A/C switch ON	On	
AIR PRESS FL	Front left tire air pressure value	kPa, kg/cm ² , psi	
AIR PRESS FR	Front right tire air pressure value	kPa, kg/cm ² , psi	
AIR PRESS RL	Rear left tire air pressure value	kPa, kg/cm ² , psi	
AIR PRESS RR	Rear right tire air pressure value	kPa, kg/cm ² , psi	
AUTO CRNK TME	Remote engine start timer duration.	sec	
ALITO CONIC TMD	When the remote engine start timer is OFF.	Off	
AUTO CRNK TMR	When the remote engine start timer is ON.	On	
AUTO LIGHT SW	Lighting switch OFF	Off	-
AUTO LIGHT SW	Lighting switch AUTO	On	
BRAKE SW 1	When the brake pedal is released	On	
BRAKE SW 1	When the brake pedal is depressed	Off	
BRAKE SW2	Brake pedal released	Off	
BRAKE SWZ	Brake pedal depressed	On	
BUZZER	Buzzer in combination meter OFF	Off	
BOZZEN	Buzzer in combination meter ON	On	
CDL LOCK SW	Door lock/unlock switch does not operate	Off	
ODE LOCK SW	Press door lock/unlock switch to the LOCK side	On	<u>.</u>
CDL UNLOCK SW	Door lock/unlock switch does not operate	Off	
ODE DINFOCK 200	Press door lock/unlock switch to the UNLOCK side	On	
CONFRM ID ALL	The key ID does not match any key ID registered to BCM.	Yet	
	The key ID matches any key ID registered to BCM.	DONE	
CONFIRM ID4	The key ID does not match the fourth key ID registered to BCM.	Yet	
CONFIKIVI ID4	The key ID matches the fourth key ID registered to BCM.	DONE	
CONFIRM ID3	The key ID does not match the third key ID registered to BCM.	Yet	
CONLIKINI ID3	The key ID matches the third key ID registered to BCM.	DONE	

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
CONFIRM ID2	The key ID does not match the second key ID registered to BCM.	Yet
CONFIRM ID2	The key ID matches the second key ID registered to BCM.	DONE
CONFIRM ID1	The key ID does not match the first key ID registered to BCM.	Yet
	The key ID matches the first key ID registered to BCM.	DONE
CRANKING TME	Engine start timer duration.	sec
CRNK PRBT TME	Engine start prohibit timer duration.	sec
CRNK PRBT TMR	When the engine start prohibit timer is OFF.	Off
JRINK PROT TIVIR	When the engine start prohibit timer is ON.	On
DETE SW -IPDM	When selector lever is in P position	Off
DETE SW -IPDIVI	When selector lever is in any position other than P	On
DETE CIAL DIAID	When BCM is not supplying power to detent switch.	Off
DETE SW PWR	When BCM is supplying power to detent switch.	On
DETE/CANIOL CVA	When selector lever is in P position	Off
DETE/CANCL SW	When selector lever is in any position other than P	On
	Passenger door LOCK status	LOCK
DOOR STAT-AS	Passenger door UNLOCK status	UNLK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door LOCK status	LOCK
DOOR STAT-DR	Driver door UNLOCK status	UNLK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Rear left door LOCK status	LOCK
DOOR STAT-RL	Rear left door UNLOCK status	UNLK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Rear right door LOCK status	LOCK
DOOR STAT-RR	Rear right door UNLOCK status	UNLK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Front door RH closed	Off
DOOR SW-AS	Front door RH opened	On
	Trunk closed	Off
DOOR SW-BK	Trunk opened	On
	Front door LH closed	Off
DOOR SW-DR	Front door LH opened	On
	Rear door LH closed	Off
DOOR SW-RL	Rear door LH opened	On
	Rear door RH closed	Off
DOOR SW-RR	Rear door RH opened	On
	Engine stopped	STOP
	While the engine stalls	STALL
ENGINE STATE	At engine cranking	CRANK
	Engine running	RUN
	Blower motor fan switch OFF	Off
FAN ON SIG	Blower motor fan switch ON	On
	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
TD WACHED CW	Front washer switch OFF	Off	_ A
FR WASHER SW	Front washer switch ON	On	
FR WIPER LOW	Front wiper switch OFF	Off	
	Front wiper switch LO	On	
ED WIDED : "	Front wiper switch OFF	Off	
FR WIPER HI	Front wiper switch HI	On	С
	Front wiper switch OFF	Off	_
FR WIPER INT	Front wiper switch INT	On	 D
ED WIDED OTOD	Any position other than front wiper stop position	Off	
FR WIPER STOP	Front wiper stop position	On	_
	When hazard switch is not pressed	Off	Е
HAZARD SW	When hazard switch is pressed	On	_
	Headlamp switch OFF	Off	
HEAD LAMP SW 1	Headlamp switch 1st	On	_ F
UEAD LAME CIVIC	Headlamp switch OFF	Off	_
HEAD LAMP SW 2	Headlamp switch 1st	On	G
	High beam switch OFF	Off	-
HI BEAM SW	High beam switch HI	On	_
D AUTHENT CANCEL TIMER	When I-Key authentication is OFF.	STOP	— Н
	Ignition switch ACC or ON	Reset	_
D OK FLAG	Ignition switch OFF	Set	
	ID registration of front left tire incomplete	YET	_ `
D REGST FL1	ID registration of front left tire complete	DONE	_
	ID registration of front right tire incomplete	YET	J
D REGST FR1	ID registration of front right tire complete	DONE	_
	ID registration of rear left tire incomplete	YET	 K
D REGST RL1	ID registration of rear left tire complete	DONE	
	ID registration of rear right tire incomplete	YET	_
D REGST RR1	ID registration of rear right tire complete	DONE	_ L
	Ignition switch OFF or ACC	Off	_
IGN RLY1 F/B	Ignition switch ON	On	D.C
NT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7	BC
	I-Key OFF	Key OFF	_
-KEY OK FLAG	I-Key ON	Key ON	N
	Door key cylinder LOCK position	Off	_
KEY CYL LK-SW	Door key cylinder other than LOCK position	On	_
	Door key cylinder UNLOCK position	Off	_ 0
KEY CYL UN-SW	Door key cylinder other than UNLOCK position	On	_
	Bright outside of the vehicle	Close to 5V	_ Р
OPTI SEN (DTCT)	Dark outside of the vehicle	Close to 0V	_ '
	Bright outside of the vehicle	Close to 5V	_
OPTI SEN (FILT)	Dark outside of the vehicle	Close to 0V	_
	Other than lighting switch PASS	Off	_
PASSING SW	Lighting switch PASS	On	_

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
PRBT ENG STRT	When the engine start is prohibited	Reset
-KBI ENG SIKI	When the engine start is permitted	Set
PRMT ENG STRT	When the engine start is prohibited	Reset
-KWII ENG STRT	When the engine start is permitted	Set
PRMT RKE STRT	When the engine start is prohibited	Reset
TRIVIT RINE STRT	When the engine start is permitted	Set
DUOLLOW	Return ignition switch to LOCK position	Off
PUSH SW	Press ignition switch	On
	When engine switch (push switch) is not pressed	Off
PUSH SW-IPDM	When engine switch (push switch) is pressed	On
	Rear window defogger switch OFF	Off
REAR DEF SW	Rear window defogger switch ON	On
DEO 014/ 4.0	When passenger door request switch is not pressed	Off
REQ SW-AS	When passenger door request switch is pressed	On
250 0111 25	When driver door request switch is not pressed	Off
REQ SW-DR	When driver door request switch is pressed	On
	When trunk opener request switch is not pressed	Off
REQ SW-BD/TR	When trunk opener request switch is pressed	On
	When LOCK button of Intelligent Key is not pressed	Off
RKE-LOCK	When LOCK button of Intelligent Key is pressed	On
	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	Off
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	On
RKE OPE COUN1	Operation frequency of Intelligent Key	0-19
RKE OPE COUN2	Operation frequency of Intelligent Key	0-19
	When PANIC button of Intelligent Key is not pressed	Off
RKE-PANIC	When PANIC button of Intelligent Key is pressed	On
	When UNLOCK button of Intelligent Key is not pressed and held	Off
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is pressed and held	On
	When TRUNK OPEN button of Intelligent Key is not pressed	Off
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is pressed	On
	When UNLOCK button of Intelligent Key is not pressed	Off
RKE-UNLOCK	When UNLOCK button of Intelligent Key is pressed	On
	When selector lever is in any position other than N	Off
SFT N-MET	When selector lever is in N position	On
	When selector lever is in any position other than P	Off
SFT P-MET	When selector lever is in P position	On
	When selector lever is in any position other than P or N	Off
SFT PN -IPDM	When selector lever is in P or N position	On
	When selector lever is in any position other than P or N	Off
SFT PN/N SW	When selector lever is in P or N position	On
	When BCM is not supplying power to shiftlock.	Off
SHFTLCK SLNID PER SPLY	Then be in the capping pewer to difficult.	.

