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INSPECTION AND ADJUSTMENT

[BCM] < BASIC INSPECTION > **BASIC INSPECTION** Α INSPECTION AND ADJUSTMENT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM) ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM): Description INFOID:0000000007421597 BEFORE REPLACEMENT When replacing BCM, save or print current vehicle specification with CONSULT configuration before replacement. D NOTE: If "Before Replace ECU" cannot be used, use the "After Replace ECU" or "Manual Configuration" after replacing BCM. Е AFTER REPLACEMENT **CAUTION:** • When replacing BCM, you must perform "After Replace ECU" with CONSULT. F - 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 INFOID:0000000007421598 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. K >> GO TO 2 2.REPLACE BCM Replace BCM. Refer to BCS-92, "Removal and Installation". >> GO TO 3. **BCS** 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-4, "CONFIGURATION (BCM): Work Procedure". 3. If "Before Replace ECU" operation was not performed, select "After Replace ECU" or "Manual Configuration" to write vehicle specification. Refer to BCS-4, "CONFIGURATION (BCM): Work Procedure". Р >> GO TO 4. 4.INITIALIZE BCM (NATS) Perform BCM initialization (NATS). Refer to CONSULT Immobilizer mode and follow the on-screen instruc-

Revision: February 2013 BCS-3 2012 Altima GCC

tions.

>> Work End.

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION > [BCM]

CONFIGURATION (BCM)

CONFIGURATION (BCM): Description

INFOID:0000000009325914

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

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

CAUTION:

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

CONFIGURATION (BCM): Work Procedure

INFOID:000000007421600

1. WRITING MODE SELECTION

(F)CONSULT

Select "Reprogramming, Configuration" of BCM.

When writing saved data>>GO TO 2. When writing manually>>GO TO 3.

2.PERFORM "SAVED DATA LIST"

(P)CONSULT

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

>> Work End.

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

(P)CONSULT

- 1. Select "After Replace ECU" or "Manual Configuration".
- Identify the correct model and configuration list. Refer to <u>BCS-5</u>, "CONFIGURATION (BCM): Configuration List".
- 3. Confirm and/or change setting value for each item.

CAUTION:

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

Select "Next".

CAUTION:

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

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

>> GO TO 4.

4. OPERATION CHECK

Confirm that each function controlled by BCM operates normally.

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION > [BCM]

>> Work End.

CONFIGURATION (BCM): Configuration List

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CAUTION:

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

MANUAL SETTING ITEM		NOTE	
Items	Setting value	NOTE	
AUTO LIGHT	WITH⇔WITHOUT	_	
DTRL	WITH⇔WITHOUT	_	
TRANSMISSION	•AT with ABS •MT with ABS	AT with ABS: CVT MT with ABS: MT	
TIRE PRESSURE	•220 kPa •230 kPa	220 kPa: 215/55R18 Tire 230 kPa: 215/55R17 Tire	
TPMS	WITH⇔WITHOUT	_	

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SYSTEM DESCRIPTION

BODY CONTROL SYSTEM

System Description

INFOID:0000000007421602

OUTLINE

- BCM (body control module) controls the various electrical components. It inputs the information required to the control from CAN communication and the signal received from each switch and sensor.
- BCM has combination switch reading function for reading the operation status of combination switches (light, turn signal, wiper and washer) in addition to a function for controlling the operation of various electrical components. It also has the signal transmission function as the passed point of signal and the power saving control function that reduces the power consumption with the ignition switch OFF.
- BCM is equipped with the diagnosis function that performs the diagnosis with CONSULT and various settings.

CAN communication control

In CAN communication, control units are connected with 2 communication lines (CAN-L, CAN-H) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives the data but selectively reads required information only.

CAN communication signal

Refer to the LAN-24, "CAN System Specification Chart".

BCM control function list

System	Refer to
Combination switch reading system	BCS-8. "System Description"
Signal buffer system	BCS-12, "System Description"
Power consumption control system	BCS-13, "System Description"
Auto light system	EXL-11. "System Description"
Turn signal and hazard warning lamp system	EXL-15. "System Description"
Headlamp system (xenon type)	EXL-7, "System Description"
Headlamp system (halogen type)	EXL-9. "System Description"
Front fog lamp system	EXL-13. "System Description"
Exterior lamp battery saver system	EXL-7, "System Description" (xenon type) EXL-9, "System Description" (halogen type)
Interior room lamp control system	IAII 7 "Cyctom Description"
Step lamp system	INL-7, "System Description"
Interior room lamp battery saver system	INL-7. "System Description"
Front wiper and washer system	WW-6, "System Description"
Warning chime system	WCS-4, "WARNING CHIME SYSTEM : System Description"
Door lock system	DLK-237, "DOOR LOCK AND UNLOCK SWITCH: System Description"
Trunk open system	DLK-250, "TRUNK LID OPENER SWITCH: System Description"
Nissan vehicle immobilizer system	SEC-234, "System Description"
Vehicle security system	SEC-238, "System Description"
Panic alarm	SEC-230. System Description
Rear window defogger system	DEF-6, "System Description"
Remote keyless entry system	DLK-237, "DOOR LOCK AND UNLOCK SWITCH: System Description"

BODY CONTROL SYSTEM

< SYSTEM DESCRIPTION > [BCM]

System		Refer to	
	Door lock function	DLK-239, "DOOR REQUEST SWITCH: System Description" (door request switch) DLK-244, "INTELLIGENT KEY: System Description" (Intelligent Key)	
Intelligent Key system/engine start system	Trunk open function	DLK-252, "TRUNK REQUEST SWITCH: System Description" (trunk request switch) DLK-257, "INTELLIGENT KEY: System Description" (Intelligent Key)	
	Warning function	DLK-262, "System Description"	
	Key reminder function	DLK-270. "System Description"	
	Engine start function	SEC-228, "System Description"	
Power window system		PWC-199, "System Description" (front LH and RH power window anti-pinch) PWC-13, "System Description" (front LH only window anti-pinch)	
RAP (retained accessory power) system		BCS-30, "RETAINED PWR : CONSULT Function (BCM - RE-TAINED PWR)"	
TPMS (tire pressure monitor system)		BCS-30, "AIR PRESSURE MONITOR : CONSULT Function (BCM - AIR PRESSURE MONITOR)"	

Component Parts Location

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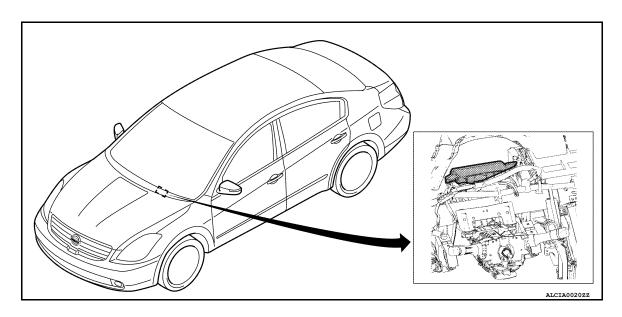
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 BCM M16, M17, M18, M19, M20, M21 (view with instrument panel removed)

NOTE:

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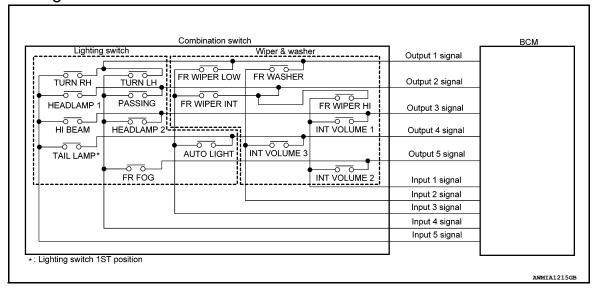
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COMBINATION SWITCH READING SYSTEM

System Diagram

INFOID:0000000007421604



System Description

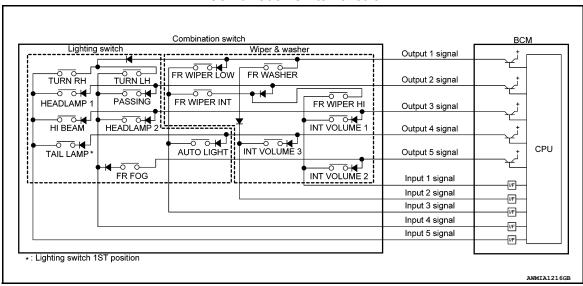
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OUTLINE

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

COMBINATION SWITCH MATRIX

Combination switch circuit



Combination switch INPUT-OUTPUT system list

System	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5
OUTPUT 1	_	FR WASHER	FR WIPER LOW	TURN LH	TURN RH
OUTPUT 2	FR WIPER HI	_	FR WIPER INT	PASSING	HEADLAMP 1
OUTPUT 3	INT VOLUME 1	_	_	HEADLAMP 2	HI BEAM

COMBINATION SWITCH READING SYSTEM

< SYSTEM DESCRIPTION >

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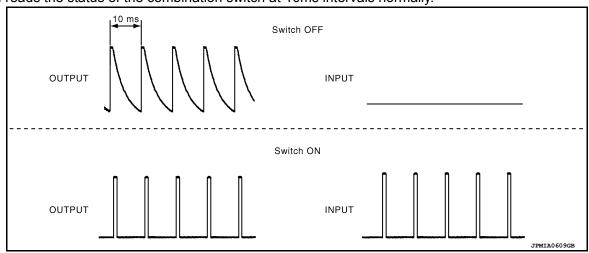
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System	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5
OUTPUT 4	_	INT VOLUME 3	AUTO LIGHT	_	TAIL LAMP
OUTPUT 5	INT VOLUME 2	_	_	FR FOG	_

COMBINATION SWITCH READING FUNCTION

Description

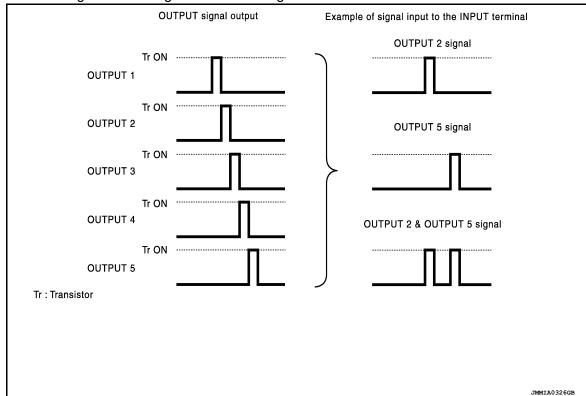
• BCM reads the status of the combination switch at 10ms intervals normally.



NOTE:

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

COMBINATION SWITCH READING SYSTEM

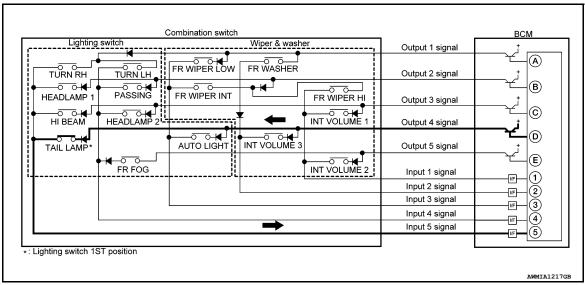
< SYSTEM DESCRIPTION >

[BCM]

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

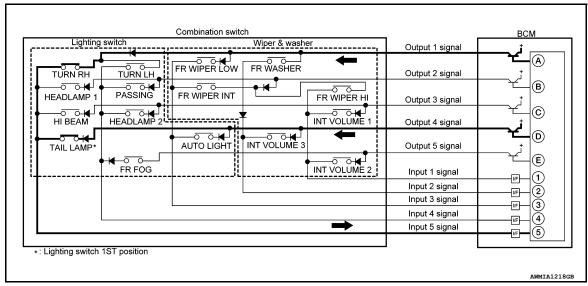
• The circuit between OUTPUT 4 and INPUT 5 is formed when the TAIL LAMP is turned ON.



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

Example 2: When some switches (TRUN 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.

COMBINATION SWITCH READING SYSTEM

< SYSTEM DESCRIPTION >

[BCM]

Wiper intermittent dial posi-	Intermittent oper-	INT VOLUME switch ON/OFF status			
tion	ation delay inter- val	INT VOLUME 1 switch	INT VOLUME 2 switch	INT VOLUME 3 switch	
1	Oh a d	ON	ON	ON	
2	Short ↑	ON	ON	OFF	
3		ON	OFF	OFF	
4		OFF	OFF	OFF	
5		OFF	OFF	ON	
6	↓ Long	OFF	ON	ON	
7		OFF	ON	OFF	

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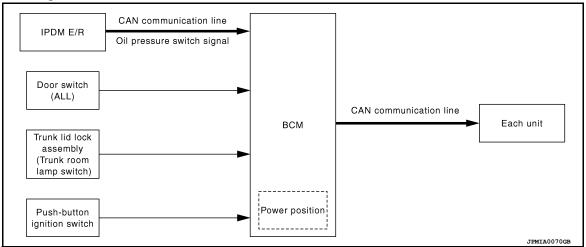
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SIGNAL BUFFER SYSTEM

System Diagram

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System Description

INFOID:0000000007421607

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.
Trunk switch signal	Trunk lamp switch	Combination meter (CAN)	Inputs the trunk room lamp switch signal and transmits the trunk switch signal via CAN communication.
Oil pressure switch signal	IPDM E/R (CAN)	Combination meter (CAN)	Transmits the received oil pressure switch signal via CAN communication.

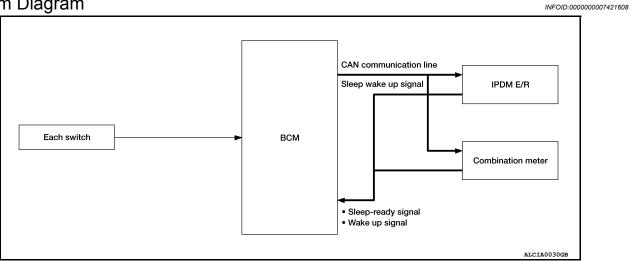
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POWER CONSUMPTION CONTROL SYSTEM

System Diagram



System Description

INFOID:0000000007421609

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 the each switches changes from 10 ms interval to 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 perform the low power consumption control when all of the BCM sleep conditions are fulfilled with CAN sleep condition.

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POWER CONSUMPTION CONTROL 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: Not operation Intelligent Key system buzzer: No operation Trunk lamp switch status: No change Brake switch: OFF Key slot status: No change Turn signal indicator lamp: No operation Exterior lamp: OFF Door lock status: No change CONSULT communication status: No communication Meter display signal: Non-transmission Electronic steering column lock operation: No operation 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 monitor system: Stop

Wake-up operation

- BCM changes from the low power consumption mode to the CAN communication sleep mode when the any of the BCM wake-up conditions is fulfilled. Only the control with BCM is activated.
- BCM transmits the sleep wake up signal (wake up) to each unit when any of the CAN wake-up conditions is 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.

Wake-up condition

BCM wake-up condition	CAN wake-up condition	
 Front door unlock sensor: OFF→ON, ON→OFF Front door lock assembly LH (key cylinder switch): Lock or unlock Door lock switch: OFF→ON Door unlock switch: OFF→ON Trunk lid 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 Key slot: OFF→ON, ON→OFF Push-button ignition switch: OFF→ON Hazard switch: OFF→ON PASSING switch: OFF→ON TAIL LAMP switch: OFF→ON, Front door switch LH: OFF→ON, ON→OFF Front door switch RH: OFF→ON, ON→OFF Rear door switch LH: OFF→ON, ON→OFF Rear door switch RH: OFF→ON, OFF→ON Trunk lamp switch: OFF→ON, ON→OFF Front door LH request switch: OFF→ON Front door RH request switch: OFF→ON Trunk request switch: OFF→ON Stop lamp switch 2 signal: ON Remote keyless entry receiver: Receiving valid keyfob 	

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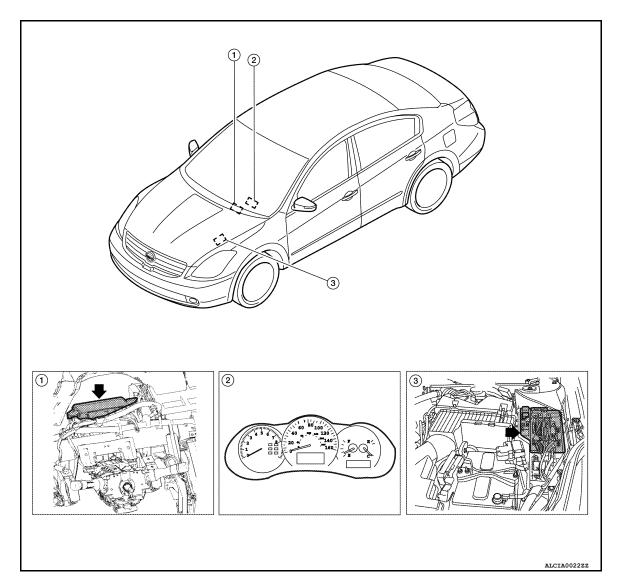
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Component Parts Location

INFOID:0000000007421610



- BCM M16, M17, M18, M19, M20, M21 (view with instrument panel removed)
- . Combination meter M24
- 3. IPDM E/R E16, E17, E18, E200, E201, F10

NOTE:

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DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: Diagnosis Description

INFOID:0000000007421611

BCM CONSULT FUNCTION

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description		
WORK SUPPORT	Changes the setting for each system function.		
SELF-DIAG RESULTS	Displays the diagnosis results judged by BCM.		
CAN DIAG SUPPORT MNTR	Monitors the reception status of CAN communication viewed from BCM.		
DATA MONITOR	The BCM input/output signals are displayed.		
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.		
ECU IDENTIFICATION	The BCM part number is displayed.		
CONFIGURATION	This function is not used even though it is displayed.		

