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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 3 minutes before performing any service.

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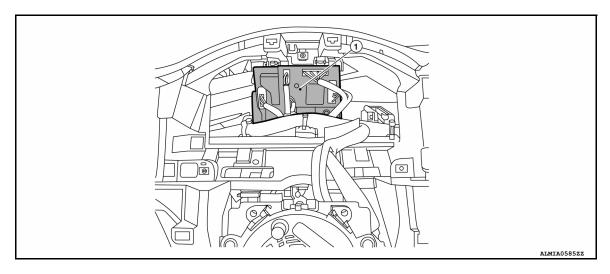
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SYSTEM DESCRIPTION

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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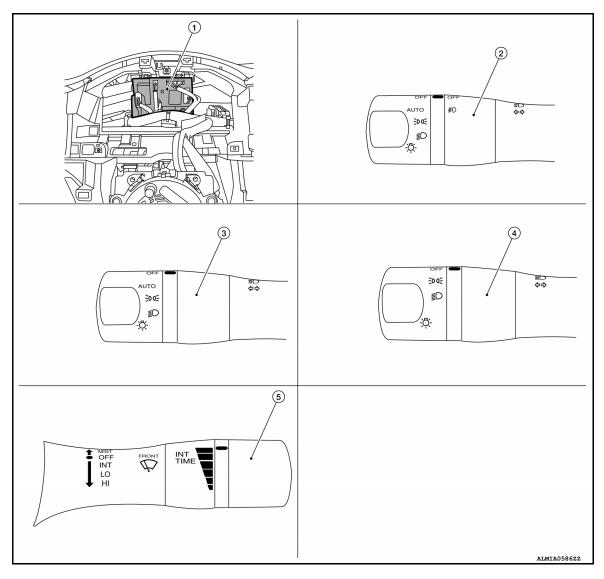
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COMBINATION SWITCH READING SYSTEM : Component Parts Location

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- BCM (view with combination meter removed)
- 4. 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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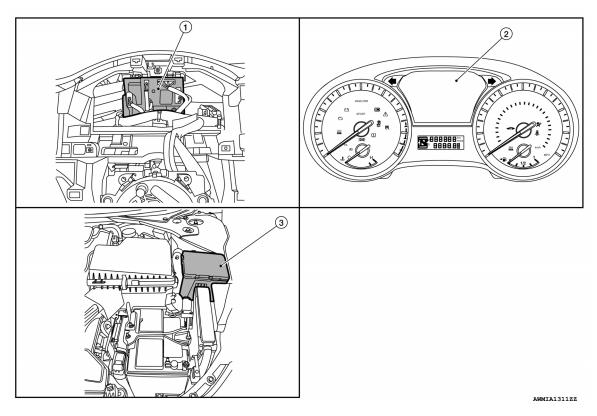
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POWER CONSUMPTION CONTROL SYSTEM : Component Parts Location

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

SYSTEM

< SYSTEM DESCRIPTION > [BCM]

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

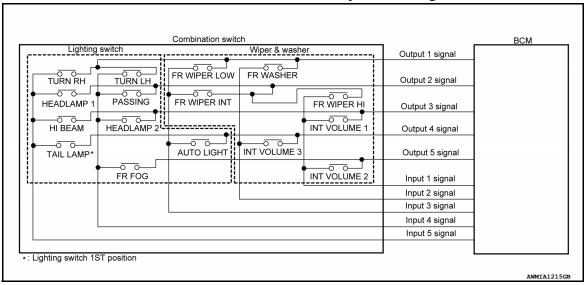
System	Refer to			
Combination switch reading system	BCS-8, "COMBINATION SWITCH READING SYSTEM: System Description"			
Signal buffer system	BCS-12, "SIGNAL BUFFER SYSTEM : System Description"			
Power consumption control system	BCS-12. "POWER CONSUMPTION CONTROL SYSTEM: System Description"			
Auto light system	EXL-10. "AUTO LIGHT SYSTEM : System Description"			
Headlamp system	EXL-9, "HEADLAMP SYSTEM : System Description"			
Daytime light system	EXL-11, "DAYTIME RUNNING LIGHT SYSTEM: System Description"			
Front fog lamp system	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-13, "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-15, "NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS: System Description"			
Vehicle security system	SEC 17 "VEHICLE SECLIDITY SYSTEM - System Description"			
Panic alarm	SEC-17, "VEHICLE SECURITY SYSTEM : System Description"			
Rear window defogger system	DEF-7, "System Description"			

System		Refer to			
	Door lock function	DLK-24, "DOOR LOCK FUNCTION: System Description" (door request switch) (if equipped) DLK-24, "DOOR LOCK FUNCTION: System Description" (Intelligent Key)			
Intelligent Key system/engine start system	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-12, "INTELLIGENT KEY SYSTEM/ENGINE START FUNC-TION: System Description"			
Power window system		PWC-10, "System Description" (LH front only anti-pinch) PWC-73, "System Description" (LH & RH front anti-pinch)			
RAP (retained accessory power) system		BCS-26, "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

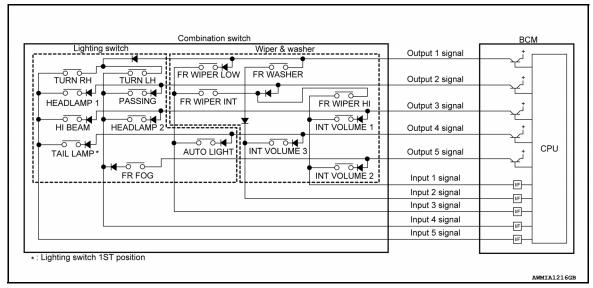
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OUTLINE

- 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



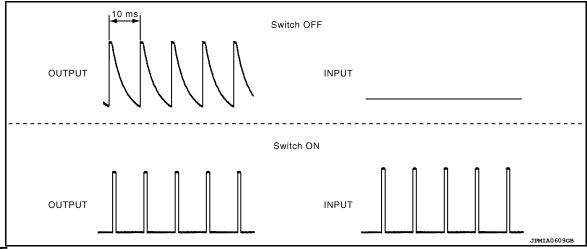
Combination switch INPUT-OUTPUT system list

Combination switch in	tor-corror system is	ા			
System	INPUT 1	INPUT 2	INPUT 3	INPUT 4	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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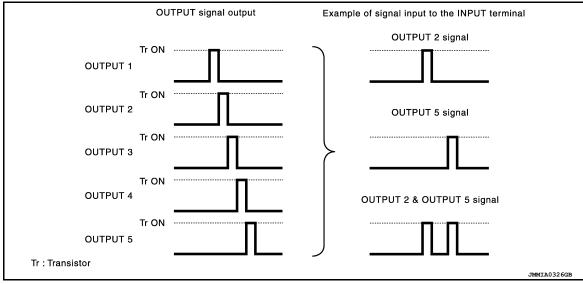
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- It reads this change of the voltage as the status signal of the combination switch.

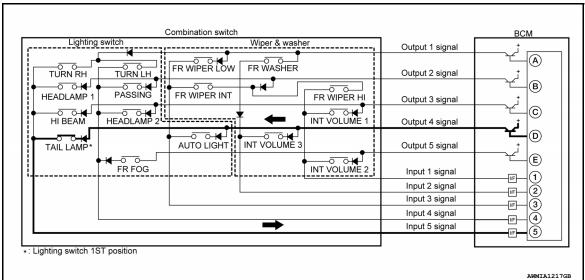


Operation Example

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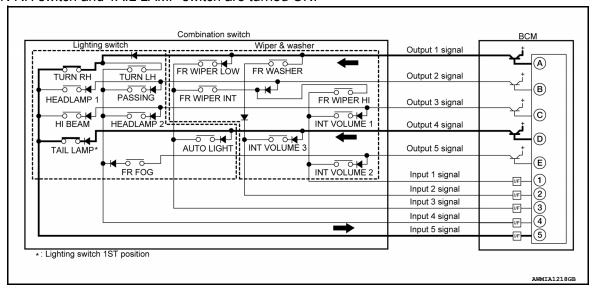
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The circuits between OUTPUT 1 and INPUT 5 and between OUTPUT 4 and INPUT 5 are formed when the TURN RH switch and TAIL LAMP switch are turned ON.



- 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.

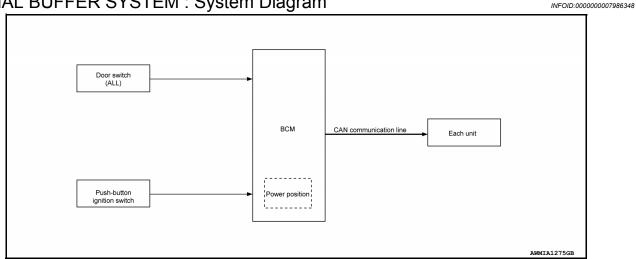
WIPER INTERMITTENT DIAL POSITION SETTING

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 1 INT VOLUME 2			
1	ON	ON	ON		
2	ON	ON	OFF		
3	ON	OFF	OFF		
4	OFF	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

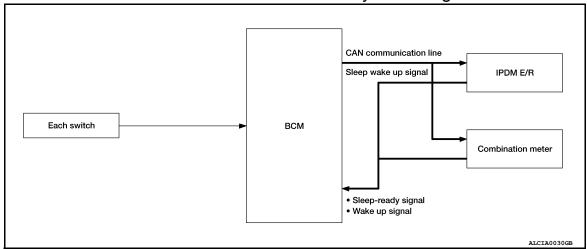
BCM has the signal transmission function that outputs/transmits each input/received signal to each unit. Signal transmission function list

Signal name	Input	Output	Description		
Ignition switch ON signalIgnition switch signal	Engine switch (push switch)	Inputs the push-button ignition switch (push switch) signal at transmits the ignition switch stus 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:0000000007986351

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

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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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[BCM]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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

SYSTEM APPLICATION

BCM can perform the following functions.

				Direct [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			×	×	×		
RAP system	RETAINED PWR			×				
Signal buffer system	SIGNAL BUFFER			×				
TPMS	AIR PRESSURE MONITOR		×	×	×	×		

DOOR LOCK

< SYSTEM DESCRIPTION > [BCM]

DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)

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SELF DIAGNOSTIC RESULT Refer to <u>BCS-49</u>, "<u>DTC Index"</u>.

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.
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.	
	Off	Automatic door locks function OFF.	
AUTO UNLOCK TYPE	MODE2	Driver door only unlocks automatically.	
AUTO UNLOCK TYPE	MODE1*	All doors unlock automatically.	
	MODE3	This mode is not used.	
ALITO 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	-	
AUTO UNLOCK FUNCTION	MODE3	This mode is not used.	
	MODE2	Doors unlock automatically when shifted into P (park).	
	MODE1*	Doors unlock automatically when ignition is switched from ON to OFF.	
	Off	-	

^{* :} Initial setting

REAR DEFOGGER

REAR DEFOGGER : CONSULT Function (BCM - REAR DEFOGGER)

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.			

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[BCM]

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
SET R-DEF TIMER	MODE3	Rear defogger turns OFF after 1 minute.
	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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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.			
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)

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DATA MONITOR

Monitor Item [Unit]	Description	
REQ SW -DR [On/Off]	Indicates condition of door request switch LH.	
REQ SW -AS [On/Off]	Indicates condition of door request switch RH.	
PUSH -SW [On/Off]	Indicates condition of push-button ignition switch.	
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor.	
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.	
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.	
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.	
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.	
DOOR SW-BK [On/Off]	Indicates condition of trunk switch.	