< ECU DIAGNOSIS INFORMATION >

[BCM]

Monitor Item	Condition	Value/Status	
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off	
	Lighting switch 1ST or 2ND	On	
TP 4	The ID of fourth key is not registered to BCM	Yet	
	The ID of fourth key is registered to BCM	DONE	
TP 3	The ID of third key is not registered to BCM	Yet	
	The ID of third key is registered to BCM	DONE	
TP 2	The ID of second key is not registered to BCM	Yet	
	The ID of second key is registered to BCM	DONE	
TP 1	The ID of first key is not registered to BCM	Yet	
	The ID of first key is registered to BCM	DONE	
TR CANCEL SW	Trunk lid opener cancel switch OFF	Off	
TR CANCEL SW	Trunk lid opener cancel switch ON	On	
TD/DD ODEN SW	Trunk opener switch OFF	Off	
TR/BD OPEN SW	While the trunk opener switch is turned ON	On	
TONK/HAT MAITO	Trunk lid closed	Off	
TRNK/HAT MNTR	Trunk lid opened	On	
TURN SIGNAL L	Turn signal switch OFF	Off	
TURN SIGNAL L	Turn signal switch LH	On	
TURN SIGNAL R	Turn signal switch OFF	Off	
TURN SIGNAL R	Turn signal switch RH	On	
LINI Z CEN DD	Driver door UNLOCK status	Off	
UNLK SEN-DR	Driver door LOCK status	On	
VEH SPEED 1	While driving, equivalent to speedometer reading	mph, km/h	
VEH SPEED 2	While driving, equivalent to speedometer reading	mph, km/h	
MADNING LAMD	Low tire pressure warning lamp in combination meter OFF	Off	
WARNING LAMP	Low tire pressure warning lamp in combination meter ON	On	

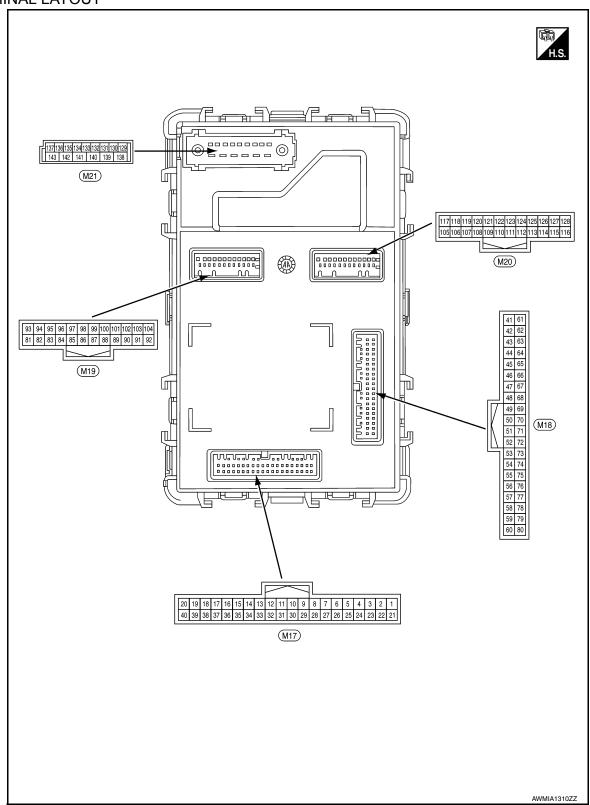
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TERMINAL LAYOUT



PHYSICAL VALUES

< ECU DIAGNOSIS INFORMATION >

Terminal No. Description (Wire color)					Value	Α	
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	
1	Ground	Engine start switch	Input	Push-button igni-	Pressed	0V	В
(R)	Giodila	Engine start switch	Input	tion switch	Not pressed	Battery voltage	
3	Ground	Auto light power sup-	Outout	Push-button igni-	OFF	0V	
(BR)	Giouria	ply 5V	Output	tion switch	ACC or ON	5V	С
4	4 (Y) Ground Auto light signal	Input	Push-button igni-	When outside of the vehi- cle is bright	Close to 5V	D	
(Y)		Auto light Signal	прис	tion switch ON	When outside of the vehi- cle is dark	Close to 0V	
					OFF	0V	Е
				TURN RH		_	
				Combination	HEADLAMP 1	(V) 15	
10	Cround	Combination switch	lnn::4	switch	HI BEAM	10	F
(W)		Input	(Wiper intermit- tent dial 4)	TAIL LAMP	0 + 10ms PKIB4958J	G	
					OFF	0V	Н
		Combination switch input 4	Input	Combination switch (Wiper intermit- tent dial 4)	TURN LH	<u> </u>	11
					PASSING	(V) 15	
11					HEADLAMP 2	10 5	- 1
(BG)	Ground				FR FOG	PKIB4958J	J
					OFF	0V	IZ.
					FR WIPER LOW		K
					FR WIPER INT/AUTO	(V) 15	
12 (W)	Ground	Combination switch input 3	Input	Combination switch (Wiper intermit- tent dial 4)	AUTO LIGHT	15 10 5 0 ++10ms PKiB4958J	BC
						1.0V	
					OFF	0V	Ν
					FR WASHER		
13 (G)	Ground	Combination switch input 2	Input	Combination switch (Wiper intermit- tent dial 4)	INT VOLUME 3	(V) 15 10 5 0 ++10ms	О Р
						1.0V	

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
					OFF	0V
					FR WIPER HI	
14 (P)	Ground	Combination switch input 1	Input	Combination switch (Wiper intermit- tent dial 4)	INT VOLUME 1	(V) 15 10 5 0
		•			INT VOLUME 2	++10ms PKIB4958J
17 (B)	Ground	Auto light reference ground	Input	Push-button ignition	on switch ON	0V
					ON	0V
18 (G)	Ground	Security indicator	Output	: Security indicator	Blinking	(V) 15 10 5 0 JPMIA0014GB 11.3V
					OFF	Battery voltage
19	Ground	Lock switch signal	Innut	Door lock/unlock	Lock	Battery voltage
(G)	Ground	LOCK SWITCH Signal	Input	switch	Unlock	0V
20	Ground	Shift P	Input	Selector lever	P position	0V
(W)	Ground	Offile 1	прис	Ociector level	Any position other than P	Battery voltage
21	Ground	Step lamp control	Output	Step lamp	ON	0V
(W)	Ordana	Ctop lamp control	Оигриг	Ctop id.iip	OFF	Battery voltage
23	Ground	Compressor ON sig-	Input	A/C switch	OFF	9.0 - 12.0V
(L)		nal			ON	0V
24	Ground	Front door lock as- sembly LH (key cylin-	Input	Key cylinder	OFF (neutral)	5V
(G)	Ground	der switch)	IIIput	switch	ON (unlock)	0V
25 (BG)	Ground	Brake switch fuse	Input		_	Battery voltage
26 (Y)	Ground	Shorting input	Input	Push-button ignition	on switch OFF	Battery voltage
27	Ground	Brake switch lamp	Input	Ston lamp switch	OFF (brake pedal is not depressed)	0V
(G)	Ciound	Brake Switch famp	Прис	t Stop lamp switch	ON (brake pedal is depressed)	Battery voltage
29	Ground	Front blower monitor	Input	Front blower mo-	ON	Battery voltage
(Y)	Cround	. Total blower mornion	put	tor switch	OFF	0V

< ECU DIAGNOSIS INFORMATION >

[BCM]

	inal No.	Description				Value
(Wire	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
30 (P)	Ground	Driver door lock sta- tus	Input	Front door LH	LOCK status	(V) 15 10 5 0 JPMIA0011GB 11.8V
					UNLOCK status	0V
32		Rear window defog-		Pear window de-	OFF	5V
(Y)	Ground	ger ON signal	Input	fogger switch	ON	0V
33 (G)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB
					ON	0V
34	Ground	Unlock switch signal	Input	Door lock/unlock	Unlock	Battery voltage
(BG)	Sidding	os. omtor olgridi	put	switch	Lock	0V
36 (Y)	Ground	Hazard switch	Input	Hazard switch	Pressed Not pressed	0V (V) 15 10 10 10 ms JPMIA0012GB 1.1V
39	0	OF G VAD	1	Oalastasla	P or N position	Battery voltage
(L)	Ground	Shift N/P	Input	Selector lever	Except P and N positions	0V
48	Craumal	High side start switch	Outerit	Push-button igni-	ON	5.5V
(BR)	Ground	LED	Output	tion switch illumi- nation	OFF	0V
52 (G)	Ground	Audio dongle	Input/ Output	Push-button ignition	on switch OFF	5V
54 (P)	Ground	Power window link/ communication	Input/ Output	Push-button ignition switch	ON	(V) 15 10 5 0 10 ms 10 ms 10.2V
					OFF or ACC	0V

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description			0 - 477	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
60 (L)	Ground	CAN high	Input/ Output			_
61	Ground	Rear defogger relay	Output	Rear window de-	Active	Battery voltage
(Y)	Giodila	output	Output	fogger	Not activated	0V
62	Ground	Starter relay output	Output	Push-button igni-	When selector lever is in P or N position and the brake is depressed	Battery voltage
(BR)	Ground	Starter relay output	Output	tion switch ON	When selector lever is in P or N position and the brake is not depressed	0V
64	Ground	Buzzer output	Output	Outside warning	Sounding	0V
(W)	Ground	Buzzer output	Output	buzzer	Not sounding	Battery voltage
66	Ground	Blower fan relay out-	Output	Push-button igni-	OFF or ACC	0V
(R)	Giodila	put	Output	tion switch	ON	Battery voltage
67	Ground	Ignition electrical re-	Output	Push-button igni-	OFF or ACC	0V
(W)	Giouna	lay output 2	Output	tion switch	ON	Battery voltage
68 (P)	Ground	Dimmer signal output	Output	Push-button ignition switch ON	Either of the following conditions Lighting switch OFF The area around the vehicle is bright (Shine a light on the optical sensor)	OV
					The area around the vehi- cle is dark (Block the light from the optical sensor)	Battery voltage
69 (L)	Ground	CVT device output	Output			Battery voltage
70	Ground	IPDM E/R ignition	Output	Push-button igni-	OFF or ACC	0V
(G)	Giodila	output 1	Output	tion switch	ON	Battery voltage
					ON (pressed)	0V
71 (V)	Ground	Driver request switch	Input	Front door LH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
					ON (pressed)	0V
72 (Y)	Ground	Passenger request switch	Input	Front door RH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB