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

It can perform the diagnosis modes except the following for all sub system selection items.

System	Sub system selection item	Diagnosis mode		
System		WORK SUPPORT	DATA MONITOR	ACTIVE TEST
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp timer	INT LAMP		×	×
Remote keyless entry system	MULTI REMOTE ENT		×	
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
Air conditioner	AIR CONDITONER		×	
Intelligent Key system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
BCM	BCM	×		
Immobilizer	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	
Trunk open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	AIR PRESSURE MONITOR	×	×	×

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000007421612

ECU IDENTIFICATION Displays the BCM part No.

SELF-DIAG RESULT

Refer to BCS-67, "DTC Index".

< SYSTEM DESCRIPTION > [BCM]

DOOR LOCK

DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)

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WORK SUPPORT

Work Item	Description
DOOR LOCK-UNLOCK SET	• ON • OFF
AUTOMATIC DOOR LOCK SELECT	P RANGE VH SPD
AUTOMATIC DOOR UNLOCK SE- LECT	MODE1 MODE2 MODE3 MODE4
AUTOMATIC LOCK/UNLOCK SE- LECT	LOCK/UNLOCK LOCK ONLY UNLOCK ONLY OFF

DATA MONITOR

Monitor Item [Unit]	Description
REQ SW-DR [ON/OFF]	Indicates condition of door request switch LH
REQ SW-AS [ON/OFF]	Indicates condition of door request switch RH
REQ SW-BD/TR [ON/OFF]	Indicates condition of trunk request switch
CDL LOCK SW [ON/OFF]	Indicates condition of door lock and unlock switch
CDL UNLOCK SW [ON/OFF]	Indicates condition of door lock and unlock switch
DOOR SW-DR [ON/OFF]	Indicates condition of front door switch LH
DOOR SW-AS [ON/OFF]	Indicates condition of front door switch RH
DOOR SW-RR [ON/OFF]	Indicates condition of rear door switch RH
DOOR SW-RL [ON/OFF]	Indicates condition of rear door switch LH
DOOR SW-BK [ON/OFF]	Indicates condition of trunk switch
KEY CYL LK-SW [ON/OFF]	Indicates condition of lock signal from door key cylinder switch
KEY CYL UN-SW [ON/OFF]	Indicates condition of unlock signal from door key cylinder switch

ACTIVE TEST

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

REAR WINDOW DEFOGGER

REAR WINDOW DEFOGGER: CONSULT Function (BCM - REAR DEFOGGER)

INFOID:0000000007421614

DATA MONITOR

Monitor Item [Unit]	Description
PUSH SW [ON/OFF]	Indicates condition of push switch
REAR DEF SW [ON/OFF]	Displays "Press (ON)/other (OFF)" status determined with the rear window defogger switch

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ACTIVE TEST

Test Item	Description	
REAR DEFOGGER	This test is able to check rear window defogger operation. Rear window defogger operates when "ON" on CONSULT screen is touched	

BUZZER

BUZZER: CONSULT Function (BCM - BUZZER)

INFOID:0000000007421615

DATA MONITOR

Display item [Unit]	Description	
VEH SPEED 1 [Km/h]	Value of vehicle speed signal received from ABS actuator and electric unit (control unit) with CAN communication line.	
PUSH SW [ON/OFF]	Status of push button ignition switch judged by BCM.	
UNLK SEN -DR [ON/OFF]	Status of front door lock assembly LH (door unlock sensor) judged by BCM.	
KEY SW-SLOT [ON/OFF]	Status of key slot judged by BCM.	
TAIL LAMP SW [ON/OFF]	Status of each switch judged by BCM using the combination SW readout function.	
FR FOG SW [ON/OFF]	Status of front fog lamp switch judged by BCM.	
DOOR SW -DR [ON/OFF]	Status of driver side door switch judged by BCM.	

ACTIVE TEST

Display item [Unit]	Description	
IGN KEY WARN ALM	The key warning chime operation can be checked by operating the relevant function (ON/OFF).	
SEAT BELT WARN TEST	The seat belt warning chime operation can be checked by operating the relevant function (ON/OFF).	
ID REGIST WARNING	The ID regist warning chime operation can be checked by operating the relevant function (ON/OFF).	
LIGHT WARN ALM	The light warning chime operation can be checked by operating the relevant function (ON/OFF).	

INT LAMP

INT LAMP: CONSULT Function (BCM - INT LAMP)

INFOID:0000000007421616

DATA MONITOR

Monitor item [Unit]	Description
REQ SW-DR [ON/OFF]	The switch status input from request switch (driver side)
REQ SW-AS [ON/OFF]	The switch status input from front request switch (passenger side)
PUSH SW [ON/OFF]	The switch status input from push-button ignition switch
ACC RLY-F/B [ON/OFF]	Indicates [ON/OFF] condition of accessory relay-1.
UNLK SEN-DR [ON/OFF]	Indicates [ON/OFF] condition of driver door UNLOCK status.

[BCM] < SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
KEY SW-SLOT [ON/OFF]	Key switch status input from key slot
DOOR SW-DR [ON/OFF]	The switch status input from front door switch LH
DOOR SW-AS [ON/OFF]	The switch status input from front door switch RH
DOOR SW-RR [ON/OFF]	The switch status input from rear door switch RH
DOOR SW- RL [ON/OFF]	The switch status input from rear door switch LH
CDL LOCK SW [ON/OFF]	Lock switch status received from central door lock switch by power window switch serial link
CDL UNLOCK SW [ON/OFF]	Unlock switch status received from central door lock switch by power window switch serial link
KEY CYL LK-SW [ON/OFF]	Lock switch status received from key cylinder switch by power window switch serial link
KEY CYL UN-SW [ON/OFF]	Unlock switch status received from key cylinder switch by power window switch serial link
TRNK/HAT MNTR [ON/OFF]	The switch status input from trunk room lamp switch
RKE-LOCK [ON/OFF]	Lock signal status received from remote keyless entry receiver
RKE-UNLOCK [ON/OFF]	Unlock signal status received from remote keyless entry receiver

ACTIVE TEST

Test item	Operation	Description
INT LAMP	ON	Outputs the interior room lamp control signal to turn map lamp and personal lamp ON (Map lamp switch is in DOOR position).
	OFF	Stops the interior room lamp control signal to turn map lamp and personal lamp OFF.
STEP LAMP TEST	ON	Outputs the step lamp control signal to turn step lamp ON.
	OFF	Stops the step lamp control signal to turn step lamp OFF.
LUGGAGE LAMP TEST	ON	Outputs the luggage room lamp control signal to turn step lamp ON.
	OFF	Stops the luggage room lamp control signal to turn step lamp ON.

MULTI REMOTE ENT

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

INFOID:0000000007421617

DATA MONITOR

Monitor Item	Condition
REQ SW -DR	Indicates [ON/OFF] condition of door request switch (driver side).
REQ SW -AS	Indicates [ON/OFF] condition of door request switch (passenger side).
DOOR SW-DR	Indicates [ON/OFF] condition of front door switch (driver side).
DOOR SW-AS	Indicates [ON/OFF] condition of front door switch (passenger side).
DOOR SW-RR	Indicates [ON/OFF] condition of rear door switch RH.
DOOR SW-RL	Indicates [ON/OFF] condition of rear door switch LH.
CDL LOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.

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Monitor Item	Condition
CDL UNLOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.
KEY CYL LK-SW	Indicated [ON/OFF] condition of lock signal from door key cylinder.
KEY CYL UN-SW	Indicated [ON/OFF] condition of unlock signal from door key cylinder.

HEADLAMP

HEADLAMP : CONSULT Function (BCM - HEAD LAMP)

INFOID:0000000007421618

[BCM]

WORK SUPPORT

Service item	Setting item	Setting
BATTERY SAVER SET	ON [*]	With the exterior lamp battery saver function
	OFF	Without the exterior lamp battery saver function

^{*:} Initial setting

DATA MONITOR

Monitor item [Unit]	Description		
PUSH SW [ON/OFF]	The switch status input from push-button ignition switch		
ENGINE STATE [STOP/STALL/CRANK/RUN]	The engine status received from ECM with CAN communication		
VEH SPEED 1 [km/h]	The value of the vehicle speed received from combination meter with CAN communication		
KEY SW-SLOT [ON/OFF]	Key switch status input from key slot		
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]	Each switch status that BCM judges from the combination switch reading function		
HEAD LAMP SW 2 [ON/OFF]			
PASSING SW [ON/OFF]			
AUTO LIGHT SW* [ON/OFF]			
FR FOG SW [ON/OFF]			
DOOR SW-DR [ON/OFF]	The switch status input from front door switch (driver side)		
DOOR SW-AS [ON/OFF]	The switch status input from front door switch (passenger side)		
DOOR SW-RR [ON/OFF]	The switch status input from rear door switch RH		
DOOR SW- RL [ON/OFF]	The switch status input from rear door switch LH		

< SYSTEM DESCRIPTION >

[BCM]

ACTIVE TEST

Test item	Operation	Description
TAIL LAMP	ON	Transmits the Position light request signal to IPDM E/R with CAN communication to turn the tail lamp ON.
	OFF	Stops the tail lamp request signal transmission.
	Н	Transmits the high beam request signal with CAN communication to turn the headlamp (HI)
HEAD LAMP	LOW	Transmits the low beam request signal with CAN communication to turn the headlamp (LOW).
	OFF	Stops the high & low beam request signal transmission.
FR FOG LAMP	ON	Transmits the front fog lights request signal to IPDM E/R with CAN communication to turn the front fog lamp ON.
	OFF	Stops the front fog lights request signal transmission.
ILL DIM SIGNAL	ON	Transmits the delay timer function timer operation time signal to IPDM E/R with CAN communication to turn the headlamps ON (All doors closed).
	OFF	Stops the delay timer function timer signal transmission.

WIPER

WIPER: CONSULT Function (BCM - WIPER)

INFOID:0000000007421619

WORK SUPPORT

Service item	Setting item	Description
WIPER SPEED SET- TING	ON	With vehicle speed (Front wiper intermittent time linked with the vehicle speed and wiper dial position)
	OFF*	Without vehicle speed (Front wiper intermittent time linked with the wiper dial position)

^{* :} Initial setting

DATA MONITOR

Monitor Item [Unit]	Description			
PUSH SW [OFF/ON]	Displays the status of the engine switch (push switch) judged by BCM.			
VEH SPEED 1 [km/h]	Displays the value of the vehicle speed signal received from combination meter with CAN communication.			
FR WIPER HI [OFF/ON]				
FR WIPER LOW [OFF/ON]				
FR WASHER SW [OFF/ON]	Status of each switch judged by BCM using the combination switch reading function			
FR WIPER INT [OFF/ON]				
FR WIPER STOP [OFF/ON]	Displays the status of the front wiper auto stop signal received from IPDM E/R with CAN communication.			
INT VOLUME [1 – 6]	Status of each switch judged by BCM using the combination switch reading function			

ACTIVE TEST

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^{*:} With auto light system

Test item	Operation	Description		
	HI	Transmits the front wiper request signal (HI) to IPDM E/R with CAN communication to operate the front wiper HI operation.		
FR WIPER	FR WIPER LO	Transmits the front wiper request signal (LO) to IPDM E/R with CAN communication to operate the front wiper LO operation.		
II	INT	Transmits the front wiper request signal (INT) to IPDM E/R with CAN communication to operate the front wiper INT operation.		
	OFF	Stops transmitting the front wiper request signal to stop the front wiper operation.		

FLASHER

FLASHER: CONSULT Function (BCM - FLASHER)

INFOID:0000000007421620

WORK SUPPORT

Service item	Setting item	Setting		
HAZARD ANSWER BACK	LOCK ONLY	Activated when locking.		
	UNLOCK ONLY*	Activated when unlocking.	Sets the hazard warning lamp answer back activation when the door is lock/unlock with the request switch or	
	LOCK/UN- LOCK	Activated when locking/ unlocking	the key fob.	
	OFF	Not activated		

^{*:} Initial setting

DATA MONITOR

Monitor item [Unit]	Description	
REQ SW-DR [ON/OFF]	The switch status input from request switch (driver side)	
REQ SW-AS [ON/OFF]	The switch status input from front request switch (passenger side)	
PUSH SW [ON/OFF]	The switch status input from push-button ignition switch	
TURN SIGNAL R [ON/OFF]	Fach quiteb condition that DOM indeed from the combination quiteb reading function	
TURN SIGNAL L [ON/OFF]	 Each switch condition that BCM judges from the combination switch reading func 	
HAZARD SW [ON/OFF]	The switch status input from the hazard warning switch	
RKE-LOCK [ON/OFF]	The lock signal status received from the keyless receiver	
RKE-UNLOCK [ON/OFF]	The unlock signal status received from the keyless receiver	
RKE-PANIC [ON/OFF]	The panic alarm signal status received from the keyless receiver	

ACTIVE TEST

Test item	Operation	Description
	RH	Blinks right turn signal lamp.
FLASHER	LH	Blinks left turn signal lamp.
	OFF	Turns turn signal lamps (right and left) OFF.

< SYSTEM DESCRIPTION > [BCM]

AIR CONDITIONER

AIR CONDITIONER : CONSULT Function (BCM - AIR CONDITIONER)

INFOID:0000000007421621

DATA MONITOR

Monitor Item [Unit]	Contents
FAN ON SIG [ON/OFF]	Display [FAN (On)/FAN (Off)] status as judged form blower fan motor switch signal
AIR COND SW [ON/OFF]	Display [COMP (On)/COMP (Off)] status as judged form air conditioner switch signal

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INTELLIGENT KEY

INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)

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WORK SUPPORT

Monitor item	Description	
CONFIRM KEY FOB ID	It can be checked whether Intelligent Key ID code is registered or not in this mode.	
AUTO LOCK SET	Auto door lock time can be changed in this mode. • MODE1: 1 minute • MODE2: 5 minutes • MODE3: 30 seconds • MODE4: 2 minutes	
LOCK/UNLOCK BY I-KEY	Door lock/unlock function by door request switch mode can be changed to operate (ON) or not operate (OFF) in this mode.	
ENGINE START BY I-KEY	Engine start function mode can be changed to operate (ON) or not operate (OFF) with this mode.	
TRUNK/GLASS HATCH OPEN	Buzzer reminder function mode by trunk request switch can be changed to operate (ON) or not operate (OFF) with this mode.	
PANIC ALARM SET	Panic alarm button pressing time on Intelligent Key remote control button can be selected from the following with this mode. • MODE1: 0.5 sec. • MODE2: Non-operation • MODE3: 1.5 sec.	
PW DOWN SET	Unlock button pressing time on Intelligent Key button can be selected from the following with this mode. • MODE1: 3 sec. • MODE2: Non-operation • MODE3: 5 sec.	
TRUNK OPEN DELAY	Trunk button pressing time on Intelligent Key button can be selected from the following with this mode. • MODE1: 0.5 sec. • MODE2: 1.5 sec. • MODE3: OFF: No delay	
LO- BATT OF KEY FOB WARN	Intelligent Key low battery warning mode can be changed to operate (ON) or not operate (OFF) with this mode.	
ANTI KEY LOCK IN FUNCTI	Key reminder function mode can be changed to operate (ON) or not operate (OFF) with this mode.	
HAZARD ANSWER BACK	Hazard reminder function mode can be selected from the following with this mode. • LOCK ONLY: Door lock operation only • UNLOCK ONLY: Door unlock operation only • LOCK/UNLOCK: Lock/unlock operation • OFF: Non-operation	

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Monitor item	Description	
ANS BACK I-KEY LOCK	Buzzer reminder function (lock operation) mode by door request switch (driver side and passenger side) can be selected from the following with this mode. • Horn chirp: Sound horn • Buzzer: Sound Intelligent Key warning buzzer • OFF: Non-operation	
ANS BACK I-KEY UNLOCK	Buzzer reminder function (unlock operation) mode by door request switch can be changed to operate (ON) or not operate (OFF) with this mode.	
SHORT CRANKING OUTPUT	Starter motor can be forcibly activated.	
INSIDE ANT DIAGNOSIS	This function allows inside key antenna self-diagnosis.	
HORN WITH KEYLESS LOCK	Horn reminder function mode by Intelligent Key button can be changed to operate (ON) or not operate (OFF) with this mode.	

SELF-DIAG RESULT

Refer to BCS-67, "DTC Index".