DESCRIPTION >	

Monitor Item [Unit]		Description				
CDL LOCK SW [On/Off]	Indicates cor	Indicates condition of lock signal from door lock and unlock switch.				
CDL UNLOCK SW [On/Off]	Indicates cor	Indicates condition of unlock signal from door lock and unlock switch.				
KEY CYL LK-SW [On/Off]	Indicates cor	Indicates condition of lock signal from door key cylinder switch.				
KEY CYL UN-SW [On/Off]	Indicates cor	ndition of unlock signal from door key cylinder switch.				
TRNK/HAT MNTR [On/Off]	Indicates cor	ndition of trunk room lamp switch.				
RKE-LOCK [On/Off]	Indicates cor	ndition of lock signal from Intelligent Key.				
RKE-UNLOCK [On/Off]	Indicates cor	ndition of unlock signal from Intelligent Key.				
ACTIVE TEST						
Test Item		Description				
INT LAMP	This test is a	able to check interior room lamp operation [On/Off].				
STEP LAMP TEST	This test is a	able to check step lamp operation [On/Off].				
WORK SUPPORT						
Support Item	Setting	Description				
CET I/I D LINII CIZ INITCON	On	Interior room lamp timer function ON.				
SET I/L D-UNLCK INTCON	Off*	Interior room lamp timer function OFF.				
500 LAMB 01/50005	On*	Fog lamp override function ON.				
FOG LAMP OVERRIDE *: Initial setting MULTI REMOTE ENT	Off	Fog lamp override function ON. Fog lamp override function OFF.				
*: Initial setting MULTI REMOTE ENT MULTI REMOTE ENT	Off					
* : Initial setting MULTI REMOTE ENT	Off	Fog lamp override function OFF. unction (BCM - MULTI REMOTE ENT)	7986358			
* : Initial setting MULTI REMOTE ENT MULTI REMOTE ENT : DATA MONITOR	off : CONSULT Fu	Fog lamp override function OFF. unction (BCM - MULTI REMOTE ENT)	7986358			
*: Initial setting MULTI REMOTE ENT MULTI REMOTE ENT DATA MONITOR Monitor Item [Unit]	Off : CONSULT Fu	Fog lamp override function OFF. Unction (BCM - MULTI REMOTE ENT) INFOID:000000000	7986358			
*: Initial setting MULTI REMOTE ENT MULTI REMOTE ENT DATA MONITOR Monitor Item [Unit] RKE-LOCK [On/Off]	Off : CONSULT Fu	Fog lamp override function OFF. unction (BCM - MULTI REMOTE ENT) INFOID:000000000 Description n of lock signal from keyfob.	7986358			
*: Initial setting MULTI REMOTE ENT MULTI REMOTE ENT DATA MONITOR Monitor Item [Unit] RKE-LOCK [On/Off] RKE-UNLOCK [On/Off]	Off : CONSULT Fu Indicates condition Indicates condition Indicates condition	Fog lamp override function OFF. Unction (BCM - MULTI REMOTE ENT) INFOID:000000000 Description In of lock signal from keyfob. In of unlock signal from keyfob.	7986358			
*: Initial setting MULTI REMOTE ENT MULTI REMOTE ENT DATA MONITOR Monitor Item [Unit] RKE-LOCK [On/Off] RKE-UNLOCK [On/Off] RKE-TR/BD [On/Off]	Off CONSULT Fu Indicates condition Indicates condition Indicates condition Indicates condition Indicates condition	Description n of lock signal from keyfob. n of trunk release signal from keyfob.	7986358			
*: Initial setting MULTI REMOTE ENT MULTI REMOTE ENT DATA MONITOR Monitor Item [Unit] RKE-LOCK [On/Off] RKE-UNLOCK [On/Off] RKE-TR/BD [On/Off] RKE-PANIC [On/Off]	Indicates condition	Description n of lock signal from keyfob. n of trunk release signal from keyfob. n of panic signal from keyfob. n of panic signal from keyfob.	7986358			
*: Initial setting MULTI REMOTE ENT MULTI REMOTE ENT DATA MONITOR Monitor Item [Unit] RKE-LOCK [On/Off] RKE-UNLOCK [On/Off] RKE-TR/BD [On/Off] RKE-PANIC [On/Off] RKE-P/W OPEN [On/Off]	Indicates condition	Description n of lock signal from keyfob. n of trunk release signal from keyfob. n of panic signal from keyfob. n of power window down signal from keyfob.				
*: Initial setting MULTI REMOTE ENT MULTI REMOTE ENT DATA MONITOR Monitor Item [Unit] RKE-LOCK [On/Off] RKE-UNLOCK [On/Off] RKE-PANIC [On/Off] RKE-PANIC [On/Off] RKE-P/W OPEN [On/Off] RKE-MODE CHG [On/Off]	Indicates condition	Description n of lock signal from keyfob. n of trunk release signal from keyfob. n of panic signal from keyfob. n of power window down signal from keyfob. n of mode change signal from keyfob.	7986358			
*: Initial setting MULTI REMOTE ENT MULTI REMOTE ENT DATA MONITOR Monitor Item [Unit] RKE-LOCK [On/Off] RKE-UNLOCK [On/Off] RKE-TR/BD [On/Off] RKE-PANIC [On/Off] RKE-P/W OPEN [On/Off] RKE-MODE CHG [On/Off] DOOR SW-DR [On/Off]	Indicates condition	Description n of lock signal from keyfob. n of trunk release signal from keyfob. n of panic signal from keyfob. n of power window down signal from keyfob. n of mode change signal from keyfob. n of mode change signal from keyfob. n of front door switch LH.	7986358			
*: Initial setting MULTI REMOTE ENT MULTI REMOTE ENT DATA MONITOR Monitor Item [Unit] RKE-LOCK [On/Off] RKE-UNLOCK [On/Off] RKE-PANIC [On/Off] RKE-PANIC [On/Off] RKE-P/W OPEN [On/Off] RKE-MODE CHG [On/Off] DOOR SW-DR [On/Off]	Indicates condition	Description n of lock signal from keyfob. n of unlock signal from keyfob. n of trunk release signal from keyfob. n of panic signal from keyfob. n of power window down signal from keyfob. n of mode change signal from keyfob. n of front door switch LH. n of front door switch RH.	7986358			
*: Initial setting MULTI REMOTE ENT MULTI REMOTE ENT DATA MONITOR Monitor Item [Unit] RKE-LOCK [On/Off] RKE-UNLOCK [On/Off] RKE-TR/BD [On/Off] RKE-PANIC [On/Off] RKE-P/W OPEN [On/Off] RKE-MODE CHG [On/Off] DOOR SW-DR [On/Off] DOOR SW-AS [On/Off]	Indicates condition	Description n of lock signal from keyfob. n of trunk release signal from keyfob. n of panic signal from keyfob. n of power window down signal from keyfob. n of mode change signal from keyfob. n of front door switch LH. n of rear door switch RH.	7986358			
*: Initial setting MULTI REMOTE ENT MULTI REMOTE ENT MULTI REMOTE ENT DATA MONITOR Monitor Item [Unit] RKE-LOCK [On/Off] RKE-UNLOCK [On/Off] RKE-PANIC [On/Off] RKE-PANIC [On/Off] RKE-PANIC [On/Off] RKE-MODE CHG [On/Off] DOOR SW-DR [On/Off] DOOR SW-AS [On/Off] DOOR SW-RR [On/Off]	Indicates condition	Description n of lock signal from keyfob. n of trunk release signal from keyfob. n of panic signal from keyfob. n of power window down signal from keyfob. n of mode change signal from keyfob. n of front door switch LH. n of rear door switch LH. n of rear door switch LH.	7986358			

ACTIVE TEST

KEY CYL UN-SW [On/Off]

Indicates condition of unlock signal from door key cylinder switch.

< SYSTEM DESCRIPTION >

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

Support Item		Setting	Description
DOOR LOCK-UNLOCK SET	On*		Automatic door locks function ON.
DOOR LOCK-UNLOCK SET	Off		Automatic door locks function OFF.
HORN CHIRP SET	Off		Horn chirp function can be changed in this mode.
HORN CHIRF SET	On*		Hom chilip function can be changed in this mode.
	MODE4*	Lock and Unlock	
HAZARD LAMP SET	MODE3	Lock Only	Hazard warning lamp function can be changed in this mode.
HAZAND LAWF 3LT	MODE2	Unlock Only	Trazard 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 alarm operation can be changed in this mode.
PANIC ALRM SET	MODE2	OFF	
	MODE1*	0.5 sec	
PW DOWN SET	MODE3	5 sec	
	MODE2	OFF	Keyfob power window down can be changed in this mode.
	MODE1*	3 sec	

^{*:} Initial setting

HEADLAMP

HEADLAMP : CONSULT Function (BCM - HEADLAMP)

INFOID:0000000007986359

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.

< SYSTEM DESCRIPTION >

[BCM]