< ECU DIAGNOSIS INFORMATION >

[BCM]

	inal No. e color)	Description			Condition	Value	
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	
74 (P)	Ground	Front door lock as- sembly LH (key cylin-	Input	Front door lock assembly LH (key	OFF (neutral) ON (lock)	5V 0V	
75 (BG)	Ground	der switch) (lock) Combination switch output 5	Output	Combination switch (Wiper intermittent dial 4)	OFF INT VOLUME 2 FR FOG	(V) 15 10 10 10 10 10 10 10 10 10 10	
76 (W)	Ground	Combination switch output 4	Output	Combination switch (Wiper intermit- tent dial 4)	OFF INT VOLUME 3 AUTO LIGHT TAIL LAMP	(V) 15 10 5 0 PKIB4960J 7.0 – 8.0V	

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< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
77	Ground	Combination switch		Combination switch	OFF	(V) 15 10 5 0 → 10ms PKIB4960J 7.0 — 8.0V
(R)	Oround	output 3	Output	(Wiper intermit- tent dial 4)	INT VOLUME 1	(1)
				tent diai 4)	HEADLAMP 2 HI BEAM	(V) 15 10 5 0 10ms PKIB4958J 1.2V
78	Canada	Combination switch	Output	Combination switch (Wiper intermit- tent dial 4)	OFF	(V) 15 10 5 0 → 10ms PKIB4960J 7.0 − 8.0V
(P)	Ground	output 2			FR WIPER HI	
					FR WIPER INT/AUTO	(V) 15 10 5
					PASSING HEADLAMP 1	++10ms PKIB4958J
79	Ground	Combination switch		Combination switch	OFF	(V) 15 10 5 0 → 10ms PKIB4960J 7.0 — 8.0V
(G)	Ground	output 1	Output	(Wiper intermit- tent dial 4)	FR WASHER	40
				tent diai 4)	FR WIPER LOW TURN LH	(V) 15 10 5 0
					TURN RH	→ +10ms
						рків4958J 1.2V

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description				Value	
(Wire	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	
80 (BR)	Ground	Trunk open switch	Output	trunk	Open (trunk actuator is activated) Close (trunk actuator is not activated)	Battery voltage 0V	
82 (Y)	Ground	Left rear door switch	Input	Rear door LH switch	OFF (when rear door LH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB	
					ON (when rear door LH opens)	0V	
85	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0V	
(BG)	Cround	Trank room lamp	Juiput	Trumk room lamp	OFF	Battery voltage	
91	Ground	Trunk lid opening	Output	Trunk lid	Open (trunk lid opener actuator is activated)	Battery voltage	
(V)	Giound	Trank ha opening	Output	TTUTIK IIU	Close (trunk lid opener actuator is not activated)	0V	
					Turn signal switch OFF	0V	
92 (LG)		Push-button ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 PKID0926E 6.5 V			
93 (V)	Ground	Right rear door switch	Input	Rear door RH switch	OFF (when rear door RH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V	
					ON (when rear door RH opens)	0V	
94 (SB)	Ground	Passenger door switch	Input	Front door RH switch	OFF (when front door RH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB	
					ON (when front door RH opens)	0V	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
96 (BR)	Ground	Driver door switch	Input	Front door LH switch	OFF (front door LH CLOSE)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V
					ON (front door LH OPEN)	0V
97 (SB)	Ground	Trunk switch	Input	Trunk switch	OFF (trunk is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (trunk is open)	11.8V 0V
99	Ground	Rear parcel shelf an-	Output	Push-button igni-	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(G)	Ground	tenna B	Guipar	tion switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB
100	Ground	Rear parcel shelf an-	Output	Push-button igni-	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(R)	Ground	tenna A	Guiput	tion switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
				When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
101 (G)	Ground	Rear bumper antenna B	Output	request switch is operated with push-button ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
102		Rear bumper anten-		When the trunk request switch is	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(W)	Ground	na A	Output	operated with push-button igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
					Turn signal switch OFF	0V
103 (Y)	Ground	Left rear flasher	Output	Push-button ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
104 (BR)	Ground	Reverse lamp output	Output	Push-button ignition switch ON	R position	(V) 15 10 5 0 1 s PKID0926E 6.5V
					Any position other than R	0V

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
					Turn signal switch OFF	0V
105 (BR)	Ground	Right front flasher	Output	Push-button igni- tion switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
107 (W)	Ground	Low side start switch LED	Input	Push-button ignition switch	NOTE: When the illumination brightening/dimming level is in the neutral position ON	OV (V) 10 0 2 ms JSNIA0010GB
108	Ground	Shift lock solenoid	Input	Selector lever	P position	0V
(BG)	Ordana	output	mpat	00.00.01.070.	Any position other than P	Battery voltage
109	Ground	Reverse signal	Output	Push-button igni-	R position	Battery voltage
(G)		· · · · · · · · · · · · · · · · · · ·	5 3.45 3.3	tion switch ON	Any position other than R	0V
111	Ground	ACC LED	Output	Push-button igni-	OFF	Battery voltage
(Y)				tion switch	ACC or ON	0V
113	Ground	ACC relay output	Output	Push-button igni-	OFF	0V
(P)			-	tion switch	ACC or ON	Battery voltage
114	114 (P) Ground	Outside key antenna RH A	Output	When the front door RH request switch is operat- ed with push-but- ton ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

< ECU DIAGNOSIS INFORMATION >

[BCM]

	inal No.	Description				Value	А
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	
115		Outside key antenna		When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	B C
(R)	Ground	RH B	Output	switch is operat- ed with push-but- ton ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 1	E
116	Ground	Front console anten-	Output	Push-button igni-	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	G H
(W)	Glound	na A	Output	tion switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	J K L
					Turn signal switch OFF	0V	
117 (SB)	Ground	Left front flasher	Output	Push-button ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	N O

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	ninal No. e color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
119	Ground	Remote keyless entry receiver signal	Input/ Output	Push-button igni-	Standby state	(V) 6 4 2 0 ••• 0.2s
(G)	Sidding			tion switch ON	When receiving the signal from the transmitter	(V) 6 4 2 0
121	Canada	ound Outside key antenna LH B	Output	When the front door LH request switch is operat- ed with push-but- ton ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(R)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
122	Onesida	Outside key antenna LH A	Output	When the front door LH request switch is operat- ed with push-but- ton ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(P)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description				Value		
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)		
126 (BR)	Ground	NATS antenna amp. B	Input/ Output	During waiting	Intelligent Key backside is contacted to push-button ignition switch, turn ignition switch ON.	Just after pressing push-button ignition switch. Pointer of analog volt meter should move.		
127 (L)	Ground	NATS antenna amp. A	Input/ Output	During waiting	Intelligent Key backside is contacted to push-button ignition switch, turn ignition switch ON.	Just after pressing push-button ignition switch. Pointer of analog volt meter should move.		
128	Constant	Front console anten-	0.4.4	Push-button igni-	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB		
(BG)	Ground	na B	Output	tion switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB		
129	Ground	Battery saver output	Output	After passing the ir er operation time	nterior room lamp battery sav-	0V		
(G)	Ground	Battery Saver output	Output	Any other time after lamp battery saver	er passing the interior room roperation time	Battery voltage		
130 (SB)	Ground	Passenger door un- lock	Output	Front door RH	UNLOCK (actuator is activated) Other than UNLOCK (actu-	Battery voltage		
131 (W)	Ground	BCM battery fuse	Input	Push-button ignition	ator is not activated) on switch OFF	Battery voltage		
132					LOCK (actuator is activated)	Battery voltage		
(L)	Ground	Rear door lock	Output	All doors	Other than LOCK (actuator is not activated)	0V		
133 (Y)	Ground	Rear door unlock	Output	Rear door RH and rear door LH	UNLOCK (actuator is activated) Other than UNLOCK (actu-	Battery voltage		
134					ator is not activated)	0V		
(B)	Ground	Ground 2	_	Push-button ignition		0V		
135 (BR)	Ground	Driver, passenger and fuel door lock	Output	All doors	LOCK (actuator is activated) Other than LOCK (actuator	Battery voltage		
					is not activated) OFF	0V Battery voltage		
136 (P)	Ground	Room lamp control	Output	Interior room lamp	OFF	OV		

< ECU DIAGNOSIS INFORMATION >

Terminal No.		Description				Value
(Wire	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
137	Ground	Driver and fuel door	Output	Front door LH	UNLOCK (actuator is activated)	Battery voltage
(V)	Giouna	unlock	Output	FIORE GOOF EFF	Other than UNLOCK (actuator is not activated)	0V
138 (V)	Ground	Rear door battery	Input	Push-button ignition	on switch OFF	Battery voltage
139 (W)	Ground	Fusible link battery power	Input	Push-button ignition	on switch OFF	Battery voltage
140 (LG)	Ground	Power window igni- tion power supply	Output	Push-button ignition	on switch ON	Battery voltage
141 (V)	Ground	Power window bat- tery power supply	Output	Push-button ignition	on switch OFF	Battery voltage
142 (BR)	Ground	Front door battery	Input	Push-button ignition	on switch OFF	Battery voltage
143 (B)	Ground	Ground 1	_	Push-button ignition	on switch ON	0V

Fail Safe

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Starter control relay signal • Starter relay status signal
B2562: LO VOLTAGE	Inhibit engine cranking	100 ms after the power supply voltage increases to more than 8.8 V
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent • Starter motor relay control signal • Starter relay status signal (CAN)
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization

DTC Inspection Priority Chart

INFOID:0000000009462018

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

< ECU DIAGNOSIS INFORMATION >

Г	В	С	١	И	•

Priority	DTC	Α
1	B2562: LOW VOLTAGE	
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)	В
3	 B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING B2196: DONGLE UNIT B2198: NATS ANTENNA AMP 	C
	 B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION 	Е
	 B2603: SHIFT POSI STATUS B2604: PNP SW B2605: PNP SW B2608: STARTER RELAY 	F
	 B260A: IGNITION RELAY B2614: ACC RELAY CIRC B2615: BLOWER RELAY CIRC 	G
4	 B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC B2618: BCM B261A: PUSH-BTN IGN SW 	Н
	B261B: RES ENG RUN B261E: VEHICLE TYPE B26F1: IGNITION RELAY B26F2: IGNITION RELAY	I
	B26F6: BCM B26FD: SHIFT LOCK SOLENOID B26FE: HOOD SWITCH B26FF: INTELLIGENT TUNER	J
	C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG	K

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< ECU DIAGNOSIS INFORMATION >

Priority	DTC
5	C1704: LOW PRESSURE FR C1705: LOW PRESSURE RR C1707: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] FR C1711: [NO DATA] RR C1711: [NO DATA] RR C1711: [OHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1716: [CHECKSUM ERR] RR C1716: [PRESSDATA ERR] FR C1717: [PRESSDATA ERR] FR C1717: [PRESSDATA ERR] RR C1717: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1719: [CODE ERR] FR C1720: [CODE ERR] FR C1721: [CODE ERR] RR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FL C1725: [BATT VOLT LOW] FR C1727: [BATT VOLT LOW] RR C1728: FLAT TIRE FR C1729: FLAT TIRE FR C1731: FLAT TIRE FR C1732: FLAT TIRE FR C1733: FLAT TIRE RR C1733: FLAT TIRE RR C1734: CONTROL UNIT C1735: IGNITION SIGNAL
6	B2621: INSIDE ANTENNA B2622: INSIDE ANTENNA
7	B259A: ROOM LAMP FUSE

DTC Index

NOTE:

Details of time display

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

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. Further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	BCS-68, "Description"
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-69, "DTC Logic"
U0415: VEHICLE SPEED SIG	_	_	_	BCS-70, "Description"
B2190: NATS ANTENNA AMP	×	_	_	SEC-84, "Description"
B2191: DIFFERENCE OF KEY	×	_	_	SEC-86, "Description"
B2192: ID DISCORD BCM-ECM	×	_	_	SEC-87, "DTC Logic"
B2193: CHAIN OF BCM-ECM	×	_	_	SEC-88, "DTC Logic"
B2195: ANTI SCANNING	×	_	_	SEC-89, "DTC Logic"

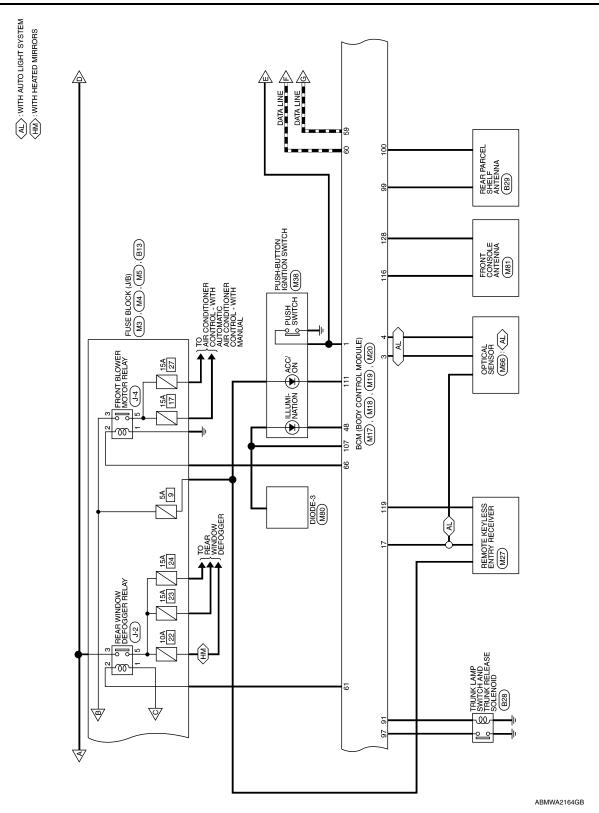
< ECU DIAGNOSIS INFORMATION >

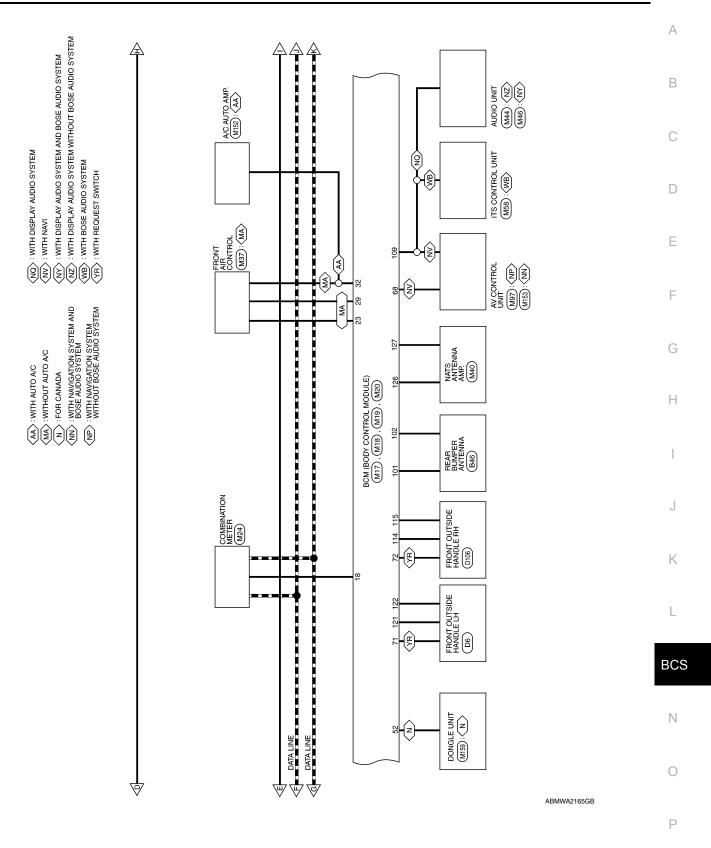
CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page	A
B2196: DONGLE UNIT	_	_	_	SEC-90, "Description"	_
B2198: NATS ANTENNA AMP.	_	_	_	SEC-92, "DTC Logic"	В
B2555: STOP LAMP	_	_	_	SEC-94, "DTC Logic"	
B2556: PUSH-BTN IGN SW	_	×	_	SEC-97, "DTC Logic"	
B2557: VEHICLE SPEED	_	×	_	SEC-99, "DTC Logic"	
B2560: STARTER CONT RELAY	×	×	_	SEC-100, "Description"	
B2562: LOW VOLTAGE	×	_	_	BCS-71, "DTC Logic"	D
B259A: ROOM LAMP FUSE	_	_	_	BCS-72, "DTC Logic"	
B2601: SHIFT POSITION	_	×	_	SEC-101, "DTC Logic"	
B2602: SHIFT POSITION	_	×	_	SEC-104, "DTC Logic"	_ E
B2603: SHIFT POSI STATUS	_	×	_	SEC-106, "DTC Logic"	_
B2604: PNP SW	_	×	_	SEC-110, "DTC Logic"	– F
B2605: PNP SW	_	×	_	SEC-113, "DTC Logic"	_
B2608: STARTER RELAY	×	×	_	SEC-116, "DTC Logic"	_
B260A: IGNITION RELAY	X	×	_	PCS-58, "DTC Logic"	G
B2614: ACC RELAY CIRC	_	×	_	PCS-60, "DTC Logic"	
B2615: BLOWER RELAY CIRC	_	×	_	PCS-62, "DTC Logic"	— Н
B2616: IGN RELAY CIRC	_	×	_	PCS-64, "DTC Logic"	
B2617: STARTER RELAY CIRC	×	×	_	SEC-118, "Description"	
B2618: BCM	×	×	_	PCS-66, "DTC Logic"	
B261A: PUSH-BTN IGN SW	_	×	_	PCS-68, "DTC Logic"	
B261B: RES ENG RUN	_	_	_	DLK-87, "DTC Logic"	
B261E: VEHICLE TYPE	×	× (Turn ON for 15 seconds)	_	SEC-120, "Description"	0
B2621: INSIDE ANTENNA	_	_	_	DLK-88, "DTC Logic"	K
B2622: INSIDE ANTENNA	_	_	_	DLK-90, "DTC Logic"	===
B26F1: IGNITION RELAY	_	_	_	PCS-70, "DTC Logic"	_
B26F2: IGNITION RELAY	_	_	_	PCS-72, "DTC Logic"	L
B26F6: BCM	_	_	_	PCS-74, "DTC Logic"	
B26FD: SHIFT LOCK SOLENOID	_	_	_	DLK-92, "DTC Logic"	ВС
B26FE: HOOD SWITCH	_	_	_	DLK-95, "DTC Logic"	
B26FF: REMOTE KEYLESS ENTRY RE- CEIVER	_	_	_	DLK-97, "DTC Logic"	 N
C1704: LOW PRESSURE FL	_	_	×		
C1705: LOW PRESSURE FR	_	_	×	WIT ON UDTO Lastic	
C1706: LOW PRESSURE RR	_	_	×	WT-28, "DTC Logic"	0
C1707: LOW PRESSURE RL	_	_	×		
C1708: [NO DATA] FL		_	×		— Р
C1709: [NO DATA] FR		_	×	WIT OO HETCH IN	۲
C1710: [NO DATA] RR		_	×	WT-30, "DTC Logic"	
C1711: [NO DATA] RL	_	† <u> </u>	×		