DATA MONITOR

Monitor Item	Condition
REQ SW-DR	Indicates [ON/OFF] condition of door request switch (driver side).
REQ SW-AS	Indicates [ON/OFF] condition of door request switch (passenger side).
REQ SW-BD/TR	Indicates [ON/OFF] condition of trunk opener request switch.
PUSH SW	Indicates [ON/OFF] condition of push button ignition switch.
CLUTCH SW	Indicates [ON/OFF] condition of clutch switch.
IGN RLY2 -F/B	Indicates [ON/OFF] condition of ignition relay 2.
ACC RLY-F/B	Indicates [ON/OFF] condition of accessory relay-1.
BRAKE SW 1	Indicates [ON/OFF] condition of brake switch.
BRAKE SW 2	Indicates [ON/OFF] condition of brake switch.
DETE/CANCL SW	Indicates [ON/OFF] condition of P position.
SFT PN/N SW	Indicates [ON/OFF] condition of P or N position.
S/L -LOCK	Indicates [ON/OFF] condition of steering lock (LOCK).
S/L -UNLOCK	Indicates [ON/OFF] condition of steering lock (UNLOCK).
S/L RELAY-F/B	Indicates [ON/OFF] condition of ignition switch.
UNLK SEN-DR	Indicates [ON/OFF] condition of driver door UNLOCK status.
PUSH SW -IPDM	Indicates [ON/OFF] condition of push button ignition switch.
IGN RLY1 -F/B	Indicates [ON/OFF] condition of ignition relay 1.
DETE SW -IPDM	Indicates [ON/OFF] condition of P position.
SFT PN -IPDM	Indicates [ON/OFF] condition of P or N position.
SFT P -MET	Indicates [ON/OFF] condition of P position.
SFT N -MET	Indicates [ON/OFF] condition of N position.
ENGINE STATE	Indicates [STOP/STALL/CRANK/RUN] condition of engine states.
S/L LOCK-IPDM	Indicates [ON/OFF] condition of steering lock (LOCK) request.
S/L UNLOCK-IPDM	Indicates [ON/OFF] condition of steering lock (UNLOCK) request.
S/L RELAY-REQ	Indicates [ON/OFF] condition of steering lock relay.
VEH SPEED 1	Display the vehicle speed signal received from combination meter by numerical value [Km/h].
VEH SPEED 2	Display the vehicle speed signal received from ABS or VDC or CVT by numerical value [Km/h].
DOOR STAT-DR	Indicates [LOCK/READY/UNLK] condition of driver side door status.
DOOR STAT-AS	Indicates [LOCK/READY/UNLK] condition of passenger side door status.
ID OK FLAG	Indicates [SET/RESET] condition of key ID.

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Monitor Item	Condition
PRMT ENG STRT	Indicates [SET/RESET] condition of engine start possibility.
KEY SW -SLOT	Indicates [ON/OFF] condition of key slot.
RKE OPE COUN1	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
TRNK/HAT MNTR	Indicates [ON/OFF] condition of trunk lid.
RKE-LOCK	Indicates [ON/OFF] condition of LOCK signal from Intelligent Key.
RKE-UNLOCK	Indicates [ON/OFF] condition of UNLOCK signal from Intelligent Key.
RKE-TR/BD	Indicates [ON/OFF] condition of TRUNK OPEN signal from Intelligent Key.
RKE-PANIC	Indicates [ON/OFF] condition of PANIC button of Intelligent Key.
RKE-P/W OPEN	Indicates [ON/OFF] condition of P/W DOWN signal from Intelligent Key.
RKE-MODE CHG	Indicates [ON/OFF] condition of MODE CHANGE signal from Intelligent Key.
PRMT RKE STRT	Indicates [ON/OFF] condition of ENGINE START signal from Intelligent Key.
RKE OPE COUN2	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
REVERSE SW	Indicates [ON/OFF] condition of R position.

ACTIVE TEST

Test item	t item Description	
BATTERY SAVER	This test is able to check interior room lamp operation. The interior room lamp is activated after "ON" on CONSULT screen is touched.	
PW REMOTO DOWN SET	This test is able to check power window down operation. The power window down is activated after "ON" on CONSULT screen is touched.	
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation. The Intelligent Key warning buzzer is activated after "ON" on CONSULT screen is touched.	
INSIDE BUZZER	This test is able to check warning chime in combination meter operation. • Take away warning chime sounds when "TAKE OUT" on CONSULT screen is touched. • Key warning chime sounds when "KEY" on CONSULT screen is touched. • OFF position warning chime sounds when "KNOB" on CONSULT screen is touched.	
INDICATOR	This test is able to check warning lamp operation. • "KEY" Warning lamp illuminates when "KEY ON" on CONSULT screen is touched. • "KEY" Warning lamp blinks when "KEY IND" on CONSULT screen is touched.	
INT LAMP	This test is able to check interior room lamp operation. The interior room lamp is activated after "ON" on CONSULT screen is touched.	
This test is able to check meter display information • Engine start information displays when "BP N" on CONSULT screen is touche • Engine start information displays when "BP I" on CONSULT screen is touche • Key ID warning displays when "ID NG" on CONSULT screen is touched. • P position warning displays when "SFT P" on CONSULT screen is touched. • Intelligent Key insert information displays when "INSRT" on CONSULT scree • Intelligent Key low battery warning displays when "BATT" on CONSULT scree • Take away through window warning displays when "NO KY" on CONSULT screen. • Take away warning display when "OUTKEY" on CONSULT screen is touched. • OFF position warning display when "LK WN" on CONSULT screen is touched.		
FLASHER	This test is able to check hazard warning lamp operation. The hazard warning lamps are activated after "LH/RH/OFF" on CONSULT screen is touch	
HORN	This test is able to check horn operation. The horn is activated after "ON" on CONSULT screen is touched.	
P RANGE	This test is able to check CVT shift selector power supply CVT shift selector power is supplied when "ON" on CONSULT screen is touched.	
ENGINE SW ILLUMI	This test is able to check push-ignition switch illumination operation. Push-ignition switch illumination illuminates when "ON" on CONSULT screen is touched.	

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Push-ignition switch illumination illuminates when "ON" on CONSULT screen is touched.

Test item	Description	
LOCK INDICATOR	This test is able to check LOCK indicator in push-ignition switch operation. LOCK indicator in push-ignition switch illuminates when "ON" on CONSULT screen is touched.	
ACC INDICATOR	This test is able to check ACC indicator in push-ignition switch operation. ACC indicator in push-ignition switch illuminates when "ON" on CONSULT screen is touched.	
IGNITION ON IND	This test is able to check ON indicator in push-ignition switch operation. ON indicator in push-ignition switch illuminates when "ON" on CONSULT screen is touched.	
KEY SLOT ILLUMI	This test is able to check key slot illumination operation. Key slot illumination blinks when "ON" on CONSULT screen is touched.	
TRUNK/BACK DOOR	This test is able to check trunk opener actuator open operation. This actuator opens when "OPEN" on CONSULT screen is touched.	

COMB SW

COMB SW: CONSULT Function (BCM - COMB SW)

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[BCM]

DATA MONITOR

Monitor item [UNIT]	Description
FR WIPER HI [OFF/ON]	Displays the status of the FR WIPER HI switch in combination switch judged by BCM with the combination switch reading function.
FR WIPER LOW [OFF/ON]	Displays the status of the FR WIPER LOW switch in combination switch judged by BCM with the combination switch reading function.
FR WASHER SW [OFF/ON]	Displays the status of the FR WASHER switch in combination switch judged by BCM with the combination switch reading function.
FR WIPER INT [OFF/ON]	Displays the status of the FR WIPER INT switch in combination switch judged by BCM with the combination switch reading function.
FR WIPER STOP [OFF/ON]	Displays the status of the front wiper stop position signal received from IPDM E/R via CAN communication.
INT VOLUME [1 - 7]	Displays the status of wiper intermittent dial position judged by BCM with the combination switch reading function.
TURN SIGNAL R [OFF/ON]	Displays the status of the TURN RH switch in combination switch judged by BCM with the combination switch reading function.
TURN SIGNAL L [OFF/ON]	Displays the status of the TURN LH switch in combination switch judged by BCM with the combination switch reading function.
TAIL LAMP SW [OFF/ON]	Displays the status of the TAIL LAMP switch in combination switch judged by BCM with the combination switch reading function.
HI BEAM SW [OFF/ON]	Displays the status of the HI BEAM switch in combination switch judged by BCM with the combination switch reading function.
HEAD LAMP SW 1 [OFF/ON]	Displays the status of the HEADLAMP 1 switch in combination switch judged by BCM with the combination switch reading function.
HEAD LAMP SW 2 [OFF/ON]	Displays the status of the HEADLAMP 2 switch in combination switch judged by BCM with the combination switch reading function.
PASSING SW [OFF/ON]	Displays the status of the PASSING switch in combination switch judged by BCM with the combination switch reading function.
AUTO LIGHT SW* [OFF/ON]	Displays the status of the AUTO LIGHT switch in combination switch judged by BCM with the combination switch reading function.
FR FOG SW [OFF/ON]	Displays the status of the FR FOG switch in combination switch judged by BCM with the combination switch reading function.

^{*:} With auto light system

BCM

BCM: CONSULT Function (BCM - BCM)

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WORK SUPPORT

Item		Description	
RESET SETTING VALUE	Return a value set with WORK SUPPORT of each system to a default value in initial setting.		
ИMU			
MMU : CONSULT F	unction (BCM - II	MMU)	
	(=	,	
ATA MONITOR			
Monitor item		Content	
CONFRM ID ALL			
CONFIRM ID4	-		
CONFIRM ID3	Indicates [YET] at all tim		
CONFIRM ID2	Switch to [DONE] when	a registered Intelligent Key is inserted into the key slot.	
CONFIRM ID1	_		
TP 4			
TP 3	_		
	Indicates the number of	ID which has been registered.	
TP 2	 -		
ΓP 1			
PUSH SW		dition of push-button ignition switch.	
KEY SW -SLOT	Indicates [ON/OFF] cond	dition of key slot.	
CTIVE TEST			
Test Item		Description	
1631 116111		Description	
THEET IND	This test is able to el	hook cocurity indicator operation ION/OFFI	
THEFT IND	This test is able to cl	heck security indicator operation [ON/OFF].	
	This test is able to cl	heck security indicator operation [ON/OFF].	
ATTERY SAVER			
ATTERY SAVER		tion (BCM - BATTERY SAVER)	
ATTERY SAVER ATTERY SAVER :			
ATTERY SAVER ATTERY SAVER : (CONSULT Funct	tion (BCM - BATTERY SAVER)	
ATTERY SAVER ATTERY SAVER :	CONSULT Funct	tion (BCM - BATTERY SAVER) NFOID:00	
ATTERY SAVER ATTERY SAVER : (CONSULT Funct Setting item ON*	tion (BCM - BATTERY SAVER) NFOID-00	
ATTERY SAVER ATTERY SAVER : (ORK SUPPORT Service item	CONSULT Funct Setting item ON* OFF	n Setting With the exterior lamp battery saver function Without the exterior lamp battery saver function	
ATTERY SAVER ATTERY SAVER : (ORK SUPPORT Service item	Setting item ON* OFF ON*	Tion (BCM - BATTERY SAVER) Setting With the exterior lamp battery saver function Without the exterior lamp battery saver function With the interior room lamp battery saver function	
ATTERY SAVER ATTERY SAVER : (ORK SUPPORT Service item BATTERY SAVER SET	Setting item ON* OFF ON* OFF	Setting With the exterior lamp battery saver function Without the exterior lamp battery saver function With the interior room lamp battery saver function Without the interior room lamp battery saver function	
ATTERY SAVER ATTERY SAVER : (ORK SUPPORT Service item BATTERY SAVER SET	Setting item ON* OFF ON* OFF MODE 1*	Setting With the exterior lamp battery saver function Without the exterior lamp battery saver function Without the interior room lamp battery saver function Without the interior room lamp battery saver function Sets the interior room lamp battery saver timer open	
ATTERY SAVER ATTERY SAVER: ORK SUPPORT Service item BATTERY SAVER SET ROOM LAMP BAT SAV SET	Setting item ON* OFF ON* OFF	Setting With the exterior lamp battery saver function Without the exterior lamp battery saver function With the interior room lamp battery saver function Without the interior room lamp battery saver function	
ATTERY SAVER ATTERY SAVER: ORK SUPPORT Service item BATTERY SAVER SET ROOM LAMP BAT SAV SET ROOM LAMP TIMER SET nitial setting	Setting item ON* OFF ON* OFF MODE 1*	Setting With the exterior lamp battery saver function Without the exterior lamp battery saver function Without the interior room lamp battery saver function Without the interior room lamp battery saver function Sets the interior room lamp battery saver timer open	
ATTERY SAVER ATTERY SAVER: ORK SUPPORT Service item BATTERY SAVER SET ROOM LAMP BAT SAV SET ROOM LAMP TIMER SET nitial setting	Setting item ON* OFF ON* OFF MODE 1*	Setting With the exterior lamp battery saver function Without the exterior lamp battery saver function Without the interior room lamp battery saver function Without the interior room lamp battery saver function Sets the interior room lamp battery saver timer open	
ATTERY SAVER ATTERY SAVER: ORK SUPPORT Service item BATTERY SAVER SET ROOM LAMP BAT SAV SET ROOM LAMP TIMER SET Initial setting ATA MONITOR Monitor item	Setting item ON* OFF ON* OFF MODE 1*	Setting With the exterior lamp battery saver function Without the exterior lamp battery saver function With the interior room lamp battery saver function Without the interior room lamp battery saver function Without the interior room lamp battery saver function 15 min. Sets the interior room lamp battery saver timer open time.	
ATTERY SAVER ATTERY SAVER: ORK SUPPORT Service item BATTERY SAVER SET ROOM LAMP BAT SAV SET ROOM LAMP TIMER SET Initial setting ATA MONITOR	Setting item ON* OFF ON* OFF MODE 1*	Setting With the exterior lamp battery saver function Without the exterior lamp battery saver function Without the interior room lamp battery saver function Without the interior room lamp battery saver function Sets the interior room lamp battery saver timer open	

[Unit]	Description
REQ SW-DR [ON/OFF]	The switch status input from request switch (driver side)
REQ SW-AS [ON/OFF]	The switch status input from front request switch (passenger side)
PUSH SW [ON/OFF]	The switch status input from push-button ignition switch

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Monitor item [Unit]	Description
ACC RLY-F/B [ON/OFF]	Indicates [ON/OFF] condition of accessory relay-1.
UNLK SEN-DR [ON/OFF]	Status of front door lock assembly LH (door unlock sensor) judged by BCM
KEY SW-SLOT [ON/OFF]	Key switch status input from key slot
DOOR SW-DR [ON/OFF]	The switch status input from front door switch (driver side)
DOOR SW-AS [ON/OFF]	The switch status input from front door switch (passenger side)
DOOR SW-RR [ON/OFF]	The switch status input from rear door switch RH
DOOR SW- RL [ON/OFF]	The switch status input from rear door switch LH
CDL LOCK SW [ON/OFF]	Lock switch status received from central door lock switch by power window switch serial link
CDL UNLOCK SW [ON/OFF]	Unlock switch status received from central door lock switch by power window switch serial link
KEY CYL LK-SW [ON/OFF]	Lock switch status received from key cylinder switch by power window switch serial link
KEY CYL UN-SW [ON/OFF]	Unlock switch status received from key cylinder switch by power window switch serial link
TRNK/HAT MNTR [ON/OFF]	The switch status input from trunk room lamp switch
RKE-LOCK [ON/OFF]	Lock signal status received from remote keyless entry receiver
RKE-UNLOCK [ON/OFF]	Unlock signal status received from remote keyless entry receiver

ACTIVE TEST

Test item	Operation	Description
BATTERY SAVER	OFF	Cuts the interior room lamp power supply to turn interior room lamp OFF.
	ON	Outputs the interior room lamp power supply to turn interior room lamp ON.*

^{*:} Each lamp switch is in ON position.

TRUNK

TRUNK: CONSULT Function (BCM - TRUNK)

INFOID:0000000007421627

DATA MONITOR

Monitor Item	Contents	
PUSH SW	Indicates [ON/OFF] condition of push button ignition switch.	
UNLK SEN -DR	Indicates [ON/OFF] condition of driver door UNLOCK status.	
VEH SPEED 1	Indicates [Km/h] condition of vehicle speed signal from combination meter.	
TR CANCEL SW	Indicates [ON/OFF] condition of trunk cancel switch.	
TR/BD OPEN SW	Indicates [ON/OFF] condition of trunk opener switch.	
TRNK/HAT MNTR	Indicates [ON/OFF] condition of trunk lid.	
RKE-TR/BD	Indicates [ON/OFF] condition of TRUNK OPEN signal from Intelligent Key.	

ACTIVE TEST

< SYSTEM DESCRIPTION >

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Test Item	Description
TRUNK/GLASS HATCH	This test is able to check trunk open operation. Trunk opens when "OPEN" on CONSULT screen is touched.

THEFT ALM

THEFT ALM: CONSULT Function (BCM - THEFT ALM)

INFOID:0000000007421628

WORK SUPPORT

Test Item	Description	
SECURITY ALARM SET	This mode is able to confirm and change security alarm ON-OFF setting.	
THEFT ALM TRG	The switch which triggered vehicle security alarm is recorded. This mode is able to confirm and erase the record of vehicle security alarm. The trigger data can be erased by touching "CLEAR" on CONSULT screen.	