Monitor Item [Unit]		Description	-		
TURN SIGNAL R [On/Off]					
TURN SIGNAL L [On/Off]					
TAIL LAMP SW [On/Off]					
HI BEAM SW [On/Off]					
HEAD LAMP SW 1 [On/Off]	Indicates co	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 co	ndition of front door switch LH.			
DOOR SW-AS [On/Off]	Indicates co	ndition of front door switch RH.			
DOOR SW-RR [On/Off]	Indicates co	ndition of rear door switch RH.			
DOOR SW-RL [On/Off]	Indicates co	ndition of rear door switch LH.			
DOOR SW-BK [On/Off]	Indicates co	ndition of trunk switch.			
OPTI SEN (DTCT) [V]	Indicates ou	tside brightness voltage signal from optical sensor.			
OPTI SEN (FILT) [V]	Indicates ou	tside brightness voltage signal from optical sensor filtered by BCM.			
		This test is able to check front fog lamp operation [On/Off].			
		Description This took is able to also also found for large an existing [On (Off)]			
FR FOG LAMP	This test is a	ble to check front fog lamp operation [On/Off].			
		ble to check front fog lamp operation [On/Off]. ble to check daytime running lamp operation [On/Off].			
DAYTIME RUNNING LIGHT	This test is a				
FR FOG LAMP DAYTIME RUNNING LIGHT ILL DIM SIGNAL WORK SUPPORT	This test is a	ble to check daytime running lamp operation [On/Off].			
DAYTIME RUNNING LIGHT ILL DIM SIGNAL	This test is a	ble to check daytime running lamp operation [On/Off].			
DAYTIME RUNNING LIGHT ILL DIM SIGNAL WORK SUPPORT Support Item	This test is a	ble to check daytime running lamp operation [On/Off]. ble to check head lamp illumination dimming operation [On/Off].			
DAYTIME RUNNING LIGHT ILL DIM SIGNAL WORK SUPPORT	This test is a This test is a	ble to check daytime running lamp operation [On/Off]. ble to check head lamp illumination dimming operation [On/Off]. Description			
DAYTIME RUNNING LIGHT ILL DIM SIGNAL WORK SUPPORT Support Item	This test is a This test is a Setting MODE2*	ble to check daytime running lamp operation [On/Off]. ble to check head lamp illumination dimming operation [On/Off]. Description Autolamp function ON.			
DAYTIME RUNNING LIGHT ILL DIM SIGNAL VORK SUPPORT Support Item TWILIGHT ON	This test is a This test is a Setting MODE2* MODE1	ble to check daytime running lamp operation [On/Off]. ble to check head lamp illumination dimming operation [On/Off]. Description Autolamp function ON. Autolamp function OFF.			
DAYTIME RUNNING LIGHT ILL DIM SIGNAL VORK SUPPORT Support Item TWILIGHT ON	Setting MODE2* MODE1 MODE4	ble to check daytime running lamp operation [On/Off]. ble to check head lamp illumination dimming operation [On/Off]. Description Autolamp function ON. Autolamp function OFF. This mode is not used.	— — — —		
DAYTIME RUNNING LIGHT ILL DIM SIGNAL VORK SUPPORT Support Item TWILIGHT ON	Setting MODE2* MODE1 MODE4 MODE3*	Description Autolamp function OFF. This mode is not used. Wiper link function operates in INT, LOW and HI.			
DAYTIME RUNNING LIGHT ILL DIM SIGNAL VORK SUPPORT Support Item TWILIGHT ON	Setting MODE2* MODE1 MODE4 MODE3* MODE2	ble to check daytime running lamp operation [On/Off]. ble to check head lamp illumination dimming operation [On/Off]. Description Autolamp function ON. Autolamp function OFF. This mode is not used. Wiper link function operates in INT, LOW and HI. Wiper link function operates in LOW and HI.			
DAYTIME RUNNING LIGHT ILL DIM SIGNAL VORK SUPPORT Support Item TWILIGHT ON WIPER LINK	Setting MODE2* MODE4 MODE3* MODE2 MODE1	Description Autolamp function OFF. This mode is not used. Wiper link function operates in LOW and HI. Wiper link function OFF. Wiper link function OFF. Wiper link function OFF.			
DAYTIME RUNNING LIGHT ILL DIM SIGNAL VORK SUPPORT Support Item TWILIGHT ON	Setting MODE2* MODE4 MODE3* MODE2 MODE4 MODE4 MODE2 MODE4 MODE4 MODE4 MODE4 MODE4	ble to check daytime running lamp operation [On/Off]. ble to check head lamp illumination dimming operation [On/Off]. Description Autolamp function ON. Autolamp function OFF. This mode is not used. Wiper link function operates in INT, LOW and HI. Wiper link function operates in LOW and HI. Wiper link function OFF. Less sensitive than normal setting (turns ON later).			
DAYTIME RUNNING LIGHT ILL DIM SIGNAL VORK SUPPORT Support Item TWILIGHT ON WIPER LINK	Setting MODE2* MODE1 MODE3* MODE2 MODE1 MODE4 MODE2 MODE1 MODE4 MODE3 MODE1 MODE4 MODE3	Description Description Autolamp function OFF. This mode is not used. Wiper link function operates in LOW and HI. Wiper link function OFF. Less sensitive than normal setting (turns ON later). More sensitive than MODE2.	——————————————————————————————————————		
DAYTIME RUNNING LIGHT ILL DIM SIGNAL VORK SUPPORT Support Item TWILIGHT ON WIPER LINK	Setting MODE2* MODE4 MODE3* MODE2 MODE1 MODE4 MODE3 MODE1 MODE4 MODE3 MODE1 MODE4 MODE4	ble to check daytime running lamp operation [On/Off]. ble to check head lamp illumination dimming operation [On/Off]. Description Autolamp function ON. Autolamp function OFF. This mode is not used. Wiper link function operates in INT, LOW and HI. Wiper link function operates in LOW and HI. Wiper link function OFF. Less sensitive than normal setting (turns ON later). More sensitive than normal setting (turns ON earlier).			
DAYTIME RUNNING LIGHT ILL DIM SIGNAL VORK SUPPORT Support Item TWILIGHT ON WIPER LINK	Setting MODE2* MODE1 MODE3* MODE2 MODE1 MODE4 MODE4 MODE4 MODE4 MODE4 MODE5 MODE1 MODE4 MODE4 MODE4 MODE5 MODE1 MODE4 MODE3 MODE1	ble to check daytime running lamp operation [On/Off]. ble to check head lamp illumination dimming operation [On/Off]. Description Autolamp function ON. Autolamp function OFF. This mode is not used. Wiper link function operates in INT, LOW and HI. Wiper link function operates in LOW and HI. Wiper link function OFF. Less sensitive than normal setting (turns ON later). More sensitive than normal setting (turns ON earlier).			
DAYTIME RUNNING LIGHT ILL DIM SIGNAL VORK SUPPORT Support Item TWILIGHT ON WIPER LINK	Setting MODE2* MODE1 MODE3* MODE2 MODE1 MODE4 MODE3 MODE2 MODE1 MODE4 MODE3 MODE1 MODE4 MODE3 MODE5 MODE1 MODE 8	ble to check daytime running lamp operation [On/Off]. ble to check head lamp illumination dimming operation [On/Off]. Description Autolamp function ON. Autolamp function OFF. This mode is not used. Wiper link function operates in INT, LOW and HI. Wiper link function operates in LOW and HI. Wiper link function OFF. Less sensitive than normal setting (turns ON later). More sensitive than normal setting (turns ON earlier).			
DAYTIME RUNNING LIGHT ILL DIM SIGNAL WORK SUPPORT Support Item TWILIGHT ON WIPER LINK CUSTOM A/LIGHT SETTING	Setting MODE2* MODE1 MODE3* MODE2 MODE1 MODE4 MODE3 MODE4 MODE3 MODE2 MODE1 MODE4 MODE3 MODE3 MODE5 MODE5 MODE7	ble to check daytime running lamp operation [On/Off]. ble to check head lamp illumination dimming operation [On/Off]. Description Autolamp function ON. Autolamp function OFF. This mode is not used. Wiper link function operates in INT, LOW and HI. Wiper link function operates in LOW and HI. Wiper link function OFF. Less sensitive than normal setting (turns ON later). More sensitive than MODE2. More sensitive than normal setting (turns ON earlier). Normal setting.			
DAYTIME RUNNING LIGHT ILL DIM SIGNAL VORK SUPPORT Support Item TWILIGHT ON WIPER LINK CUSTOM A/LIGHT SETTING	Setting MODE2* MODE1 MODE3* MODE2 MODE1 MODE4 MODE3 MODE2 MODE1 MODE4 MODE3 MODE5 MODE1 MODE4 MODE5 MODE6 MODE6	ble to check daytime running lamp operation [On/Off]. ble to check head lamp illumination dimming operation [On/Off]. Description Autolamp function ON. Autolamp function OFF. This mode is not used. Wiper link function operates in INT, LOW and HI. Wiper link function operates in LOW and HI. Wiper link function OFF. Less sensitive than normal setting (turns ON later). More sensitive than normal setting (turns ON earlier).			
DAYTIME RUNNING LIGHT ILL DIM SIGNAL WORK SUPPORT Support Item TWILIGHT ON WIPER LINK	Setting MODE2* MODE1 MODE3* MODE2 MODE1 MODE4 MODE3 MODE1 MODE4 MODE3 MODE2 MODE1 MODE3 MODE5 MODE1 MODE6 MODE 6 MODE 4	ble to check daytime running lamp operation [On/Off]. ble to check head lamp illumination dimming operation [On/Off]. Description Autolamp function ON. Autolamp function OFF. This mode is not used. Wiper link function operates in INT, LOW and HI. Wiper link function operates in LOW and HI. Wiper link function OFF. Less sensitive than normal setting (turns ON later). More sensitive than MODE2. More sensitive than normal setting (turns ON earlier). Normal setting.			

^{* :} Initial setting

WIPER

MODE 1*

< SYSTEM DESCRIPTION >

[BCM]

WIPER: CONSULT Function (BCM - WIPER)

INFOID:0000000007986360

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.					
FR WIPER HI [On/Off]						
FR WIPER LOW [On/Off]	Indicates condition of winer eneration of combination quitab					
FR WASHER SW [On/Off]	Indicates condition of wiper operation of combination switch.					
FR WIPER INT [On/Off]						
FR WIPER STOP [On/Off]	Indicates front wiper auto stop signal received from IPDM E/R on CAN communication line.					
INT VOLUME [1 – 7]	Indicates condition of intermittent wiper operation of combination switch.					

ACTIVE TEST

Test Item	Description		
FR WIPER	This test is able to check front wiper operation [Hi/Lo/INT/Off].		

WORK SUPPORT

Support Item	Setting	Description
WIPER SPEED SETTING	On	Front wiper intermittent time linked with vehicle speed and wiper dial position.
	Off*	Front wiper intermittent time linked with wiper dial position.

^{* :} Initial setting

FLASHER

FLASHER: CONSULT Function (BCM - FLASHER)

INFOID:0000000007986361

DATA MONITOR

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

ACTIVE TEST

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

AIR CONDITIONER

< SYSTEM DESCRIPTION >

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AIR CONDITIONER: CONSULT Function (BCM - AIR CONDITIONER)

INFOID:0000000007986362

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:0000000007986363

SELF DIAGNOSTIC RESULT Refer to <u>BCS-49</u>, "<u>DTC Index"</u>.

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.
PUSH SW [On/Off]		Indicates condition of push-button ignition switch.
SHIFTLOCK SOLENOID POWER SUP- PLY [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.
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.

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Monitor Item [Unit]	Main	Description
PRBT ENG STRT [Set/Reset]		Indicates condition of engine start prohibit.
ID VERI CANCL [STOP]		Indicates condition of Intelligent Key ID authentication.
ACC BATTERY SAVER [STOP]		Indicates condition of battery saver.
CRNK PRBT TMR [On/Off]		Indicates condition of crank prohibit timer.
AUT CRNK TMR [On/Off]		Indicates condition of automatic engine crank timer from Intelligent Key.
CRNK PRBT TME [sec]		Indicates condition of engine crank prohibit time.
AUTO CRNK TME [sec]		Indicates condition of automatic engine crank time from Intelligent Key.
CRANKING TME [sec]		Indicates condition of engine cranking time from Intelligent Key.
DETE SW PWR [On/Off]		Indicates condition of detent switch voltage.
ACC RLY -REQ [On/Off]		Indicates condition of accessory relay control request.
RKE OPE COUN1 [0-19]	×	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
RKE OPE COUN2 [0-19]	×	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
TRNK/HAT MNTR [On/Off]		Indicates condition of trunk room lamp switch.
RKE-LOCK [On/Off]		Indicates condition of lock signal from Intelligent Key.
RKE-UNLOCK [On/Off]		Indicates condition of unlock signal from Intelligent Key.
RKE-TR/BD [On/Off]		Indicates condition of trunk open signal from Intelligent Key.
RKE-PANIC [On/Off]		Indicates condition of panic signal from Intelligent Key.
RKE-MODE CHG [On/Off]		Indicates condition of mode change signal from Intelligent Key.

ACTIVE TEST

Test Item	Description
INTELLIGENT KEY LINK (CAN)	This test is able to check Intelligent Key identification number [Off/ID No1/ID No2/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].
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

< SYSTEM DESCRIPTION >

[BCM]

Support Item	Se	tting	Description	Α
IGN/ACC BATTERY SAVER	On*		Battery saver function ON.	•
IGN/ACC BALLERY SAVER	Off		Battery saver function OFF.	
DEMOTE ENOUGE OTABLED	On*		Remote engine start function ON.	В
REMOTE ENGINE STARTER	Off		Remote engine start function OFF.	
	BUZZER		Buzzer reminder function by door lock/unlock request switch ON.	С
ANOMEDDAOK LIKEV LOOK LINI OOK	HORN		Horn chirp reminder function by door lock request switch ON.	
ANSWERBACK I-KEY 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.	- E
ANSWER BACK	On*		Horn chirp reminder when doors are locked with Intelligent Key.	
ANSWER 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.	(
LOCK/UNLOCK BY I-KEY	On*		Door lock/unlock function from Intelligent Key ON.	•
LOCK UNLOCK BY I-KEY	Off		Door lock/unlock function from Intelligent Key OFF.	
ENGINE START BY I-KEY	On*		Engine start function from Intelligent Key ON.	- -
ENGINE START DT I-RET	Off		Engine start function from Intelligent Key OFF.	•
INTELLIGENT KEY LINK SET	On		Intelligent Key link set ON.	
INTELLIGENT RET LINK SET	Off*		Intelligent Key link set OFF.	
	Start	70 msec	Starter motor operation duration times.	-
CHORT OR ANIZING OUTPUT		100 msec		J
SHORT CRANKING OUTPUT		200 msec		
	End		_	K
INSIDE ANT DIAGNOSIS	-		This function allows inside key antenna self-diagnosis.	- I
	MODE7	5 min		•
	MODE6	4 min		L
	MODE5	3 min		
AUTO LOCK SET	MODE4	2 min	Auto door lock time can be set in this mode.	D.
	MODE3*	1 min		BC
	MODE2	30 sec		
	MODE1	Off	1	Ν

^{*:} Initial Setting

COMB SW

COMB SW: CONSULT Function (BCM - COMB SW)

INFOID:0000000007986364

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DATA MONITOR

Monitor Item [Unit]	Description
FR WIPER HI [On/Off]	
FR WIPER LOW [On/Off]	Indicates condition of wiper operation of combination switch.
FR WASHER SW [On/Off]	
FR WIPER INT [On/Off]	

< SYSTEM DESCRIPTION >

[BCM]

Monitor Item [Unit]	Description
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.
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.
HEAD LAMP SW 1 [On/Off]	Indicates condition of head lamp switch 1 operation of combination switch.
HEAD LAMP SW 2 [On/Off]	Indicates condition of head lamp switch 2 operation of combination switch.
PASSING SW [On/Off]	Indicates condition of passing switch operation of combination switch.
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.

