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PRECAUTIONS

[BCM] < PRECAUTION >

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRF-TFNSIONER"

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, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.
- Improper repair, 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 Air Bag Diagnosis Sensor Unit or other Air Bag 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 or batteries, and wait at least three minutes before performing any service.

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BCS-3 Revision: December 2015 2016 Murano NAM

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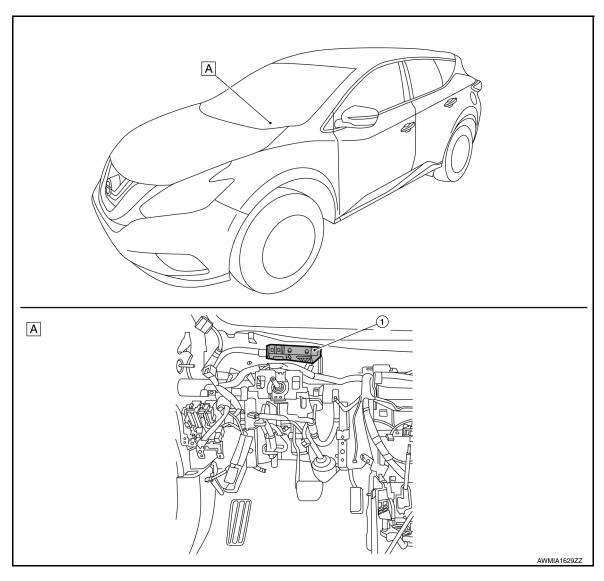
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SYSTEM DESCRIPTION

COMPONENT PARTS
BODY CONTROL SYSTEM

BODY CONTROL SYSTEM: Component Parts Location

INFOID:0000000012874748



- 1. BCM
- A. LH side of dash (view with instrument panel removed)

POWER CONSUMPTION CONTROL SYSTEM

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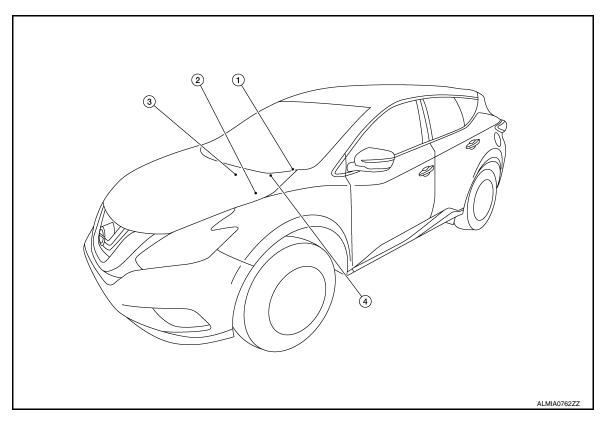
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POWER CONSUMPTION CONTROL SYSTEM : Component Parts Location

INFOID:0000000012874749



- 1. Combination meter
- I. BCM

2. IPDM E/R

3. CAN gateway

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[BCM]

SYSTEM BODY CONTROL SYSTEM

BODY CONTROL SYSTEM: System Description

INFOID:0000000012874750

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-11, "SIGNAL BUFFER SYSTEM : System Description"
Power consumption control system	BCS-12. "POWER CONSUMPTION CONTROL SYSTEM: System Description"
Shipping mode control system	BCS-14, "SHIPPING MODE CONTROL SYSTEM : System Description"
Auto light system	EXL-12. "AUTO LIGHT SYSTEM: System Description" (LED type headlamp) EXL-135, "AUTO LIGHT SYSTEM: System Description" (Halogen type headlamp)
Headlamp system	EXL-11, "HEADLAMP SYSTEM: System Description" (LED type headlamp) EXL-134, "HEADLAMP SYSTEM: System Description" (Halogen type headlamp)
Daytime running light system	EXL-13, "DAYTIME RUNNING LIGHT SYSTEM: System Description" (LED type headlamp) EXL-136, "DAYTIME RUNNING LIGHT SYSTEM: System Description" (Halogen type headlamp)
Front fog lamp system	EXL-16, "FRONT FOG LAMP SYSTEM: System Description" (LED type headlamp) EXL-139, "FRONT FOG LAMP SYSTEM: System Description" (Halogen type headlamp)
Turn signal and hazard warning lamp system	EXL-14. "TURN SIGNAL AND HAZARD WARNING LAMP SYS- TEM: System Description" (LED type headlamp) EXL-137, "TURN SIGNAL AND HAZARD WARNING LAMP SYS- TEM: System Description" (Halogen type headlamp)
Parking, license plate and tail lamp system	EXL-15, "PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM: System Description" (LED type headlamp) EXL-137, "PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM: System Description" (Halogen type headlamp)
Exterior lamp battery saver system	EXL-17. "EXTERIOR LAMP BATTERY SAVER SYSTEM: System Description" (LED type headlamp) EXL-140. "EXTERIOR LAMP BATTERY SAVER SYSTEM: System Description" (Halogen type headlamp)
Interior room lamp battery saver system	INL-7, "INTERIOR ROOM LAMP CONTROL SYSTEM : System Description"
Interior room lamp control system	INL-7, "INTERIOR ROOM LAMP CONTROL SYSTEM : System Description"

SYSTEM

< SYSTEM DESCRIPTION >

System		Refer to
Front wiper and washer system		WW-9, "FRONT WIPER AND WASHER SYSTEM : System Description"
Rear wiper and washer system		WW-12, "REAR WIPER AND WASHER SYSTEM : System Description"
Warning chime system		WCS-5, "WARNING CHIME SYSTEM : System Description"
Door lock system		DLK-26, "DOOR LOCK FUNCTION : System Description"
Back door open system		DLK-28, "BACK DOOR OPEN FUNCTION : System Description"
Nissan vehicle immobilizer system (NVIS)	SEC-12, "NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS : System Description"
Vehicle security system		SEC-14, "VEHICLE SECURITY SYSTEM : System Description"
Panic alarm		3LO-14, VEHICLE SECONTH STOTEM . System Description
Rear window defogger system		DEF-6, "System Description"
Intelligent Key system/engine start system	Door lock function	DLK-23, "System Description" (door request switch) DLK-25, "INTELLIGENT KEY SYSTEM: System Description" (Intelligent Key)
	Back door open function	DLK-28, "BACK DOOR OPEN FUNCTION: System Description" (back door request switch) DLK-25, "INTELLIGENT KEY SYSTEM: System Description" (Intelligent Key)
	Warning function	DLK-32, "WARNING FUNCTION : System Description"
	Key reminder function	DLK-35, "KEY REMINDER FUNCTION : System Description"
	Engine start function	DLK-36, "REMOTE ENGINE START FUNCTION : System Description"
Power window system		PWC-8. "System Description"
RAP (retained accessory power) system		BCS-28, "RETAINED PWR : CONSULT Function (BCM - RE-TAINED PWR)"

BODY CONTROL SYSTEM: Fail Safe

TPMS (tire pressure monitoring system)

INFOID:0000000012874751

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Display contents of CONSULT	Fail-safe	Cancellation	
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC	I
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	BCS
B2562: LO VOLTAGE	Inhibit engine cranking	100 ms after the power supply voltage increases to more than 8.8 V	N
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)	0
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)	Р
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization	

WT-9, "System Description"

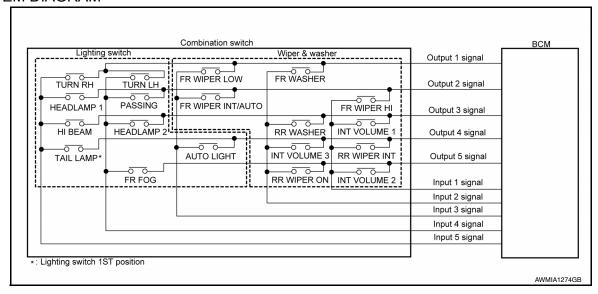
COMBINATION SWITCH READING SYSTEM

[BCM]

COMBINATION SWITCH READING SYSTEM: System Description

INFOID:0000000012874752

SYSTEM DIAGRAM

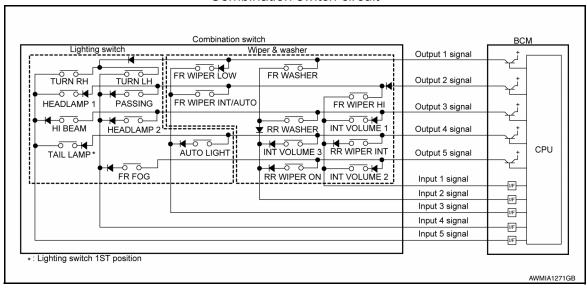


OUTLINE

- 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

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/AUTO	PASSING	HEADLAMP 1
OUTPUT 3	INT VOLUME 1	RR WASHER	_	HEADLAMP 2	HI BEAM
OUTPUT 4	RR WIPER INT	INT VOLUME 3	AUTO LIGHT	_	TAIL LAMP
OUTPUT 5	INT VOLUME 2	RR WIPER ON	_	FR FOG	_

COMBINATION SWITCH READING FUNCTION

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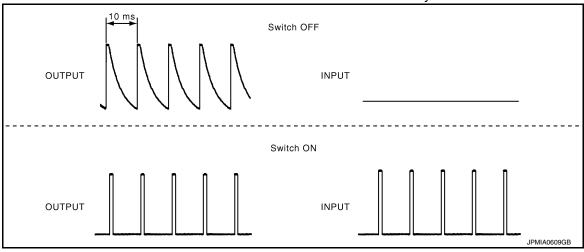
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Description

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



NOTE:

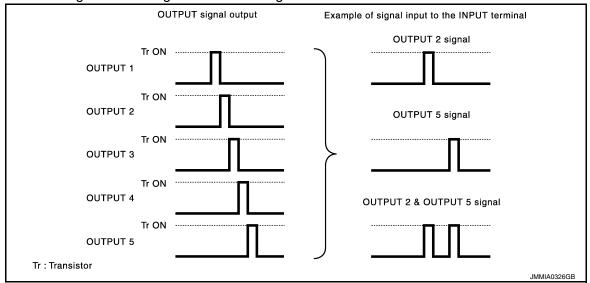
BCM reads the status of the combination switch at 60 ms intervals when BCM is controlled at low power consumption control mode.

• 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.

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

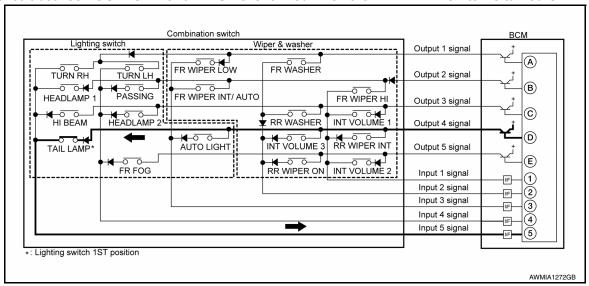


Operation Example

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

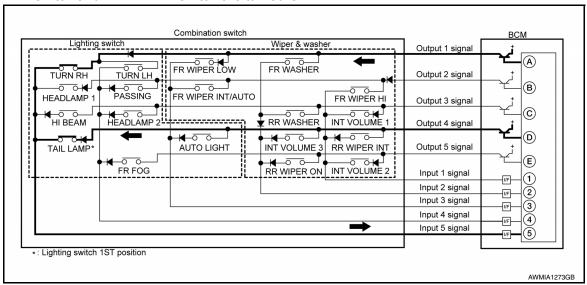
• The circuit between OUTPUT 4 and INPUT 5 is formed when the TAIL LAMP switch is turned ON.



- 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

 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 (FRONT WIPER INTERMITTENT OPERATION) BCM judges the wiper intermittent dial 1 - 7 by the status of INT VOLUME 1, 2, and 3 switches.

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

SYSTEM

< SYSTEM DESCRIPTION >

[BCM]

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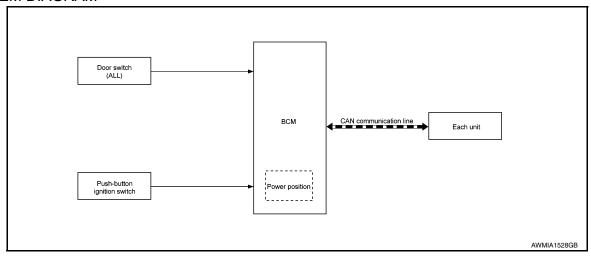
Wiper intermittent	Switch status		
dial position	INT VOLUME 1	INT VOLUME 2	INT VOLUME 3
6	OFF	ON	ON
7	OFF	ON	OFF

SIGNAL BUFFER SYSTEM

SIGNAL BUFFER SYSTEM : System Description

INFOID:0000000012874753

SYSTEM DIAGRAM



OUTLINE

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

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

POWER CONSUMPTION CONTROL SYSTEM

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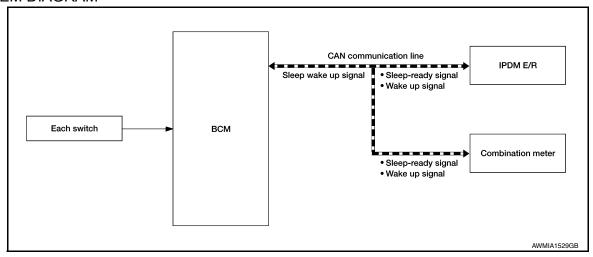
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POWER CONSUMPTION CONTROL SYSTEM: System Description

INFOID:0000000012874754

SYSTEM DIAGRAM



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 a 10 ms interval to a 60 ms interval.

Sleep mode activation

- 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.