DATA MONITOR

Monitored Item	Description
REQ SW -DR	Indicates [ON/OFF] condition of front door request switch (driver side).
REQ SW -AS	Indicates [ON/OFF] condition of front door request switch (passenger side).
REQ SW -BD/TR	Indicates [ON/OFF] condition of trunk request switch.
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch
UNLK SEN -DR	Indicates [ON/OFF] condition of driver door UNLOCK status.
KEY SW -SLOT	Indicates [ON/OFF] condition of key slot.
DOOR SW-DR	Indicates [ON/OFF] condition of front door switch LH.
DOOR SW-AS	Indicates [ON/OFF] condition of front door switch RH.
DOOR SW-RR	Indicates [ON/OFF] condition of rear door switch RH.
DOOR SW-RL	Indicates [ON/OFF] condition of rear door switch LH.
CDL LOCK SW	Indicates [ON/OFF] condition of lock signal from door lock/unlock switch LH and RH.
CDL UNLOCK SW	Indicates [ON/OFF] condition of unlock signal from door lock/unlock switch LH and RH.
KEY CYL LK-SW	Indicates [ON/OFF] condition of lock signal from front door key cylinder switch.
KEY CYL UN-SW	Indicates [ON/OFF] condition of unlock signal from front door key cylinder switch.
TR/BD OPEN SW	Indicates [ON/OFF] condition of trunk opener switch.
TRNK/HAT MNTR	Indicates [ON/OFF] condition of trunk lid.
RKE-LOCK	Indicates [ON/OFF] condition of LOCK signal from Intelligent Key.
RKE-UNLOCK	Indicates [ON/OFF] condition of UNLOCK signal from Intelligent Key.
RKE-TR/BD	Indicates [ON/OFF] condition of TRUNK OPEN signal from Intelligent Key.

ACTIVE TEST

Test item	Operation	Description	
THEFT IND		This test is able to check security indicator lamp operation. The lamp will be turned on when "ON" on CONSULT screen is touched.	
VEHICLE SECURITY HORN		This test is able to check vehicle security horn operation. The horns will be activated for 0.5 seconds after "ON" on CONSULT screen is touched.	
HEAD LAMP(HI)		This test is able to check vehicle security lamp operation. The headlamps will be activated for 0.5 seconds after "ON" on CONSULT screen is touched.	
RH		Outputs the voltage to blink the right side turn signal lamps.	
FLASHER LH		Outputs the voltage to blink the left side turn signal lamps.	
	Off	Stops the voltage to turn the turn signal lamps OFF.	

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< SYSTEM DESCRIPTION >

RETAINED PWR

RETAINED PWR: CONSULT Function (BCM - RETAINED PWR)

INFOID:0000000007421629

[BCM]

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)

NFOID:0000000007421630

DATA MONITOR

Monitor item [UNIT]	Description
PUSH SW [OFF/ON]	Displays the status of the push-button ignition switch (push switch) judged by BCM.

ACTIVE TEST

Test item	Operation	Description
	OFF	OFF
OIL PRESSURE SW	ON	BCM transmits the oil pressure switch signal to the combination meter via CAN communication, which illuminates the oil pressure warning lamp.

AIR PRESSURE MONITOR

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

WORK SUPPORT

ID Read

The registered ID number is displayed.

ID Regist

Refer to WT-6, "ID Registration Procedure".

SELF-DIAG RESULTS

Refer to BCS-67, "DTC Index".

DATA MONITOR

Screen of data monitor mode is displayed.

NOTE:

When malfunction is detected, CONSULT perform REAL-TIME DIAGNOSIS.

Also, any malfunction detected while in this mode will be displayed at real time.

Display item list

Monitor	Condition	Specification
AIR PRESS FL AIR PRESS FR AIR PRESS RR AIR PRESS RL	Drive vehicle for a few minutes. or Ignition switch ON and activation tool is transmitting activation signals.	Tire pressure (kPa, kg/cm ² or Psi)

< SYSTEM DESCRIPTION >

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Monitor	Condition	Specification	٨
ID REGST FL1 ID REGST FR1 ID REGST RR1 ID REGST RL1		Registration ID: Green No registration: Red	В
WARNING LAMP	Ignition switch ON	Low tire pressure warning lamp on: ON Low tire pressure warning lamp off: OFF	
BUZZER		Buzzer in combination meter on: ON Buzzer in combination meter off: OFF	С

NOTE:

Before performing the self-diagnosis, be sure to register the ID, or erase the actual malfunction location may be different from that displayed on CONSULT.

ACTIVE TEST

NOTE:

Before performing the self-diagnosis, be sure to register the ID, or else the actual malfunction may be different from that displayed on CONSULT.

TEST ITEM LIST

Test item	Content	
WARNING LAMP	This test is able to check warning lamp operation. The lamp will be turned on when "ON" on CONSULT screen is touched.	
ID REGIST WARNING	This test is able to check to make sure that the buzzer sounds or the warning lamp turns on.	
FLASHER	This test is able to check to make sure that each turn signal lamp turns on.	
HORN	This test is able to check to make sure that the horn sounds.	

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U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:000000007421632

Refer to BCS-6, "System Description".

DTC Logic

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:0000000007421634

1. PERFORM SELF DIAGNOSTIC

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

Is "CAN COMM CIRCUIT" displayed?

YES >> Refer to LAN-7, "CAN Communication Control Circuit".

NO >> Refer to GI-42, "Intermittent Incident".

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

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U1010 CONTROL UNIT (CAN)

DTC Logic

DTC DETECTION LOGIC

CONSULT display description	DTC Detection Condition	Possible cause
CAN COMM CIRCUIT [U1010]	BCM detected internal CAN communication circuit malfunction.	ВСМ

Diagnosis Procedure

INFOID:0000000007421636

1. REPLACE BCM

When DTC U1010 is detected, replace BCM.

>> Replace BCM. Refer to BCS-92, "Removal and Installation".

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U0415 VEHICLE SPEED SIG

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

U0415 VEHICLE SPEED SIG

Description INFOID:000000007421637

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

DTC Logic

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	Diagnostic item is detected when	Probable malfunction location
U0415	VEHICLE SPEED SIG [U0415]	When the vehicle speed signal received from the ABS actuator and electric unit (control unit) remains abnormal for 2 seconds or more.	ABS actuator and electric unit (control unit) BCM

DTC CONFIRMATION PROCEDURE

1. DTC CONFIRMATION

- 1. Erase the DTC.
- 2. Turn ignition switch OFF.
- Perform the "SELF-DIAG RESULTS" of CONSULT, when passed 2 seconds or more after the ignition switch is turned ON

Is any DTC detected?

YES >> Refer to BCS-34, "Diagnosis Procedure".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000007421639

1. ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) SELF-DIAG RESULTS

Perform "SELF-DIAG RESULTS" of ABS actuator and electric unit (control unit) with CONSULT. Refer to BRC-15, "CONSULT Function (ABS)".

Is any DTC detected?

YES >> Repair or replace the malfunctioning part.

NO >> Replace BCM. Refer to BCS-92, "Removal and Installation".

B2562 LOW VOLTAGE

		B2562 LOW VOLTAGE		
	RCUIT DIAGNOSIS		[BCM]	
B2562 I	LOW VOLTAG	E		А
DTC Log	gic		INFOID:000000007421640	
DTC DET	ECTION LOGIC			В
DTC	Display contents of CONSULT	Diagnostic item is detected when	Possible cause	С
B2562	LOW VOLTAGE	When the power supply voltage to BCM remains less than 8.8 V for 1.5 seconds or more	Harness or connector (power supply circuit)	
1. ртс с	IFIRMATION PROC	CEDURE		D
3. Perform switch Is any DTC	gnition switch OFF. m the "SELF-DIAG is turned ON. C detected?	RESULTS" of CONSULT, when passed 1. Diagnosis Procedure".	5 seconds or more after ignition	F
Diagnos	is Procedure		INFOID:000000007421641	
1. CHECK	K BATTERY VOLTAG	BE		Н
<u>Is battery v</u> Yes >:	tery voltage. voltage less than 8.8\ > Charge battery and > GO TO 2	<u>√?</u> I retest. Refer to <u>PG-142, "Battery"</u> .		I
2. CHECK	K POWER SUPPLY	CIRCUIT		J
Is the circu	<u>uit OK?</u> > Replace BCM. Ref	er to BCS-92, "Removal and Installation".		K
	> Repair or replace แ Repair Requirem	ne malfunctioning part.	WF2012 000000007 (010 to	
•			INFOID:0000000007421642	L
	RED WORK WHEN	REPLACING BOM CS-3, "ADDITIONAL SERVICE WHEN REP	LACING CONTROL LINIT (BCM):	ВС
Work Proc	edure".	OC 0. ADDITIONAL CLIVICE WHENTER	LACING CONTROL ONLY (BOW).	
>:	> Work End.			Ν
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POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000007421643

Regarding Wiring Diagram information, refer to <u>BCS-70</u>, "Wiring Diagram - Coupe" or <u>BCS-79</u>, "Wiring Diagram - Sedan".

1. CHECK FUSE AND FUSIBLE LINK

Check if the following BCM fuse or fusible link are blown.

Terminal No.	Signal name	Fuse and fusible link No.	
1	Battery power supply	Н	
11	Dattery power suppry	10	

Is the fuse or fusible link blown?

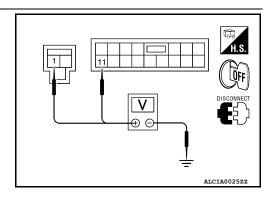
YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2

2. CHECK POWER SUPPLY CIRCUIT

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

(+)	(-)	Voltage
ВСМ			(Approx.)
Connector	Terminal	Ground	
M16	1		Battery voltage
M17	11		Ballery Vollage



Is the measurement normal?

YES >> GO TO 3

NO >> Repair or replace harness.

$3.\,$ CHECK GROUND CIRCUIT

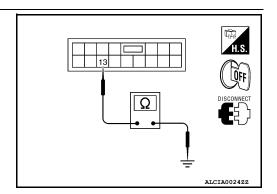
Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M17	13		Yes

Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace harness.



Special Repair Requirement

INFOID:0000000007421644

1. REQUIRED WORK WHEN REPLACING BCM

Initialize control unit. Refer to <u>BCS-3</u>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM) : Work Procedure".

>> Work End.

COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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COMBINATION SWITCH INPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000007421645

Regarding Wiring Diagram information, refer to BCS-70, "Wiring Diagram - Coupe" or BCS-79, "Wiring Diagram - Sedan".

1. CHECK COMBINATION SWITCH

(P) CONSULT DATA MONITOR and ACTIVE TEST

Check combination switch function. Refer to BCS-26, "COMB SW: CONSULT Function (BCM - COMB SW)".

Does combination switch function?

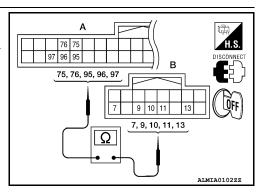
YES >> Combination switch operation is normal.

NO >> GO TO 2

2. CHECK INPUT 1 - 5 SYSTEM CIRCUIT FOR OPEN

- Turn the ignition switch OFF.
- Disconnect the BCM and combination switch. 2.
- Check continuity between BCM harness connector and combination switch harness connector.

System	BCM		Combinat	Continuity	
System	Connector	Terminal	Connector	Terminal	Continuity
INPUT 1		95		11	
INPUT 2		97		9	
INPUT 3	M19	76	M28	7	Yes
INPUT 4		96		10	
INPUT 5		75		13	



Does continuity exist?

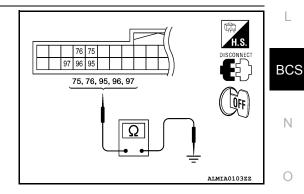
YES >> GO TO 3

NO >> Repair or replace harness.

$oldsymbol{3}$. CHECK INPUT 1 - 5 SYSTEM CIRCUIT FOR SHORT

Check for continuity between BCM harness connector and ground.

System	ВС	CM		Continuity
System	Connector Terminal			Continuity
INPUT 1		95	=	
INPUT 2		97	Ground	
INPUT 3	M19	76	=	No
INPUT 4		96	-	
INPUT 5		75		



Does continuity exist?

YES >> Repair or replace harness.

NO >> GO TO 4

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4. CHECK BCM OUTPUT VOLTAGE

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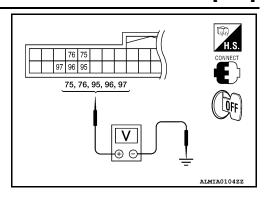
COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

- 1. Connect the BCM.
- Check voltage between BCM harness connector and ground.

		Terminals	3	
System	(+)		(-)	Voltage
System	BCM			(Approx.)
	Connector	Terminal		
INPUT 1		95		
INPUT 2		97	Ground	Refer to BCS-
INPUT 3	M19	76		45, "Physical
INPUT 4		96		<u>Values"</u> .
INPUT 5		75		



Is the measurement normal?

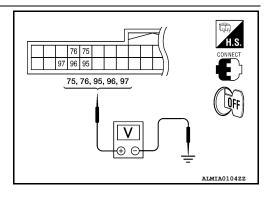
YES >> GO TO 5

NO >> Replace BCM. Refer to BCS-92, "Removal and Installation".

5. CHECK BCM INPUT SIGNAL

- Connect the combination switch.
- Turn ON any switch in the system that is malfunctioning.
- 3. Check voltage between BCM harness connector and ground.

System	(+)		(-)	Voltage
System	BCM			(Approx.)
	Connector	Terminal		
INPUT 1		95		
INPUT 2		97	Ground	Refer to BCS-
INPUT 3	M19	76		45, "Physical
INPUT 4		96		<u>Values"</u> .
INPUT 5	•	75		



Is the measurement normal when any of the switches is turned ON?

YES >> Replace BCM. Refer to BCS-92. "Removal and Installation".

NO >> Replace the combination switch. Refer to EXL-219, "Removal and Installation".

Special Repair Requirement

INFOID:0000000007421646

1. REQUIRED WORK WHEN REPLACING BCM

Initialize control unit. Refer to <u>BCS-3</u>, "<u>ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM)</u>: <u>Work Procedure"</u>.

>> Work End.

COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

INFOID:0000000007421647

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COMBINATION SWITCH OUTPUT CIRCUIT

Diagnosis Procedure

Regarding Wiring Diagram information, refer to BCS-70, "Wiring Diagram - Coupe" or BCS-79, "Wiring Diagram - Sedan".

1. CHECK COMBINATION SWITCH

(P) CONSULT DATA MONITOR and ACTIVE TEST

Check combination switch function. Refer to BCS-26, "COMB SW: CONSULT Function (BCM - COMB SW)".

BCS-39

Does combination switch function?

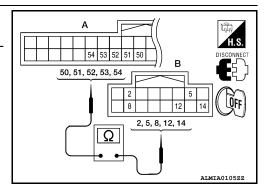
YES >> Combination switch operation is normal.

NO >> GO TO 2

${f 2}.$ CHECK OUTPUT 1 - 5 SYSTEM CIRCUIT FOR OPEN

- Turn the ignition switch OFF.
- Disconnect the BCM and combination switch. 2.
- Check continuity between BCM harness connector and combination switch harness connector.

System	ВСМ		Combinat	Continuity	
System	Connector	Terminal	Connector	Terminal	Continuity
OUTPUT 1		51		12	
OUTPUT 2		52		14	
OUTPUT 3	M18	53	M28	5	Yes
OUTPUT 4		54		2	
OUTPUT 5		50		8	



Does continuity exist?

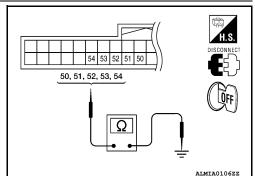
YES >> GO TO 3

NO >> Repair or replace harness.

$oldsymbol{3}.$ CHECK OUTPUT 1 - 5 SYSTEM CIRCUIT FOR SHORT

Check for continuity between BCM harness connector and ground.

System	ВС	CM		Continuity
System	Connector Terminal		=	Continuity
OUTPUT 1		51	=	
OUTPUT 2		52	Ground	
OUTPUT 3	M18	53	=	No
OUTPUT 4		54	-	
OUTPUT 5		50		



Does continuity exist?

YES >> Repair or replace harness.

NO >> GO TO 4

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f 4 . CHECK COMBINATION SWITCH OUTPUT VOLTAGE

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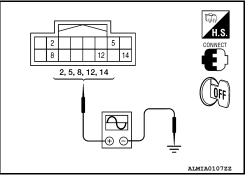
COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

- 1. Connect the BCM and combination switch.
- 2. Turn ON any switch in the system that is malfunctioning.
- 3. Check voltage between combination switch harness connector and ground.

	Terminals				
System	(+)		(-)	Value (Approx.)	
System	Combination switch			Value (Approx.)	
	Connector	Terminal			
OUTPUT 1		12			
OUTPUT 2		14	0	(V)	
OUTPUT 3		5	Ground	10	
OUTPUT 4	M28	2		0	
OUTPUT 5		8		2 ms	



Is the measurement normal when any of the switches is turned ON?

YES >> Replace BCM. Refer to BCS-92, "Removal and Installation".

NO >> Replace the combination switch. Refer to EXL-219, "Removal and Installation".

Special Repair Requirement

INFOID:0000000007421648

1. REQUIRED WORK WHEN REPLACING BCM

Initialize control unit. Refer to <u>BCS-3</u>, "<u>ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM)</u>: <u>Work Procedure"</u>.