BCM

BCM: CONSULT Function (BCM - BCM)

INFOID:0000000007986365

ECU IDENTIFICATION

The BCM part number is displayed.

SELF DIAGNOSTIC RESULT

Refer to BCS-49, "DTC Index".

WORK SUPPORT

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

CONFIGURATION

Refer to BCS-62, "CONFIGURATION (BCM): Description".

CAN DIAG SUPPORT MNTR

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

IMMU

IMMU: CONSULT Function (BCM - IMMU)

INFOID:0000000007986366

SELF DIAGNOSTIC RESULT Refer to <u>BCS-49</u>, "DTC <u>Index"</u>.

DATA MONITOR

Monitor Item [Unit]	Description
CONFRM ID ALL [Yet/DONE]	·
CONFIRM ID4 [Yet/DONE]	
CONFIRM ID3 [Yet/DONE]	Switches to DONE when an Intelligent Key is registered.
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.

< SYSTEM DESCRIPTION > [BCM]

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:0000000007986367

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DATA MONITOR

Monitor Item [Unit]	Description
REQ SW -DR [On/Off]	Indicates condition of door request switch LH.
REQ SW -AS [On/Off]	Indicates condition of door request switch RH.
PUSH SW [On/Off]	Indicates condition push-button ignition switch.
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
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:0000000007986368

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.
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

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< SYSTEM DESCRIPTION >

[BCM]

THEFT ALM: CONSULT Function (BCM - THEFT ALM)

INFOID:0000000007986369

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.
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.
	Off	Security alarm OFF.

RETAINED PWR

RETAINED PWR: CONSULT Function (BCM - RETAINED PWR)

INFOID:0000000007986370

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:0000000007986371

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DATA MONITOR

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)

INFOID:0000000007986372

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

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-49, "DTC Index".

DATA MONITOR

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].
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-24, "Description".

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		
ACC RLT -REQ	When BCM is requesting accessory relay activation.	On		
AIR COND SW	A/C switch OFF	Off		
AIR COND 3W	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 ODNIK TMD	When the remote engine start timer is OFF.	Off		
AUTO CRNK TMR	When the remote engine start timer is ON.	On		
ALITO LICUT CW	Lighting switch OFF	Off		
AUTO LIGHT SW	Lighting switch AUTO	On		
BRAKE SW 1	When the brake pedal is released	On		
DRAKE SW I	When the brake pedal is depressed	Off		
BRAKE SW2	Brake pedal released	Off		
DRAKE SWZ	Brake pedal depressed	On		
BUZZER	Buzzer in combination meter OFF	Off		
BUZZEK	Buzzer in combination meter ON	On		
CDL LOCK SW	Door lock/unlock switch does not operate	Off		
CDL LOOK SW	Press door lock/unlock switch to the LOCK side	On		
CDL UNLOCK SW	Door lock/unlock switch does not operate	Off		
CDL UNLOCK SW	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		
CONTRIVID ALL	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		
COM INWID4	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		
COM INWIDS	The key ID matches the third key ID registered to BCM.	DONE		

< ECU DIAGNOSIS INFORMATION >

[BCM]

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
CONFIRM IDT	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
CRINCERDI TIVIR	When the engine start prohibit timer is ON.	On
DETE SW -IPDM	When selector lever is in P position	Off
DETE 3W -IF DIVI	When selector lever is in any position other than P	On
DETE SW PWR	When BCM is not supplying power to detent switch.	Off
DETESWEWK	When BCM is supplying power to detent switch.	On
DETE/CANCL SW	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
D00D 0W 40	Front door RH closed	Off
DOOR SW-AS	Front door RH opened	On
	Trunk closed	Off
DOOR SW-BK	Trunk opened	On
D00D 0W DD	Front door LH closed	Off
DOOR SW-DR	Front door LH opened	On
D00D 0W 5'	Rear door LH closed	Off
DOOR SW-RL	Rear door LH opened	On
D00D0:::: ==	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 >

[BCM]

Monitor Item	Condition	Value/Status
FR WASHER SW	Front washer switch OFF	Off
I IV WASHEN SW	Front washer switch ON	On
FR WIPER LOW	Front wiper switch OFF	Off
TICVIII EICEOV	Front wiper switch LO	On
FR WIPER HI	Front wiper switch OFF	Off
IIV VVII LIVIII	Front wiper switch HI	On
FR WIPER INT	Front wiper switch OFF	Off
FR WIFER IN	Front wiper switch INT	On
FR WIPER STOP	Any position other than front wiper stop position	Off
I IX WIF LIX 310F	Front wiper stop position	On
HAZADD CW	When hazard switch is not pressed	Off
HAZARD SW	When hazard switch is pressed	On
HEAD LAMD CV// 1	Headlamp switch OFF	Off
HEAD LAMP SW 1	Headlamp switch 1st	On
LIEAD LAMB OM O	Headlamp switch OFF	Off
HEAD LAMP SW 2	Headlamp switch 1st	On
LILDEANA CVA	High beam switch OFF	Off
HI BEAM SW	High beam switch HI	On
ID VERI CANCL	When I-Key authentication is OFF.	STOP
ID 01/ 51 4 0	Ignition switch ACC or ON	Reset
ID OK FLAG	Ignition switch OFF	Set
ID DECOT EL 4	ID registration of front left tire incomplete	YET
ID REGST FL1	ID registration of front left tire complete	DONE
ID DECOT ED4	ID registration of front right tire incomplete	YET
ID REGST FR1	ID registration of front right tire complete	DONE
ID DECOT DL 4	ID registration of rear left tire incomplete	YET
ID REGST RL1	ID registration of rear left tire complete	DONE
	ID registration of rear right tire incomplete	YET
ID REGST RR1	ID registration of rear right tire complete	DONE
	Ignition switch OFF or ACC	Off
IGN RLY1 F/B	Ignition switch ON	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
	I-Key OFF	Key OFF
I-KEY OK FLAG	I-Key ON	Key ON
	Door key cylinder LOCK position	Off
KEY CYL LK-SW	Door key cylinder other than LOCK position	On
	Door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Door key cylinder other than UNLOCK position	On
	Bright outside of the vehicle	Close to 5V
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		-

< ECU DIAGNOSIS INFORMATION >

[BCM]

Monitor Item	Condition	Value/Status	
PRBT ENG STRT	When the engine start is prohibited	Reset	
RDI ENG SIKI	When the engine start is permitted	Set	
PRMT ENG STRT	When the engine start is prohibited	Reset	
RIVIT ENG STRT	When the engine start is permitted	Set	
DOME DIVE STOT	When the engine start is prohibited	Reset	
PRMT RKE STRT	When the engine start is permitted	Set	
NICH CW	Return ignition switch to LOCK position	Off	
PUSH SW	Press ignition switch	On	
NICH CW IDDM	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	
NEO OWA A O	When passenger door request switch is not pressed	Off	
REQ SW-AS	When passenger door request switch is pressed	On	
DEO SW DD	When driver door request switch is not pressed	Off	
REQ SW-DR	When driver door request switch is pressed	On	
DKE I OCK	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	
DIVE DANIE	When PANIC button of Intelligent Key is not pressed	Off	
RKE-PANIC	When PANIC button of Intelligent Key is pressed	On	
DIVE DAM ODEN	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	
NE TO/DD	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	E
	When selector lever is in any position other than N	Off	
SFT N-MET	When selector lever is in N position	On	
DET D MET	When selector lever is in any position other than P	Off	
SFT P-MET	When selector lever is in P position	On	
OFT DAL IDDA	When selector lever is in any position other than P or N	Off	
FT 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	
SHIFTLOCK SOLE-	When BCM is not supplying power to shiftlock.	Off	
OID POWER SUPPLY	When BCM is supplying power to shiftlock.	On	
	Other than lighting switch 1ST and 2ND	Off	
TAIL LAMP SW	Lighting switch 1ST or 2ND	On	

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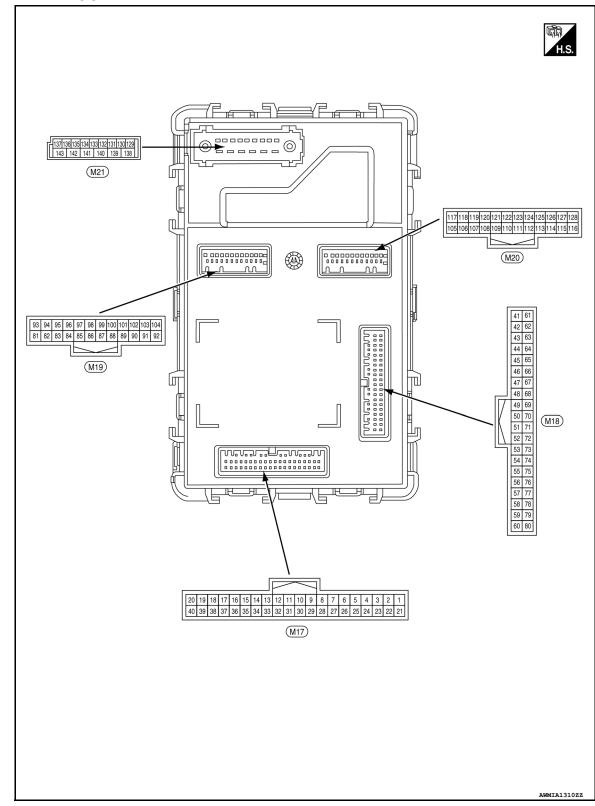
< ECU DIAGNOSIS INFORMATION >

[BCM]

Monitor Item	Condition	Value/Status
TP 4	The ID of fourth key is not registered to BCM	Yet
124	The ID of fourth key is registered to BCM	DONE
TP 3	The ID of third key is not registered to BCM	Yet
1173	The ID of third key is registered to BCM	DONE
TD 0	The ID of second key is not registered to BCM	Yet
TP 2	The ID of second key is registered to BCM	DONE
TD 4	The ID of first key is not registered to BCM	Yet
TP 1	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 CM	Trunk opener switch OFF	Off
TR/BD OPEN SW	While the trunk opener switch is turned ON	On
TRNK/HAT MNTR	Trunk lid closed	Off
TRINCHAL WINTE	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
I UKIN SIGNAL K	Turn signal switch RH	On
UNLK SEN-DR	Driver door UNLOCK status	Off
UINLN SEIN-DK	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
WARNING LAMP	Low tire pressure warning lamp in combination meter OFF	Off
WAINING LAWF	Low tire pressure warning lamp in combination meter ON	On

[BCM]

TERMINAL LAYOUT



PHYSICAL VALUES

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Term	inal No.	Description				
	e color)	Signal name Input/			Condition	Value (Approx.)
(+)	(-)	Signal flame	Output			
1	Ground	Engine start switch	Input	Push-button igni-	Pressed	0V
(R)				tion switch	Not pressed	Battery voltage
3	Ground	Auto light power sup-	Output	Push-button igni- tion switch	OFF	0V
(BR)		ply 5V		tion switch	ACC or ON	5V
4	Ground	Auto light signal	Input	Push-button igni-	When outside of the vehi- cle is bright	Close to 5V
(Y)		· · · · · · · · · · · · · · · · · · ·	,	tion switch ON	When outside of the vehi- cle is dark	Close to 0V
					OFF	0V
					TURN RH	
				Combination	HEADLAMP 1	(V) 15
10	Ground	Combination switch	Input	switch	HI BEAM	10
(W)	O. Canta	input 5	,	(Wiper intermit- tent dial 4)	TAIL LAMP	0 → 10ms PKIB4958J 1.0V
					OFF	0V
					TURN LH	
	Ground	Combination switch input 4	Input		PASSING	(V) 15
11				Combination switch	HEADLAMP 2	10
(BG)				(Wiper intermittent dial 4)	FR FOG	→ +10ms PKIB4958J
						1.0V
					OFF	0V
					FR WIPER LOW	40
				Combination	FR WIPER INT/AUTO	(V) 15
12 (W)	Ground	Combination switch input 3	Input	switch (Wiper intermit- tent dial 4)	AUTO LIGHT	10 5 0 → +10ms PKIB4958J
						1.0V
					OFF	0V
					FR WASHER	40
13 (G)	Ground	Combination switch input 2	Input	Combination switch (Wiper intermit- tent dial 4)	INT VOLUME 3	(V) 15 10 5 0 → +10ms PKIB4958J
						1.0V