< ECU DIAGNOSIS INFORMATION >

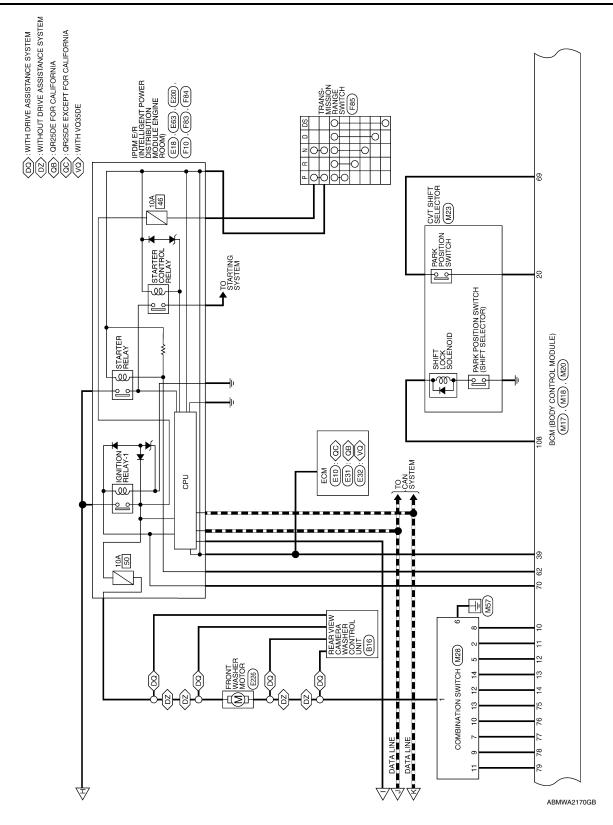
CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1712: [CHECKSUM ERR] FL	_	_	×	
C1713: [CHECKSUM ERR] FR	_	_	×	WT-33, "DTC Logic"
C1714: [CHECKSUM ERR] RR	_	_	×	W1-33, DTC Logic
C1715: [CHECKSUM ERR] RL	_	_	×	
C1716: [PRESSDATA ERR] FL	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	×	WT 25 "DTC Logic"
C1718: [PRESSDATA ERR] RR	_	_	×	WT-35, "DTC Logic"
C1719: [PRESSDATA ERR] RL	_	_	×	
C1720: [CODE ERR] FL	_	_	×	
C1721: [CODE ERR] FR	_	_	×	WT-37, "DTC Logic"
C1722: [CODE ERR] RR	_	_	×	W1-37, DTC Logic
C1723: [CODE ERR] RL	_	_	×	
C1724: [BATT VOLT LOW] FL	_	_	×	
C1725: [BATT VOLT LOW] FR	_	_	×	WT-39, "DTC Logic"
C1726: [BATT VOLT LOW] RR	_	_	×	W1-39, DTC Logic
C1727: [BATT VOLT LOW] RL	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	×	WT-41, "DTC Logic"
C1730: FLAT TIRE FL	_	_	×	
C1731: FLAT TIRE FR	_	_	×	WT 42 "DTC Logic"
C1732: FLAT TIRE RR	_	_	×	WT-42, "DTC Logic"
C1733: FLAT TIRE RL	_	_	×	
C1734: CONTROL UNIT	_	_	×	WT-44, "DTC Logic"
C1735: IGNTION SIGNAL	_	_	×	WT-46, "DTC Logic"

WIRING DIAGRAM Α **BCM** Wiring Diagram INFOID:0000000009462020 В FUSE BLOCK (J/B) (M3), (M4), (E6) TRUNK OPENER REQUEST SWITCH (B33) YR : WITH REQUEST SWITCH C \triangle \triangle D TRUNK LID OPENER CANCEL SWITCH (M74) Е F G Н 5A 16 BCM (BODY CONTROL MODULE) (M17), (M18), (M19), (M20), (M21) 15A J 15A STOP LAMP RELAY (E57) K STOP LAMP SWITCH E38 L BCS BCM (BODY CONTROL MODULE) 10A 10A Ν 40A 0 BATTERY Р - W22 134 ABMWA2163GB





Revision: November 2013 BCS-57 2014 Altima NAM



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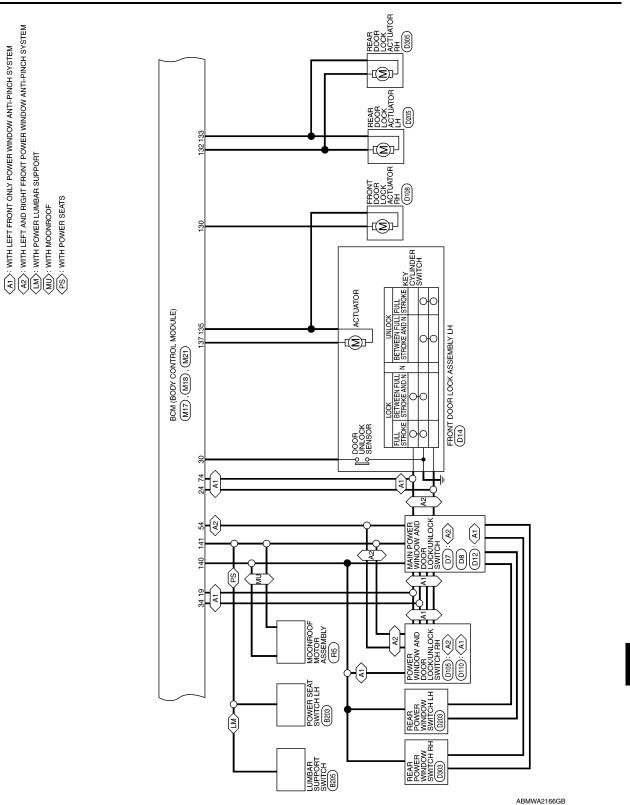
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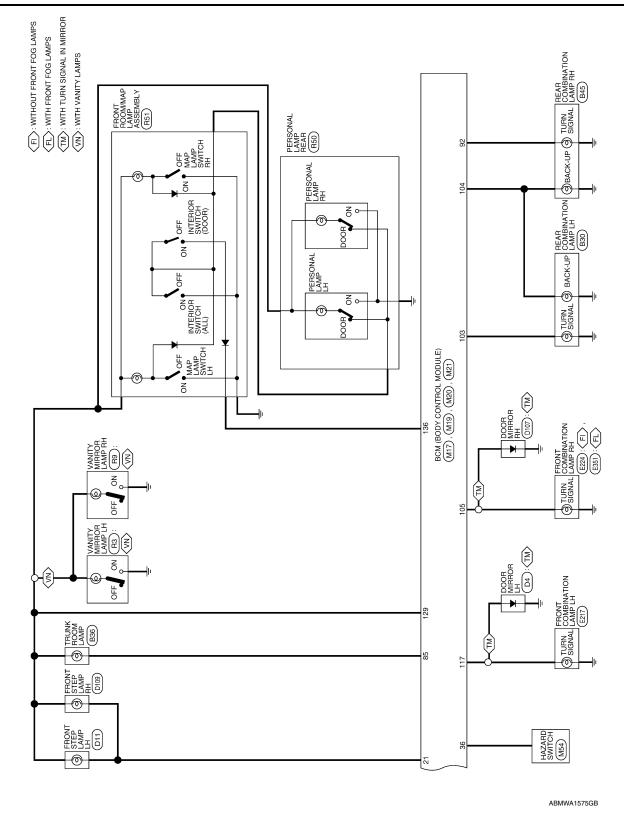
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Revision: November 2013 BCS-59 2014 Altima NAM



BCM (BODY CONTROL MODULE) CONNECTORS

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

STEP LAMP CONT

SHIFT P

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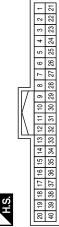
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Signal Name

Terminal No. Color of Wire



BRAKE SW FUSE SHORTING INPUT BRAKE SW LAMP

BG

25 26 27

DOOR KEY/C UNLOCK SW

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AIRCON SW

	29 28 27 26 25 24			
	28 27 26 25			
	28 27 26			
1	88			
╗				
'	65			
	-			
	30			
	31			
!	32			
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	34 33			
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Signal Name	ENG START SW NO ESCL	ı	A/L POWER SUPPLY 5V	A/L SIGAL	ı	-	_	-	_	COMBI SW IN 5	COMBI SW IN 4
Color of Wire	Œ	ı	BR	\	ı	I	ı	ı	ı	Μ	BG
Terminal No.	1	2	က	4	5	9	7	8	6	10	11

REAR DEFOGGER SW TRUNK CANCEL SW

>

88 88

CENTRAL DOOR UNLOCK SW

HAZARD SW

37

35

34

SHIFT N/P

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88 88 94

COMBI SW IN 3 COMBI SW IN 2

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COMBI SW IN 1

BLOWER FAN SW

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DR DOOR LOCK STATUS

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ABMIA5106GB

SECURITY INDICATOR
CENTRAL
DOOR LOCK SW

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GND RF A/L

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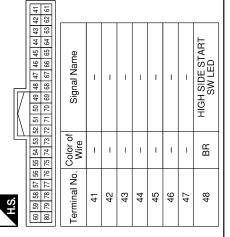
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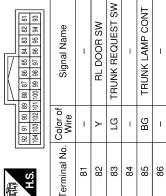
Signal Name	ROOM ANT 3 A	REAR BUMPER ANT B	REAR BUMPER ANT A	RL FLASHER	REVERSE LAMP OUT
Color of Wire	Я	g	Μ	\	BB
Terminal No. Wire	100	101	102	103	104