SYSTEM

< SYSTEM DESCRIPTION > [BCM]

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: No 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 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 Back door 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 Front door switch LH: OFF→ON, ON→OFF Front door switch RH: OFF → ON, ON → OFF Back door opener switch: OFF→ON, ON→OFF Driver door request switch: OFF→ON Passenger door request switch: OFF→ON Back door request switch: OFF→ON Stop lamp switch signal: ON Remote keyless entry receiver: Receiving valid keyfob 	ŀ

SHIPPING MODE CONTROL SYSTEM

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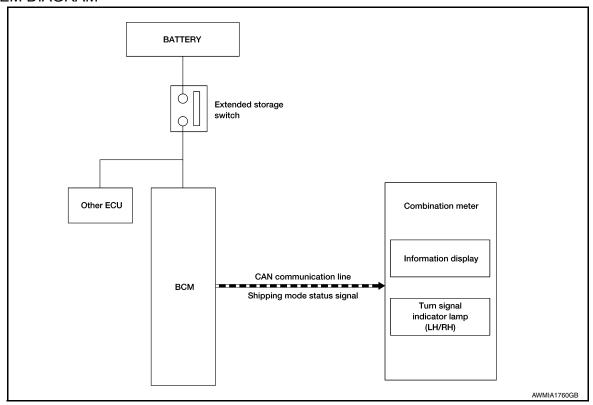
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SHIPPING MODE CONTROL SYSTEM: System Description

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SYSTEM DIAGRAM



DESCRIPTION

- The BCM switches the status (shipping mode or normal mode) by itself according to the extended storage switch condition, and transmits the shipping mode status signal to the combination meter and each unit via CAN communication.
- When the shipping mode function is activated, the control units will not detect DTCs.
- BCM control functions are limited in shipping mode. Refer to <u>BCS-78, "Description"</u>.
- When the BCM is in shipping mode, a message may be shown in the combination meter or display.
- For shipping mode cancel operation refer to BCS-65, "Work Procedure".

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000012874757

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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

SYSTEM APPLICATION

BCM can perform the following functions:

		Direct Diagnostic Mode						
System	Sub System	ECU Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr
Door lock	DOOR LOCK		×	×	×	×		
Rear window defogger	REAR DEFOGGER			×	×	×		
Warning chime	BUZZER			×	×			
Interior room lamp timer	INT LAMP			×	×	×		
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			×	×			
Back door open	TRUNK			×				
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×				
Signal buffer system	SIGNAL BUFFER			×	×			
TPMS	AIR PRESSURE MONITOR		×	×	×			

FREEZE FRAME DATA (FFD)

Revision: December 2015 BCS-15 2016 Murano NAM

[BCM]

The BCM records the following vehicle condition at the time a particular DTC is detected, and displays it on CONSULT.

CONSULT screen item	Indication/Unit	Description				
Vehicle Speed	km/h	Vehicle speed at the moment a particular DTC is detected				
Odo/Trip Meter	km	Total mileage (Odometer value) at the moment a particular DTC is detected				
	SLEEP>LOCK	_	While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK"*).			
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)			
	LOCK>ACC		While turning power supply position from "LOCK" *to "ACC"			
	ACC>ON		While turning power supply position from "ACC" to "IGN"			
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Vehicle is stopped and selector lever is in P position.)			
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)			
	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emergency stop operation)			
	ACC>OFF		While turning power supply position from "ACC" to "OFF"			
	OFF>LOCK	Power position status at the moment a particular DTC is detected*	While turning power supply position from "OFF" to "LOCK"*			
Vehicle Condition	OFF>ACC		While turning power supply position from "OFF" to "ACC"			
	ON>CRANK		While turning power supply position from "IGN" to "CRANKING"			
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode			
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK"*.) to low power consumption mode			
	LOCK		Power supply position is "LOCK" (Ignition switch OFF)*			
	OFF		Power supply position is "OFF" (Ignition switch OFF)			
	ACC		Power supply position is "ACC" (Ignition switch ACC)			
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)			
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)			
	CRANKING		Power supply position is "CRANKING" (At engine cranking)			
IGN Counter	0 - 39	 The number of times that ignition switch is turned ON after DTC is detected The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 338 → 39 after returning to the normal condition whenever ignition is switched OFF → ON. The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. 				

NOTE

- *: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position, and any of the following conditions are met:
- · Closing door
- · Opening door
- Door is locked using door request switch
- Door is locked using Intelligent Key

The power supply position shifts to "ACC" when the push-button ignition switch (push switch) is pushed at "LOCK".

DOOR LOCK

DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)

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

< SYSTEM DESCRIPTION >	[BCM]
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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.
REQ SW-BD/TR [On/Off]	Indicates condition of back door request switch.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
DOOR SW-BK [On/Off]	Indicates condition of back door switch.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.

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INFOID:0000000012874759

ACTIVE TEST

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

WORK SUPPORT

Setting	Description
On*	Automatic door locks function ON.
Off	Automatic door locks function OFF.
MODE2	Driver door only unlocks automatically.
MODE1*	All doors unlock automatically.
MODE3	This mode is not used.
MODE2	Doors lock automatically when shifted out of P (park).
MODE1*	Doors lock automatically when vehicle speed reaches 24 km/h (15 mph).
Off	_
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	_
On*	Signature light setting ON.
Off	Signature light setting OFF.
	On* Off MODE2 MODE1* MODE3 MODE1* Off MODE3 MODE3 MODE2 MODE1* Off On*

^{* :} 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.			

ACTIVE TEST

[BCM]

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)

INFOID:0000000012874760

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].

INT LAMP

INT LAMP: CONSULT Function (BCM - INT LAMP)

INFOID:0000000012874761

DATA MONITOR

Monitor Item [Unit]	Description	
REQ SW -DR [On/Off]	Indicates condition of door request switch LH.	
REQ SW -AS [On/Off]	Indicates condition of door request switch RH.	
REQ SW -RR [On/Off]	Indicates condition of rear door request switch RH.	
REQ SW -RL [On/Off]	Indicates condition of rear door request switch LH.	
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 back door switch.	

Monitor Item [Unit]	Description			
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.			
CDL UNLOCK SW [On/Off]	Indicates con	Indicates condition of unlock signal from door lock and unlock switch.		
KEY CYL LK-SW [On/Off]	Indicates con	dition of lock signal from door key cylinder switch.		
KEY CYL UN-SW [On/Off]	Indicates con	dition of unlock signal from door key cylinder switch.		
TRNK/KAT MNTR [On/Off]	Indicates con	dition of luggage room lamp switch.		
RKE-LOCK [On/Off]	Indicates con	dition of lock signal from Intelligent Key.		
RKE-UNLOCK [On/Off]	Indicates con	dition of unlock signal from Intelligent Key.		
ACTIVE TEST				
Test Item		Description		
INT LAMP	This test is at	ole to check interior room lamp operation [On/Off].		
STEP LAMP TEST	This test is at	ole to check step lamp operation [On/Off].		
The items listed below are the only on CONSULT, do not use or change Support Item		ork Support items for this vehicle. If other items are displayed or these other items. Description		
Support item		· · · · · · · · · · · · · · · · · · ·		
SCENARIO LIGHTING SETTING	On Off*	NOTE: Do not use this function since interior room lamp control is changed.		
EOG LAMP OVERBIDE	On*	Fog lamp override function ON.		
-	On*	Fog lamp override function ON. Fog lamp override function OFF.		
* : Initial setting HEADLAMP HEADLAMP : CONSULT FU	Off	Fog lamp override function OFF.		
* : Initial setting HEADLAMP HEADLAMP : CONSULT FU	Off	Fog lamp override function OFF.		
* : Initial setting HEADLAMP HEADLAMP : CONSULT FU	off unction (BC	Fog lamp override function OFF. CM - HEADLAMP) INFOID:000000012874762		
* : Initial setting HEADLAMP HEADLAMP : CONSULT FU DATA MONITOR Monitor Item [Unit]	Off Unction (BC	Fog lamp override function OFF. CM - HEADLAMP) INFOID:000000012874762 Description		
*: Initial setting HEADLAMP HEADLAMP: CONSULT FU DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off]	Off Unction (BC Indicates con Indicates eng	Fog lamp override function OFF. CM - HEADLAMP) Description dition of push-button ignition switch.		
*: Initial setting HEADLAMP HEADLAMP: CONSULT FU DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [Stop/Stall/Crank/Run]	Off Unction (BC Indicates con Indicates eng	Fog lamp override function OFF. CM - HEADLAMP) Description dition of push-button ignition switch. ine status received from ECM on CAN communication line.		
*: Initial setting HEADLAMP HEADLAMP: CONSULT FU DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [Stop/Stall/Crank/Run] VEH SPEED 1 [km/h]	Off Unction (BC Indicates con Indicates eng	Fog lamp override function OFF. CM - HEADLAMP) Description dition of push-button ignition switch. ine status received from ECM on CAN communication line.		
*: Initial setting HEADLAMP HEADLAMP: CONSULT FU DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [Stop/Stall/Crank/Run] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off]	Off Unction (BC Indicates con Indicates eng	Fog lamp override function OFF. CM - HEADLAMP) Description dition of push-button ignition switch. ine status received from ECM on CAN communication line.		
*: Initial setting HEADLAMP HEADLAMP: CONSULT FU DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [Stop/Stall/Crank/Run] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off]	Off Unction (BC Indicates con Indicates eng	Fog lamp override function OFF. CM - HEADLAMP) Description dition of push-button ignition switch. ine status received from ECM on CAN communication line.		
*: Initial setting HEADLAMP HEADLAMP: CONSULT FU DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [Stop/Stall/Crank/Run] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] TAIL LAMP SW [On/Off]	Indicates con Indicates veh	Fog lamp override function OFF. CM - HEADLAMP) Description dition of push-button ignition switch. ine status received from ECM on CAN communication line.		
*: Initial setting HEADLAMP HEADLAMP: CONSULT FU DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [Stop/Stall/Crank/Run] VEH SPEED 1 [km/h] TURN SIGNAL R [On/Off] TURN SIGNAL L [On/Off] TAIL LAMP SW [On/Off] HI BEAM SW [On/Off]	Indicates con Indicates veh	Pog lamp override function OFF. Description dition of push-button ignition switch. ine status received from ECM on CAN communication line. icle speed signal received from ABS on CAN communication line.		
*: Initial setting HEADLAMP HEADLAMP: CONSULT FU DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [Stop/Stall/Crank/Run] VEH SPEED 1 [km/h] 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 con Indicates veh	Pog lamp override function OFF. Description dition of push-button ignition switch. ine status received from ECM on CAN communication line. icle speed signal received from ABS on CAN communication line.		
*: Initial setting HEADLAMP HEADLAMP: CONSULT FU DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [Stop/Stall/Crank/Run] VEH SPEED 1 [km/h] 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 con Indicates veh	Pog lamp override function OFF. Description dition of push-button ignition switch. ine status received from ECM on CAN communication line. icle speed signal received from ABS on CAN communication line.		
*: Initial setting HEADLAMP HEADLAMP: CONSULT FU DATA MONITOR Monitor Item [Unit] PUSH SW [On/Off] ENGINE STATE [Stop/Stall/Crank/Run] VEH SPEED 1 [km/h] 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] PASSING SW [On/Off]	Indicates con Indicates veh	Pog lamp override function OFF. Description dition of push-button ignition switch. ine status received from ECM on CAN communication line. icle speed signal received from ABS on CAN communication line.		

Indicates condition of front door switch RH.

Indicates condition of rear door switch RH.

Indicates condition of rear door switch LH.

DOOR SW-AS [On/Off]

DOOR SW-RR [On/Off]

DOOR SW-RL [On/Off]

< SYSTEM DESCRIPTION >

[BCM]

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

ACTIVE TEST

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

WORK SUPPORT

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

^{* :} Initial setting

WIPER

WIPER: CONSULT Function (BCM - WIPER)

INFOID:0000000012874763

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 wiper operation of combination switch.	
FR WASHER SW [On/Off]		
FR WIPER INT [On/Off]		
FR WIPER STOP [On/Off]	Indicates front wiper auto stop signal received from IPDM E/R on CAN communication.	

< SYSTEM DESCRIPTION >	,	[BCM]
Monitor Item [Unit]	Description	
INT VOLUME [1 – 7]	Indicates condition of intermittent wiper operation of combination switch.	
RR WIPER ON [On/Off]		
RR WIPER INT [On/Off]	Indicates condition of rear wiper operation of combination switch.	
RR WASHER SW [On/Off]		
RR WIPER STOP [On/Off]	Indicates rear wiper motor auto stop input from rear wiper motor.	
ACTIVE TEST		
Test Item	Description	
FR WIPER	This test is able to check front wiper operation [Hi/Lo/INT/Off].	
RR WIPER	This test is able to check rear wiper operation [On/Off].	

WORK SUPPORT

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

^{*:} Initial setting

FLASHER

FLASHER: CONSULT Function (BCM - FLASHER)

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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.	
TURN SIGNAL R [On/Off]	Indicates and ities of turn signal function of combination quitab	ŀ
TURN SIGNAL L [On/Off]	Indicates condition of turn signal function of combination switch.	
HAZARD SW [On/Off]	Indicates condition of hazard switch.	
RKE-LOCK [On/Off]	Indicates condition of lock signal from Intelligent Key.	
RKE-UNLOCK [On/Off]	Indicates condition of unlock signal from Intelligent Key.	
RKE-PANIC [On/Off]	Indicates condition of panic alarm signal from Intelligent Key.	В

ACTIVE TEST

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

WORK SUPPORT

Support item	Setting	Description
3-TIME FLASHER SETTING	ON*	3-Time flasher setting ON.
3-TIME LEAGUEN SETTING	OFF	3-Time flasher setting OFF.

^{* :} Initial setting

AIR CONDITIONER

Revision: December 2015 BCS-21 2016 Murano NAM

< SYSTEM DESCRIPTION >

[BCM]

AIR CONDITIONER: CONSULT Function (BCM - AIR CONDITIONER)

VFOID:0000000012874765

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:0000000012874766

SELF DIAGNOSTIC RESULT Refer to <u>BCS-52</u>, "DTC <u>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.
REQ SW -BD/TR [On/Off]	×	Indicates condition of back door request switch.
PUSH SW [On/Off]		Indicates condition of push-button ignition switch.
SHIFTLOCK SOLENOID PWR SUPPLY [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 park position 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.
BK DOOR STATE [LOCK/READY/UNLK]	×	Indicates condition of back door status.
ID OK FLAG [Set/Reset]		Indicates condition of Intelligent Key ID.
PRMT ENG STRT [Set/Reset]		Indicates condition of engine start possibility.