< ECU DIAGNOSIS INFORMATION >

[BCM]

Terminal No. (Wire color)		Description			Condition	Value	
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	
				Combination	OFF FR WIPER HI INT VOLUME 1	0V	В
14 (P) Ground	Combination switch input 1	Input	switch (Wiper intermit- tent dial 4)	INT VOLUME 2	* *10ms PKIB4958J	C D	
17 (B)	Ground	Auto light reference ground	Input	Push-button ignition	on switch ON	1.0V 0V	E
		0 11			ON	0V	=
18 (G)	Ground	Security indicator	Output	Security indicator	Blinking	(V) 15 10 5 0 1 s JPMIA0014GB	F G
					OFF	Battery voltage	-
19	Ground	Lock switch signal	Input	Door lock/unlock	Lock	Battery voltage	- 1
(G)		-		switch	Unlock	0V	=
20 (W)	Ground	Shift P	Input	Selector lever	P position Any position other than P	0V Battery voltage	J
21	Ground	Step lamp control	Output	Step lamp	ON	0V	=
(W)	Giodila	Step lamp control	Output	Step lamp	OFF	Battery voltage	K
23	Ground	Compressor ON sig-	Input	A/C switch	OFF	9.0 - 12.0V	-
(L)		nal	•		ON	0V	. ,
24 (G)	Ground	Front door lock as- sembly LH (key cylin- der switch)	Input	Key cylinder switch	OFF (neutral) ON (unlock)	5V 0V	
25 (BG)	Ground	Brake switch fuse	Input		_	Battery voltage	ВС
26 (Y)	Ground	Shorting input	Input	Push-button ignition	on switch OFF	Battery voltage	N
27	On-section	Droke switch to	los es d	Oton Issues 197	OFF (brake pedal is not depressed)	0V	
(G)	Ground	Brake switch lamp	Input	Stop lamp switch	ON (brake pedal is depressed)	Battery voltage	О
29	Ground	Front blower monitor	Input	Front blower mo-	ON	Battery voltage	-
(Y)	Cround	TOTAL DIOWEL HIDHILDI	mput	tor switch	OFF	0V	Р

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
30 (P)	Ground	Driver door lock status	Input	Front door LH	LOCK status	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V
					UNLOCK status	0V
32	Ground	Rear window defog-	Input	Rear window de-	OFF	5V
(Y)	Giodila	ger ON signal	IIIput	fogger switch	ON	0V
34	Ground	Unlock switch signal	Input	Door lock/unlock	Unlock	Battery voltage
(BG)		<u> </u>	'	switch	Lock	0V
					Pressed	0V
36 (Y)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 10 ms 1.1V
37 (G)	Ground	Trunk lid opener can- cel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1V
					ON	0V
39	Ground	Shift N/P	Input	Selector lever	P or N position	Battery voltage
(L)	2.00110		put		Except P and N positions	0V
48	Ground	High side start switch	Output	Push-button igni- tion switch illumi-	ON	5.5V
(BR)	Orouna	LED	Output	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 JPMIA0013GB
					OFF or ACC	0V
59 (P)	Ground	CAN low	Input/ Output		_	_

< ECU DIAGNOSIS INFORMATION >

(Miro color)		Description				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	62	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)	Oround	Buzzer output	Output	buzzer	Not sounding	Battery voltage	
66	Ground	Blower fan relay out-	Output	Push-button igni-	OFF or ACC	0V	
(R)	Ground	put	Cuiput	tion switch	ON	Battery voltage	
67	Ground	Ignition electrical re-	Output	Push-button igni-	OFF or ACC	0V	
(W)	Ground	lay output 2	Output	tion switch	ON	Battery voltage	
68 (P)	(-round Limmer eignal output Clut		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)	0V		
					cle is dark (Block the	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	Battery voltage	
(G)	Ground	output 1	Cuiput	tion switch	ON	0V	
					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 >

	inal No. e color)	Description	1			Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
74		Front door lock as-		Front door lock	OFF (neutral)	5V
(P)	Ground	sembly LH (key cylin- der switch) (lock)	Input	assembly LH (key cylinder switch)	ON (lock)	0V
75	Ground	nd Combination switch output 5	Output	Combination switch (Wiper intermittent dial 4)	OFF	(V) 15 10 5 0 ***10ms PKIB4960J 7.0 - 8.0V
(BG)	Ground				INT VOLUME 2	
					FR FOG	(V) 15 10 5 0 ++10ms PKIB4958J 1.2V
76	Ground	Combination switch		Combination switch	OFF	(V) 15 10 5 0 ***10ms PKIB4960J 7.0 — 8.0V
(W)	Ground	output 4	Output	(Wiper intermit- tent dial 4)	INT VOLUME 3	
				tent ulai 4)	AUTO LIGHT	(V) 15
					TAIL LAMP	10 5 0 → +10ms PKIB4958J
						1.2V

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	
					OFF	(V) 15 10 5 0	
77 (R)	Ground	Combination switch output 3	Output	Combination switch (Wiper intermit- tent dial 4)	INT VOLUME 1 HEADLAMP 2	7.0 – 8.0V	
					HI BEAM	0 → +10ms	
						1.2V	
78		Combination switch	OFF	(V) 15 10 5 0 → 10ms PRIB4960J 7.0 − 8.0V			
(P)	Ground	output 2	Output	(Wiper intermit- tent dial 4)	FR WIPER HI	///	
					PASSING HEADLAMP 1	(V) 15 10 5 0	
						PKIB4958J 1.2V	
					OFF	(V) 15 10 5 0	
79	Ground	Combination switch	Output	Combination switch		7.0 – 8.0V	
(G) Ground	Ground	output 1	Julput	(Wiper intermit- tent dial 4)	FR WASHER FR WIPER LOW TURN LH	(V) 15 10 5 0	
				TURN RH	→ +10ms PKIB4958J 1.2V		

< ECU DIAGNOSIS INFORMATION >

	inal No.	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)	Ground	Trank room lamp	ошри	Trainic room lamp	OFF	Battery voltage
91	91	Trunk lid opening	Output	Trunk lid	Open (trunk lid opener actuator is activated)	Battery voltage
(V)	Ground	Trunk ild opening		TTUTIK IIU	Close (trunk lid opener actuator is not activated)	0V
					Turn signal switch OFF	0V
92 (LG)	Ground	Right rear flasher	Output	Push-button ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s 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
					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 11.8 V
					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)	0V
99	Ground	Rear parcel shelf an-	Outout	Push-button igni-	When Intelligent Key is in the passenger compart- ment	(V) 15 10 1
(G)	Ground	tenna B	Output	Push-button ignition switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 S MKIA0063GB
100	Comment	Rear parcel shelf an-	0.	Push-button igni-	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(R)	Ground	tenna A	Output	tion switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 1 1 1 1 1 1 1 1 1 1

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
101	Constant	Rear bumper anten-	0.4.4	When the trunk request switch is	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(G)	Ground	na B	Output	operated with push-button ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
102	Ground	Rear bumper anten-	Output	When the trunk request switch is operated with push-button ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(W)	Glouliu	na A	Cutput		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 Any position other than R	(V) 15 10 5 0 1 s PKID0926E 6.5V

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		- ····		Value	
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	
					Turn signal switch OFF	0V	
105 (BR)	Ground	Right front flasher	Output	Push-button ignition switch ON	Turn signal switch RH	(V) 15 10 5 1 s	
					OFF	6.5 V 0V	
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	(V) 10 0 2 ms JSNIA0010GB	
108	Cround	Shift lock solenoid	Innut	Input Selector lever	P position	0V	
(BG) Ground output Inc	IIIput	Selector level	Any position other than P	Battery voltage			
109	Poverse signal	Ontont	Push-button igni-	R position	Battery voltage		
(G)	Ground	Reverse signal	Output	tion switch ON	Any position other than R	0V	
111	Cressia	ACCLED	Outer	Push-button igni-	OFF	Battery voltage	
(Y)	Ground	ACC LED	Output	tion switch	ACC or ON	0V	
113	0-4	A00 malau a 1 a 1	0	Push-button igni-	OFF	0V	
(P)	Ground	ACC relay output	Output	tion switch	ACC or ON	Battery voltage	
					When Intelligent Key is in the antenna detection area	(V) 15 10 5 0	
114 (P)	Ground	Outside key antenna RH A	Output	When the front door RH request switch is operat-		JMKIA0062GB	
(P)	INTA		ed with push-but- ton ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0		
					1 S		

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description		Condition		Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
115	Ground	Outside key antenna		When the front door RH request switch is operat-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0062GB
(R)	Glound	RH B	Cutput	ed with push-but- ton ignition switch OFF When Intelligent Key is	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
116	Front console anten-	Push-button igni-	When Intelligent Key is in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0062GB		
(W)	Ground	na A	Output	Push-button ignition switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
					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

< ECU DIAGNOSIS INFORMATION >

	ninal No.	Description				Value	
(+)	re color)	Signal name	Input/ Output		Condition	(Approx.)	
119		Remote keyless entry	Input/	Duch button igni	Standby state	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
(G)	Ground	receiver signal	Output	Push-button ignition switch ON	When receiving the signal from the transmitter	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
121		Outside key antenna		When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 1 1 1 1 1 1 1 1 1 1	
(R)	Ground	LHB	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 5 0 1 s JMKIA0063GB	
122		Outside key antenna		When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(P)	Ground	LH A	Output	switch is operated with push-button ignition switch	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0063GB	

< ECU DIAGNOSIS INFORMATION >

	inal No.	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	Ground	Front console anten-	Output	Push-button igni-	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 S S S S S S S S S
(BG)	(BG) Ground na B	Cutput	tion switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s	
129	Ground	Battery saver output	Output	After passing the ir er operation time	nterior room lamp battery sav-	0V
(G)	Ground	Ballery Saver Output	Output	Any other time after lamp battery saver	er passing the interior room operation time	Battery voltage
130	Ground	Passenger door un-	Output	Front door RH	UNLOCK (actuator is activated)	Battery voltage
(SB)	Giodila	lock	Output	T TOTAL GOOT TATE	Other than UNLOCK (actuator is not activated)	0V
131 (W)	Ground	BCM battery fuse	Input	Push-button ignition	on switch OFF	Battery voltage
132	Ground	Rear door lock	Output	All doors	LOCK (actuator is activated)	Battery voltage
(L)	Giodila	Real door lock	Output	All doors	Other than LOCK (actuator is not activated)	0V
133	Ground	Rear door unlock	Output	Rear door RH	UNLOCK (actuator is activated)	Battery voltage
(Y)	Giouria	Real door unlock	Output	and rear door LH	Other than UNLOCK (actuator is not activated)	0V
134 (B)	Ground	Ground 2	_	Push-button ignition	on switch ON	0V
135 (BR)	Ground	Driver, passenger and fuel door lock	Output	All doors	LOCK (actuator is activated)	Battery voltage
(DIX)		and idel door look			Other than LOCK (actuator is not activated)	0V
136 (P)	Ground	Room lamp control	Output	Interior room lamp	OFF ON	Battery voltage 0V

< ECU DIAGNOSIS INFORMATION >

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	inal No.	Description				Value	
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	
137	137 Ground Driver and fuel door unlock Out	Driver and fuel door			UNLOCK (actuator is activated)	Battery voltage	
(V)		Output	Front door LH	Other than UNLOCK (actuator is not activated)	0V		
138 (V)	Ground	Rear door battery	Input	Push-button ignition switch OFF		Battery voltage	
139 (W)	Ground	Fusible link battery power	Input	Push-button ignition switch OFF		Battery voltage	
140 (LG)	Ground	Power window ignition power supply	Output	Push-button ignition switch ON		Battery voltage	
141 (V)	Ground	Power window bat- tery power supply	Output	Push-button ignition switch OFF		Battery voltage	
142 (BR)	Ground	Front door battery	Input	Push-button ignition 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:0000000007986394