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>> Work End.

< ECU DIAGNOSIS INFORMATION >

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ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value INFOID:0000000007421649

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status	_ C
FR WIPER HI	Other than front wiper switch HI	OFF	_
FR WIPER III	Front wiper switch HI	ON	D
ED WIDED LOW	Other than front wiper switch LO	OFF	_
FR WIPER LOW	Front wiper switch LO		
FR WASHER SW	Front washer switch OFF	OFF	– E
FR WASHER SW	Front washer switch ON	ON	_
FR WIPER INT	Other than front wiper switch INT	OFF	F
FR WIFER IN	Front wiper switch INT	ON	_
FR WIPER STOP	Front wiper is not in STOP position	OFF	_
FR WIPER STOP	Front wiper is in STOP position	ON	G
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 6	Wiper intermittent dial position	_
TURN SIGNAL R	Other than turn signal switch RH	OFF	Н
TURN SIGNAL R	Turn signal switch RH	ON	_
TURN SIGNAL L	Other than turn signal switch LH	OFF	_
TURN SIGNAL L	Turn signal switch LH	ON	
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	OFF	_
TAIL LAWIP SVV	Lighting switch 1ST or 2ND	ON	
HI BEAM SW	Other than lighting switch HI	OFF	
	Lighting switch HI	ON	_
HEAD LAMP SW 1	Other than lighting switch 2ND	OFF	K
HEAD LAIVIP SVV I	Lighting switch 2ND	ON	_
HEAD LAMP SW 2	Other than lighting switch 2ND	OFF	_
HEAD LAWF SW 2	Lighting switch 2ND	ON	
PASSING SW	Other than lighting switch PASS	OFF	
PASSING SW	Lighting switch PASS	ON	BCS
AUTO LIGHT SW	Other than lighting switch AUTO	OFF	
AUTO LIGHT SW	Lighting switch AUTO	ON	
FR FOG SW	Front fog lamp switch OFF	OFF	- N
FR FOG SW	Front fog lamp switch ON	ON	_
DOOD SW DD	Driver door closed	OFF	0
DOOR SW-DR	Driver door opened	ON	_
DOOR SW-AS	Passenger door closed	OFF	_
DOOK SW-49	Passenger door opened	ON	P
DOOD SW DD	Rear RH door closed	OFF	
DOOR SW-RR	Rear RH door opened	ON	
DOOD SW DI	Rear LH door closed	OFF	
DOOR SW-RL	Rear LH door opened	ON	

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
CDL LOCK SW	Other than power door lock switch LOCK	OFF
CDL LOCK SW	Power door lock switch LOCK	ON
CDL UNLOCK SW	Other than power door lock switch UNLOCK	OFF
CDL UNLOCK SW	Power door lock switch UNLOCK	ON
KEN OM TK OM	Other than driver door key cylinder LOCK position	OFF
KEY CYL LK-SW	Driver door key cylinder LOCK position	ON
VEV CVI LINI CW	Other than driver door key cylinder UNLOCK position	OFF
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	ON
HAZARD SW	When hazard switch is not pressed	OFF
HAZARD SW	When hazard switch is pressed	ON
REAR DEF SW	When rear window defogger switch is pressed	ON
FAN ON SIG	When AUTO switch or fan switch is pressed	ON
AIR COND SW	When A/C switch is pressed	ON
TD CANCEL SW	Trunk lid opener cancel switch OFF	OFF
TR CANCEL SW	Trunk lid opener cancel switch ON	ON
TD/DD ODEN CW	Trunk lid opener switch OFF	OFF
TR/BD OPEN SW	While the trunk lid opener switch is turned ON	ON
TONIC/LIAT MAITO	Trunk lid closed	OFF
TRNK/HAT MNTR	Trunk lid opened	ON
RKE-LOCK	When LOCK button of Intelligent Key is not pressed	OFF
	When LOCK button of Intelligent Key is pressed	ON
RKE-UNLOCK	When UNLOCK button of Intelligent Key is not pressed	OFF
	When UNLOCK button of Intelligent Key is pressed	ON
DVE TD/DD	When TRUNK OPEN button of Intelligent Key is not pressed	OFF
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is pressed	ON
DICE DANIC	When PANIC button of Intelligent Key is not pressed	OFF
RKE-PANIC	When PANIC button of Intelligent Key is pressed	ON
DICE DAM OPEN	When UNLOCK button of Intelligent Key is not pressed and held	OFF
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is pressed and held	ON
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF
RRE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON
OPTICAL SENSOR	When outside of the vehicle is bright	Close to 5 V
OFTICAL SENSOR	When outside of the vehicle is dark	Close to 0 V
REQ SW-DR	When driver door request switch is not pressed	OFF
REQ 3W-DR	When driver door request switch is pressed	ON
REQ SW-AS	When passenger door request switch is not pressed	OFF
REQ SW-AS	When passenger door request switch is pressed	ON
DEO SW DD/TD	When trunk request switch is not pressed	OFF
REQ SW-BD/TR	When trunk request switch is pressed	ON
DUCH CW	When engine switch (push switch) is not pressed	OFF
PUSH SW	When engine switch (push switch) is pressed	ON
ION DIV E'D	Ignition switch OFF or ACC	OFF
IGN RLY -F/B	Ignition switch ON	ON

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	Α
ACC RLY -F/B	Ignition switch OFF	OFF	- A
ACC RLT -F/B	Ignition switch ACC or ON	ON	_
CLUTCH SW	When the clutch pedal is not depressed	OFF	В
CLUTCH 3W	When the clutch pedal is depressed	ON	_
BRAKE SW 1	When the brake pedal is not depressed	ON	_
DRAKE SW I	When the brake pedal is depressed	OFF	С
DETE/CANCL CW	When selector lever is in P position	OFF	_
DETE/CANCL SW	When selector lever is in any position other than P	ON	_ D
OFT DAI/ALOM	When selector lever is in any position other than P or N	OFF	
SFT PN/N SW	When selector lever is in P or N position	ON	=
0.11 . 1 . 0 . 0 . 1	Electronic steering column lock LOCK status	OFF	Е
S/L -LOCK	Electronic steering column lock UNLOCK status	ON	_
0// 1/// 00//	Electronic steering column lock UNLOCK status	OFF	-
S/L -UNLOCK	Electronic steering column lock LOCK status	ON	
	Ignition switch OFF or ACC	OFF	_
S/L RELAY-F/B	Ignition switch ON	ON	G
	Driver door UNLOCK status	OFF	_
UNLK SEN-DR	Driver door LOCK status	ON	_
	When engine switch (push switch) is not pressed	OFF	- H
PUSH SW -IPDM	When engine switch (push switch) is pressed	ON	=
	Ignition switch OFF or ACC	OFF	-
IGN RLY1 F/B	Ignition switch ON	ON	
	When selector lever is in P position	OFF	=
DETE SW -IPDM	When selector lever is in any position other than P	ON	J
	When selector lever is in any position other than P or N	OFF	=
SFT PN -IPDM	When selector lever is in P or N position	ON	- K
	When selector lever is in any position other than P	OFF	
SFT P -MET	When selector lever is in P position	ON	_
	When selector lever is in any position other than N	OFF	L
SFT N -MET	When selector lever is in N position	ON	=
	Engine stopped	STOP	- DC
	While the engine stalls	STALL	BC
ENGINE STATE	At engine cranking	CRANK	
	Engine running	RUN	N
	Electronic steering column lock LOCK status	OFF	_
S/L LOCK-IPDM	Electronic steering column lock UNLOCK status	ON	=
	Electronic steering column lock UNLOCK status	OFF	- 0
S/L UNLCK-IPDM	Electronic steering column lock LOCK status	ON	_
	Ignition switch OFF or ACC	OFF	- P
S/L RELAY-REQ	Ignition switch ON	ON	- '
VEH SPEED 1	While driving	Equivalent to speedometer reading	=
VEH SPEED 2	While driving	Equivalent to speedometer reading	=

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
	Driver door LOCK status	LOCK
DR DOOR STATE	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door UNLOCK status	UNLK
	Passenger door LOCK status	LOCK
AS DOOR STATE	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door UNLOCK status	UNLK
ID OK ELAC	Ignition switch ACC or ON	RESET
ID OK FLAG	Ignition switch OFF	SET
PRMT ENG STAT	When the engine start is prohibited	RESET
PRIVIT ENG STAT	When the engine start is permitted	SET
KEY SW -SLOT	When Intelligent Key is not inserted into key slot	OFF
KEY SW -SLOT	When Intelligent Key is inserted into key slot	ON
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
AIR PRESS FL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID DECCT EL 4	When ID of front LH tire transmitter is registered	DONE
ID REGST FL1	When ID of front LH tire transmitter is not registered	YET
ID REGST FR1	When ID of front RH tire transmitter is registered	DONE
ID REGOT FRI	When ID of front RH tire transmitter is not registered	YET
ID REGST RR1	When ID of rear RH tire transmitter is registered	DONE
ID REGST RRT	When ID of rear RH tire transmitter is not registered	YET
ID REGST RL1	When ID of rear LH tire transmitter is registered	DONE
ID VEGO! KE!	When ID of rear LH tire transmitter is not registered	YET
WARNING LAMP	Tire pressure indicator OFF	OFF
VVARINING LAWIP	Tire pressure indicator ON	ON

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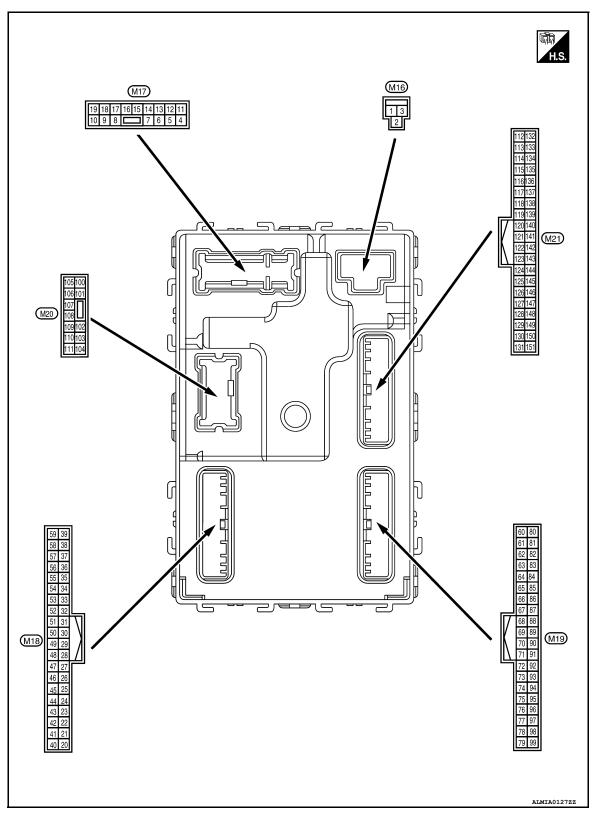
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Terminal Layout



Physical Values

	inal No.	Description				Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OF	F	Battery voltage
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON		Battery voltage
4	Craund	Interior room lamp	Outout	After passing the ir er operation time	nterior room lamp battery sav-	0V
(P/W)	Ground	power supply	Output	Any other time after lamp battery saver	er passing the interior room roperation time	Battery voltage
5	Cround	Front door RH UN-	Output	Front door RH	UNLOCK (actuator is activated)	Battery voltage
(G/Y)	Ground	LOCK	Output	FIOR GOOFKH	Other than UNLOCK (actuator is not activated)	0V
7	Cround	Ston Jama	Output	Ston Jama	ON	OV
(R/W)	Ground	Step lamp	Output	Step lamp	OFF	Battery voltage
8	Cround	All doors LOCK	Output	All doors	LOCK (actuator is activated)	Battery voltage
(V)	Ground	All doors LOCK	Output		Other than LOCK (actuator is not activated)	0V
9	0	Front door LH UN-	Outro		UNLOCK (actuator is activated)	Battery voltage
(G)	Ground	LOCK	Output	Front door LH	Other than UNLOCK (actuator is not activated)	0V
10 ¹	Craund	Rear door RH and rear door LH UN-	Outout	Rear door RH	UNLOCK (actuator is activated)	Battery voltage
(G/Y)	Ground	LOCK	Output	and rear door LH	Other than UNLOCK (actuator is not activated)	0V
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
13 (B)	Ground	Ground	_	Ignition switch ON		0V
					OFF	0V
14 ¹ (O/W)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position (V) 10 0 2 ms

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description	T		0 1111	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
					OFF	0V
14 ⁸ (R/Y)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position (V) 10 0 JSNIA0010GB
15	Ground	ACC indicator lamp	Output	Ignition switch	OFF	Battery voltage
(Y/L)	Ground	ACC indicator famp	Output	igilition switch	ACC	OV
					Turn signal switch OFF	0V
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s
					Turn signal switch OFF	6.5 V
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 1
19		Room lamp timer		Interior room	OFF	Battery voltage
(Y)	Ground	control	Output	lamp	ON	0V
21 (P/B)	Ground	Optical sensor signal	Input	Ignition switch	When outside of the vehi- cle is bright When outside of the vehi-	Close to 5V
. ,					cle is dark	Close to 0V
22 ²	Ground	Clutch interlock	Input	Clutch interlock	OFF (clutch pedal is not depressed)	0V
(R/Y)	2.23.13	switch		switch	ON (clutch pedal is depressed)	Battery voltage
24 (R/W)	Ground	Stop lamp switch 1	Input		_	Battery voltage
26	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (brake pedal is not depressed)	ov
(O/L)		Stop larrip Switch 2	iriput		ON (brake pedal is depressed)	Battery voltage

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
	e color)	Signal name	Input/		Condition	(Approx.)
(+)	(-)		Output			
27 (G/W)	Ground	Front door lock as- sembly LH (unlock sensor)	Input	Front door LH	LOCK status	(V) 15 10 5 0 10 ms JEMIA0011GB 11.8V
					UNLOCK status	0V
29				When Intelligent K	ey is inserted into key slot	Battery voltage
(Y)	Ground	Key slot switch	Input	_	ey is not inserted into key slot	0V
30					OFF	0
(V/Y)	Ground	ACC feedback signal	Input	Ignition switch	ACC or ON	Battery voltage
31		Rear window defog-		Rear window de-	OFF	0V
(G)	Ground	ger feedback signal	Input	fogger switch	ON	Battery voltage
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	OFF (when front door RH closes)	(V) 15 10 5 0 10 ms 10 ms 11.8 V
33		Compressor ON sig-			ON (when front door RH opens) OFF	0V 9V - 12V
(SB)	Ground	nal	Input	A/C switch	ON	0V
3		Front door lock as-		Front door lock	OFF (neutral)	Battery voltage
34 ³ (L/R)	Ground	sembly LH (key cylinder switch) (unlock)	Input	assembly LH (key cylinder switch)	ON (unlock)	ov
36 ³	Ground	Lock switch signal	Input	Door lock/unlock	Lock	Battery voltage
(GR)	Ground	LOCK SWITCH SIGNAL	IIIput	switch	Unlock	0V
37 (O)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1V
					ON	0V
38		Pear window defea		Dear window do	OFF	Battery voltage
(GR/ W)	Ground	Rear window defog- ger ON signal	Input	Rear window de- fogger switch	ON	0V
39 ³		Halada - 905	le e f	Door lock/unlock	Unlock	Battery voltage
(GR/ R)	Ground	Unlock switch signal	Input	switch	Lock	ov

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description			One distan	Value	A
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	,
40 ⁴ (Y/G)	Ground	Power window serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms 10 ms	E
				Ignition switch OF	F or ACC	10.2V	
41		Engine switch (push		Engine switch	ON	5.5V	Е
(W)	Ground	switch) illumination	Output	(push switch) illu- mination	OFF	0V	
42	Ground	LOCK indicator lamp	Output	LOCK indicator	ON	OV	F
(R)	0.000	-	Catpat	lamp	OFF	Battery voltage	- 1
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON		0V	
46	Ground	Receiver & sensor	Output	Ignition switch	OFF	0V	(
(V/W)		power supply output		J	ACC or ON	5.0V	
47	Ground	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 *** 0.2s	ŀ
(G/O)		er signal	Output	ON	When receiving the signal from the transmitter	(V) 6 4 2 0 ••• 0.2s	k L
48	Ground	Selector lever P/N	Innut	Selector lever	P or N position	12.0V	B
(R/G)	Ground	position signal	Input	Delector level	Except P and N positions	0V	4
					ON	0V	1
49 (L/O)	Ground	Security indicator signal	Output	Security indicator	Blinking	(V) 15 10 5 0 1 s JPMIA0014GB	F
					OFF	11.3V	
					OFF	Battery voltage	