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Monitor Item [Unit]	Main	Description
PRMT RKE STRT [Set/Reset]		Indicates condition of engine start possibility from Intelligent Key.
I-KEY OK FLAG [Key ON/Key OFF]	×	Indicates condition of Intelligent Key OK flag.
PRBT ENG STRT [Set/Reset]		Indicates condition of engine start prohibit.
ID AUTHENTICATION CANCEL TIMER [under a stop]		Indicates condition of Intelligent Key ID authentication.
ACC BATTERY SAVER [under a 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.
CRANKING TME [sec]		Indicates condition of engine cranking time from Intelligent Key.
ST RLY -REQ		Indicates condition of starter relay.
IGN RLY 1 -REQ		Indicates condition of ignition 1 relay.
IGN RLY 2 -REQ		Indicates condition of ignition 2 relay.
DETE SW PWR [On/Off]		Indicates condition of park position 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 luggage 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 back door 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.
RKE PBD		Indicates condition of power back door signal from Intelligent Key.

ACTIVE TEST

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IGNITION RELAY

Test Item

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 back door 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].

Description

Revision: December 2015 BCS-23 2016 Murano NAM

This test is able to check starter control relay operation [On/Off].

This test is able to check ignition relay operation [On/Off].

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Test Item	Description
REVERSE LAMP TEST	This test is able to check reverse lamp illumination operation [On/Off].
DOOR HANDLE LAMP TEST	This test is able to check door handle 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 [P/W up/down OFF/Send P/W down ON/Send P/W up ON].
SHIFTLOCK SOLENOID TEST	This test is able to check shift lock solenoid operation [On/Off].
DR SEAT LAMP TEST	This test is able to check driver seat lamp illumination operation [On/Off].
AS SEAT LAMP TEST	This test is able to check passenger seat lamp illumination operation [On/Off].
SHIFT SPOT LAMP TEST	This test is able to check shift spot lamp illumination operation [On/Off].

WORK SUPPORT

Support Item	Se	tting	Description
IGN/ACC BATTERY SAVER	On*		Battery saver function ON.
IGIVACC BALLERT SAVER	Off		Battery saver function OFF.
REMOTE ENGINE STARTER	On*		Remote engine start function ON.
REMOTE ENGINE STARTER	Off		Remote engine start function OFF.
	BUZZER*		Buzzer reminder function by door lock/unlock request switch ON.
ANSWERBACK I-KEY LOCK UNLOCK	HORN		Horn chirp reminder function by door lock request switch ON.
ANSWERBACK I-RET 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.
ANOMED DAOK	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 ONLOCK BY I-RET	Off		Door lock/unlock function from Intelligent Key OFF.
ENGINE START BY I-KEY	On*		Engine start function from Intelligent Key ON.
ENGINE START BY I-RET	Off		Engine start function from Intelligent Key OFF.
TRUNK/GLASS HATCH OPEN	On*		Buzzer reminder function by back door request switch ON.
TRUNNIGLASS HATCH OPEN	Off		Buzzer reminder function by back door request switch OFF.
CONFIRM KEY FOB ID	-	_	Intelligent Key ID code can be checked.
		70 msec	
SHORT CRANKING OUTPUT	Start	100 msec	Starter motor operation duration times.
SHORT CHANKING OUTFUT		200 msec	
	End		_
INSIDE ANT DIAGNOSIS	_		This function allows inside key antenna self-diagnosis.

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

^{*:} Initial Setting

COMB SW

COMB SW: CONSULT Function (BCM - COMB SW)

INFOID:0000000012874767

DATA MONITOR

Monitor Item [Unit]	Description
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]	
INT VOLUME [1 - 7]	Indicates condition of intermittent wiper operation of combination switch.
RR WIPER ON [On/Off]	
RR WIPER INT [On/Off]	Indicates condition of rear wiper operation of combination switch.
RR WASHER SW [On/Off]	
TURN SIGNAL R [On/Off]	Indicates condition of right turn signal operation of combination switch.
TURN SIGNAL L [On/Off]	Indicates condition of left turn signal operation of combination switch.
TAIL LAMP SW [On/Off]	Indicates condition of tail lamp switch operation of combination switch.
HI BEAM SW [On/Off]	Indicates condition of high 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:0000000012874768

ECU IDENTIFICATION

The BCM part number is displayed.

SELF DIAGNOSTIC RESULT

Refer to BCS-52, "DTC Index".

WORK SUPPORT

Support Item	Setting	Description
	Docot	Peturns RCM to initial value in factory shipment

CONFIGURATION

RESET SETTING VALUE

Refer to BCS-63, "CONFIGURATION (BCM): Description".

Cancel

BCS-25 Revision: December 2015 2016 Murano NAM

Cancels the reset function.

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< SYSTEM DESCRIPTION >

[BCM]

CAN DIAG SUPPORT MNTR

Refer to LAN-18. "CAN Diagnostic Support Monitor".

IMMU

IMMU : CONSULT Function (BCM - IMMU)

INFOID:0000000012874769

SELF DIAGNOSTIC RESULT Refer to <u>BCS-52</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 the Intelligent Key ID which has been registered.
TP 2 [Yet/DONE]	DONE indicates the number of the intelligent ney iD which has been registered.
TP 1 [Yet/DONE]	
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.

ACTIVE TEST

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

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:0000000012874770

DATA MONITOR

Monitor Item [Unit]	Description
REQ SW -DR [On/Off]	Indicates condition of door request switch LH.
REQ SW -AS [On/Off]	Indicates condition of door request switch RH.
REQ SW -RR [On/Off]	Indicates condition of rear door request switch LH.
	·
REQ SW -RL [On/Off]	Indicates condition of rear 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 back door switch.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.
TRNK/HAT MNTR [On/Off]	Indicates condition of luggage room lamp switch.

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< SYSTEM DESCRIPTION >	

[BCM]

Monitor Item [Unit]	Description
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 DATA MONITOR	Function (BCM - TRUNK)
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 back door cancel switch.
TR/BD OPEN SW [On/Off]	Indicates condition of back door opener switch.
RKE-TR/BD [On/Off]	Indicates condition of back door open signal from Intelligent Key.
TRNK/HAT MNTR [On/Off]	Indicates condition of luggage room lamp switch.
THEFT ALM THEFT ALM : CONS	ULT Function (BCM - THEFT ALM)
THEFT ALM THEFT ALM : CONS	ULT Function (BCM - THEFT ALM)
THEFT ALM THEFT ALM : CONS DATA MONITOR Monitor Item	ULT Function (BCM - THEFT ALM) Description
THEFT ALM THEFT ALM : CONS DATA MONITOR Monitor Item REQ SW -DR [On/Off]	ULT Function (BCM - THEFT ALM) Description Indicates condition of door request switch LH.
THEFT ALM THEFT ALM : CONS DATA MONITOR Monitor Item REQ SW -DR [On/Off] REQ SW -AS [On/Off]	ULT Function (BCM - THEFT ALM) Description Indicates condition of door request switch LH. Indicates condition of door request switch RH.
THEFT ALM THEFT ALM : CONS DATA MONITOR Monitor Item REQ SW -DR [On/Off] REQ SW -AS [On/Off] REQ SW -RR [On/Off]	Description Indicates condition of door request switch LH. Indicates condition of rear door request switch RH. Indicates condition of rear door request switch RH.
THEFT ALM THEFT ALM : CONS DATA MONITOR Monitor Item REQ SW -DR [On/Off] REQ SW -AS [On/Off]	ULT Function (BCM - THEFT ALM) Description Indicates condition of door request switch LH. Indicates condition of door request switch RH.
THEFT ALM: CONS THEFT ALM: CONS DATA MONITOR Monitor Item REQ SW -DR [On/Off] REQ SW -AS [On/Off] REQ SW -RR [On/Off] REQ SW -RL [On/Off]	Description Indicates condition of door request switch RH. Indicates condition of rear door request switch RH. Indicates condition of rear door request switch RH. Indicates condition of rear door request switch RH.
THEFT ALM: CONS THEFT ALM: CONS DATA MONITOR Monitor Item REQ SW -DR [On/Off] REQ SW -AS [On/Off] REQ SW -RR [On/Off] REQ SW -RL [On/Off] REQ SW-BD/TR [On/Off]	Description Indicates condition of door request switch LH. Indicates condition of rear door request switch RH. Indicates condition of rear door request switch LH. Indicates condition of rear door request switch RH. Indicates condition of rear door request switch LH. Indicates condition of pack door request switch.
THEFT ALM THEFT ALM: CONS DATA MONITOR Monitor Item REQ SW -DR [On/Off] REQ SW -AS [On/Off] REQ SW -RR [On/Off] REQ SW -RL [On/Off] REQ SW-BD/TR [On/Off] PUSH SW [On/Off]	Description Indicates condition of door request switch LH. Indicates condition of rear door request switch RH. Indicates condition of rear door request switch LH. Indicates condition of rear door request switch RH. Indicates condition of rear door request switch LH. Indicates condition of pack door request switch. Indicates condition of push-button ignition switch.
THEFT ALM THEFT ALM: CONS DATA MONITOR Monitor Item REQ SW -DR [On/Off] REQ SW -AS [On/Off] REQ SW -RR [On/Off] REQ SW -RL [On/Off] REQ SW-BD/TR [On/Off] PUSH SW [On/Off] UNLK SEN -DR [On/Off]	Description Indicates condition of door request switch LH. Indicates condition of rear door request switch RH. Indicates condition of rear door request switch LH. Indicates condition of rear door request switch LH. Indicates condition of rear door request switch LH. Indicates condition of pack door request switch. Indicates condition of push-button ignition switch. Indicates condition of door unlock sensor.
THEFT ALM: CONS THEFT ALM: CONS DATA MONITOR Monitor Item REQ SW -DR [On/Off] REQ SW -AS [On/Off] REQ SW -RR [On/Off] REQ SW -RL [On/Off] REQ SW-BD/TR [On/Off] PUSH SW [On/Off] UNLK SEN -DR [On/Off] DOOR SW-DR [On/Off]	Description Indicates condition of door request switch LH. Indicates condition of rear door request switch RH. Indicates condition of rear door request switch LH. Indicates condition of rear door request switch RH. Indicates condition of rear door request switch LH. Indicates condition of pack door request switch. Indicates condition of push-button ignition switch. Indicates condition of foor unlock sensor. Indicates condition of front door switch LH.
THEFT ALM THEFT ALM: CONS DATA MONITOR Monitor Item REQ SW -DR [On/Off] REQ SW -AS [On/Off] REQ SW -RR [On/Off] REQ SW -RL [On/Off] REQ SW-BD/TR [On/Off] PUSH SW [On/Off] UNLK SEN -DR [On/Off] DOOR SW-DR [On/Off]	Description Indicates condition of door request switch LH. Indicates condition of rear door request switch RH. Indicates condition of rear door request switch RH. Indicates condition of rear door request switch LH. Indicates condition of pack door request switch LH. Indicates condition of push-button ignition switch. Indicates condition of door unlock sensor. Indicates condition of front door switch LH. Indicates condition of front door switch LH. Indicates condition of front door switch RH.
THEFT ALM: CONS THEFT ALM: CONS DATA MONITOR Monitor Item REQ SW -DR [On/Off] REQ SW -AS [On/Off] REQ SW -RR [On/Off] REQ SW -RL [On/Off] REQ SW-BD/TR [On/Off] PUSH SW [On/Off] UNLK SEN -DR [On/Off] DOOR SW-DR [On/Off] DOOR SW-AS [On/Off]	Description Indicates condition of door request switch LH. Indicates condition of rear door request switch RH. Indicates condition of rear door request switch RH. Indicates condition of rear door request switch RH. Indicates condition of rear door request switch LH. Indicates condition of pack door request switch. Indicates condition of push-button ignition switch. Indicates condition of door unlock sensor. Indicates condition of front door switch LH. Indicates condition of front door switch RH. Indicates condition of rear door switch RH.
THEFT ALM: CONS THEFT ALM: CONS DATA MONITOR Monitor Item REQ SW -DR [On/Off] REQ SW -AS [On/Off] REQ SW -RR [On/Off] REQ SW -RL [On/Off] REQ SW-BD/TR [On/Off] PUSH SW [On/Off] UNLK SEN -DR [On/Off] DOOR SW-DR [On/Off] DOOR SW-AS [On/Off] DOOR SW-AS [On/Off] DOOR SW-RR [On/Off]	Description Indicates condition of door request switch LH. Indicates condition of rear door request switch RH. Indicates condition of rear door request switch RH. Indicates condition of rear door request switch LH. Indicates condition of rear door request switch LH. Indicates condition of pack door request switch. Indicates condition of push-button ignition switch. Indicates condition of door unlock sensor. Indicates condition of front door switch LH. Indicates condition of front door switch RH. Indicates condition of rear door switch RH. Indicates condition of rear door switch LH. Indicates condition of rear door switch LH.
THEFT ALM: CONS THEFT ALM: CONS DATA MONITOR Monitor Item REQ SW -DR [On/Off] REQ SW -AS [On/Off] REQ SW -RR [On/Off] REQ SW -RL [On/Off] REQ SW-BD/TR [On/Off] PUSH SW [On/Off] UNLK SEN -DR [On/Off] DOOR SW-DR [On/Off] DOOR SW-AS [On/Off] DOOR SW-AS [On/Off] DOOR SW-RR [On/Off] DOOR SW-RR [On/Off] DOOR SW-RR [On/Off] DOOR SW-RR [On/Off]	Description Indicates condition of door request switch LH. Indicates condition of rear door request switch RH. Indicates condition of rear door request switch LH. Indicates condition of rear door request switch RH. Indicates condition of rear door request switch LH. Indicates condition of push-button ignition switch. Indicates condition of front door switch LH. Indicates condition of front door switch LH. Indicates condition of front door switch RH. Indicates condition of rear door switch RH. Indicates condition of rear door switch LH. Indicates condition of rear door switch LH. Indicates condition of push door switch LH. Indicates condition of pack door switch LH. Indicates condition of back door switch.
THEFT ALM THEFT ALM: CONS DATA MONITOR Monitor Item REQ SW -DR [On/Off] REQ SW -AS [On/Off] REQ SW -RR [On/Off] REQ SW -RL [On/Off] REQ SW-BD/TR [On/Off] PUSH SW [On/Off] UNLK SEN -DR [On/Off] DOOR SW-DR [On/Off] DOOR SW-AS [On/Off] DOOR SW-RR [On/Off] DOOR SW-RR [On/Off] COL LOCK SW [On/Off]	Description Indicates condition of door request switch LH. Indicates condition of rear door request switch RH. Indicates condition of rear door request switch LH. Indicates condition of rear door request switch LH. Indicates condition of pack door request switch LH. Indicates condition of push-button ignition switch. Indicates condition of front door switch LH. Indicates condition of front door switch LH. Indicates condition of front door switch LH. Indicates condition of front door switch RH. Indicates condition of rear door switch LH. Indicates condition of rear door switch LH. Indicates condition of rear door switch LH. Indicates condition of lock signal from door lock and unlock switch.
THEFT ALM THEFT ALM: CONS DATA MONITOR Monitor Item REQ SW -DR [On/Off] REQ SW -AS [On/Off] REQ SW -RR [On/Off] REQ SW -RL [On/Off] REQ SW-BD/TR [On/Off] PUSH SW [On/Off] UNLK SEN -DR [On/Off] DOOR SW-DR [On/Off] DOOR SW-AS [On/Off] DOOR SW-RR [On/Off] DOOR SW-RR [On/Off] COL LOCK SW [On/Off] CDL UNLOCK SW [On/Off]	Description Indicates condition of door request switch LH. Indicates condition of foor request switch RH. Indicates condition of rear door request switch RH. Indicates condition of rear door request switch RH. Indicates condition of pack door request switch LH. Indicates condition of push-button ignition switch. Indicates condition of foor unlock sensor. Indicates condition of front door switch LH. Indicates condition of front door switch RH. Indicates condition of rear door switch RH. Indicates condition of rear door switch RH. Indicates condition of rear door switch LH. Indicates condition of rear door switch LH. Indicates condition of lock signal from door lock and unlock switch. Indicates condition of unlock signal from door lock and unlock switch.
THEFT ALM THEFT ALM: CONS DATA MONITOR Monitor Item REQ SW -DR [On/Off] REQ SW -AS [On/Off] REQ SW -RR [On/Off] REQ SW -RL [On/Off] REQ SW-BD/TR [On/Off] PUSH SW [On/Off] UNLK SEN -DR [On/Off] DOOR SW-DR [On/Off] DOOR SW-AS [On/Off] DOOR SW-RR [On/Off] COL LOCK SW [On/Off] KEY CYL LK-SW [On/Off]	Description Indicates condition of door request switch LH. Indicates condition of request switch RH. Indicates condition of rear door request switch RH. Indicates condition of pack door request switch LH. Indicates condition of push-button ignition switch. Indicates condition of front door switch LH. Indicates condition of front door switch RH. Indicates condition of rear door switch RH. Indicates condition of rear door switch LH. Indicates condition of back door switch LH. Indicates condition of lock signal from door lock and unlock switch. Indicates condition of unlock signal from door lock and unlock switch. Indicates condition of lock signal from door lock and unlock switch. Indicates condition of lock signal from door lock and unlock switch.
THEFT ALM THEFT ALM: CONS DATA MONITOR Monitor Item REQ SW -DR [On/Off] REQ SW -AS [On/Off] REQ SW -RR [On/Off] REQ SW -RL [On/Off] REQ SW-BD/TR [On/Off] PUSH SW [On/Off] UNLK SEN -DR [On/Off] DOOR SW-DR [On/Off] DOOR SW-AS [On/Off] DOOR SW-RR [On/Off] COL UNLOCK SW [On/Off] KEY CYL UN-SW [On/Off]	ULT Function (BCM - THEFT ALM) Description Indicates condition of door request switch LH. Indicates condition of foor request switch RH. Indicates condition of rear door request switch RH. Indicates condition of rear door request switch LH. Indicates condition of pash-button ignition switch. Indicates condition of foor unlock sensor. Indicates condition of front door switch LH. Indicates condition of front door switch LH. Indicates condition of front door switch LH. Indicates condition of front door switch RH. Indicates condition of rear door switch RH. Indicates condition of lock signal from door lock and unlock switch. Indicates condition of unlock signal from door lock and unlock switch. Indicates condition of lock signal from door key cylinder switch. Indicates condition of unlock signal from door key cylinder switch. Indicates condition of unlock signal from door key cylinder switch.