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

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< ECU DIAGNOSIS INFORMATION >

Priority	DTC
1	B2562: LOW VOLTAGE
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)
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
4	 B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP SW B2605: PNP SW B2605: STARTER RELAY B2606: IGNITION RELAY B2607: IGNITION RELAY B2614: ACC RELAY CIRC B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC B2618: BCM B2618: PCM B2618: RES ENG RUN B2618: RES ENG RUN B2619: VEHICLE TYPE B2671: IGNITION RELAY B2672: IGNITION RELAY B2676: BCM B2676: SHIFT LOCK SOLENOID B2676: HOOD SWITCH B2676: ITTELLIGENT TUNER C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG

< ECU DIAGNOSIS INFORMATION >

[BCM]

Priority	DTC	Δ.
	C1704: LOW PRESSURE FL	— A
	C1705: LOW PRESSURE FR	
	C1706: LOW PRESSURE RR	
	C1707: LOW PRESSURE RL	В
	• C1708: [NO DATA] FL	
	• C1709: [NO DATA] FR	
	• C1710: [NO DATA] RR	С
	C1711: [NO DATA] RL C1712: [CHECKSUM ERR] FL	
	C1713: [CHECKSUM ERR] FR	
	C1714: [CHECKSUM ERR] RR	
	C1715: [CHECKSUM ERR] RL	D
	C1716: [PRESSDATA ERR] FL	
	C1717: [PRESSDATA ERR] FR	
5	C1718: [PRESSDATA ERR] RR	Е
3	C1719: [PRESSDATA ERR] RL	
	C1720: [CODE ERR] FL	
	• C1721: [CODE ERR] FR	
	C1722: [CODE ERR] RR C1722: [CODE ERR] RR	F
	C1723: [CODE ERR] RL C1724: [BATT VOLT LOWI FL	
	C1724. [BATT VOLT LOW] FL C1725: [BATT VOLT LOW] FR	
	C1726: [BATT VOLT LOW] TR	0
	C1727: [BATT VOLT LOW] RL	G
	• C1730: FLAT TIRE FL	
	C1731: FLAT TIRE FR	
	C1732: FLAT TIRE RR	Н
	C1733: FLAT TIRE RL	
	C1734: CONTROL UNIT	
	C1735: IGNITION SIGNAL	1
6	B2621: INSIDE ANTENNA	_
	B2622: INSIDE ANTENNA	
7	B259A: ROOM LAMP FUSE	.1

DTC Index

NOTE:

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INFOID:0000000007986395

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-65, "Description"
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-66, "DTC Logic"
U0415: VEHICLE SPEED SIG	_	_	_	BCS-67, "Description"
B2190: NATS ANTENNA AMP	×	_	_	SEC-83, "Description"
B2191: DIFFERENCE OF KEY	×	_	_	SEC-85, "Description"
B2192: ID DISCORD BCM-ECM	×	_	_	SEC-86, "DTC Logic"
B2193: CHAIN OF BCM-ECM	×	_	_	SEC-87, "DTC Logic"
B2195: ANTI SCANNING	×	_	_	SEC-88, "DTC Logic"

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CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2196: DONGLE UNIT	_	_	_	SEC-89, "Description"
B2198: NATS ANTENNA AMP.	_	_	_	SEC-91, "DTC Logic"
B2555: STOP LAMP	_	_	_	SEC-93, "DTC Logic"
B2556: PUSH-BTN IGN SW	_	×	_	SEC-96, "DTC Logic"
B2557: VEHICLE SPEED	_	×	_	SEC-98, "DTC Logic"
B2560: STARTER CONT RELAY	×	×	_	SEC-99, "Description"
B2562: LOW VOLTAGE	×	_	_	BCS-68, "DTC Logic"
B259A: ROOM LAMP FUSE	_	_	_	BCS-69, "DTC Logic"
B2601: SHIFT POSITION	_	×	_	SEC-100, "DTC Logic"
32602: SHIFT POSITION	_	×	_	SEC-103, "DTC Logic"
B2603: SHIFT POSI STATUS	_	×	_	SEC-105, "DTC Logic"
B2604: PNP SW		×		SEC-109, "DTC Logic"
B2605: PNP SW		×	_	SEC-112, "DTC Logic"
B2608: STARTER RELAY	×	×	_	SEC-115, "DTC Logic"
B260A: IGNITION RELAY	×	×	_	PCS-57, "DTC Logic"
B2614: ACC RELAY CIRC	_	×	_	PCS-59, "DTC Logic"
B2615: BLOWER RELAY CIRC	_	×	_	PCS-61, "DTC Logic"
B2616: IGN RELAY CIRC	_	×	_	PCS-63, "DTC Logic"
B2617: STARTER RELAY CIRC	×	×	_	SEC-117, "Description"
B2618: BCM	×	×	_	PCS-65, "DTC Logic"
B261A: PUSH-BTN IGN SW	_	×	_	PCS-67, "DTC Logic"
B261B: RES ENG RUN	_	_	_	DLK-86, "DTC Logic"
B261E: VEHICLE TYPE	×	× (Turn ON for 15 seconds)	_	SEC-119, "Description"
B2621: INSIDE ANTENNA	_	_	_	DLK-87, "DTC Logic"
B2622: INSIDE ANTENNA	_	_	_	DLK-89, "DTC Logic"
B26F1: IGNITION RELAY	_	_	_	PCS-69, "DTC Logic"
B26F2: IGNITION RELAY	_	_	_	PCS-71, "DTC Logic"
B26F6: BCM	_	_	_	PCS-73, "DTC Logic"
B26FD: SHIFT LOCK SOLENOID	_	_	_	DLK-91, "DTC Logic"
B26FE: HOOD SWITCH				DLK-94, "DTC Logic"
B26FF: REMOTE KEYLESS ENTRY RE- CEIVER	_	_	_	DLK-96, "DTC Logic"
C1704: LOW PRESSURE FL	_	_	×	
C1705: LOW PRESSURE FR	_	_	×	WT 26 "DTC Logic"
C1706: LOW PRESSURE RR	_	_	×	WT-26, "DTC Logic"
C1707: LOW PRESSURE RL	_	_	×	
C1708: [NO DATA] FL	_	_	×	
C1709: [NO DATA] FR	_	_	×	\\/T 20
C1710: [NO DATA] RR	_	_	×	WT-28, "DTC Logic"
C1711: [NO DATA] RL	_	_	×	

< ECU DIAGNOSIS INFORMATION >

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CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page	А
C1712: [CHECKSUM ERR] FL	_	_	×		•
C1713: [CHECKSUM ERR] FR	_	_	×	WT-31, "DTC Logic"	В
C1714: [CHECKSUM ERR] RR	_	_	×	W1-31, DTC Logic	
C1715: [CHECKSUM ERR] RL	_	_	×		C
C1716: [PRESSDATA ERR] FL	_	_	×		
C1717: [PRESSDATA ERR] FR	_	_	×	WT-33, "DTC Logic"	
C1718: [PRESSDATA ERR] RR	_	_	×	W1-33, D10 Logic	D
C1719: [PRESSDATA ERR] RL	_	_	×		
C1720: [CODE ERR] FL	_	_	×		Е
C1721: [CODE ERR] FR	_	_	×	WT-34, "DTC Logic"	_
C1722: [CODE ERR] RR	_	_	×	WI-S-, DIO LOGIC	
C1723: [CODE ERR] RL	_	_	×		F
C1724: [BATT VOLT LOW] FL	_	_	×		
C1725: [BATT VOLT LOW] FR	_	_	×	WT-36, "DTC Logic"	
C1726: [BATT VOLT LOW] RR	_	_	×	<u>W1-30, D10 Logic</u>	G
C1727: [BATT VOLT LOW] RL	_	_	×		
C1729: VHCL SPEED SIG ERR	_	_	×	WT-38, "DTC Logic"	Н
C1730: FLAT TIRE FL	_	_	×		=
C1731: FLAT TIRE FR	_	_	×	WT-39, "DTC Logic"	
C1732: FLAT TIRE RR	_	_	×	W1-39, DTC Logic	
C1733: FLAT TIRE RL	_	_	×		
C1734: CONTROL UNIT	_	_	×	WT-41, "DTC Logic"	J
C1735: IGNTION SIGNAL	_	_	×	WT-43, "DTC Logic"	

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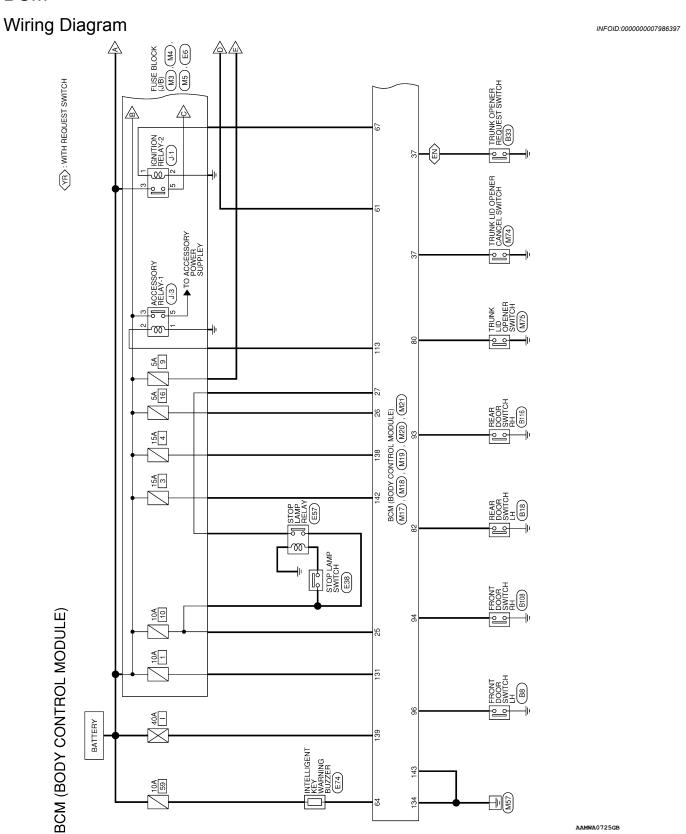
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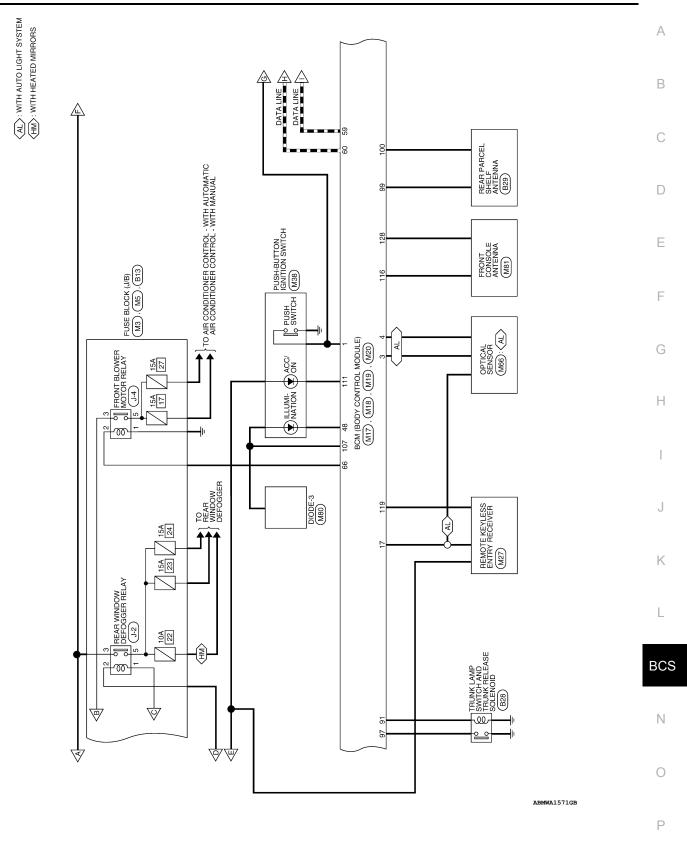
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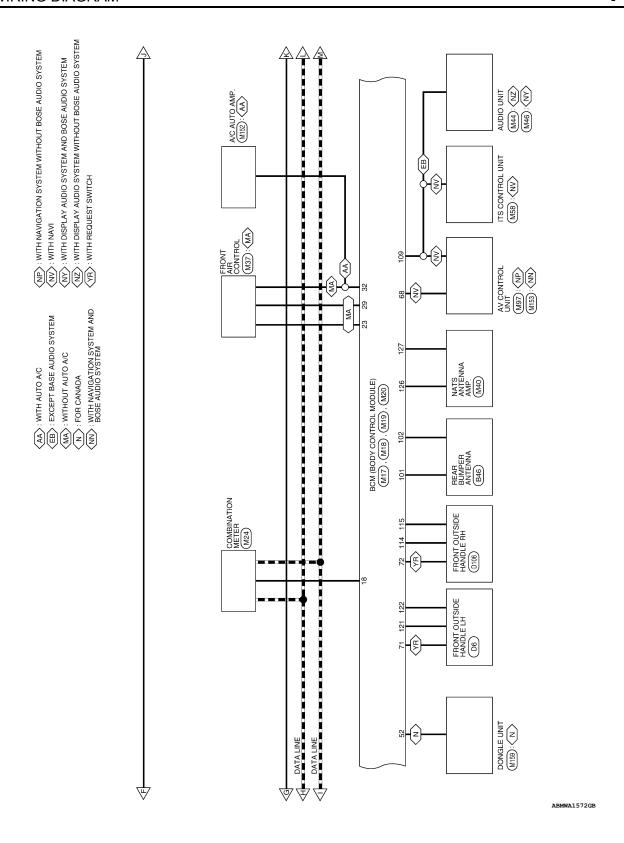
< WIRING DIAGRAM > [BCM]