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
	.,				All switch OFF	0V
					Lighting switch 1ST	40
50			Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch high-beam	(V) 15
(LG/	Ground	Combination switch OUTPUT 5			Lighting switch 2ND	10
B)					Turn signal switch RH	2 ms
						10.7V
					All switch OFF (Wiper intermittent dial 4)	0V
					Front wiper switch HI	
					(Wiper intermittent dial 4)	(V) 15
51 (L/W)	Ground	Combination switch OUTPUT 1	Input	Combination switch	Any of the conditions below with all switch OFF	10
					Wiper intermittent dial 1Wiper intermittent dial 2	
					Wiper intermittent dial 3	2 ms
					Wiper intermittent dial 6Wiper intermittent dial 7	10.7V
					All switch OFF (Wiper intermittent dial 4)	0V
					Front washer switch ON	
5 0	Ground	Combination switch OUTPUT 2	Input	Combination	(Wiper intermittent dial 4)	(V) 15
52 (G/B)				switch	Any of the conditions below	10
					with all switch OFFWiper intermittent dial 1	—
					Wiper intermittent dial 5Wiper intermittent dial 6	2 ms
					'	10.7V
					All switch OFF	0V
					Front wiper switch INT Front wiper switch LO	(V)
53		Combination switch		Combination switch	FIGHT WIPEL SWITCH LO	15
(LG/ R)	Ground	OUTPUT 3	Input	(Wiper intermit-		0
				tent dial 4)	Lighting switch AUTO	2 ms
						JPMIA0034GB
					All switch OFF	10.7V
					Front fog lamp switch ON	
				Combination	Lighting switch 2ND	(V)
54	Ground	Combination switch	Input	switch	Lighting switch flash-to-	10
(G/Y)		OUTPUT 4	mput	(Wiper intermit- tent dial 4)	pass	0
					Turn signal switch LH	2 ms
					, J	јрміа0035gb 10.7V
55	_		_	Front blower mo-	ON	Battery voltage
(BR/ W)	Ground	Front blower monitor	Input	tor switch	OFF	0V

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description			• ""	Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
56 ³	Cround	Front door lock as-	Innut	Front door lock	OFF (neutral)	Battery voltage
(L/B)	Ground	sembly LH (key cylin- der switch) (lock)	Input	assembly LH (key cylinder switch)	ON (lock)	0V
57 (W)	Ground	Tire pressure warning check switch	Input		_	Battery voltage
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE)	(V) 15 10 10 10 ms JPMIA0011GB
					ON (front door LH OPEN)	11.8V
59	0	Rear window defog-	0 1: 1	Rear window de-	Active	Battery voltage
(G/R)	Ground	ger relay	Output	fogger	Not activated	0V
60 (B/R)		Front console antenna 2 (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 10 1 s JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s
					When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
61 (W/R)	Ground	Center console antenna 2 (+)	Output	Ignition switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description			Condition	Value	
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	
62		Front outside handle RH antenna (-)	Output	When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(B/Y)	Ground			switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
63	Ground	Front outside handle RH antenna (+)	Output	When the front door RH request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0062GB	
(LG)	Clound				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
64	Ground	Front outside handle LH antenna (-)		When the front door LH request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
(V)			Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	

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	inal No.	Description				Value
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
65	Ground	Front outside handle	Output	When the front door LH request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 S MKIA0062GB
(P)		LH antenna (+)			When Intelligent Key is not in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0063GB
68 (G/O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
69 (O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
70 (R/B)	Ground	Ignition relay-2 control	Output	Ignition switch	OFF or ACC	0V Battery voltage
71	Ground	Remote keyless entry receiver signal	Input/ Output	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB
(L/O)	Ground			When operating e	ither button on Intelligent Key	(V) 15 10 5 0 1 ms JMKIA0065GB

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< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
75 (R/Y)	Ground	Combination switch INPUT 5	Output	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V
					Any of the conditions below with all switch OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 6 Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3V

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V
76 (R/G) Gi	Ground	Combination switch INPUT 3	Output	Combination switch	Lighting switch high-beam (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V
	Cidana				Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3V
77 (BR)	Ground	Engine switch (push switch)	Input	Engine switch (push switch)	Pressed	0V
78 (P)	Ground	CAN-L	Input/ Output	(paon emion)	Not pressed	Battery voltage —
79 (L)	Ground	CAN-H	Input/ Output		_	_
					OFF	0V
80 (R/L)	Ground	Key slot illumination	Output	Key slot illumination	Blinking	(V) 15 10 1 1 1 1 1 1 1 1 1 1
						6.5V
	1				ON	Battery voltage

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Val.
(Wire	e color) (-)	Signal name	Input/ Output		Condition	Value (Approx.)
81	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC	Battery voltage
(LG)	Giodila	ON Indicator famp	Output	ignition switch	ON	OV
83	Ground	ACC relay-1 control	Output	Ignition switch	OFF	0V
(L)				3 11 1	ACC or ON	Battery voltage
84 ⁵ (Y/R)	Ground	CVT shift selector	Output		_	Battery voltage
85	Ground	Electronic steering column lock condition	Input	Electronic steer-	Lock status	0V
(L/O)	Oround	No. 1	IIIput	ing column lock	Unlock status	Battery voltage
86	Ground	Electronic steering column lock condition	Innut	Electronic steer-	Lock status	Battery voltage
(G/R)	Ground	No. 2	Input	ing column lock	Unlock status	OV
87 ⁵	Ground	Selector lever P posi-	Input	Selector lever	P position	0V
(G/B)	Ground	tion switch	IIIput	Selector level	Any position other than P	Battery voltage
		Front door RH request switch		Front door RH request switch	ON (pressed)	0V
88 (P/L)	Ground		Input		OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0V
					ON (pressed)	OV
89 (B/W)	Ground	Front door LH request switch	Input	Front door LH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms 10 ms JPMIA0016GB
90 (Y)	Ground	Blower fan motor re- lay control	Output	Ignition switch	OFF or ACC ON	0V Battery voltage
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	F	Battery voltage
94	Ground	Electronic steering	Outout	Ignition switch	OFF or ACC	Battery voltage
(G/Y) Grou	Giound	column lock power supply	Output	Ignition switch	ON	OV

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	Α
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	
					All switch OFF	(V) 15 10 5 0 JPMIA0041GB 1.4V	B C
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB	E F
95 (R/W)	Ground	Combination switch INPUT 1	Output	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V	G H
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V	J K L
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3V	BC N

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description	ı			Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
96	Ground	Combination switch	Output	Combination	Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 JPMIA0038GB 1.3V
(P/B)	Godina	INPUT 4	Calpat	switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	(V) 15 10 5 2 ms JPMIA0039GB 1.3V

< ECU DIAGNOSIS INFORMATION >

Term	inal No.	Description				Value	Λ
(Wire (+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V	B C D
					Lighting switch flash-to- pass	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V	E F
97 (R/B)	Ground	Combination switch INPUT 2	Output	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 10 m m	Н
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V	J K L
					Front wiper switch HI	(V) 15 10 5 0 2 ms JFMIA0040GB	BCS N
					Pressed	0 V	0
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0012GB	Ρ

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description		Condition		Value	
(+)	(-)	Signal name	Input/ Output			(Approx.)	
					LOCK status	Battery voltage	
99 (L/Y)	Ground	Electronic steering column lock unit communication	Input/ Output	Electronic steer- ing column lock	LOCK or UNLOCK	(V) 15 10 50 50 ms JMKIA0066GB	
					For 15 seconds after UN- LOCK	Battery voltage	
					15 seconds or later after UNLOCK	0V	
103	Ground	Trunk lid opening	Output	Trunk lid	Open (trunk lid opener actuator is activated)	Battery voltage	
(V)	Giodila	Trunk ild Operiilig	Output	TIGHK HG	Close (trunk lid opener actuator is not activated)	0V	
110	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0V	
(V/W)	Cround	Trank room lamp	Оигриг	Trank room lamp	OFF	Battery voltage	
114	Ground	Trunk room antenna	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 S S S S S S S S S	
(B)	Ground	Ground 1 (-) Outp	Suput	ŎFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0063GB	

< ECU DIAGNOSIS INFORMATION >

	ninal No. re color)	Description			0	Value		
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)		
115	Constitution	Trunk room antenna	Out	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0062GB		
(W)	Ground	1 (+)	Output	Output OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB		
118	Committee	Rear bumper anten-	Outside	When the trunk lid request switch	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB		
(L/O)	Ground	na (-)	Output is operated with ignition switch OFF	ignition switch	ignition switch OFF W in	is operated with ignition switch	When Intelligent Key is not in the antenna detection area	(V) 15 10 1
119	Constitution	Rear bumper anten-	Out	When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 1 1 1 1 1 1 1 1 1 1		
(BR/ W)	Ground	na (+)	Output	is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 MKIA0063GB		

< ECU DIAGNOSIS INFORMATION >

Term	Terminal No. Description						
	e color)		Input/		Condition	Value	
(+)	(-)	Signal name	Output			(Approx.)	
127		Ignition relay (IPDM			OFF or ACC	Battery voltage	
(BR/ W)	Ground	E/R) control	Output	Ignition switch	ON	0V	
130 (Y/G)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (trunk is closed) ON (trunk is open)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V	
-						OV	
				Ignition switch OFF (M/T vehi-	When the clutch pedal is depressed	Battery voltage	
			cle)	When the clutch pedal is not depressed	0V		
132 (R)	Ground	Starter motor relay control	Output	Ignition switch ON (other than M/ T vehicle)	When selector lever is in P or N position and the brake is depressed	Battery voltage	
					When selector lever is in P or N position and the brake is not depressed	0V	
-					ON (pressed)	0V	
141 (G/R)	Ground	Trunk request switch	Input	Trunk request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0V	
144	Ground	Request switch buzz-	Output	Request switch	Sounding	0V	
(GR)	Giodila	er	Output	buzzer	Not sounding	Battery voltage	
147	Ground	Trunk lid opener	Input	Trunk lid opener	Pressed	0V	
(L/R)	3.34.14	switch	put	switch	Not pressed	Battery voltage	
148 ¹ (R/W)	Ground	Rear door RH 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	

< ECU DIAGNOSIS INFORMATION >

[BCM]

Terminal No. (Wire color)		Description				Value	
		Signal name Input/			Condition	(Approx.)	
(+)	(-)		Output				
149 ¹ (R/B)	Ground	Rear door LH switch	Input	Rear door LH switch	OFF (when rear door LH closes) ON (when rear door LH	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V	

- 1: Sedan only
- 2: M/T only
- 3: With LH front window anti-pinch
- 4: With LH and RH front window anti-pinch.
- 5: CVT only
- 6: With auto lights
- 7: With low tire pressure warning system
- 8: Coupe only

Fail Safe INFOID:0000000007421652

Display contents of CONSULT	Fail-safe	Cancellation	
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC	
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC	
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC	
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC	
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC	
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC	
B2195: ANTI-SCANNING	Inhibit engine cranking	Erase DTC	
B2557: VEHICLE SPEED	Inhibit electronic steering column lock	When normal vehicle speed signals have been received from ABS actuator and electric unit (control unit) for 500 ms	
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	В
B2562: LO VOLTAGE	Inhibit engine cranking Inhibit electronic steering column lock	100 ms after the power supply voltage increases to more than 8.8 V	
B2601: SHIFT POSITION	Inhibit electronic steering column lock	 500 ms after the following signal reception status becomes consistent Selector lever P position switch signal P range signal (CAN) 	
B2602: SHIFT POSITION	Inhibit electronic steering column lock	 5 seconds after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Vehicle speed: 4 /h or more 	

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Display contents of CONSULT	Fail-safe	Cancellation
B2603: SHIFT POSI STATUS	Inhibit electronic steering column lock	 500 ms after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Selector lever P/N position signal: Except P and N positions (0 V)
B2604: PNP SW	Inhibit electronic steering column lock	500 ms after any of the following BCM recognition conditions is ful- filled • Status 1 - Ignition switch is in the ON position - Selector lever P/N position signal: P and N position (battery voltage) - P range signal or N range signal (CAN): ON • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: Except P and N positions (0 V) - P range signal and N range signal (CAN): OFF
B2605: PNP SW	Inhibit electronic steering column lock	500 ms after any of the following BCM recognition conditions is fulfilled • Ignition switch is in the ON position - Power position: IGN - Selector lever P/N position signal: Except P and N positions (0 V) - Interlock/transmission switch signal (CAN): OFF • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: P or N position (battery voltage) - transmission switch signal (CAN): ON
B2606: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Electronic steering column lock relay signal (Request signal) • Electronic steering column lock relay signal (Condition signal)
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Electronic steering column lock relay signal (Request signal) • Electronic steering column lock relay signal (Condition signal)
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)
B2609: S/L STATUS	Inhibit engine cranking Inhibit electronic steering column lock	When the following electronic steering column lock conditions agree BCM electronic steering column lock control status Electronic steering column lock condition No. 1 signal status Electronic steering column lock condition No. 2 signal status
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)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B2612: S/L STATUS	Inhibit engine cranking Inhibit electronic steering column lock	When any of the following conditions is fulfilled Electronic steering column lock unit status signal (CAN) is received normally The BCM electronic steering column lock control status matches the electronic steering column lock status recognized by the electronic steering column lock unit status signal (CAN from IPDM E/R)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal

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Display contents of CONSULT	Fail-safe	Cancellation
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B2619: BCM	Inhibit engine cranking	1 second after the electronic steering column lock unit power sup- ply output control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E1: ENG STATE NO RECIV	Inhibit engine cranking	When any of the following conditions is fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B26E8: CLUTCH SW	Inhibit engine cranking	When any of the following BCM recognition conditions are fulfilled Status 1 Clutch switch signal (CAN from ECM): ON Clutch interlock switch signal: OFF (0 V) Status 2 Clutch switch signal (CAN from ECM): OFF Clutch interlock switch signal: OFF (Battery voltage)
B26E9: S/L STATUS	Inhibit engine cranking Inhibit electronic steering column lock	When BCM transmits the LOCK request signal to the steering lock unit and receives LOCK response signal from steering lock unit, the following conditions are fulfilled • Steering condition No 1 signal: LOCK (0V) • Steering condition No 2 signal: LOCK (Battery voltage)

DTC Inspection Priority Chart

INFOID:0000000007421653

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	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING

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Priority	DTC	
4	B2013: ID DISCORD BCM-S/L B2014: CHAIN OF S/L-BCM B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSITION B2603: SHIFT POSITION B2604: PNP SW B2605: PNP SW B2606: S/L RELAY B2607: S/L RELAY B2607: S/L RELAY B2608: STARTER RELAY B2608: STARTER RELAY B2608: STASTER RELAY B2600: STEERING LOCK UNIT B2600: STEERING LOCK UNIT B2600: STEERING LOCK UNIT B2600: STEERING LOCK UNIT B2601: ACC RELAY B2611: ACC RELAY B2612: S/L STATUS B2614: ACC RELAY CIRC B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC B2618: BCM B2619: BCM B2619: BCM B2619: BCM B2619: SCM B2619: S/L STATUS B2661: VEHICLE TYPE B2661: CHYCH SW B26628: CLUTCH SW B26628: CLUTCH SW B26628: CLUTCH SPEED SIG ERR U0415: VEHICLE SPEED SIG ERR	
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] RR C1711: [NO DATA] RR C1712: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1719: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1719: [CODE ERR] FR C1720: [CODE ERR] FR C1721: [CODE ERR] RR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FL C1726: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RL C1727: [BATT VOLT LOW] RL C1734: CONTROL UNIT 	
6	B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA	

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DTC Index

NOTE:

Details of time display

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

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	BCS-32
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-33
U0415: VEHICLE SPEED SIG	_	_	_	BCS-34
B2013: ID DISCORD BCM-S/L	×	_	_	SEC-36 (Coupe), SEC-250 (Sedan)
B2014: CHAIN OF S/L-BCM	×	_	_	SEC-37 (Coupe), SEC-251 (Sedan)
B2190: NATS ANTENNA AMP	×	_	_	SEC-65 (Coupe), SEC-281 (Sedan)
B2191: DIFFERENCE OF KEY	×	_	_	SEC-69 (Coupe), SEC-285 (Sedan)
B2192: ID DISCORD BCM-ECM	×	_	_	SEC-70 (Coupe), SEC-286 (Sedan)
B2193: CHAIN OF BCM-ECM	×	_	_	SEC-71 (Coupe), SEC-287 (Sedan)
B2195: ANTI-SCANNING	_	_	_	<u>SEC-72</u>
B2553: IGNITION RELAY	_	_	_	PCS-59
B2555: STOP LAMP	_	_	_	SEC-73 (Coupe), SEC-289 (Sedan)
B2556: PUSH-BTN IGN SW	_	×	_	SEC-78 (Coupe), SEC-294 (Sedan)
B2557: VEHICLE SPEED	×	×	_	SEC-80 (Coupe), SEC-296 (Sedan)
B2560: STARTER CONT RELAY	×	×	_	SEC-81 (Coupe), SEC-297 (Sedan)
B2562: LOW VOLTAGE	_	_	_	BCS-35
B2601: SHIFT POSITION	×	×	_	SEC-82 (Coupe), SEC-298 (Sedan)
B2602: SHIFT POSITION	×	×	_	SEC-86 (Coupe), SEC-302 (Sedan)
B2603: SHIFT POSI STATUS	×	×	_	SEC-89 (Coupe), SEC-305 (Sedan)
B2604: PNP SW	×	×	_	SEC-92 (Coupe), SEC-308 (Sedan)
B2605: PNP SW	×	×	_	SEC-94 (Coupe), SEC-310 (Sedan)
B2606: S/L RELAY	×	×	_	SEC-96 (Coupe), SEC-312 (Sedan)