< SYSTEM DESCRIPTION >

[BCM]

Monitor Item	Description	
RKE-UNLOCK [On/Off]	Indicates condition of unlock signal from Intelligent Key.	
RKE-TR/BD [On/Off]	Indicates condition of back door open signal from Intelligent Key.	

ACTIVE TEST

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

WORK SUPPORT

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

^{*:} Initial setting

RETAINED PWR

RETAINED PWR: CONSULT Function (BCM - RETAINED PWR)

INFOID:0000000012874773

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

SIGNAL BUFFER: CONSULT Function (BCM - SIGNAL BUFFER)

INFOID:0000000012874774

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:0000000012874775

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-52, "DTC Index".

< SYSTEM DESCRIPTION > [BCM]

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].

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ECU DIAGNOSIS INFORMATION

BCM

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	Under a stop
ACC RLY -REQ	When BCM is not requesting accessory relay activation.	Off
	When BCM is requesting accessory relay activation.	On
AIR COND SW	A/C switch OFF	Off
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/cm², 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
AS SEAT LAMP TEST	Passenger seat lamp ON	On
AS SEAT LAWP TEST	Passenger seat lamp OFF	Off
AUTO CRNK TMR	When the remote engine start timer is OFF.	Off
AUTO CRINK TIVIR	When the remote engine start timer is ON.	On
AUTO LIGHT SW	Lighting switch OFF	Off
AUTO LIGHT SW	Lighting switch AUTO	On
	Back door LOCK status	LOCK
BK DOOR STATE	Back door UNLOCK status	UNLK
	Wait with selective UNLOCK operation (5 seconds)	READY
BRAKE SW 1	When the brake pedal is released	On
DIVINE OV 1	When the brake pedal is depressed	Off
BRAKE SW 2	Brake pedal released	Off
DIVINE OW 2	Brake pedal depressed	On
BUZZER	Buzzer in combination meter OFF	Off
BOZZER	Buzzer in combination meter ON	On
CDL LOCK SW	Door lock/unlock switch does not operate	Off
351 1331 3VV	Press door lock/unlock switch to the LOCK side	On
CDL UNLOCK SW	Door lock/unlock switch does not operate	Off
ODE ONEGON OW	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
COM NWID ALL	The key ID matches any key ID registered to BCM.	DONE

[BCM]

Monitor Item	Condition	Value/Status
CONFIRM ID4	The key ID does not match the fourth key ID registered to BCM.	Yet
5514 HWH 151	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
	The key ID matches the third key ID registered to BCM.	DONE
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 ID I	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
CONIC DODT TWO	When the engine start prohibit timer is OFF.	Off
CRNK PRBT TMR	When the engine start prohibit timer is ON.	On
DETE CW IDDM	When selector lever is in P position	Off
DETE SW -IPDM	When selector lever is in any position other than P	On
DETE CIALDIAID	When BCM is not supplying power to park position switch.	Off
DETE SW PWR	When BCM is supplying power to park position switch.	On
DETEKANDI OM	When selector lever is in P position	Off
DETE/CANCL SW	When selector lever is in any position other than P	On
	Passenger door LOCK status	LOCK
DOOR STAT-AS	Passenger door UNLOCK status	UNLK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door LOCK status	LOCK
DOOR STAT-DR	Driver door UNLOCK status	UNLK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Rear left door LOCK status	LOCK
DOOR STAT-RL	Rear left door UNLOCK status	UNLK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Rear right door LOCK status	LOCK
DOOR STAT-RR	Rear right door UNLOCK status	UNLK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Front door RH closed	Off
DOOR SW-AS	Front door RH opened	On
	Back door closed	Off
DOOR SW-BK	Back door opened	On
	Front door LH closed	Off
DOOR SW-DR	Front door LH opened	On
	Rear door LH closed	Off
DOOR SW-RL	Rear door LH opened	On
	Rear door RH closed	Off
DOOR SW-RR	Rear door RH opened	On
	Driver seat lamp ON	On
DR SEAT LAMP TEST	Driver seat lamp OFF	Off

Monitor Item	Condition	Value/Status
	Engine stopped	Stop
ENGINE STATE	While the engine stalls	Stall
	At engine cranking	Crank
	Engine running	Run
FAN ON CIO	Blower motor fan switch OFF	Off
FAN ON SIG	Blower motor fan switch ON	On
ED EOC CW	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On
ED WASHED SW	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
ED WIDED LOW	Front wiper switch OFF	Off
FR WIPER LOW	Front wiper switch LO	On
ED WIDED III	Front wiper switch OFF	Off
FR WIPER HI	Front wiper switch HI	On
ED MUDED INT	Front wiper switch OFF	Off
FR WIPER INT	Front wiper switch INT	On
ED WIDED OTOD	Any position other than front wiper stop position	Off
FR WIPER STOP	Front wiper stop position	On
	When hazard switch is not pressed	Off
HAZARD SW	When hazard switch is pressed	On
11545 1 4445 014/4	Headlamp switch OFF	Off
HEAD LAMP SW 1	Headlamp switch 1st	On
LIEAD LAMB OW	Headlamp switch OFF	Off
HEAD LAMP SW 2	Headlamp switch 1st	On
LIL DE AM OVA	High beam switch OFF	Off
HI BEAM SW	High beam switch HI	On
ID AUTHENTICATION CANCEL TIMER	When I-Key authentication is OFF.	Under a stop
ID OK ELAO	Ignition switch ACC or ON	Reset
ID OK FLAG	Ignition switch OFF	Set
ID DECCT EL 4	ID registration of front left tire incomplete	YET
ID REGST FL1	ID registration of front left tire complete	DONE
ID DECCT ED4	ID registration of front right tire incomplete	YET
ID REGST FR1	ID registration of front right tire complete	DONE
ID DECCT DL 1	ID registration of rear left tire incomplete	YET
ID REGST RL1	ID registration of rear left tire complete	DONE
ID DECOT DD4	ID registration of rear right tire incomplete	YET
ID REGST RR1	ID registration of rear right tire complete	DONE
ICN DIV4 E/D	Ignition switch OFF or ACC	Off
IGN RLY1 F/B	Ignition switch ON	On
ION DIVA DEC	Ignition switch OFF or ACC	Off
IGN RLY 1 -REQ	Ignition switch ON	On
ION DIV C DEC	Ignition switch OFF or ACC	Off
IGN RLY 2 -REQ	Ignition switch ON	On
INT VOLUME	Wiper intermittent dial is in dial position 1 - 7	1 - 7

[BCM]

Monitor Item	Condition	Value/Status
KEN UK EI VU	I-Key OFF	Key OFF
-KEY OK FLAG	I-Key ON	Key ON
KEY CYL LK-SW	Door key cylinder LOCK position	Off
	Door key cylinder other than LOCK position	On
ZEV CVI LINI CVI	Door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Door key cylinder other than UNLOCK position	On
ODTI OENI (DTOT)	Bright outside the vehicle	Close to 5V
OPTI SEN (DTCT)	Dark outside the vehicle	Close to 0V
	Bright outside the vehicle	Close to 5V
OPTI SEN (FILT)	Dark outside the vehicle	Close to 0V
24.001410.0144	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
	When the engine start is prohibited	Reset
PRBT ENG STRT	When the engine start is permitted	Set
DDMT ENG OTET	When the engine start is prohibited	Reset
PRMT ENG STRT	When the engine start is permitted	Set
DDMT DVE OTDT	When the engine start is prohibited	Reset
PRMT RKE STRT	When the engine start is permitted	Set
211011 0111	Return ignition switch to LOCK position	Off
PUSH SW	Press ignition switch	On
	When engine switch (push switch) is not pressed	Off
PUSH SW-IPDM	When engine switch (push switch) is pressed	On
	Rear window defogger switch OFF	Off
REAR DEF SW	Rear window defogger switch ON	On
	Rear washer switch OFF	Off
RR WASHER SW	Rear washer switch ON	On
	Rear wiper switch OFF	Off
RR WIPER INT	Rear wiper switch INT	On
	Rear wiper switch OFF	Off
RR WIPER ON	Rear wiper switch ON	On
	Any position other than rear wiper stop position	Off
RR WIPER STOP	Rear wiper stop position	On
	When passenger door request switch is not pressed	Off
REQ SW-AS	When passenger door request switch is pressed	On
	When back door request switch is not pressed	Off
REQ SW-BD/TR	When back door request switch is pressed	On
	When driver door request switch is not pressed	Off
REQ SW-DR	When driver door request switch is pressed	On
	When rear door request switch LH is not pressed	Off
REQ SW -RL	When rear door request switch LH is pressed	On
	When rear door request switch RH is not pressed	Off
REQ SW -RR	When rear door request switch RH is pressed	On
	When LOCK button of Intelligent Key is not pressed	Off
RKE-LOCK	When LOCK button of Intelligent Key is pressed	On