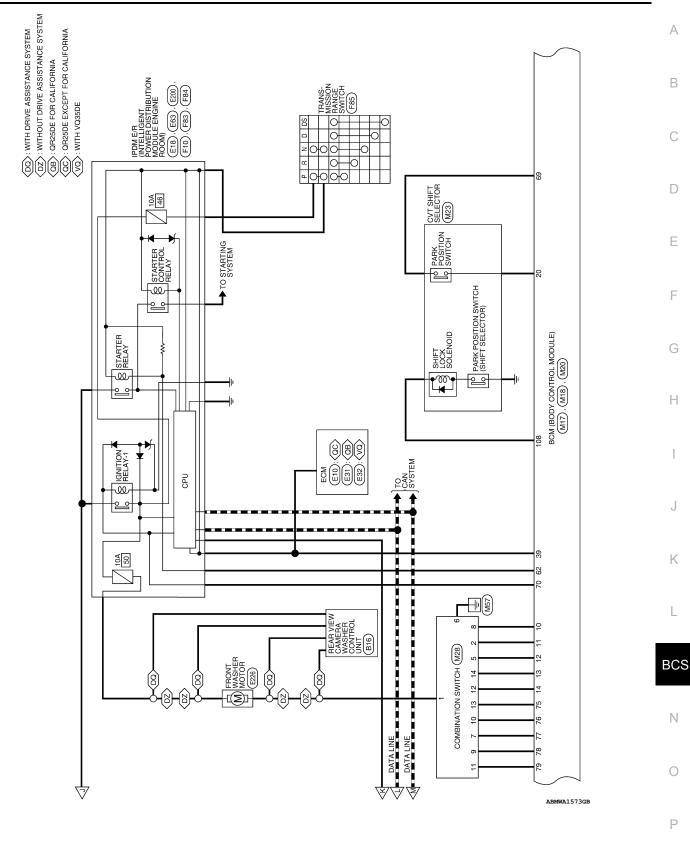
WIRING DIAGRAM

BCM

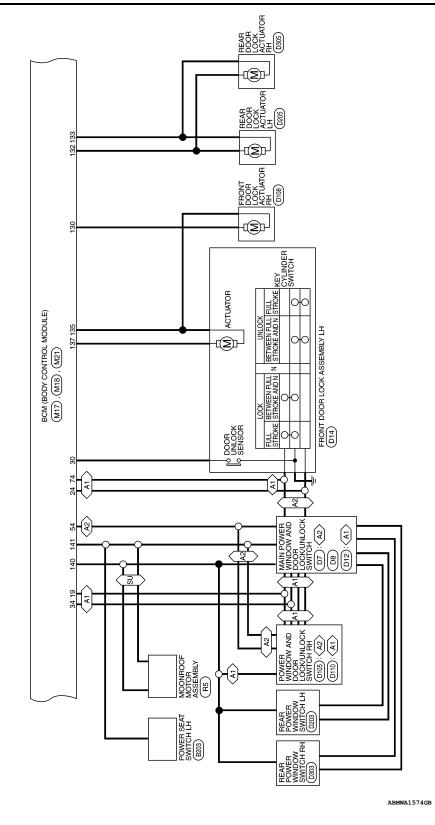


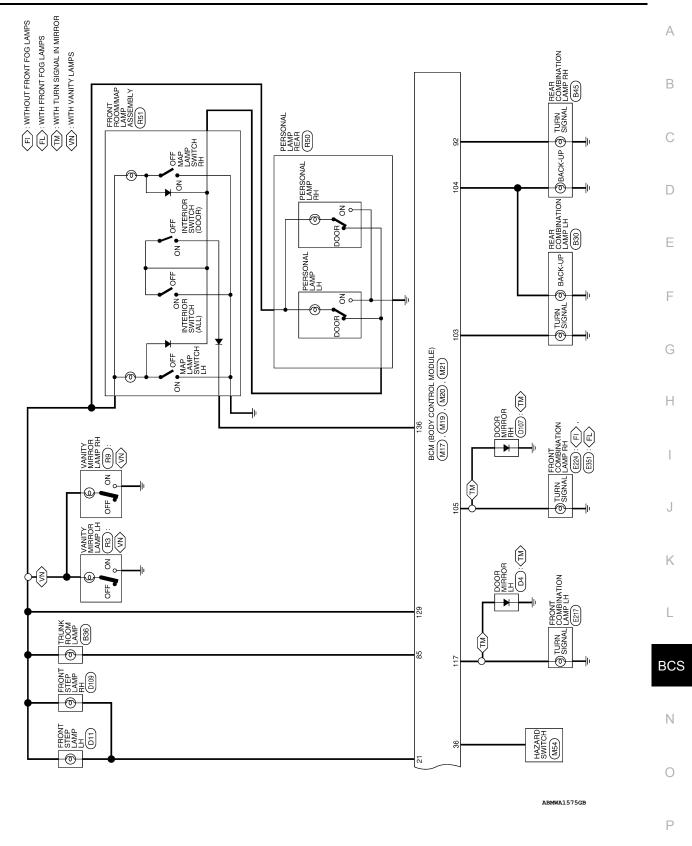












REAR DEFOGGER SW

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33 32

CENTRAL DOOR UNLOCK SW

BG

34

BLOWER FAN SW DR DOOR LOCK STATUS

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BCM (BODY CONTROL MODULE) CONNECTORS

Connector Name BCM (BODY CONTROL MODULE)
Connector Color GREEN

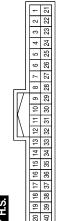
STEP LAMP CONT

Signal Name

Terminal No. Color of Wire

≥ ≥

22 22 23 23



BRAKE SW FUSE SHORTING INPUT BRAKE SW LAMP

BG

|> Q

25 26 27 28 29 29

DOOR KEY/C UNLOCK SW

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24

AIRCON SW

	က	ឌ	ı
	4	26 25 24 23	l
	വ	25	l
	9	56	l
	7	27	l
	æ	88	l
- 117	6	53	l
- IV	9	8	l
- 11	Ξ	31	l
	19 18 17 16 15 14 13 12 11	32	l
	13	33	l
	14	34	l
	15	35	l
	16	36	l
	17	37	l
4	8	88	l
4		40 39 38 37 36 35 34 33 32 31 30 29 28	l
	20	9	l
	_	_	١

Signal Name	ENG START SW NO ESCL	1	A/L POWER SUPPLY 5V	A/L SIGAL	1	1	1	1	ı	COMBI SW IN 5	COMBI SW IN 4	COMBI SW IN 3	COMBI SW IN 2	COMBI SW IN 1	ı	-	GND RF A/L	SECURITY INDICATOR	CENTRAL DOOR LOCK SW
Color of Wire	<u>د</u>	1	BB	>	ı	1	ı	ı	ı	≥	BG	≥	G	۵	ı	ı	В	മ	Q
Terminal No.	-	2	3	4	5	9	7	8	6	10	#	12	13	14	15	16	17	18	19

TRUNK CANCEL SW

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38 39 40

SHIFT N/P

HAZARD SW

36

ABMIA3785GB

Terminal No. Color of Wire Signal Name 64 W BUZZER OUT 65 - - 66 R BLOWER FAN 67 W IGN ELEC RELAY OUT 68 P MR OUTPUT 69 L AT DEVICE OUT 70 G IGN USM OUT 1 71 V DR REQUEST SW 72 Y AS REQUEST SW 73 - - 74 P DOOR KEY/C LOCK SW 75 BG COMBI SW OUT 5 76 W COMBI SW OUT 4 77 R COMBI SW OUT 3 77 R COMBI SW OUT 2 78 P COMBI SW OUT 2 79 G COMBI SW OUT 2 70 COMBI SW OUT 2																		
Terminal No. Color of 64 W 65 66 R 66 R 67 W 68 P 69 L 70 G 71 V 72 Y 72 Y 73 74 P 74 P 75 BG 76 W 77 R 80 BR	Signal Name	BUZZER OUT	-	BLOWER FAN RELAY OUT	IGN ELEC RELAY OUT 2	MR OUTPUT	AT DEVICE OUT	IGN USM OUT 1	DR REQUEST SW	AS REQUEST SW	-	DOOR KEY/C LOCK SW	COMBI SW OUT 5	COMBI SW OUT 4	COMBI SW OUT 3	COMBI SW OUT 2	COMBI SW OUT 1	TRUNK OPEN SW
Terminal No. 64 65 65 65 66 68 69 69 69 71 71 72 73 74 75 75 77 76 77 77 78 78 80 80	Color of Wire	>	ı	œ	>	۵	_	G	>	>	ı	۵	BG	8	Œ	۵	U	BR
	Terminal No.	64	65	99	29	89	69	70	71	72	73	74	75	9/	77	78	79	80

Signal Name	I	ı	ı	AUDIO DONGLE	I	PW LIN	ı	I	ı	ı	CAN-L	CAN-H	REAR DEFOGGER RELAY OUT	STARTER RELAY OUT	-	
Color of Wire	I	-	-	G	-	Ь	1	ı	ı	-	Ь	Т	\	BR	_	
erminal No. Color of Wire	49	50	51	52	53	54	55	99	22	58	59	09	61	62	63	

				42 41 62 61									
	BCM (BODY CONTROL MODULE)	BLACK		52 51 50 49 48 47 46 45 44 43 72 71 70 69 68 67 66 65 64 63	Signal Name	1	ı	1	1	1	1	1	HIGH SIDE START SW LED
M18				55 54 53 75 74 73	Color of Wire	ı	ı	1	-	ı	1	-	BB
Connector No.	Connector Name	Connector Color	H.S.	60 59 58 57 56 80 79 78 77 76	Terminal No.	41	42	43	44	45	46	47	48

Terminal No. Color of Wire	Color of Wire	Signal Name
100	Œ	ROOM ANT 3 A
101	g	REAR BUMPER ANT B
102	M	REAR BUMPER ANT A
103	٨	RL FLASHER
104	BR	REVERSE LAMP OUT

Signal Name	ı	ı	ı	ı	TRUNK OPEN OUT	RR FLASHER	RR DOOR SW	AS DOOR SW	ı	DR DOOR SW	TRUNK SW	ı	ROOM ANT 3 B
Color of Wire	ı	1	ı	1	>	LG	>	SB	ı	BR	SB	ı	ß
Terminal No.	87	88	88	06	91	92	93	94	92	96	6	86	66