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CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2607: S/L RELAY	×	×	_	SEC-97 (Coupe), SEC-313 (Sedan)
B2608: STARTER RELAY	×	×	_	SEC-99 (Coupe), SEC-315 (Sedan)
B2609: S/L STATUS	×	×	_	SEC-101 (Coupe), SEC-317 (Sedan)
B260A: IGNITION RELAY	×	×	_	PCS-61
B260B: STEERING LOCK UNIT	_	×	_	SEC-106 (Coupe) SEC-322 (Sedan)
B260C: STEERING LOCK UNIT	_	×	_	SEC-107 (Coupe) SEC-323 (Sedan)
B260D: STEERING LOCK UNIT	_	×	_	SEC-108 (Coupe) SEC-324 (Sedan)
B260F: ENG STATE SIG LOST	×	×	_	SEC-109 (Coupe) SEC-325 (Sedan)
B2611: ACC RELAY	_	_		PCS-62
B2612: S/L STATUS	×	×	_	<u>SEC-110</u> (Coupe), <u>SEC-331</u> (Sedan)
B2614: ACC RELAY CIRC	_	×	_	PCS-64
B2615: BLOWER RELAY CIRC	_	×	_	PCS-67
B2616: IGN RELAY CIRC	_	×	_	PCS-70
B2617: STARTER RELAY CIRC	×	×	_	SEC-115 (Coupe) SEC-336 (Sedan)
B2618: BCM	×	×	_	PCS-73
B2619: BCM	×	×	_	SEC-117 (Coupe) SEC-338 (Sedan)
B261A: PUSH-BTN IGN SW	_	×	_	SEC-118 (Coupe) SEC-339 (Sedan)
B261E: VEHICLE TYPE	×	× (Turn ON for 15 seconds)	_	SEC-121
B2622: INSIDE ANTENNA	_	_	_	DLK-282
B2623: INSIDE ANTENNA	_	_	_	DLK-285
B26E1: ENG STATE NO RES	×	×	_	SEC-326
B26E8: CLUTCH SW	×	×	_	SEC-123
B26E9: S/L STATUS	×	× (Turn ON for 15 seconds)	_	<u>SEC-125</u>
B26EA: KEY REGISTRATION	×	× (Turn ON for 15 seconds)	_	<u>SEC-126</u>
C1704: LOW PRESSURE FL	_	_	×	<u>WT-8</u>
C1705: LOW PRESSURE FR	_	_	×	<u>WT-8</u>
C1706: LOW PRESSURE RR	_	_	×	<u>WT-8</u>
C1707: LOW PRESSURE RL	_	_	×	<u>WT-8</u>
C1708: [NO DATA] FL	_	_	×	<u>WT-13</u>
C1709: [NO DATA] FR	_	_	×	<u>WT-13</u>
C1710: [NO DATA] RR	_	_	×	<u>WT-13</u>
C1711: [NO DATA] RL	_	_	×	<u>WT-13</u>
C1712: [CHECKSUM ERR] FL	_	_	×	<u>WT-15</u>

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CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1713: [CHECKSUM ERR] FR	_	_	×	<u>WT-15</u>
C1714: [CHECKSUM ERR] RR	_	_	×	<u>WT-15</u>
C1715: [CHECKSUM ERR] RL	_	_	×	<u>WT-15</u>
C1716: [PRESSDATA ERR] FL	_	_	×	<u>WT-17</u>
C1717: [PRESSDATA ERR] FR	_	_	×	<u>WT-17</u>
C1718: [PRESSDATA ERR] RR	_	_	×	<u>WT-17</u>
C1719: [PRESSDATA ERR] RL	_	_	×	<u>WT-17</u>
C1720: [CODE ERR] FL	_	_	×	<u>WT-15</u>
C1721: [CODE ERR] FR	_	_	×	<u>WT-15</u>
C1722: [CODE ERR] RR	_	_	×	<u>WT-15</u>
C1723: [CODE ERR] RL	_	_	×	<u>WT-15</u>
C1724: [BATT VOLT LOW] FL	_	_	×	<u>WT-15</u>
C1725: [BATT VOLT LOW] FR	_	_	×	<u>WT-15</u>
C1726: [BATT VOLT LOW] RR	_	_	×	<u>WT-15</u>
C1727: [BATT VOLT LOW] RL	_	_	×	<u>WT-15</u>
C1729: VHCL SPEED SIG ERR	_	_	×	<u>WT-18</u>
C1734: CONTROL UNIT	_	_	×	<u>WT-19</u>

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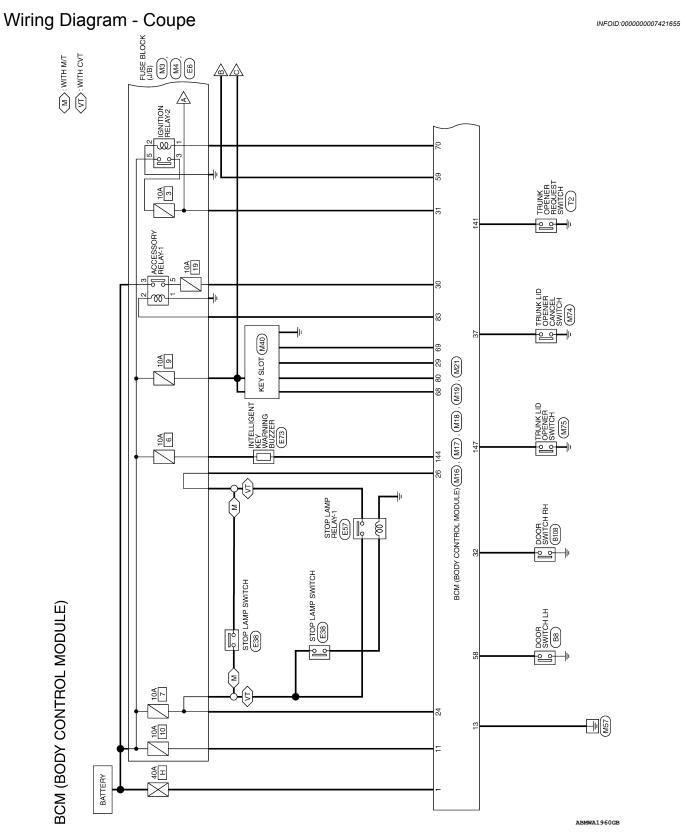
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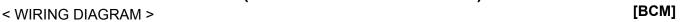
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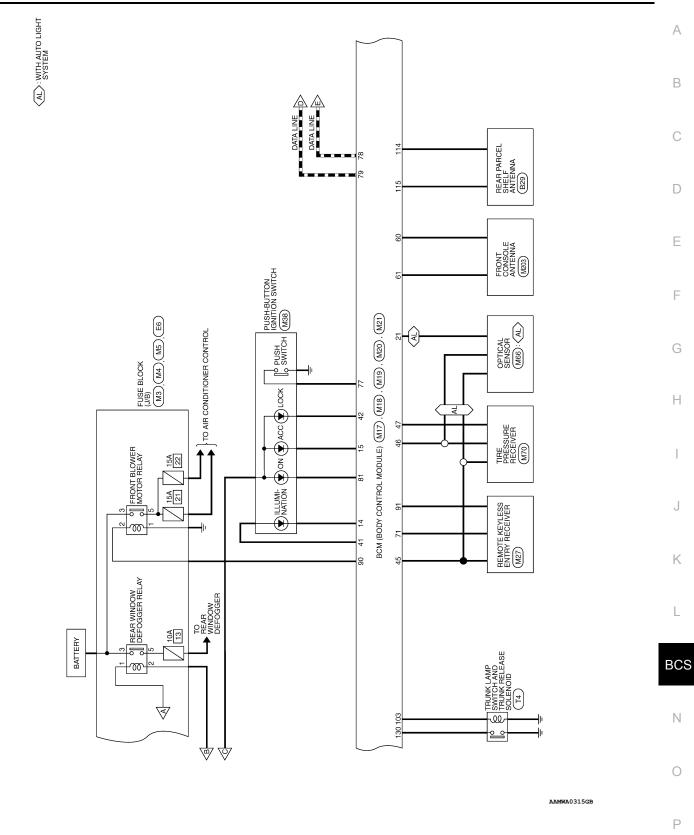
[BCM]

WIRING DIAGRAM

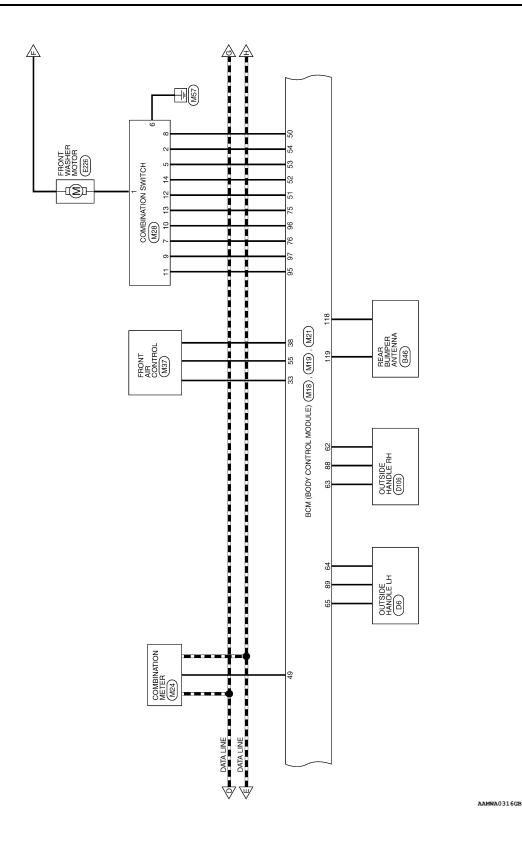
BCM (BODY CONTROL MODULE)

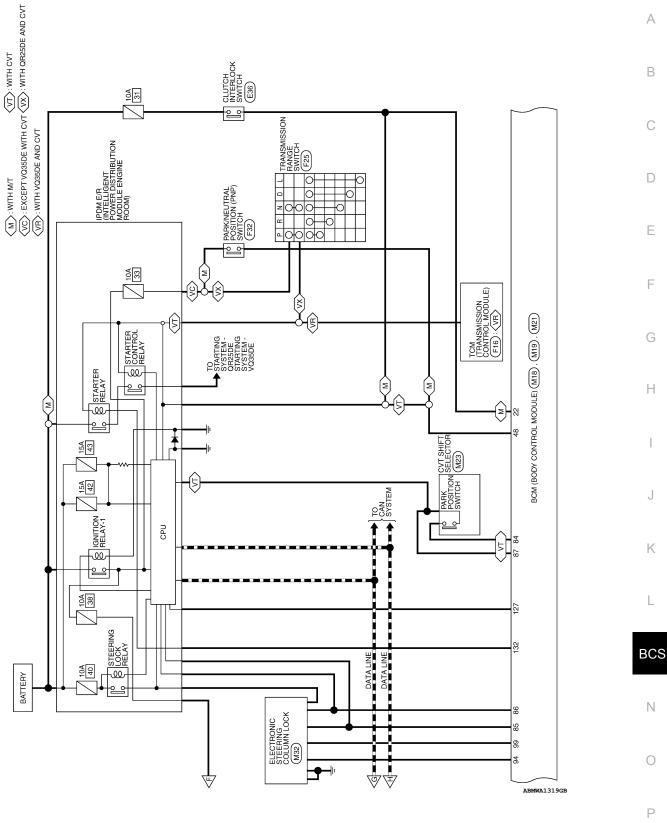






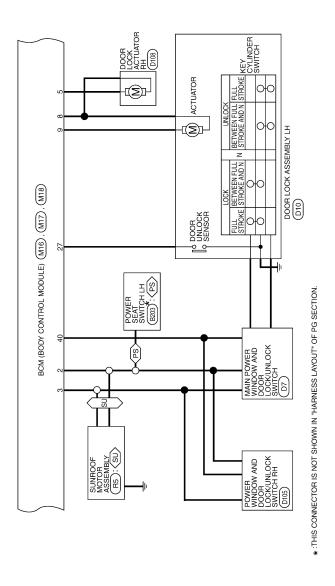
Revision: February 2013 BCS-71 2012 Altima GCC



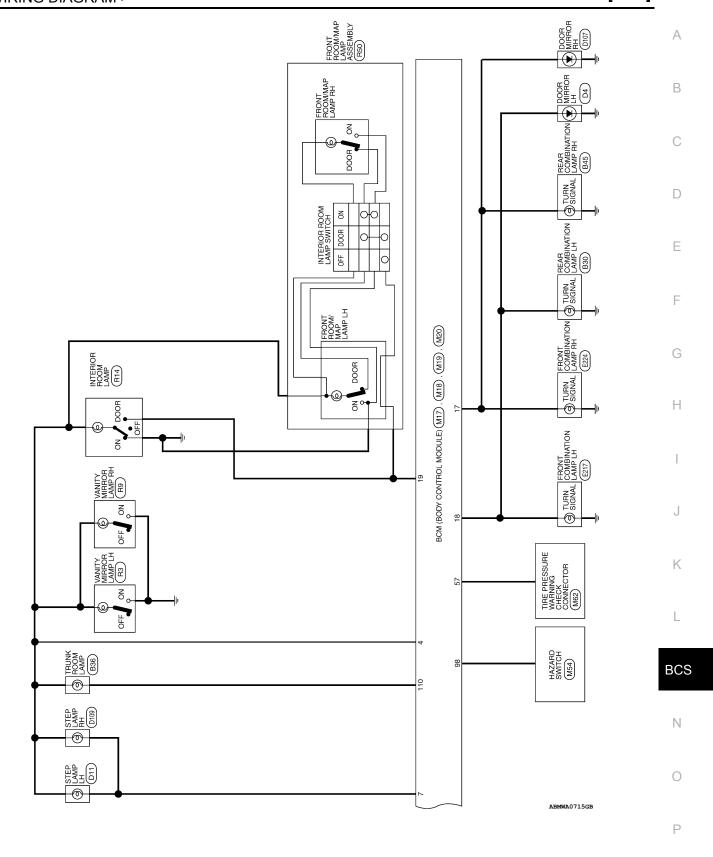


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⟨PS⟩: WITH POWER SEATS
⟨SU⟩: WITH SUNROOF



AAMWA0318GB



ROOM_LAMP_OUTPUT

>

STEP_LAMP_OUTPUT

B/W

ROOM_LAMP_BAT SAVER

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CDL_AS

ďΥ

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Signal Name

Color of Wire

Terminal No.

FL_FLASHER

G/Υ

FR_FLASHER

G/B

LOW_SIDE_PUSH

GND1

В

LED_OUTPUT

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4 15 16 17 18 19

ACC_LED

BAT_BCM_FUSE

Υ/R

10 Ξ 12 5

CDL_COMMON

CDL_DR/FL

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Signal Name

Terminal No. Wire

BCM (BODY CONTROL MODULE) CONNECTORS

Connector No.	M16
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color BLACK	BLACK

Connector Name BCM (BODY CONTROL MODULE)

Connector No.