Monitor Item	Condition	Value/Status
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	Off
RRE-WODE 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
DIZE DANIC	When PANIC button of Intelligent Key is not pressed	Off
RKE-PANIC	When PANIC button of Intelligent Key is pressed	On
RKE PBD	When POWER BACK DOOR OPEN button of Intelligent Key is not pressed	Off
MAL I DD	When POWER BACK DOOR OPEN button of Intelligent Key is pressed	On
RKE-TR/BD	When BACK DOOR OPEN button of Intelligent Key is not pressed	Off
RNE-TR/BD	When BACK DOOR OPEN button of Intelligent Key is pressed	On
DKE TIMI OOK	When UNLOCK button of Intelligent Key is not pressed	Off
RKE-UNLOCK	When UNLOCK button of Intelligent Key is pressed	On
OFT NI MET	When selector lever is in any position other than N	Off
SFT N-MET	When selector lever is in N position	On
OCT D MCT	When selector lever is in any position other than P	Off
SFT P-MET	When selector lever is in P position	On
SFT PN -IPDM	When selector lever is in any position other than P or N	Off
SEL EN -IEDIN	When selector lever is in P or N position	On
SFT PN/N SW	When selector lever is in any position other than P or N	Off
SET PIN/IN SW	When selector lever is in P or N position	On
SHIFTLOCK SOLE-	When BCM is not supplying power to shift lock.	Off
NOID POWER SUPPLY	When BCM is supplying power to shift lock.	On
SHIFT SPOT LAMP	Shift spot lamp ON	On
TEST	Shift spot lamp OFF	Off
ST DLV DEO	Ignition switch OFF or ACC	Off
ST RLY -REQ	Ignition switch ON	On
TAIL LAMP CW	Other than lighting switch 1ST and 2ND	Off
TAIL LAMP SW	Lighting switch 1ST or 2ND	On
TD 4	The ID of fourth key is not registered to BCM	Yet
TP 4	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 2	The ID of second key is not registered to BCM	Yet
TP 2	The ID of second key is registered to BCM	DONE
TP 1	The ID of first key is not registered to BCM	Yet
IF I	The ID of first key is registered to BCM	DONE
TDNK/HAT MAITD	Back door closed	Off
TRNK/HAT MNTR	Back door opened	On
TD/DD ODEN CVA	Back door opener switch OFF	Off
TR/BD OPEN SW	While the back door opener switch is turned ON	On
TD CANCEL SM	When back door cancel switch is pressed	On
TR CANCEL SW	When back door cancel switch is not pressed	Off

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< ECU DIAGNOSIS INFORMATION >

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Monitor Item	Condition	Value/Status
TURN SIGNAL L	Turn signal switch OFF	Off
	Turn signal switch LH	On
TURN SIGNAL R	Turn signal switch OFF	Off
	Turn signal switch RH	On
UNLK SEN-DR	Driver door UNLOCK status	Off
	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
	Low tire pressure warning lamp in combination meter ON	On

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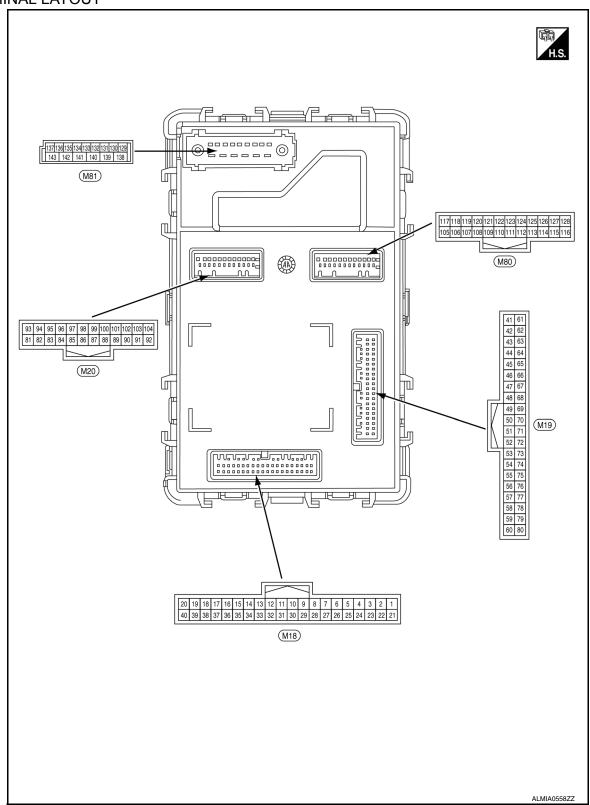
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TERMINAL LAYOUT



PHYSICAL VALUES

	inal No. e color)	Description			0 1111	Value	Δ
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	
1	Ground	Engine start switch	Input	Push-button igni-	Pressed	0V	В
(G)	Ground	Engine start switch	IIIput	tion switch	Not pressed	Battery voltage	
3	Ground	Auto light power sup-	Output	Push-button igni-	OFF	0V	
(W)	Ground	ply 5V	Output	tion switch	ACC or ON	5V	
4	Ground	Auto light signal	Input	Push-button ignition switch ON	When outside of the vehi- cle is bright	Close to 5V	Г
(G)	Ground	Auto light signal	mpac		When outside of the vehi- cle is dark	Close to 0V	
					OFF	0V	Е
					TURN RH	40	
		Combination switch input 5		Combination	HEADLAMP 1	(V) 15	
10	Ground		Input	switch	HI BEAM	10	
(W) Ground			mpat	(Wiper intermit- tent dial 4)	TAIL LAMP	0 ++10ms PKIB4958J	(
					OFF	1.0V	
			Input	Combination switch (Wiper intermit- tent dial 4)	OFF	0V	ŀ
		Combination switch input 4			TURN LH	(V) 15	
					PASSING	10 1 	
11 (BG)	Ground				HEADLAMP 2 FR FOG	5 0 → →10ms PKIB4958J 1.0V	,
					OFF	0V	
					FR WIPER LOW		ŀ
					FR WIPER INT/AUTO	(V)	
12 (R)	Ground	Combination switch input 3	Input	Combination switch (Wiper intermit- tent dial 4)	AUTO LIGHT	15 10 5 0 ++10ms PKIB4958J	B
					OFF	1.0V 0V	1
					FR WASHER		
				Combination	RR WASHER	(V) 15	
13	Ground	Combination switch	Innut	switch	INT VOLUME 3	(V) 15 10 5	(
(G) Ground	Cround	input 2	Input	(Wiper intermit- tent dial 4)		0	
				RR WIPER ON			
						PKIB4958J 1.0V	

	inal No.	Description				Value
(Wire (+)	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
	.,				OFF	0V
					FR WIPER HI	(V)
				Combination	INT VOLUME 1	(V) 15 10
14 (P)	Ground	d Combination switch input 1	Input	switch (Wiper intermit- tent dial 4)	RR WIPER INT	5 0
(٢)					INT VOLUME 2	+10ms PKIB4958J
17 (R)	Ground	Auto light reference ground	Input	Push-button ignition	on switch ON	1.0V 0V
					ON	0V
18 (V)	Ground	Security indicator	Output	Security indicator	Blinking	(V) 15 10 5 0 JPMIA0014GB 11.3V
					OFF	Battery voltage
20	Ground	Shift P	Input	Selector lever	P position	0V
(W)	Ground	Shiit F	IIIput	Selector level	Any position other than P	Battery voltage
25 (W)	Ground	Brake switch fuse	Input		_	Battery voltage
26 (L)	Ground	Shorting input	Input	Push-button ignition	on switch OFF	Battery voltage
27	Ground	Brake switch lamp	Input	Stop lamp switch	OFF (brake pedal is not depressed)	0V
(G)	Ground	Brake Switch lamp	mpat	Otop lamp switch	ON (brake pedal is depressed)	Battery voltage
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)	C. Suria	ger ON signal		fogger switch	ON	0V

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	inal No. e color)	Description			0 1111	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
					Pressed	0 V
36 (W)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1V
39 (G)	Ground	Shift N/P	Input	Selector lever	P or N position Except P and N positions	Battery voltage 0V
				5	ON CONTRACTOR OF THE PROPERTY	Battery voltage
45 (BR)	Ground	Shift spot lamp	Output	Push-button igni- tion switch	OFF	0V
46		Passenger seat lamp		Map lamp switch	Pressed	Battery voltage
(P)	Ground	out	Output	RH	Not pressed	0V
47	Cround	Driver seat lamp out	Output	Map lamp switch	Pressed	Battery voltage
(BG)	Ground	Driver seat lamp out	Output	LH	Not pressed	0V
48	Craund	High side start switch	Outnut	Push-button igni-	ON	5.5V
(P)	Ground	LED	Output	tion switch illumi- nation	OFF	0V
52 (W)	Ground	Audio dongle	Input/ Output	Push-button ignition switch OFF		5V
54 (W)	Ground	und Power window link	Input/ Output	Push-button igni- tion switch	ON	(V) 15 10 5 0 10 ms JPMIA0013GB
					OFF or ACC	10.2V 0V
59 (P)	Ground	CAN low	Input/ Output		_	<u> </u>
60 (L)	Ground	CAN high	Input/ Output		_	_
61 (BG)	Ground	Rear defogger relay output	Output	Rear window de- fogger	Active Not activated	Battery voltage 0V
62	Ground	Starter relay output	Outout	Push-button igni-	When selector lever is in P or N position and the brake is depressed	Battery voltage
(W)	Cround	Startor rollay dutput	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 So	Sounding	0V
(P)	J. Garia	_ uu. output	Jacpac		Not sounding	Battery voltage
66	Ground	Blower fan relay out-	Output	Push-button igni- OF	OFF or ACC	0V
(W)		put		tion switch	ON	Battery voltage

	inal No. e color)	Description				Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
67 (G)	Ground	Ignition electrical re- lay output 2	Output	Push-button igni- tion switch	OFF or ACC	0V
68 ¹ (L)	Ground	d Dimmer signal output	Output	Push-button ignition switch ON	ON Either of the following conditions: • Lighting switch OFF • The area around the vehicle is bright (Shine a light on the optical sensor)	Battery voltage 0V
					The area around the vehi- cle is dark (Block the light from the optical sensor)	Battery voltage
(R)	Ground	ound Dimmer signal output	Output	Push-button ignition switch ON	Either of the following conditions: Lighting switch OFF The area around the vehicle is bright (Shine a light on the optical sensor)	0V
					The area around the vehi- cle is dark (Block the light from the optical sensor)	Battery voltage
69 (G)	Ground	CVT device output	Output		_	Battery voltage
70 (P)	Ground	IPDM E/R ignition output 1	Output	Push-button igni- tion switch	OFF or ACC	Battery voltage
(F)		Output 1		tion switch	ON (pressed)	0V 0V
71 (R)	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 (G)	Ground	Passenger request switch	Input	Front door RH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0V

	inal No.	Description				Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
75		Combination switch		Combination switch	OFF	(V) 15 10 5 0 *****************************
(BG)	Ground	output 5	Output	(Wiper intermit-	INT VOLUME 2	
				tent dial 4)	RR WIPER ON	(V) 15 10
					FR FOG	10 5 0 + 10ms PKIB4958J 1.2V
76	Ground	Combination switch output 4	Output	Combination switch (Wiper intermittent dial 4)	OFF	(V) 15 10 5 0 PKIB4960J 7.0 – 8.0V
(P)	Ground				RR WIPER INT	40
					INT VOLUME 3	(V) 15 10 5
					AUTO LIGHT TAIL LAMP	++10ms PKIB4958J
77		Combination switch		Combination switch	OFF	(V) 15 10 5 0 PKIB4960J 7.0 – 8.0V
(R)	Ground	output 3	Output	(Wiper intermit-	INT VOLUME 1	
				tent dial 4)	RR WASHER HEADLAMP 2	(V) 15 10 5 0
					HI BEAM	++10ms PKIB4958J

	inal No.	Description				V-L -
-	e color)	Signal name	Input/		Condition	Value (Approx.)
(+)	(-)	ŭ	Output			
78		Combination switch		Combination switch	OFF	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0V
(G)	Ground	output 2	Output	(Wiper intermit-	FR WIPER HI	
				tent dial 4)	FR WIPER INT/AUTO	(V) 15
					PASSING	10
					HEADLAMP 1	0 ++10ms PKIB4958J
79			Output	Combination switch (Wiper intermit- tent dial 4)	OFF	(V) 15 10 5 0 ++10ms PKIB4960J 7.0 - 8.0V
(W)	Ground	Combination switch output 1			FR WASHER	
					FR WIPER LOW	(V) 15
					TURN LH	10
					TURN RH	0 → 10ms PKIB4958J
						1.2V
80	Ground	Trunk/back door	Output	Back door	Open (back door actuator is activated)	Battery voltage
(R)		open switch	- 2.001		Close (back door actuator is not activated)	0V
81 (L)	Ground	Rear wiper battery fuse	Input	Push-button ignition	on switch OFF	Battery voltage
82 (W)	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
83	Ground	Trunk/back door re-	Innut	Back door re-	ON (pressed)	0V
(BG)	Giouna	quest switch	Input quest switch		OFF (not pressed)	Battery voltage

	inal No.	Description				Value
(Wir	e color)	Signal name	Input/ Output		Condition	(Approx.)
0.4		Poor winer outester		Duch hutton inni	Rear wiper stop position	Battery voltage
84 (BR)	Ground	Rear wiper autostop switch	Input	Push-button igni- tion switch ON	Any position other than rear wiper stop position	0V
85	0		0	Luggage room	ON	0V
(BG)	Ground	Luggage room lamp	Output	lamp	OFF	Battery voltage
89 (LG)	Ground	Reverse lamp output	Output	Push-button ignition switch ON	R position	(V) 15 10 5 0 1 s PKID0926E 6.5V
					Any position other than R	0V
91	Ground	Trunk/back door	Output	Back door open	OFF	0V
(BR)		open signal	4-33	switch	ON	Battery voltage
					Turn signal switch OFF	0V
92 (R)	Ground	Right rear flasher	Output	Push-button ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5V
93 (R)	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 (G)	Ground	Passenger door switch	Input	Front door RH switch	OFF (when front door RH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (when front door RH opens)	0V
95	Ground	Rear wiper output	Output	Rear wiper	OFF (stopped)	0V
(V)	Giodila	rteal wipel output	Output	izeai wihei	ON (activated)	Battery voltage

	inal No.	Description				Value
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
96 (BG)	Ground	Driver door switch	Input	Front door LH switch	OFF (front door LH CLOSE)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (front door LH OPEN)	0V
97 (W)	Ground	Trunk/back door switch	Input	Back door switch	OFF (back door is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (back door is open)	11.8V 0V
99	Ground	Inside key antenna (luggage room) B	Output	Push-button ignition switch OFF	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB
(P)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0063GB
100 (W)	Ground	Inside key antenna (luggage room) A	Output	Push-button ignition switch OFF	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB
	Ground				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB

	inal No. e color)	Description				Value	
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	
101		Outside key antenna (rear bumper) B		When the back door 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 1 s JMKIA0062GB	
(R) Ground	Ground		Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	
102 (G) Ground	Constitution	Outside key antenna (rear bumper) A	Output	When the back door request switch is operat- ed with push-but- ton ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
	Glound				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s	
					Turn signal switch OFF	0V	
103 (BG)	Ground	Left rear flasher	Output	Push-button ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s	
					Turn signal switch OFF	6.5V 0V	
105 (LG)	Ground	Right front flasher	Output	Push-button ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5V	