1 100 99 98 97 96 95 94 93	Signal Name	ı	RL DOOR SW	ı	TRUNK REQUEST SW	TRUNK LAMP CONT	ı
92 91 90 89 88 87	Color of Wire	_	Y	-	LG	BG	ı
H.S.	Terminal No. Color of Wire	81	82	83	84	85	86

Connector Name BCM (BODY CONTROL MODULE)
Connector Color GRAY

Connector No. M19

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[BCM]

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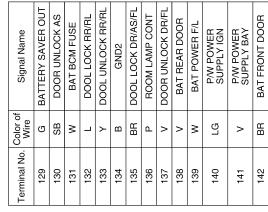
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M21	BCM (BODY CONTROL MODULE)	WHITE	
Connector No.	Connector Name BCM (BODY CONTROL M	Connector Color WHITE	





Signal Name	GND	INPUT 3	OUTPUT 5	INPUT 2	INPUT 4	INPUT 1	OUTPUT 1	INPUT 5	OUTPUT 2
Color of Wire	В	В	M	Ь	M	G	Ь	BG	В
erminal No.	9	7	8	6	10	#	12	13	41

GND1

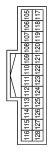
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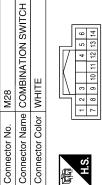
Signal Name	ı	DR DOOR ANT B	DR DOOR ANT A	ı	-	I	IMMO START BUTTON ANT B	IMMO START BUTTON ANT A	ROOM ANT 2 B
Color of Wire	ı	ш	۵	-	-	1	BR	L	BG
Terminal No. Wire	120	121	122	123	124	125	126	127	128

			_			
Signal Name	WASHER MTR (WITHOUT REAR VIEW CAMERA)	WASHER MTR (WITH REAR VIEW CAMERA)	OUTPUT 4	-	-	OUTPUT 3
Color of Wire	ГG	BG	BG	-	_	Μ
Terminal No. Wire	1	1	2	8	4	2

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



105	117		
106	118		
107	119		
108	120		
109	121		
110	122		
111	123		
112	124		
113	25		ŀ
114	126		
115	27		
116	128		L
		Ц	Γ
	116 115 114 113 112 111 110 109 108 107 106 105	114113 112 111 110 126 125 124 123 122 1	271261251241231221





ABMIA3787GB

INSPECTION AND ADJUSTMENT

[BCM] < BASIC INSPECTION > **BASIC INSPECTION** Α INSPECTION AND ADJUSTMENT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT В ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description INFOID:0000000007986339 BEFORE REPLACEMENT When replacing BCM, save or print current vehicle specification with CONSULT configuration before replacement. D NOTE: If "Before Replace ECU" cannot be used, use the "After Replace ECU" or "Manual Configuration" after replacing BCM. Е 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:0000000007986340 Н 1. SAVING VEHICLE SPECIFICATION (P)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. K 2.REPLACE BCM Replace BCM. Refer to BCS-77, "Removal and Installation". >> GO TO 3. 3.writing vehicle specification **BCS** 1. 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-62, "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-62, "CONFIGURATION (BCM): Work Procedure". >> GO TO 4. Р 4.INITIALIZE BCM (NATS) Perform BCM initialization. (NATS) >> Work End.

CONFIGURATION (BCM)

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

TION > [BCM]

CONFIGURATION (BCM): Description

INFOID:0000000007986341

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:0000000007986342

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"

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.

${f 3.}$ PERFORM "AFTER REPLACE ECU" OR "MANUAL CONFIGURATION"

(P)CONSULT

- Select "After Replace ECU" or "Manual Configuration".
- Identify the correct model and configuration list. Refer to <u>BCS-63, "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.

4. 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.

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION > [BCM]

CONFIGURATION (BCM): Configuration list

INFOID:0000000007986343

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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					

 $[\]Leftrightarrow$: Items which confirm vehicle specifications

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TRANSIT MODE CANCEL OPERATION

< BASIC INSPECTION > [BCM]

TRANSIT MODE CANCEL OPERATION

Description INFOID:000000008671031

• 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:

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.
- 2. 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

U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

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DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:0000000007986373

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:0000000007986375

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-47, "Intermittent Incident".

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Revision: August 2012 BCS-65 2013 Altima Sedan

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

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:0000000007986377

1. REPLACE BCM

When DTC U1010 is detected, replace BCM.

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

U0415 VEHICLE SPEED SIG

[BCM] < DTC/CIRCUIT DIAGNOSIS >

U0415 VEHICLE SPEED SIG

Description INFOID:0000000007986378

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:0000000007986379

DTC DETECTION LOGIC

NOTE:

- If DTC U0415 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to BCS-65, "DTC Logic".
- If DTC U0415 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to BCS-66, "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

1. DTC CONFIRMATION

- Erase the DTC.
- 2. 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-49, "DTC Index".

NO >> Inspection End.

Diagnosis Procedure

 ${f 1}$. 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-44, "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-65. "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

 $oldsymbol{3}.$ 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-47, "Intermittent Incident". **BCS**

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INFOID:0000000007986380

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< DTC/CIRCUIT DIAGNOSIS >

[BCM]

B2562 LOW VOLTAGE

DTC Logic

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 CONFIRMATION PROCEDURE

1. DTC CONFIRMATION

- Erase DTC.
- 2. Turn ignition switch OFF.
- 3. Perform the Self Diagnostic Result of BCM with CONSULT, after the ignition switch has been turned ON for 120 seconds or more.

Is any DTC detected?

YES >> Refer to BCS-68, "Diagnosis Procedure".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000007986382

1. CHECK BATTERY VOLTAGE

Check battery voltage.

Is battery voltage less than 8.8V?

YES >> Charge battery and retest. Refer to <u>CHG-17</u>, "Work Flow (With EXP-800 NI or GR8-1200 NI)" or <u>CHG-20</u>, "Work Flow (Without EXP-800 NI or GR8-1200 NI)".

NO >> GO TO 2.

2. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit. Refer to BCS-71, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

${f 3}.$ BCM SELF DIAGNOSTIC RESULT

Perform Self Diagnostic Result of BCM with CONSULT. Refer to BCS-24, "BCM: CONSULT Function (BCM - BCM)".

Is DTC B2562 CRNT?

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

NO >> Refer to GI-47, "Intermittent Incident".

B259A ROOM LAMP FUSE

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

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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.
- 3. 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-69, "Diagnosis Procedure".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000008682959

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

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

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

Is the inspection result normal?

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

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

3. CHECK BATTERY SAVER OUTPUT CIRCUIT FOR SHORT TO GROUND

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

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B259A ROOM LAMP FUSE

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

В	BCM		Continuity	
Connector	Terminal	Ground	Continuity	
M21	129	_	No	

Is the inspection result normal?

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

NO >> Repair or replace harness or connectors.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

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POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000007986384

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

1. CHECK FUSE AND FUSIBLE LINK

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

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

Is the fuse or fusible link blown?

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

NO >> GO TO 2

2. CHECK POWER SUPPLY CIRCUIT

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

В	BCM		Voltage (Approx.)	
Connector Terminal		Ground		
M21	131	_	Pattony voltago	
IVIZ I	139	_	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness or connectors.

3. CHECK GROUND CIRCUIT

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

ВСМ		Ground	Continuity	
Connector	Terminal			
M21	134	— Yes	Vac	
IVIZ I	143		165	

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

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COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

COMBINATION SWITCH INPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000007986386

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

1. CHECK INPUT 1 - 5 SYSTEM CIRCUIT FOR OPEN

- 1. Turn ignition switch OFF.
- Disconnect BCM connector M18 and combination switch connector.
- 3. 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?

YES >> GO TO 2.

NO >> Repair or replace harness or connectors.

2. CHECK INPUT 1 - 5 SYSTEM CIRCUIT FOR SHORT

Check continuity between BCM connector M18 and ground.

Signal	В	CM		Continuity		
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

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

Cianal	В	CM	Cround	Voltage	
Signal	Connector	Terminal	Ground		
INPUT 1		79			
INPUT 2		78			
INPUT 3	M18	77	_	Refer to BCS-28, "Ref- erence Value".	
INPUT 4		76		<u> </u>	
INPUT 5		75			

COMBINATION SWITCH INPUT CIRCUIT [BCM] < DTC/CIRCUIT DIAGNOSIS > Is the inspection result normal? Α YES >> Replace the combination switch. NO >> Replace BCM. Refer to BCS-77, "Removal and Installation". В С D Е F G Н J Κ

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COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

COMBINATION SWITCH OUTPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000007986388

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

1. CHECK OUTPUT 1 - 5 SYSTEM CIRCUIT FOR OPEN

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

Cianal	BCI	М	Combinati	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?

YES >> GO TO 2.

NO >> Repair or replace harness or connectors.

2. CHECK OUTPUT 1 - 5 SYSTEM CIRCUIT FOR SHORT

Check continuity between BCM connector M17 and ground.

Signal	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

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

Cianal	В	CM	Cround	Voltage	
Signal	Connector	Terminal	Ground		
OUTPUT 1		14			
OUTPUT 2		13			
OUTPUT 3	M17	12	_	Refer to BCS-28, "Ref- erence Value".	
OUTPUT 4		11		<u>0.0.000</u>	
OUTPUT 5		10			

COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS > [BCM]

Is the inspection result normal?

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

NO >> Replace the combination switch.

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[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: ×

	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		×		×									×	
1							×				×	×		×
J						×		×	×	×				
К	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	1					
С	Combination switch INPUT 3 circuit	Inspect the combination switch input circuit applicable to the malfunctioning part. Refer to BCS-72, "Diagnosis Procedure".					
D	Combination switch INPUT 4 circuit	part resist to <u>550 72, biagnosis i roccaure</u> .					
E	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-74, "Diagnosis Procedure".					
1	Combination switch OUTPUT 4 circuit	g para 1000 to <u>200 11 2 agricoro 1000ano</u>					
J	Combination switch OUTPUT 5 circuit						
K	BCM	Replace BCM. Refer to BCS-77, "Removal and Installation".					
L	Combination switch	Replace the combination switch.					

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

BCM (BODY CONTROL MODULE)

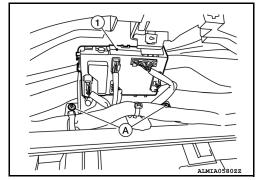
Removal and Installation

REMOVAL

CAUTION:

Before replacing BCM, perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to BCS-61, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description".

- Disconnect the negative battery terminal. Refer to PG-72. "Removal and Installation (Battery)".
- Remove the combination meter. Refer to MWI-81, "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-62, "CONFIGURA-TION (BCM): Description".
- Be sure to perform the system initialization (NATS) when replacing BCM. Refer to BCS-61, "ADDI-TIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description".
- . When replacing BCM, if new BCM does not come with keyfobs attached, all existing keyfobs must be re-registered.

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BCS-77 Revision: August 2012 2013 Altima Sedan Α

[BCM]

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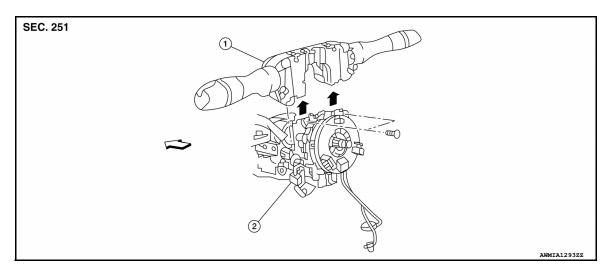
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COMBINATION SWITCH

Exploded View



- 1. Combination switch
- 2. Combination switch harness connector
- ← Front

NOTE:

Shown with the steering wheel removed for clarity only.

Removal and Installation

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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- 72, "Removal and Installation (Battery)".
- Remove the steering column covers. Refer to <u>IP-17, "Removal and Installation"</u>.
- 3. Rotate steering wheel clockwise to access first combination switch bolt and remove.
- 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".