	_	_	_	_	_		_	_	_	_				_	_
Signal Name	-	_	ı	AUDIO DONGLE	-	NIT Md	1	ı	1	1	CAN-L	CAN-H	REAR DEFOGGER RELAY OUT	STARTER RELAY OUT	-
Color of Wire	ı	1	1	ŋ	1	Ь	1	ı	1	1	Ь	٦	\	BR	1
Ferminal No. Color of Wire	49	50	51	52	53	54	55	56	22	58	29	09	61	62	63

of Signal Name	1	ı	ı	1	TRUNK OPEN OUT	RR FLASHER	RR DOOR SW	AS DOOR SW	ı	DR DOOR SW	TRUNK SW	1	
Color of Wire	1	1	ı	1	^	P	>	SB	1	BR	SB	_	
Terminal No.	87	88	68	06	91	92	93	94	92	96	6	86	

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



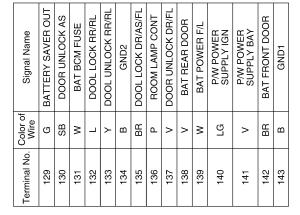


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M28	Connector Name COMBINATION SWITCH	WHITE	
Connector No.	Connector Name	Connector Color WHITE	4

Signal Name	- (WITHOUT REAR VIEW CAMERA OR WITH REAR VIEW CAMERA WASHER CONTROL SYSTEM)	– (WITH REAR VIEW CAMERA)	1	ı	I	I	_	ı	-	-	ı	_	_	_	- 1
Color of Wire	LG	BG	BG	1	1	*	В	Œ	Μ	Ь	>	Б	Ь	BG	១
Ferminal No.	-	-	2	3	4	5	9	7	8	6	10	11	12	13	14

M21	BCM (BODY CONTROL MODULE)	WHITE	137136135134133132131130129
Connector No.	Connector Name BCM (BODY CONTROL N	Connector Color WHITE	





	Signal Name	FR FLASHER	-	LOW SIDE START SW LED	SHIFT LOCK SOLENOID OUT	REVERSE SIGNAL	1	ACC LED	I	ACC REPLAY OUT	AS DOOR ANT A
	Color of Wire	BR	ı	M	BG	ŋ	ı	У	ı	Ь	Ь
-1	erminal No.	105	106	107	108	109	110	111	112	113	114

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IMMO START BUTTON ANT B IMMO START BUTTON ANT A

BR

ROOM ANT 2 B

BG

127

DR DOOR ANT A

DR DOOR ANT B

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122

123 124 125 126

RF NIMOCO

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AS DOOR ANT B

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BASIC INSPECTION

INSPECTION AND ADJUSTMENT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

INFOID:0000000009462021

BEFORE REPLACEMENT

When replacing BCM, save or print current vehicle specification with CONSULT configuration before replacement.

NOTE:

If "Before Replace ECU" cannot be used, use the "After Replace ECU" or "Manual Configuration" after replacing BCM.

AFTER REPLACEMENT

CAUTION:

- When replacing BCM, you must perform "After Replace ECU" with CONSULT.
- Complete the procedure of "After Replace ECU" in order.
- If you set incorrect "After Replace ECU", incidents might occur.
- Configuration is different for each vehicle model. Confirm configuration of each vehicle model.
- · When replacing BCM, perform the system initialization (NATS).

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Work Procedure

INFOID:0000000009462022

1. SAVING VEHICLE SPECIFICATION

(E)CONSULT

Enter "Re/Programming, Configuration" and perform "Before Replace ECU" to save or print current vehicle specification.

NOTE:

If "Before Replace ECU" cannot be used, use the "After Replace ECU" or "Manual Configuration" after replacing BCM.

>> GO TO 2.

2.REPLACE BCM

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

>> GO TO 3.

3. WRITING VEHICLE SPECIFICATION

(P)CONSULT

- Enter "Re/Programming, Configuration".
- 2. If "Before Replace ECU" operation was performed, automatically an "Operation Log Selection" screen will be displayed. Select the applicable file from the "Saved Data List" and press "Confirm" to write vehicle specification. Refer to BCS-65, "CONFIGURATION (BCM): Work Procedure".
- 3. If "Before Replace ECU" operation was not performed, select "After Replace ECU" or "Manual Configuration" to write vehicle specification. Refer to BCS-65, "CONFIGURATION (BCM): Work Procedure".

>> GO TO 4.

4. INITIALIZE BCM (NATS)

Perform BCM initialization. (NATS)

>> Work End.

CONFIGURATION (BCM)

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION > [BCM]

CONFIGURATION (BCM): Description

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Vehicle specification needs to be written with CONSULT because it is not written after replacing BCM. Configuration has three functions as follows:

Function	Description
"Before Replace ECU"	Reads the vehicle configuration of current BCM. Saves the read vehicle configuration.
"After Replace ECU"	Writes the vehicle configuration with manual selection.
"Select Saved Data List"	Writes the vehicle configuration with saved data.

CAUTION:

- When replacing BCM, you must perform "Select Saved Data List" or "After Replace ECU" with CON-SULT.
- Complete the procedure of "Select Saved Data List" or "After Replace ECU" in order.
- If you set incorrect "Select Saved Data List" or "After Replace ECU", incidents might occur.
- Configuration is different for each vehicle model. Confirm configuration of each vehicle model.
- Never perform "Select Saved Data List" or "After Replace ECU" except for new BCM.

CONFIGURATION (BCM): Work Procedure

INFOID:0000000009462024

1. WRITING MODE SELECTION

CONSULT

Select "Reprogramming, Configuration" of BCM.

When writing saved data>>GO TO 2.

When writing manually>>GO TO 3.

2.PERFORM "SAVED DATA LIST"

(P)CONSULT

Automatically "Operation Log Selection" window will display if "Before Replace ECU" was performed. Select applicable file from the "Save Data List" and press "Confirm".

>> Work End.

3.PERFORM "AFTER REPLACE ECU" OR "MANUAL CONFIGURATION"

(E)CONSULT

Select "After Replace ECU" or "Manual Configuration".

- 2. Identify the correct model and configuration list. Refer to <u>BCS-66, "CONFIGURATION (BCM) : Configuration list".</u>
- 3. Confirm and/or change setting value for each item.

CAUTION:

Thoroughly read and understand the vehicle specification. ECU control may not operate normally if the setting is not correct.

Select "Next".

CAUTION:

Make sure to select "Next", confirm each setting value and press "OK" even if the indicated configuration of brand new BCM is same as the desirable configuration. If not, configuration which is set automatically by selecting vehicle model cannot be memorized.

5. When "Completed", select "End".

>> GO TO 4.

4. OPERATION CHECK

Confirm that each function controlled by BCM operates normally.

>> Work End.

Revision: November 2013 BCS-65 2014 Altima NAM

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION > [BCM]

CONFIGURATION (BCM): Configuration list

INFOID:0000000009462025

CAUTION:

Thoroughly read and understand the vehicle specification. Incorrect settings may result in abnormal control of ECU.

	MANUAL SETTING ITEM							
Items	Setting value							
AUTO LIGHT	$WITHOUT \Leftrightarrow MODE1 \Leftrightarrow MODE2 \Leftrightarrow MODE3 \Leftrightarrow MODE4 \Leftrightarrow MODE5$							
FR FOG LAMP	WITHOUT ⇔ MODE1 ⇔ MODE2							
TIRE PRESSURE	220kPa ⇔ 230kPa ⇔ 240kPa							
BCM AC CONTROL	MODE1 ⇔ MODE2							
Key Fob Type	ENST/LCK/UNLCK/ALRM ⇔ ENST/LCK/UNLCK/BD/ALRM ⇔ ENST/LCK/UNLCK/TRK/ALRM ⇔ LCK/UNLCK/PBD/ALRM ⇔ LCK/UNLCK/ALRM ⇔ LCK/UNLCK/PBD ⇔ LCK/UNLCK/TRNK ⇔ LCK/UNLCK ⇔ LCK/UNLCK/TRNK/ALRM							

^{⇔:} Items which confirm vehicle specifications

TRANSIT MODE CANCEL OPERATION

< BASIC INSPECTION > [BCM]
TRANSIT MODE CANCEL OPERATION

• BCM is in transit mode if turn signal indicator on combination meter turns ON for 1 minute when ignition

switch is turned from OFF to ON.In this case, cancel operation must be performed.

NOTE

Description

Do not cancel transit mode during storage of the vehicle. Always cancel transit mode before delivery of the vehicle to customer.

Work Procedure

1. TRANSIT MODE CANCEL OPERATION

- 1. Turn ignition switch OFF.
- Turn and hold front wiper switch to HI, and then operate turn signal switch to RH or LH.

>> GO TO 2.

2.TRANSIT MODE CANCEL CHECK

- 1. Turn front wiper switch and turn signal switch OFF.
- 2. Turn ignition switch ON.
- 3. Check that turn signal indicator on combination meter does not turn ON.

>> WORK END

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Revision: November 2013 BCS-67 2014 Altima NAM

U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:000000009462028

Refer to BCS-7, "BODY CONTROL SYSTEM: System Description".

DTC Logic

DTC DETECTION LOGIC

NOTE

U1000 can be set if a module harness was disconnected and reconnected, perhaps during a repair. Confirm that there are actual CAN diagnostic symptoms and a present DTC by performing the Self Diagnostic Result procedure.