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

	inal No. e color)	Description			Condition	Value	А
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	
116		Inside key antenna	Output	Push-button igni-	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	B C D
(W) Grou	Ground	(console) A		tion switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	E
		Left front flasher	Output	Push-button ignition switch ON	Turn signal switch OFF	0V	G
117 (SB)	Ground				Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5V	Н
119		Remote keyless entry receiver signal	Input/ Output	Push-button ignition switch ON	Standby state	(V) 6 4 2 0 + 0.2s OCC3881D	J K L
(R)	Ground				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	N O

	inal No.	Description				Value
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
121		Outside key antenna (driver side) B	Output	When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(G)	Ground			switch is operated with push-button ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
122	Ground	Outside key antenna (driver side) A	Output	When the front door LH request switch is operat- ed with push-but- ton ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(GR)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
123	Ground	Inside key antenna (instrument center) A	Output	Push-button ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(W)	Ground				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB

	inal No.	Description				Value			
(Wir	e color)	Signal name	Input/ Output		Condition	(Approx.)			
124		Inside key antenna		Push-button igni-	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB			
(G)	Ground	(instrument center) B	Output	tion switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB			
126 (P)	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 (BG)	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		Inside key antenna		Push-button igni-	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB			
(R)	Ground	(console) B	Output	tion switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB			
129	Ground	Battery saver output	Output	After passing the in saver operation tin	nterior room lamp battery ne	0V			
(SB)	Ground	Battery saver output	Output	Any other time after lamp battery saver	er passing the interior room roperation time	Battery voltage			
130 (LG)	Ground	Passenger door un- lock	Output	Front door RH	UNLOCK (actuator is activated) Other than UNLOCK (actu-	Battery voltage			
					ator is not activated)	0V			
131 (W)	Ground	BCM battery fuse	Input	Push-button ignition	on switch OFF	Battery voltage			

	inal No.	Description				Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
132	Ground	Rear door lock	Output	All doors Rear door RH and rear door LH Push-button ignition switce Interior room lamp Push-button ignition switce Push-button ignition switce	LOCK (actuator is activated)	Battery voltage
(BR)	Ground	Real door lock	Output	All doors	Other than LOCK (actuator is not activated)	0V
133	Ground	Rear door unlock	Output		UNLOCK (actuator is activated)	Battery voltage
(Y)	Ground	real door amount	Output	and rear door LH	Other than UNLOCK (actuator is not activated)	0V
134 (GR)	Ground	Ground 2	_	Push-button ignition	on switch ON	0V
135	Cround	Driver and passenger	Output	All doors	LOCK (actuator is activated)	Battery voltage
(L)	Ground	door lock	Output	All doors	Other than LOCK (actuator is not activated)	0V
136	Ground	Room lamp control	Output	Interior room	OFF	Battery voltage
(LG)	Ground	Room lamp control	Output	lamp	ON	0V
137	Ground	Driver and passenger	Output	Front door I H	UNLOCK (actuator is activated)	Battery voltage
(V)	Ground	door unlock	Output	FIORE GOOF EN	Other than UNLOCK (actuator is not activated)	0V
138 (V)	Ground	Rear door battery	Input	Push-button ignition	on switch OFF	Battery voltage
139 (L)	Ground	Fusible link battery power	Input	Push-button ignition	on switch OFF	Battery voltage
140 (BR)	Ground	Power window ignition power supply	Output	Push-button ignition	on switch ON	Battery voltage
141 (Y)	Ground	Power window bat- tery power supply	Output	Push-button ignition	on switch OFF	Battery voltage
142 (Y)	Ground	Front door battery	Input	Push-button ignition	on switch OFF	Battery voltage
143 (GR)	Ground	Ground 1	_	Push-button ignition switch ON		0V

^{1:} With navigation system
2: With display audio

Fail Safe INFOID:0000000012874777

Display contents of CONSULT	Fail-safe	Cancellation
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)

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Display contents of CONSULT	Fail-safe	Cancellation
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)
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization

DTC Inspection Priority Chart

INFOID:0000000012874778

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

Priority	DTC	
1	B2562: LOW VOLTAGE	
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)	
3	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 B2608: STARTER RELAY B2608: STARTER RELAY B2601: IGNITION RELAY B2607: ENG STATE SIG LOST B261A: PUSH-BTN IGN SW B261B: RES ENG RUN B261E: VEHICLE TYPE B2671: IGNITION RELAY B2672: IGNITION RELAY B2673: STARTER CONTROL RELAY B2676: BCM B2677: BCM B2677: BCM B2679: SHIFT LOCK SOLENOID B2679: SHIFT LOCK SOLENOID B2679: INTELLIGENT TUNER C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG 	В

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Priority	DTC
5	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] FR C1711: [NO DATA] RR C1711: [NO DATA] RR C1711: [NO DATA] RL C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RL C1730: FLAT TIRE FR C1732: FLAT TIRE FR C1733: FLAT TIRE RR C1733: FLAT TIRE RR C1733: CONTROL UNIT C1761: TEMPERATURE DATA FR C1762: TEMPERATURE DATA RR C1763: TEMPERATURE DATA RR C1764: TEMPERATURE DATA RR C1770: G SENSOR FL C1771: G SENSOR FR C1771: G SENSOR RR
6	 B2621: INSIDE ANTENNA B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA B2626: OUTSIDE ANTENNA B2627: OUTSIDE ANTENNA B2628: OUTSIDE ANTENNA
7	B259A: ROOM LAMP FUSE

DTC Index

NOTE:

Details of time display

- CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.
- 1 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1
 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition is switched 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-66, "DTC Description"
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-67, "DTC Description"
U0415: VEHICLE SPEED SIG	_	_	_	BCS-68, "DTC Description"
B2192: ID DISCORD BCM-ECM	×	_	_	SEC-79, "DTC Description"
B2193: CHAIN OF BCM-ECM	×	_	_	SEC-81, "DTC Description"
B2195: ANTI SCANNING	×	_	_	SEC-83, "DTC Description"
B2196: DONGLE UNIT	_	_	_	SEC-85, "DTC Description"
B2198: NATS ANTENNA AMP.	_	_	_	SEC-87, "DTC Description"

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2555: STOP LAMP	_	_	_	SEC-89, "DTC Description"
B2556: PUSH-BTN IGN SW	_	×	_	SEC-92, "DTC Description"
B2557: VEHICLE SPEED	_	×	_	SEC-94, "DTC Description"
B2560: STARTER CONT RELAY	×	×	_	SEC-96, "DTC Description"
B2562: LOW VOLTAGE	×	_	_	BCS-69, "DTC Description"
B259A: ROOM LAMP FUSE	_	_	_	BCS-70, "DTC Description"
B2601: SHIFT POSITION	_	×	_	SEC-97, "DTC Description"
B2602: SHIFT POSITION	_	×	_	SEC-100, "DTC Description"
B2603: SHIFT POSI STATUS	_	×	_	SEC-103, "DTC Description"
B2604: PNP SW	_	×	_	SEC-107, "DTC Description"
B2605: PNP SW	_	×	_	SEC-110, "DTC Description"
B2608: STARTER RELAY	×	×	_	SEC-113, "DTC Description"
B260A: IGNITION RELAY	×	×	_	PCS-62, "DTC Description"
B260F: ENG STATE SIG LOST	×	×	_	SEC-115, "DTC Description"
B261A: PUSH-BTN IGN SW	_	×	_	PCS-64, "DTC Description"
B261B: RES ENG RUN	_	_	_	DLK-166, "DTC Description"
B261E: VEHICLE TYPE	×	× (Turn ON for 15 seconds)	_	SEC-71, "DTC Description"
B2621: INSIDE ANTENNA	_	_	_	DLK-167, "DTC Description"
B2622: INSIDE ANTENNA	_	_	_	DLK-170, "DTC Description"
B2623: INSIDE ANTENNA	_	_	_	DLK-173, "DTC Description"
B2626: OUTSIDE ANTENNA	_	_	_	DLK-187, "DTC Description"
B2627: OUTSIDE ANTENNA	_	_	_	DLK-190, "DTC Description"
B2628: OUTSIDE ANTENNA	_	_	_	DLK-193, "DTC Description"
B26F1: IGNITION RELAY	_	_	_	PCS-67, "DTC Description"
B26F2: IGNITION RELAY	_	_	_	PCS-69, "DTC Description"
B26F3: STARTER CONTROL RELAY	_	_	_	SEC-119, "DTC Description"
B26F4: STARTER CONTROL RELAY		_	_	SEC-120, "DTC Description"
B26F6: BCM		_	_	PCS-71, "DTC Description"
B26F7: BCM		_	_	SEC-121, "DTC Description"
B26FC: KEY REGISTRATION		_	_	SEC-122, "DTC Description"
B26FD: SHIFT LOCK SOLENOID		_	_	DLK-176, "DTC Description"
B26FE: HOOD SWITCH	_	_	_	DLK-179, "DTC Description"
B26FF: REMOTE KEYLESS ENTRY RE- CEIVER	_	_	_	DLK-182, "DTC Description"
C1704: LOW PRESSURE FL		_	×	
C1705: LOW PRESSURE FR		_	×	
C1706: LOW PRESSURE RR		_	×	WT-28, "DTC Description"
C1707: LOW PRESSURE RL		_	×	
C1708: [NO DATA] FL		_	×	
C1709: [NO DATA] FR		_	×	
C1710: [NO DATA] RR		_	×	WT-30, "DTC Description"
C1711: [NO DATA] RL			×	

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1716: [PRESSDATA ERR] FL	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	×	WT 24 "DTC Description"
C1718: [PRESSDATA ERR] RR	_	_	×	WT-34, "DTC Description"
C1719: [PRESSDATA ERR] RL	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	×	WT-36, "DTC Description"
C1730: FLAT TIRE FL	_	_	×	
C1731: FLAT TIRE FR	_	_	×	WT 29 "DTC Description"
C1732: FLAT TIRE RR	_	_	×	WT-38, "DTC Description"
C1733: FLAT TIRE RL	_	_	×	
C1734: CONTROL UNIT	_	_	×	WT-40, "DTC Description"
C1761: TEMPERATURE DATA FL	_	_	_	
C1762: TEMPERATURE DATA FR	_	_	_	WT 44 "DTC Description"
C1763:TEMPERATURE DATA RL	_	_	_	WT-44, "DTC Description"
C1764: TEMPERATURE DATA RR	_	_	_	
C1769: CONFIG SETTING	_	_	_	WT-46, "DTC Description"
C1770: G SENSOR FAIL FL	_	_	_	
C1771: G SENSOR FAIL FR	_	_	_	WT 48 "DTC Description"
C1772: G SENSOR FAIL RR	_	_	_	WT-48, "DTC Description"
C1773: G SENSOR FAIL RL	_	_	_	

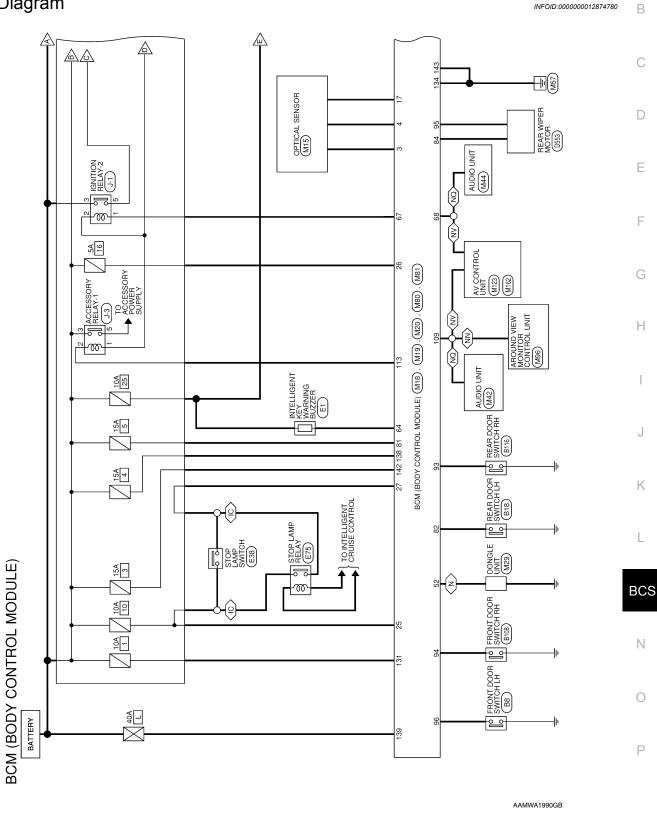
< WIRING DIAGRAM > [BCM]

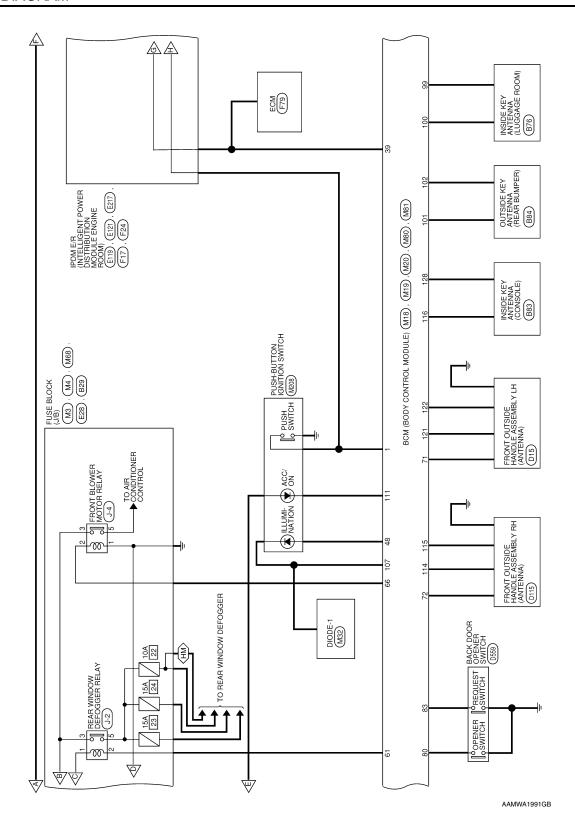
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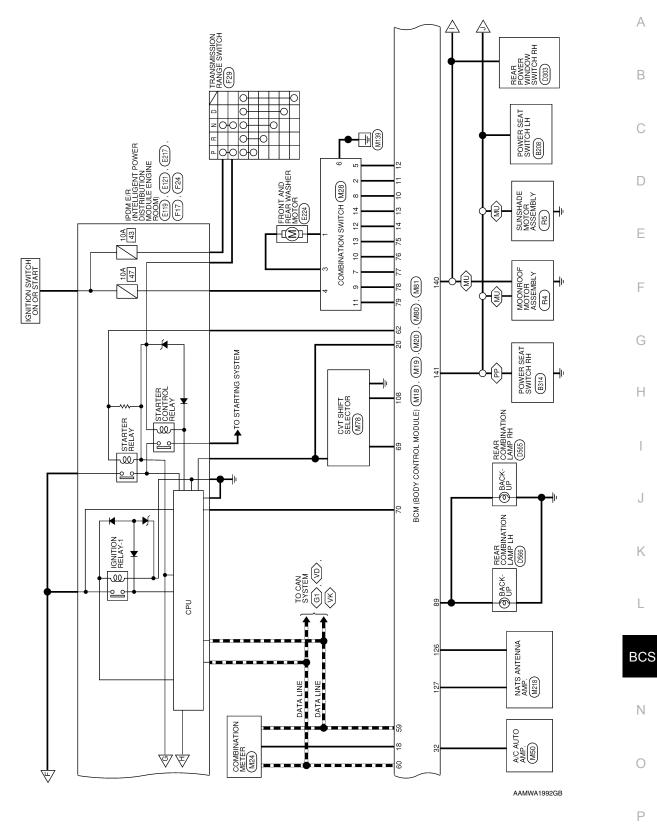
WIRING DIAGRAM

BCM

Wiring Diagram







BCS-57 Revision: December 2015 2016 Murano NAM

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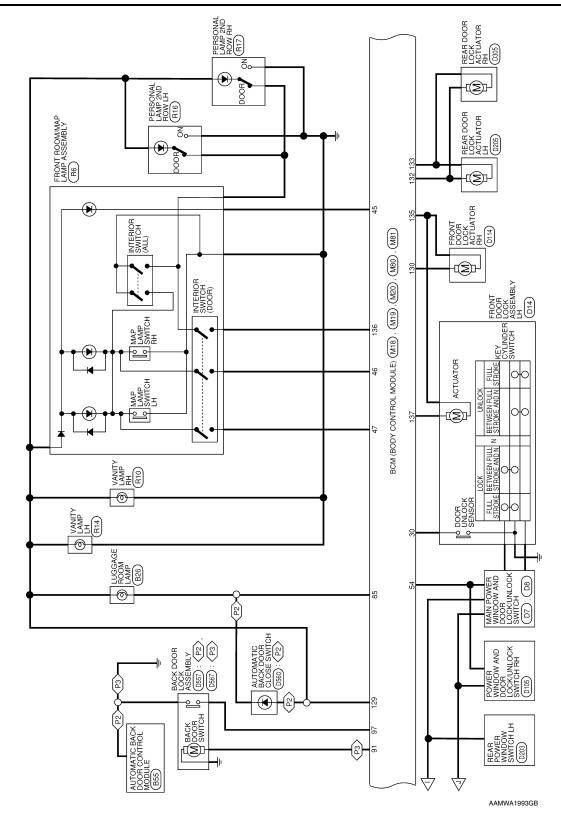
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(GI): WITH CAN GATEWAY SYSTEM
(HM): WITH HEATED MIRRORS
(IC): WITH INTELLIGENT CRUISE CONTROL
(MIL): WITH MOONROOF
(NN): WITH MAVIGATION SYSTEM AND
SOSE AUDIO SYSTEM
(NO): WITH DISPLAY AUDIO SYSTEM
(NO): WITH DISPLAY AUDIO SYSTEM
(NO): WITH AND
(OB): WITH AND
(OB): WITH AUTOMATIC BACK DOOR
(PZ): WITH ADOWER FRONT PASSENGER SEAT
(TM): WITH TURN SIGNAL IN MIRROR
(WD): WITH AROUND VIEW MONITOR
(WE): WITH BOSE AUDIO SYSTEM

WITH POWER FRONT PASSENGER SEAT

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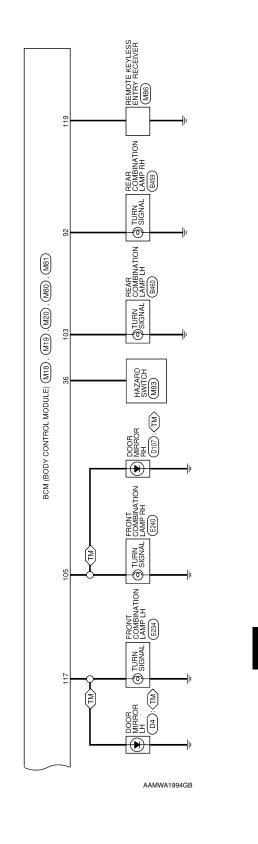
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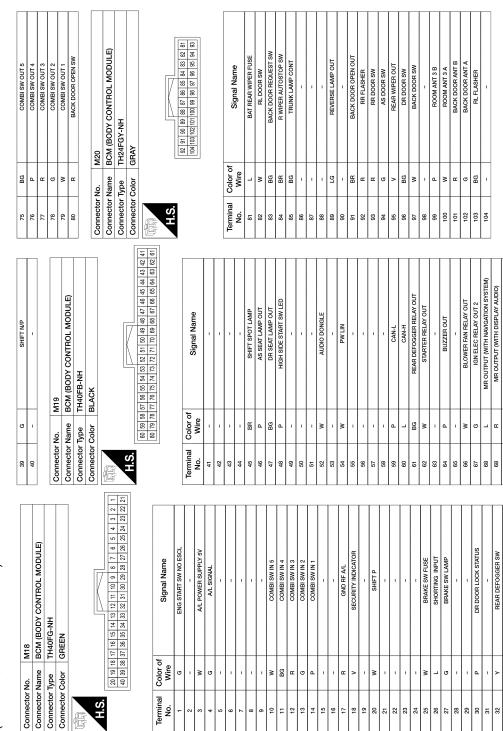
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BCM (BODY CONTROL MODULE) CONNECTORS



AAMIA3825GB

HAZARD SW

IGN USM OUT 1 DR REQUEST SW

AS REQUEST SW

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AS DOOR ANT A	AS DOOR ANT B	ROOM ANT 2 A	FL/SL FLASHER	1	RF NIMOCO	ı	DR DOOR ANT B	DR DOOR ANT A	-	ı	ı	IMMO ANT B	IMMO ANT A	ROOM ANT 2 B
Μ	BG	W	SB	1	œ	-	5	ВВ	1	-	1	Ь	BG	æ
114	115	116	117	118	119	120	121	122	123	124	125	126	127	128

M81	BCM (BODY CONTROL MODULE)	FEA09FW-FHA6-SA	WHITE	
Connector No.	Connector Name	Connector Type	Connector Color	





| 137|136|135|134|133|132|131|130|129 | 143 | 142 | 141 | 140 | 139 | 138

Signal Name	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Color of Wire	9	BG	>	>	œ	85	œ	W	ŋ	Д	M	а	BG	5
Terminal No.		2	8	4	2	9	7	8	6	10	1	12	13	14

Signal Name	ı	-	1	-	1	-	1	1	1	1	1	1	1	1
Color of Wire	9	BG	>	>	æ	ВВ	æ	W	ŋ	۵	Μ	Ь	BG	5
Terminal No.	-	2	3	4	5	9	7	8	6	10	1	12	13	14

Sonnec	Connector No. M80	Connector Name BCM (BODY CONTROL MODULE)	Connector Type TH24FB-NH	Connector Color BLACK	H.S. [116] H16] H14[H3] H12[H1] H10[H08] H08[H07] H08[H08] H172[H1] H10[H08] H08[H07] H08[H08] H173[H1] H18[H18] H18[H18
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BATTERY SAVER OUT SUPER LOCK/DOOR UNLOCK AS

8 E 8 뜖

BAT BCM FUSE

DOOR LOCK AS/RR/RL DOOR UNLOCK AS/RR/RL

В

- 일 >

134 135 136 138 139 140

DOOR LOCK DR/AS/FL

ROOM LAMP CONT

DOOR UNLOCK DR/AS/FL

BAT REAR DOOR

BAT POWER F/L

P/W POWER SUPPLY IGN P/W POWER SUPPLY BAT

HH HH

141

BAT FRONT DOOR

g

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Color of	Wire	ГG	-	W	5	ŋ	-	•
Terminal	No.	105	106	107	108	109	110	;

Signal Name	FR/SR FLASHER	1	LOW SIDE START SW LED	SHIFT LOCK SOLENOID OUT	REVERSE SIGNAL	1	ACC LED	
Wire	re	-	W	9	ŋ	-	re	
No.	105	106	107	108	109	110	111	

AAMIA3826GB

Connector Name COMBINATION SWITCH
Connector Type TH16FW-NH
Connector Color WHITE

Connector No.

< BASIC INSPECTION > [BCM]

BASIC INSPECTION

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM)

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM): Description

IFOID:0000000012874781

BEFORE REPLACEMENT

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

NOTE:

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

AFTER REPLACEMENT

CAUTION:

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

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM): Work Procedure

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.

2.REPLACE BCM

Replace BCM. Refer to BCS-79, "Removal and Installation".

>> GO TO 3.

3. WRITING VEHICLE SPECIFICATION

(P)CONSULT

- 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-63, "CONFIGURATION (BCM): Work Procedure".
- If "Before Replace ECU" operation was not performed, select "After Replace ECU" or "Manual Configuration" to write vehicle specification. Refer to <u>BCS-63</u>, "CONFIGURATION (BCM): Work Procedure".

>> GO TO 4.

4. REGISTER INTELLIGENT KEYS

For initialization and registration of Intelligent Keys, refer to CONSULT Immobilizer mode and follow the onscreen instructions.

>> GO TO 5.

INSPECTION AND ADJUSTMENT

[BCM] < BASIC INSPECTION > INITIALIZE TPMS Perform TPMS initialization. Refer to WT-24, "Work Procedure". >> Work End. CONFIGURATION (BCM) CONFIGURATION (BCM): Description INFOID:0000000012874783 Vehicle specification needs to be written with CONSULT because it is not written after replacing BCM. Configuration has three functions as follows: D **Function** Description · Reads the vehicle configuration of current BCM. "Before Replace ECU" Е · 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- 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. Н CONFIGURATION (BCM): Work Procedure INFOID:0000000012874784 1.WRITING MODE SELECTION (P)CONSULT Select "Reprogramming, Configuration" of BCM. When writing saved data>> GO TO 2. When writing manually>> GO TO 3. 2.PERFORM "SAVED DATA LIST" (P)CONSULT Automatically "Operation Log Selection" window will display if "Before Replace ECU" was performed. Select applicable file from the "Save Data List" and press "Confirm". **BCS** >> Work End. 3.perform "after replace ecu" or "manual configuration" (P)CONSULT 1. Select "After Replace ECU" or "Manual Configuration". Identify the correct model and configuration list. Refer to BCS-64, "CONFIGURATION (BCM): Configuration List". Confirm and/or change setting value for each item. CAUTION: Thoroughly read and understand the vehicle specification. ECU control may not operate normally if the setting is not correct. Select "Next". **CAUTION:** Make sure to select "Next", confirm each setting value and press "OK" even if the indicated con-

set automatically by selecting vehicle model cannot be memorized.

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

figuration of brand new BCM is same as the desirable configuration. If not, configuration which is

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION > [BCM]

>> GO TO 4.

4. OPERATION CHECK

Confirm that each function controlled by BCM operates normally.

>> Work End.

CONFIGURATION (BCM): Configuration List

INFOID:0000000012874785

CAUTION:

- Thoroughly read and understand the vehicle specification. ECU control may not operate normally if the setting is not correct.
- The "setting value" of this vehicle is as follows: Never select any other value than the setting value shown below. (If there is only 1 item in "setting value" that means that item is the only choice for this certain vehicle.)

	SETTING ITEM	NOTE
Items	Setting value	NOTE
DONGLE	WITH ⇔ WITHOUT	WITH: For Canada models WITHOUT: Except for Canada models
CAN ERR DETECT HPCM or VCM	WITH ⇔ WITHOUT	WITH: Hybrid models WITHOUT: Gasoline engine and diesel engine models
CAN ERR DETECT ABD	WITH ⇔ WITHOUT	WITH: Power back door WITHOUT: Telematics not applied
CAN ERR DETECT TELEMATICS	WITH ⇔ WITHOUT	WITH: Telematics applied WITHOUT: Telematics not applied
ENST/LCK/UNLCK/PBD ⇔ ENST/LCK/ UNLCK/ALRM ⇔ ENST/LCK/UNLCK/ BD/ALRM ⇔ LCK/UNLCK/ALRM ⇔ LCK/UNLCK/PBD ⇔ LCK/UNLCK		ENST/LCK/UNLCK/PBD: 4 button (w/engine start) ENST/LCK/UNLCK/ALRM: 4 button (w/engine start) ENST/LCK/UNLCK/BD/ALRM: 5 button (w/engine start) LCK/UNLCK/ALRM: 3 button (w/o engine start) LCK/UNLCK/PBD: 3 button (w/o engine start) LCK/UNLCK: 2 button (w/o engine start)
TRANSMISSION	AT with ABS	AT with ABS: Automatic transmission with ABS models
AUTO CRANK TIME	MODE1 ⇔ MODE3	MODE1: VQ35DE engine models

SHIPPING MODE CANCEL OPERATION

[BCM] < BASIC INSPECTION > SHIPPING MODE CANCEL OPERATION Α Work Procedure INFOID:0000000012874786 1. SHIPPING MODE CANCEL OPERATION В Turn ignition switch OFF. 2. Press in (turn on) the extended storage switch. Refer to PG-107, "How To Check". Turn ignition switch ON. Turn ignition switch OFF and wait at least 2 seconds. NOTE: Pressing in the extended storage switch moves the mode from Shipping to Normal. D >> GO TO 2. 2.SHIPPING MODE CANCEL CHECK Е Turn ignition switch ON. 2. Check that extended storage warning message is not displayed in combination meter or display. F >> Work End. Н K **BCS** Ν 0

BCS-65 Revision: December 2015 2016 Murano NAM

INFOID:0000000012874788

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

DTC Description

Description

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H-line, CAN L-line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart. Refer to LAN-37, "CAN COMMUNICATION SYSTEM: CAN Communication Signal Chart".