CONSULT Display	DTC Detection Condition	Possible cause	
CAN COMM CIRCUIT [U1000]	When any listed module cannot communicate with CAN communication signal continuously for 2 seconds or more with ignition switch ON	In CAN communication system, any item (or items) of the following listed below is malfunctioning. Transmission Receiving (ECM) Receiving (VDC/TCS/ABS) Receiving (METER/M&A) Receiving (TCM) Receiving (IPDM E/R)	

Diagnosis Procedure

INFOID:0000000009462030

1. PERFORM SELF DIAGNOSTIC RESULT

- 1. Turn ignition switch ON and wait for 2 second or more.
- 2. Check "SELF- DIAG RESULTS".

Is "CAN COMM CIRCUIT" displayed?

YES >> Perform CAN Diagnosis as described in DIAGNOSIS section of CONSULT Operation Manual.

NO >> Refer to GI-43, "Intermittent Incident".

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

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U1010 CONTROL UNIT (CAN)

DTC Logic

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CAN COMM CIRCUIT [U1010]	BCM detected internal CAN communication circuit mal- function.	BCM

Diagnosis Procedure

INFOID:0000000009462032

1. REPLACE BCM

When DTC U1010 is detected, replace BCM.

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

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[BCM]

U0415 VEHICLE SPEED SIG

Description INFOID:000000009462033

U0415 is displayed if any unusual condition is present in the reception status of the vehicle speed signal from the ABS actuator and electric unit (control unit).

DTC Logic INFOID:0000000009462034

DTC DETECTION LOGIC

NOTE:

- If DTC U0415 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-68, "DTC Logic".
- If DTC U0415 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-69, "DTC Logic".

CONSULT Display	DTC Detection Condition	Possible Cause
VEHICLE SPEED SIG [U0415]	When the vehicle speed signal received from the ABS actuator and electric unit (control unit) remains abnormal for 2 seconds or more.	ABS systemCombination meter systemCAN bus harness

DTC CONFIRMATION PROCEDURE

DTC CONFIRMATION

- Erase the DTC.
- Turn ignition switch OFF.
- Perform Self Diagnostic Result of BCM with CONSULT, after the ignition switch has been turned ON for 2 seconds or more.

Is any DTC detected?

YES >> Refer to BCS-52, "DTC Index".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000009462035

${f 1}$. ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) SELF DIAGNOSTIC RESULT

Perform Self Diagnostic Result of ABS with CONSULT. Refer to BRC-33, "CONSULT Function (ABS)". Is any DTC detected?

YES >> Perform the trouble diagnosis related to the detected DTC. Refer to BRC-45, "DTC Index".

NO >> GO TO 2.

2. check abs actuator and electric unit (control unit) power supply and ground **CIRCUIT**

Check ABS actuator and electric unit (control unit) power and ground. Refer to BRC-70, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3. COMBINATION METER SELF DIAGNOSTIC RESULT

Perform Self Diagnostic Result of METER M&A with CONSULT. Refer to MWI-18, "CONSULT Function (METER/M&A)".

Is any DTC detected?

YES >> Perform the trouble diagnosis related to the detected DTC. Refer to MWI-27, "DTC Index".

NO >> Refer to GI-43, "Intermittent Incident".

	B2562 LOW VOLTA	
< DTC/CIRCUIT D	AGNOSIS >	[BCM]
B2562 LOW \	OLTAGE	
DTC Logic		INFOID:000000009462036
G		612.3000000000
DTC DETECTION	LOGIC	
CONSULT Display	DTC Detection Condition	Possible cause
LOW VOLTAGE [B2562]	When the power supply voltage to BCM remains less than 8.8V for 120 seconds or more	Harness or connector (power supply circuit) Vehicle battery
DTC CONFIRMAT	ION PROCEDURE	
1. DTC CONFIRM	ATION	
	ritch OFF. If Diagnostic Result of BCM with CONSULT,	after the ignition switch has been turned ON
 Turn ignition sw Perform the Se for 120 seconds Is any DTC detected YES >> Refer to NO >> Inspect 	ritch OFF. If Diagnostic Result of BCM with CONSULT, or more. 12 BCS-71, "Diagnosis Procedure". Ion End.	after the ignition switch has been turned ON
 Turn ignition sw Perform the Se for 120 seconds Is any DTC detected YES >> Refer to 	ritch OFF. If Diagnostic Result of BCM with CONSULT, or more. 12 BCS-71, "Diagnosis Procedure". Ion End.	after the ignition switch has been turned ON
 Turn ignition sw Perform the Se for 120 seconds Is any DTC detected YES >> Refer to NO >> Inspect 	ritch OFF. If Diagnostic Result of BCM with CONSULT, or more. If Picture 1: 10 and 1	
 Turn ignition sw Perform the Se for 120 seconds Is any DTC detected YES >> Refer to NO >> Inspect Diagnosis Process 	ritch OFF. If Diagnostic Result of BCM with CONSULT, or more. If Picture 1: 10 and 1	
 Turn ignition sw Perform the Se for 120 seconds Is any DTC detected YES >> Refer to NO >> Inspect Diagnosis Proced CHECK BATTED Check battery voltage Substitute of the second sec	ritch OFF. If Diagnostic Result of BCM with CONSULT, or more. If Picture RY VOLTAGE Ses than 8.8V?	INFOID:000000009462037
 Turn ignition sw Perform the Se for 120 seconds Is any DTC detected YES >> Refer to NO >> Inspect Diagnosis Proced CHECK BATTED Check battery voltage leg YES >> Charge 	ritch OFF. If Diagnostic Result of BCM with CONSULT, or more. If Dia	INFOID:000000009462037
2. Turn ignition sw 3. Perform the Se for 120 seconds Is any DTC detected YES >> Refer to NO >> Inspect Diagnosis Proce 1. CHECK BATTEL Check battery voltage le YES >> Charge CHG-20 NO >> GO TO	ritch OFF. If Diagnostic Result of BCM with CONSULT, or more. If Dia	INFOID:000000009462037
2. Turn ignition sw 3. Perform the Se for 120 seconds Is any DTC detected YES >> Refer to NO >> Inspect Diagnosis Proce 1. CHECK BATTEL Check battery voltage le YES >> Charge CHG-20 NO >> GO TO 2. CHECK POWER	ritch OFF. If Diagnostic Result of BCM with CONSULT, is or more. 12. 13. 14. 15. 16. 16. 17. 16. 16. 17. 16. 17. 18. 19. 19. 19. 19. 19. 19. 19	INFOID:000000009462037 Flow (With EXP-800 NI or GR8-1200 NI)" or 200 NI)".
2. Turn ignition sw 3. Perform the Se for 120 seconds Is any DTC detected YES >> Refer to NO >> Inspect Diagnosis Proce 1. CHECK BATTEL Check battery voltage le YES >> Charge CHG-20 NO >> GO TO 2. CHECK POWER Is the inspection res	ritch OFF. If Diagnostic Result of BCM with CONSULT, is or more. If Piagnostic Result of BCM with CONSULT, is or more. If Piagnostic Result of BCM with CONSULT, is or more. If Diagnostic Result of BCS-71, "Diagnosis Procedure". If Diagnostic Result of BCS-71, "Diagnosis Procedure". If Diagnostic Result of BCS-71, "Diagnosis Procedure". If Diagnostic Result of BCS-74, "Work or more. If Diagnostic Result of BCM with CONSULT, with Consult of BCS-74, "If Diagnostic Result normal?	INFOID:000000009462037 Flow (With EXP-800 NI or GR8-1200 NI)" or 200 NI)".
2. Turn ignition sw 3. Perform the Se for 120 seconds Is any DTC detected YES >> Refer to NO >> Inspect Diagnosis Proce 1. CHECK BATTEL Check battery voltage le YES >> Charge CHG-20 NO >> GO TO 2. CHECK POWER Check BCM power: Is the inspection res YES >> GO TO	ritch OFF. If Diagnostic Result of BCM with CONSULT, is or more. If Piagnostic Result of BCM with CONSULT, is or more. If Piagnostic Result of BCM with CONSULT, is or more. If Diagnostic Result of BCS-71, "Diagnosis Procedure". If Diagnostic Result of BCS-71, "Diagnosis Procedure". If Diagnostic Result of BCS-71, "Diagnosis Procedure". If Diagnostic Result of BCS-74, "Work or more. If Diagnostic Result of BCM with CONSULT, with Consult of BCS-74, "If Diagnostic Result normal?	INFOID:000000009462037 Flow (With EXP-800 NI or GR8-1200 NI)" or 200 NI)".

Perform Self Diagnostic Result of BCM with CONSULT. Refer to BCS-25, "BCM: CONSULT Function (BCM -BCM)".

Is DTC B2562 CRNT?

>> Replace BCM. Refer to <u>BCS-80, "Removal and Installation"</u>. >> Refer to <u>GI-43, "Intermittent Incident"</u>. YES

NO

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B259A ROOM LAMP FUSE

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

B259A ROOM LAMP FUSE

DTC Logic

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible cause
ROOM LAMP FUSE [B259A]	When BCM detects that power supply voltage is supplied to fusible link battery power, but not to BCM battery fuse for 2 minutes when ignition switch is ON.	

DTC CONFIRMATION PROCEDURE

1. DTC CONFIRMATION

- 1. Erase DTC.
- 2. Turn ignition switch OFF.
- Perform the Self Diagnostic Result of BCM with CONSULT, after the ignition switch has been turned ON for 2 minutes or more.

Is any DTC detected?

YES >> Refer to BCS-72, "Diagnosis Procedure".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000009462039

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

1. CHECK FUSE

Check that the following fuse is not blown.

Terminal No.	Signal name	Fuse No.
131	BCM battery fuse	1 (10A)

Is the fuse or fusible link blown?

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

NO >> GO TO 2.

2. CHECK BAT BCM FUSE CIRCUIT

- Disconnect BCM connector M21.
- Check voltage between BCM connector M21 terminal 131 and ground.