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition		
'	U1000 CAN COMM CIRCUIT (CAN communication circuit)	Diagnosis condition	When ignition switch is ON.	
111000		Signal (terminal)	_	
01000		Threshold	_	
		Diagnosis delay time	2 seconds or more	

POSSIBLE CAUSE

CAN communication system

FAIL-SAFE

Diagnosis Procedure

INFOID:0000000012874789

1. SELF DIAGNOSTIC RESULT

CONSULT

- 1. Turn ignition switch ON and wait for 2 seconds or more.
- 2. Check "Self Diagnostic Result" mode of "BCM".
- 3. Check DTC.

Is DTC "U1000" displayed?

YES >> Refer to LAN-21, "Trouble Diagnosis Flow Chart".

NO-1 >> To check malfunction symptom before repair: Refer to GI-42, "Intermittent Incident".

NO-2 >> Confirmation after repair: Inspection End.

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

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U1010 CONTROL UNIT (CAN)

DTC Description

INFOID:0000000012874790

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition				
	U1010 CONTROL UNIT (Control unit)	Diagnosis condition	When ignition switch is ON.			
111010		Signal (terminal)	_			
01010		Threshold	_			
		Diagnosis delay time	2 seconds or more			

POSSIBLE CAUSE

• BCM

FAIL-SAFE

Diagnosis Procedure

INFOID:0000000012874791

1. REPLACE BCM

When DTC U1010 is detected, replace BCM.

>> Replace BCM. Refer to BCS-79, "Removal and Installation".

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U0415 VEHICLE SPEED SIG

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

U0415 VEHICLE SPEED SIG

DTC Description

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition		
	5 VEHICLE SPEED (Vehicle speed)	Diagnosis condition	When ignition switch is ON.	
U0415		Signal (terminal)	_	
00413		Threshold	_	
		Diagnosis delay time	2 seconds or more	

POSSIBLE CAUSE

- · ABS actuator and electric unit (control unit)
- BCM

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1. DTC CONFIRMATION PROCEDURE

(P)CONSULT

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

Is any DTC detected?

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

NO-1 >> To check malfunction symptom before repair: Refer to GI-42, "Intermittent Incident".

NO–2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:0000000012874793

1.SELF DIAGNOSTIC RESULT

(P)CONSULT

- 1. Turn ignition switch ON.
- Select "Self-Diagnostic Result" mode of "ABS".
- 3. Check DTC.

Is any DTC detected?

YES >> Repair or replace the malfunctioning part.

NO >> Replace BCM. Refer to BCS-79, "Removal and Installation".

B2562 LOW VOLTAGE [BCM] < DTC/CIRCUIT DIAGNOSIS > **B2562 LOW VOLTAGE** Α **DTC** Description INFOID:0000000012874794 DTC DETECTION LOGIC В CONSULT screen terms DTC No. **DTC Detection Condition** (Trouble diagnosis content) When ignition switch is ON. Diagnosis condition Signal (terminal) BCM power circuit (terminal 139 and 131 and ground) LOW VOLTAGE B2562 D (Low voltage) Threshold Less than 8.8V Diagnosis delay time 120 seconds or more POSSIBLE CAUSE Е · Harness or connector (power supply circuit) • BCM **FAIL-SAFE** DTC CONFIRMATION PROCEDURE 1.DTC CONFIRMATION PROCEDURE (P)CONSULT Н Erase DTC. Turn ignition switch OFF. Perform the "Self Diagnostic Result" mode of "BCM", after the ignition switch is turned ON for 120 seconds or more. Is any DTC detected? >> Refer to BCS-69, "Diagnosis Procedure". NO-1 >> To check malfunction symptom before repair: Refer to GI-42, "Intermittent Incident". NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:0000000012874795

1. CHECK POWER SUPPLY CIRCUIT

Check BCM power supply circuit. Refer to BCS-72, "Diagnosis Procedure".

Is the circuit normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".

NO >> Repair the malfunctioning part.

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Revision: December 2015 BCS-69 2016 Murano NAM

B259A ROOM LAMP FUSE

DTC Description

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition		
	B259A ROOM LAMP FUSE BLOWN (Room lamp fuse blown)	Diagnosis condition	When ignition switch is ON.	
DOEGN		Signal (terminal)	BCM power circuit (terminal 131 and ground)	
D239A		Threshold	Approx. 0V	
		Diagnosis delay time	120 seconds or more	

POSSIBLE CAUSE

- Fuse
- Harness or connector (power supply circuit is open or shorted)
- Harness or connector (interior room lamp power supply circuit is shorted)
- BCM

FAIL-SAFE

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DTC CONFIRMATION PROCEDURE

1.DTC CONFIRMATION PROCEDURE

CONSULT

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

Is any DTC detected?

YES >> Refer to <u>BCS-70, "Diagnosis Procedure"</u>.

NO-1 >> To check malfunction symptom before repair: Refer to GI-42, "Intermittent Incident".

NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:0000000012874797

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

1. CHECK FUSE

Check that the following fuse is not blown.

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

Is the fuse or fusible link blown?

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

NO >> GO TO 2.

2. CHECK BAT BCM FUSE CIRCUIT

- Disconnect BCM connector M81.
- Check voltage between BCM connector M81 terminal 131 and ground.

B259A ROOM LAMP FUSE

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

В	CM	Ground	Voltage	
Connector	Terminal	Ground	(Approx.)	
M81	131	_	Battery voltage	

В

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Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-79</u>, "Removal and Installation".

С

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

3. CHECK BATTERY SAVER OUTPUT CIRCUIT FOR SHORT TO GROUND

С

I. Turn ignition OFF.

2. Check continuity between BCM connector M81 terminal 129 and ground.

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ВС	CM	Ground	Continuity		
Connector	Connector Terminal		Continuity		
M81	129	_	No		

F

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-79</u>, "Removal and Installation".

NO >> Repair or replace harness or connectors.

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000012874798

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

1. CHECK FUSE AND FUSIBLE LINK

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

Signal name	Fuse and fusible link No.
Fusible link battery power	L (40A)
BCM battery fuse	1 (10A)

Is the fuse or fusible link blown?

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

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

- Disconnect BCM connector M81.
- 2. Check voltage between BCM connector M81 terminals 131, 139 and ground.

В	CM	Ground	Voltage			
Connector	Terminal	Giodila	(Approx.)			
M81	131		Battery voltage			
IVIO I	139	_	Dattery voltage			

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M81 terminals 134, 143 and ground.

В	CM	Ground	Continuity		
Connector	Terminal	Giodila			
M81	134		Yes		
IVIO I	143	_	165		

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

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COMBINATION SWITCH INPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000012874799

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

1. CHECK INPUT 1 - 5 SYSTEM CIRCUIT FOR OPEN

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector M19 and combination switch connector.
- 3. Check continuity between BCM connector M19 and combination switch connector.

Combination switch	В	CM	Combinat	Continuity		
signal	Connector	Terminal	Connector	Terminal	Continuity	
INPUT 1		79		11		
INPUT 2		78		9		
INPUT 3	M19	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 M19 and ground.

Combination switch	E	BCM		Continuity
signal	Connector	Terminal		Continuity
INPUT 1		79		
INPUT 2		78	Ground	
INPUT 3	M19	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 M19 and combination switch connector.
- Turn ignition switch ON.
- 3. Check voltage between BCM connector M19 and ground.

Combination switch	В	CM	Ground	Voltage		
signal	Connector	Terminal	Ground			
INPUT 1		79				
INPUT 2		78				
INPUT 3	M19	77	_	Refer to BCS-30, "Reference Value".		
INPUT 4		76				
INPUT 5		75				

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Revision: December 2015 BCS-73 2016 Murano NAM

COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

Is the inspection result normal?

YES >> Replace the combination switch. Refer to BCS-80, "Removal and Installation".

NO >> Replace BCM. Refer to BCS-79, "Removal and Installation".

COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

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COMBINATION SWITCH OUTPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000012874800

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

1. CHECK OUTPUT 1 - 5 SYSTEM CIRCUIT FOR OPEN

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

Combination switch	BC	M	Combination	Continuity	
signal	Connector	Terminal	Connector	Terminal	Continuity
OUTPUT 1		14		12	
OUTPUT 2		13		14	
OUTPUT 3	M18	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.

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

Check continuity between BCM connector M18 and ground.

Combination switch	В	CM		Continuity
signal	Connector	Terminal		Continuity
OUTPUT 1		14		
OUTPUT 2		13	Ground	
OUTPUT 3	M18	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 M18 and combination switch connector.
- Turn ignition switch ON.
- 3. Check voltage between BCM connector M18 and ground.

Combination switch	В	CM	Ground	Voltage		
signal	Connector	Terminal	Ground	Voltage		
OUTPUT 1		14				
OUTPUT 2		13				
OUTPUT 3	M18	12	_	Refer to BCS-30, "Ref- erence Value".		
OUTPUT 4		11		oronioo varao .		
OUTPUT 5		10				

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COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

Is the inspection result normal?

>> Replace BCM. Refer to <u>BCS-79</u>, "Removal and Installation".
>> Replace the combination switch. Refer to <u>BCS-80</u>, "Removal and Installation". NO

COMBINATION SWITCH SYSTEM SYMPTOMS

[BCM] < SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

COMBINATION SWITCH SYSTEM SYMPTOMS

Symptom Table INFOID:0000000012874801 В

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

Malfunction item: ×

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

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

Malfunction combination	Malfunctioning part	Repair or replace			
А	Combination switch INPUT 1 circuit				
В	Combination switch INPUT 2 circuit		DCC		
С	Combination switch INPUT 3 circuit	Inspect the combination switch input circuit applicable to the malfunctioning part. Refer to BCS-73, "Diagnosis Procedure".	BCS		
D	Combination switch INPUT 4 circuit				
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-75, "Diagnosis Procedure".	0		
1	Combination switch OUTPUT 4 circuit	ing part. Holor to <u>200 Fe, Braghtone Frodouare</u> .			
J	Combination switch OUTPUT 5 circuit		Р		
K	ВСМ	Replace BCM. Refer to BCS-79, "Removal and Installation".			
L	Combination switch	Replace the combination switch. Refer to BCS-80, "Removal and Installation".			

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NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS > [BCM]

NORMAL OPERATING CONDITION

Description INFOID:000000012874802

SHIPPING MODE

- Shipping mode inhibits battery power consumption during transportation or storage of the vehicle. Vehicle is set to shipping mode before being shipped from the factory.
- When ignition switch is OFF, BCM operates shipping mode.
- BCM control function is limited in shipping mode. Remote keyless entry function does not operate in shipping mode.
- For shipping mode cancel operation, refer to <u>BCS-65</u>. "Work Procedure".

NOTE:

Do not cancel shipping mode during storage of the vehicle. Shipping mode should not be canceled until just prior to customer delivery.

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REMOVAL AND INSTALLATION

BCM

Removal and Installation

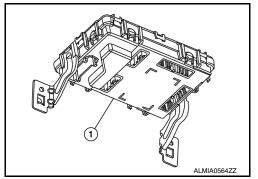
INFOID:0000000012874803

CAUTION:

Before replacing the BCM, perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to BCS-62, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM): Description".

REMOVAL

- 1. Disconnect the negative battery terminal. Refer to PG-112, "Removal and Installation".
- 2. Remove the combination meter. Refer to MWI-72, "Removal and Installation".
- Remove the BCM bolts.
- 4. Disconnect the harness connectors from the BCM (1) and remove.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- When replacing BCM, perform "WRITE CONFIGURATION". Refer to <u>BCS-62</u>, "ADDITIONAL SERVICE <u>WHEN REPLACING CONTROL UNIT (BCM)</u>: <u>Description</u>".
- When replacing BCM, perform the system initialization (NATS). Refer to <u>BCS-62, "ADDITIONAL SER-VICE WHEN REPLACING CONTROL UNIT (BCM)</u>: Description".
- When replacing BCM, if new BCM does not come with key fobs attached, all existing key fobs must be re-registered.
- For initialization and registration of Intelligent Keys, refer to CONSULT Immobilizer mode and follow the on-screen instructions.

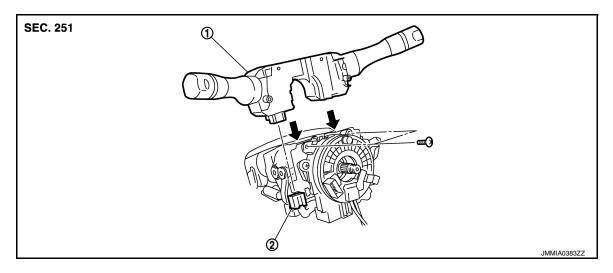
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COMBINATION SWITCH

Exploded View



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

Removal and Installation

INFOID:0000000012874805

REMOVAL

- 1. Disconnect both the negative and positive battery terminals, then wait at least three minutes. Refer to PG-112, "Exploded View".
- Remove the steering column covers. Refer to ST-32, "Removal and Installation".
- 3. Remove the combination switch screws.
- 4. 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-17, "SRS Final Check".