BCM		Ground	Voltage (Approx.)	
Connector Terminal		Ground		
M21	131	_	Battery voltage	

Is the inspection result normal?

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

NO >> Repair or replace harness or connectors. GO TO 3.

3. CHECK BATTERY SAVER OUTPUT CIRCUIT FOR SHORT TO GROUND

- Turn ignition OFF.
- 2. Check continuity between BCM connector M21 terminal 129 and ground.

B259A ROOM LAMP FUSE

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

ВС	CM	Ground	Continuity	Α
Connector	Terminal	Giodila	Continuity	
M21	129	_	No	В

Is the inspection result normal?

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

NO >> Repair or replace harness or connectors.

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000009462040

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

1. CHECK FUSE AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuse and fusible link No.
139	Fusible link battery power	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

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

BCM		Ground	Voltage (Approx.)	
Connector Terminal		Ground		
M21	131	— Rattery vol	Battery voltage	
IVIZ I	139	_	Dattery 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.

BCM Connector Terminal		Ground	Continuity	
		Ground		
M21	134		Yes	
1012 1	143	_	res	

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

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COMBINATION SWITCH INPUT CIRCUIT

Diagnosis Procedure

INFOID:000000009462041

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

1. CHECK INPUT 1 - 5 SYSTEM CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- Disconnect BCM connector M18 and combination switch connector.
- Check continuity between BCM connector M18 and combination switch connector.

Signal	ВС	CM	Combination switch		Continuity	
	Connector	Terminal	Connector	Terminal	Continuity	
INPUT 1		79		11		
INPUT 2		78		9		
INPUT 3	M18	77	M28	7	Yes	
INPUT 4		76		10		
INPUT 5		75		13		

Is the inspection result normal?

>> GO TO 2. YFS

NO >> Repair or replace harness or connectors.

2. CHECK INPUT 1 - 5 SYSTEM CIRCUIT FOR SHORT

Check continuity between BCM connector M18 and ground.

Cianal	В	СМ		Continuit		
Signal	Connector Terminal			Continuity		
INPUT 1		79				
INPUT 2		78	Ground			
INPUT 3	M18	77		No		
INPUT 4		76				
INPUT 5	=	75				

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3. CHECK BCM OUTPUT VOLTAGE

- Connect BCM connector M18 and combination switch connector.
- Turn ignition switch ON.
- Check voltage between BCM connector M18 and ground.

Signal	В	CM	Ground	Voltage	
Signal	Connector Terminal		Giouna	Voltage	
INPUT 1		79			
INPUT 2		78			
INPUT 3	M18	77	_	Refer to <u>BCS-31, "Ref-</u> erence Value".	
INPUT 4		76		<u>oronos valas</u> .	
INPUT 5		75			

BCS-75 Revision: November 2013 2014 Altima NAM **BCS**

COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace the combination switch.

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

Revision: November 2013 BCS-76 2014 Altima NAM

COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

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COMBINATION SWITCH OUTPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000009462042

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

1. CHECK OUTPUT 1 - 5 SYSTEM CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- Disconnect BCM connector M17 and combination switch connector.
- Check continuity between BCM connector M17 and combination switch connector.

Signal	BCI	М	Combinat	Continuity	
Signal	Connector	Terminal	Connector	Terminal	Continuity
OUTPUT 1		14		12	
OUTPUT 2		13		14	
OUTPUT 3	M17	12	M28	5	Yes
OUTPUT 4		11		2	
OUTPUT 5		10		8	

Is the inspection result normal?

>> GO TO 2. YFS

NO >> Repair or replace harness or connectors.

$oldsymbol{2}$. CHECK OUTPUT 1 - 5 SYSTEM CIRCUIT FOR SHORT

Check continuity between BCM connector M17 and ground.

Cianal	В	CM		Continuity		
Signal	Connector Terminal			Continuity		
OUTPUT 1		14				
OUTPUT 2		13	Ground			
OUTPUT 3	M17	12		No		
OUTPUT 4		11				
OUTPUT 5		10				

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

$3.\,$ CHECK BCM INPUT VOLTAGE

- Connect BCM connector M17 and combination switch connector.
- Turn ignition switch ON.
- Check voltage between BCM connector M17 and ground.

Cignal	В	CM	Ground	Voltage		
Signal	Connector	Connector Terminal		Voltage		
OUTPUT 1		14				
OUTPUT 2		13				
OUTPUT 3	M17	12	_	Refer to <u>BCS-31, "Ref-erence Value"</u> .		
OUTPUT 4		11		<u> </u>		
OUTPUT 5		10				

BCS-77 Revision: November 2013 2014 Altima NAM **BCS**

COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

Is the inspection result normal?

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

NO >> Replace the combination switch.

COMBINATION SWITCH SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS > [BCM]

SYMPTOM DIAGNOSIS

COMBINATION SWITCH SYSTEM SYMPTOMS

Symptom Table

- 1. Perform the data monitor of CONSULT to check for any malfunctioning item.
- 2. Check the malfunction combinations.

Malfunction item: ×

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		Data monitor item												
Malfunction combination	FR WIPER HI	FR WIPER LOW	FR WASHER SW	FR WIPER INT/AUTO	INT VOLUME	TURN SIGNAL R	TURN SIGNAL L	TAIL LAMP SW	HI BEAM SW	HEAD LAMP SW 1	HEAD LAMP SW 2	PASSING SW	AUTO LIGHT SW	FR FOG SW
A		×	×			×	×							
В	×			×						×		×		
С					×				×		×			
D					×			×					×	
E					×									×
F	×				×									
G			×		×									
Н		×		×									×	
I							×				×	×		×
J						×		×	×	×				
K		All Items												
L	If only one item is detected or the item is not applicable to the combinations A to K													

3. Identify the malfunctioning part from the agreed combination and repair or replace the part.

Malfunction combination	Malfunctioning part	Repair or replace
Α	Combination switch INPUT 1 circuit	
В	Combination switch INPUT 2 circuit	
С	Combination switch INPUT 3 circuit	Inspect the combination switch input circuit applicable to the malfunctioning part. Refer to BCS-75, "Diagnosis Procedure".
D	Combination switch INPUT 4 circuit	part. Note: to <u>1966 70, Bragnesia i recodure</u> .
Е	Combination switch INPUT 5 circuit	
F	Combination switch OUTPUT 1 circuit	
G	Combination switch OUTPUT 2 circuit	
Н	Combination switch OUTPUT 3 circuit	Inspect the combination switch output circuit applicable to the malfunctioning part. Refer to BCS-77, "Diagnosis Procedure".
I	Combination switch OUTPUT 4 circuit	ing part. Note: to <u>booking braghted to to booking</u> .
J	Combination switch OUTPUT 5 circuit	
K	ВСМ	Replace BCM. Refer to BCS-80, "Removal and Installation".
L	Combination switch	Replace the combination switch.

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[BCM]

REMOVAL AND INSTALLATION

BCM (BODY CONTROL MODULE)

Removal and Installation

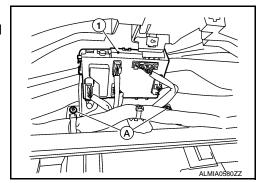
INFOID:0000000009462044

REMOVAL

CAUTION:

Before replacing BCM, perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to BCS-64, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description".

- 1. Disconnect the negative battery terminal. Refer to PG-73, "Removal and Installation (Battery)".
- 2. Remove the combination meter. Refer to MWI-82, "Removal and Installation".
- 3. Remove the BCM screws (A) and pull out the BCM (1).
- 4. Disconnect the harness connectors from the BCM (1) and remove.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Be sure to perform "WRITE CONFIGURATION" when replacing BCM. Refer to BCS-65, "CONFIGURA-TION (BCM): Description".
- Be sure to perform the system initialization (NATS) when replacing BCM. Refer to <u>BCS-64, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description"</u>.
- When replacing BCM, if new BCM does not come with keyfobs attached, all existing keyfobs must be re-registered.

[BCM]

INFOID:0000000009462045

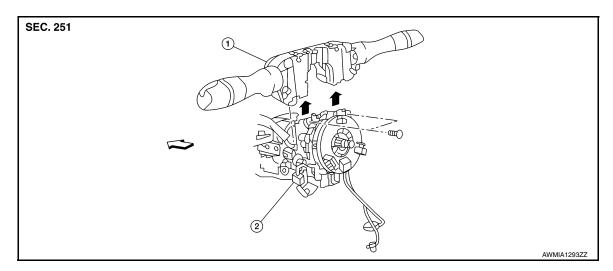
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COMBINATION SWITCH

Exploded View



1. Combination switch

2. Combination switch harness connector

<□ Front

NOTE:

Shown with the steering wheel removed for clarity only.

Removal and Installation

INFOID:0000000009462046

REMOVAL

CAUTION:

- Before servicing, turn the ignition switch OFF, disconnect both battery terminals and wait at least three minutes.
- Do not use air tools or electric tools for servicing.
- 1. Disconnect both the negative and positive battery terminals, then wait at least three minutes. Refer to PG- 73, "Removal and Installation (Battery)".
- Remove the steering column covers. Refer to <u>IP-17</u>, "Removal and Installation".
- 3. Rotate steering wheel clockwise to access first combination switch bolt and remove.
- 4. Rotate steering wheel counter-clockwise to access second combination switch bolt and remove.
- 5. Disconnect the harness connector from the combination switch and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- After the work is completed, make sure no system malfunction is detected by air bag warning lamp.
- In case a malfunction is detected by the air bag warning lamp, reset with the self-diagnosis function and delete the memory with CONSULT.
- If a malfunction is still detected after the above operation, perform self-diagnosis to repair malfunctions. Refer to SRC-42, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

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