Connector Color WHITE

Connector No.	M16
Connector Name	Connector Name BCM (BODY CONTRC MODULE)
Connector Color BLACK	BLACK



Signal Name	BAT_POWER_F	P/W_POWER_SUF PERM	POWER_WINDO POWER_SUPPLY (
Color of Wire	M/B	R/Y	N/
Ferminal No. Wire	-	5	3



Terminal No.																
	Signal Name	GND_RF2_A/L	A/L_SENS_KEYLESS_ TUNER_POWER_ SUPPLY	KEYLESS_TUNER_SI	SHIFT_N/P	IMMO_LED	INPUT_5	INPUT_1	INPUT_2		INPUT_4	BLOWER_FAN_SW	I	TPMS_MODE_ TRIGGER_SW	DR_DOOR_SW	REAR_DEFOGGER_ RLY
	Color of Wire	۵	W/N	G/O	B/G	9	LG/B	M	G/B	LG/R	ĞΛ	BR/W	ı	>	SB	G/R
		45	46	47	48	49	50	51	52	53	54	55	56	22	58	59

Signal Name	DOOR_LOCK_STATUS	1	FOB_IN_SW_1	ACC_F/B	IGN_F/B	AS_DOOR_SW	AIRCON_SW	_	ı	_	TRUNK_CANCEL_SW	REAR_DEFOGGER_SW	-	PW_K-LINE	PUSH_LED	S/L_LOCK_LED	-	I
Color of Wire	G/W	ı	>	λ/\	ნ	R/B	SB	ı	1	-	0	GR/W	-	Y/G	Μ	Я	1	ı
Terminal No.	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44

Connector No.	M18
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color GREEN	GREEN
<u>ا</u> آ	

Г	_	_
	20	40
	7	41
	ន	42
	83	45 44 43 42
	24	44
	25	45
	56	46 4
	27	47
117	28	48 47
IV.	ಣ	49
- 11	90	20
	2	2
	32	53 52
	33	53
	34	54
	35	55
	98	99
, di	37	57
Z 4	88	28
医一日	33	29

Signal Name	1	AUTO_LIGHT_SENSOR _INPUT1	CLUTCH_SW	-	STOP_LAMP_LOW_SW	ı	STOP_LAMP_HIGH_SW
Color of Wire	1	P/B	R/Υ	ı	R/W	ı	O/L
Terminal No.	20	21	22	53	54	25	26

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Color of Wire L L Y/R
0/1
G/R
G/B
P/L
B/W
>
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-
1
G/Y
B/W
P/B
B/B
9/0
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Signal Name	_	l	FOB_READER_CLOCK	FOB_READER_DATA	IGN_ELEC_CONT	RF1_TUNER_SIGNAL	-	_	I	OUTPUT_5	OUTPUT_3	ENG_START_SW	CAN-L	CAN-H	FOB_SLOT_ ILLUMINATION	IGN_ON_LED	
Color of Wire	_	1	G/O	0	B/B	0/7	-	1	ı	R/Y	R/G	BR	Ь	Γ	R/L	LG	
Terminal No. Wire	99	29	89	69	70	71	72	73	74	75	9/	77	78	79	80	81	

	BCM (BODY CONTROL MODULE)	BLACK		71 70 69 68 67 66 65 64 63 62 61 60 91 90 89 88 87 86 85 84 83 82 81 80	Signal Name	ROOM_ANT_2_B	ROOM_ANT_2_A	AS_DOOR_ANT_B	AS_DOOR_ANT_A	DR_DOOR_ANT_B	DR_DOOR_ANT_A
. M19				74 73 72 7	Color of Wire	B/R	W/R	B∕	2	>	۵
Connector No.	Connector Name	Connector Color	是 H.S.	79 78 77 76 75 99 98 97 96 95	Terminal No.	09	61	62	63	64	65

Signal Name	1	1	-	CDL_BACK_TRUNK	ı	=	_	1	1	-	TRUNK_LAMP_OUTPUT	-
Color of Wire	ı	ı	ı	>	ı	ı	ı	ı	ı	ı	W//	1
Terminal No. Wire	100	101	102	103	104	105	106	107	108	109	110	111

ector No.	M20
ector Name	ector Name BCM (BODY CONTROL MODULE)
ector Color WHITE	WHITE
	100 101 102 103 104





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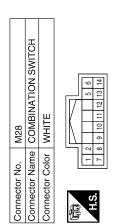
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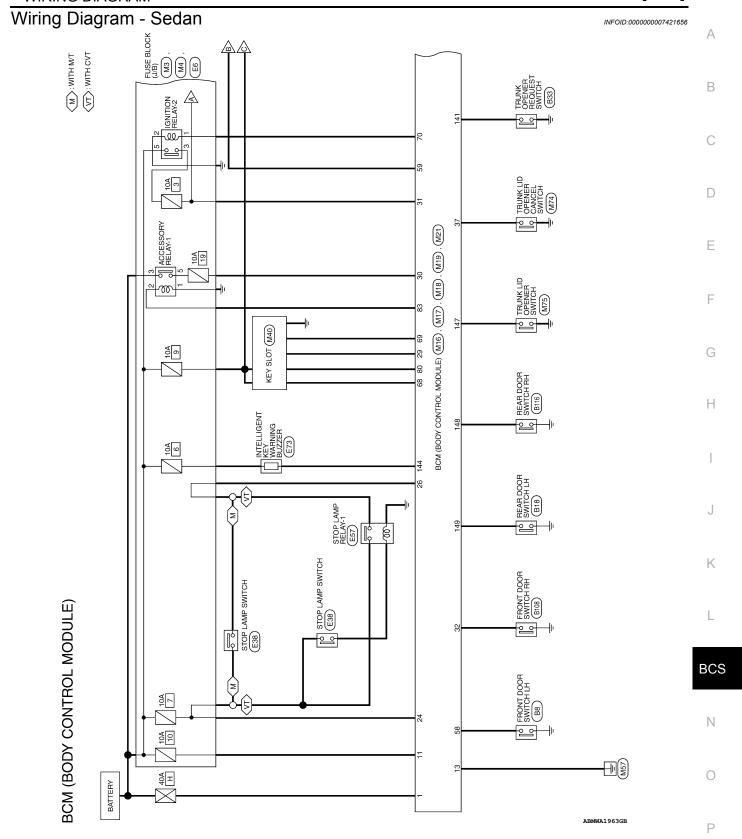
Signal Name	WASH MTR	OUTPUT_4	OUTPUT_3	GND	INPUT_3	OUTPUT_5	INPUT_2	INPUT_4	INPUT_1	OUTPUT_1	INPUT_5	OUTPUT_2
Color of Wire	R/L	G/Y	LG/R	В	R/G	LG/B	B/B	B/B	R/W	Γ/M	R/Y	G/B
Terminal No.	-	2	5	9	7	8	6	10	1	12	13	14

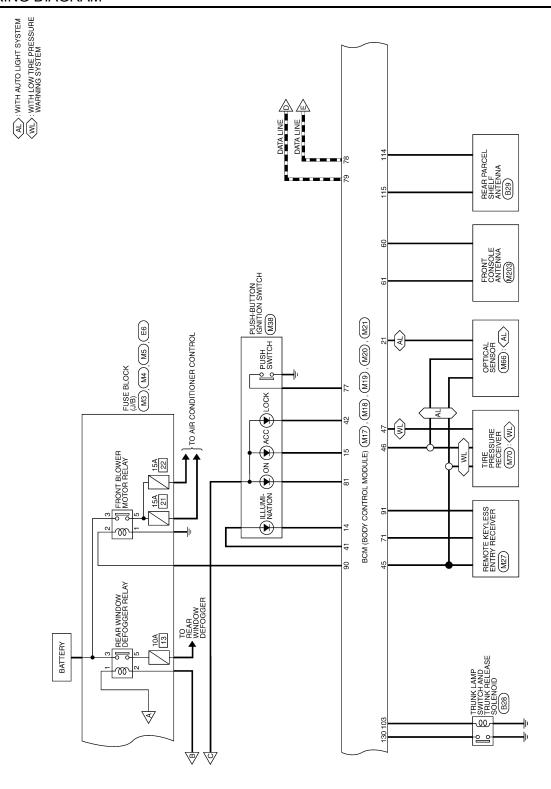
Signal Name	BACK_DOOR_ANT_A	ı	ı	ı	1	ı	1	1	IGN_USM_CONT1	ı	1	TRUNK_SW	1	ST_CONT_USM	ı	ı	ı	ı	ı	1	ı	ı	TRUNK_REQUEST_SW	ı	ı	BUZZER	I	1	BACK_TRUNK_ OPENER	ı	1	_	ı
Color of Wire	BR/W	ı	ı	ı	ı	ı	1	1	BR/W	ı	1	Y/G	1	ш	-	1	_	_	1	ı	ı	ı	G/R	1	1	GR	_	-	L/R	1	_	_	_
Terminal No.	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151

Connector No.	M21
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color GRAY	GRAY
是 H.S.	
131 130 129 128 127 126 129	126 125 124 123 122 121 120 119 118 117 116 115 114 113 112
151 150 149 148 147 146 14	150 149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132

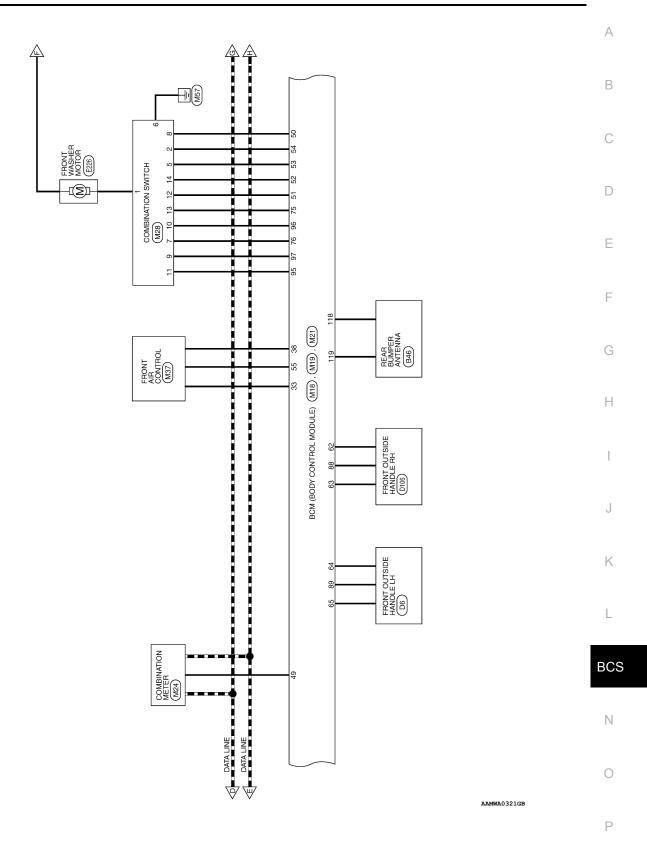
Signal Name	1	ı	TRUNK_ANT_1_B	TRUNK_ANT_1_A	ı	1	BACK_DOOR_ANT_B	
Color of Wire	ı	1	В	×	1	1	0/1	
Terminal No. Wire	112	113	114	115	116	117	118	

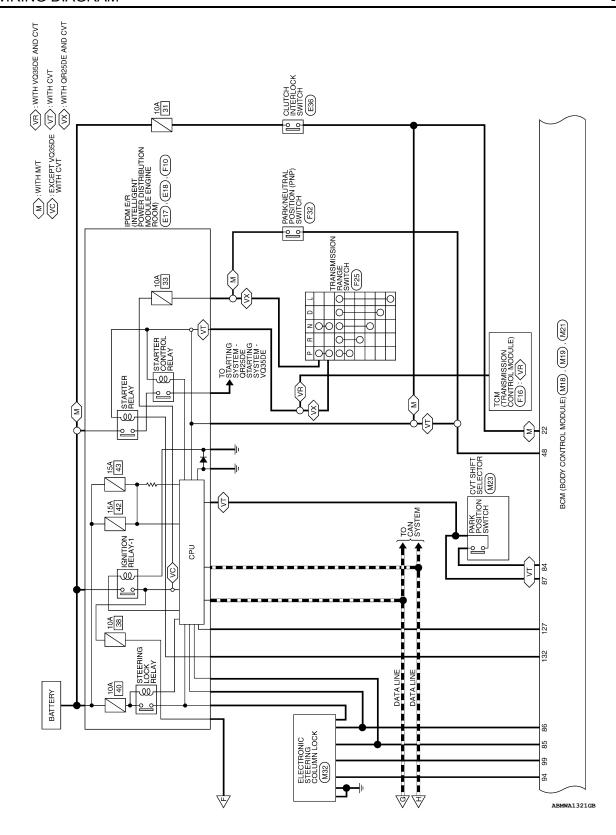
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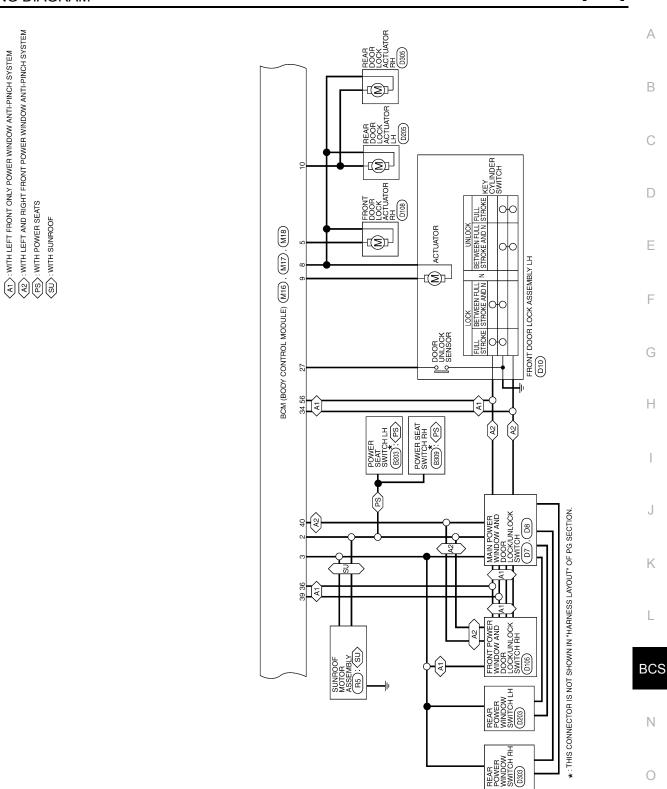
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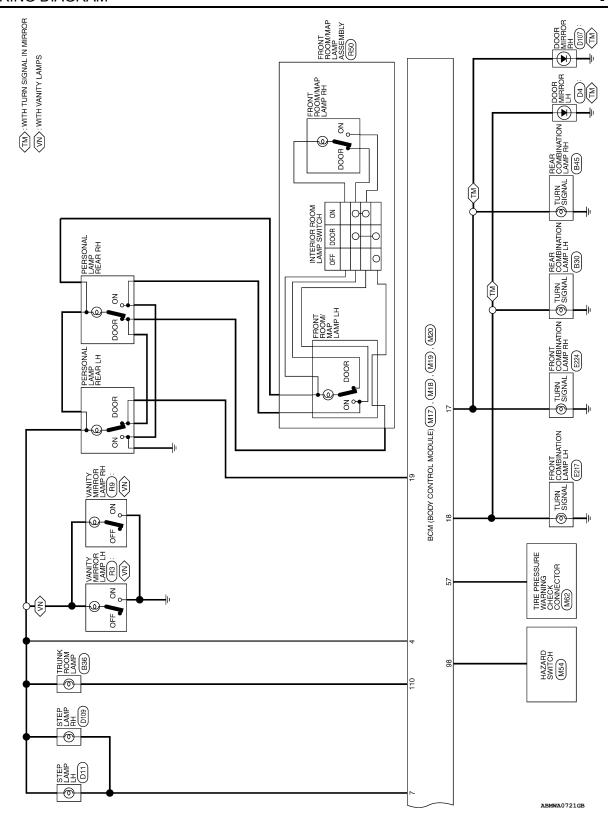


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	M17	connector Name BCM (BODY CONTROL MODULE)
CIORS	Connector No. M17	Connector Name
CONNE		ı
CM (BODY CONTROL MODULE) CONNECTORS	M16	Sonnector Name BCM (BODY CONTROL MODULE)
M (BODY CC	Connector No. M16	Connector Name

M16 Connector No. M17	M17	Connector Name BCM (BODY CONTROL MODULE)	WHITE	1 12 13 14 15 16 17 18 19
M16 BCM (BODY CONTROL MODULE) BLACK		Connector Name	Connector Color	H.S.
	M16	BCM (BODY CONTROL MODULE)	BLACK	

Connector Color

Signal Name	CDL_COMMON	CDL_DR/FL	CDL_RR_RL_BACK	BAT_BCM_FUSE	1	GND1	LOW_SIDE_PUSH_ LED_OUTPUT	ACC_LED	I	FR_FLASHER	FL_FLASHER	ROOM_LAMP_OUTPUT	
Color of Wire	>	g	G/Y	Y/R	ı	В	W/O	Y/L	ı	G/B	G/Y	Υ	
Terminal No.	80	6	10	11	12	13	14	15	16	17	18	19	

Signal Name	ROOM_LAMP_BAT_ SAVER	CDL_AS	ı	STEP_LAMP_OUTPUT	
Color of Wire	P/W	G/Y	ı	B/W	
Terminal No. Wire	4	5	9	7	

Signal Name	BAT_POWER_F/L	P/W_POWER_ SUPPLY_PERM	POWER_WINDOW_ POWER_SUPPLY (RAP)	
Color of Wire	M/B	R/Y	L/W	
Terminal No. Wire	-	2	ဇ	

Signal Name	GND_RF2_A/L	A/L_SENS_KEYLESS TUNER_POWER_ SUPPLY	KEYLESS_TUNER_SI	SHIFT_N/P	IMMO_LED	INPUT_5	INPUT_1	INPUT_2	INPUT_3	INPUT_4	BLOWER_FAN_SW	DOOR_KEY/C_LOCK SW	TPMS_MODE_ TRIGGER_SW	DR_DOOR_SW	REAR_DEFOGGER_ RLY
Color of Wire	Д	M/N	G/O	R/G	97	LG/B	L/W	G/B	LG/R	G/Y	BR/W	L/B	*	SB	G/R
Terminal No.	45	46	47	48	49	20	51	52	53	54	55	56	57	58	59

Signal Name	DOOR_LOCK_STATUS	-	FOB_IN_SW_1	ACC_F/B	IGN_F/B	AS_DOOR_SW	AIRCON_SW	DOOR KEY/C_ UNLOCK_SW_	_	CENTRAL_LOCK_SW	TRUNK_CANCEL_SW	REAR_DEFOGGER_SW	CENTRAL_UNLOCK_SW	PW_K-LINE	DUSH_LED	S/L_LOCK_LED	_	-
Color of Wire	G/W	ı	>	٨/٨	ŋ	B/B	SB	Z	-	GR	0	GR/W	GR/R	Y/G	Μ	Ж	ı	ı
Terminal No.	27	28	29	30	31	32	33	34	32	36	37	38	39	40	41	42	43	44

or No. M18	Connector Name BCM (BODY CONTROL MODULE)	Connector Color GREEN	
Connector No.	Connector Na	Connector Co	

					l	1							I	I	l	l	l	l
39	38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20	36	35	34	88	32	3	98	83	88	27	92	52	24	23	83	72	20
59	58 57 56 55 54 53 52 51 50 49 48 47 46 45 44	26	22	54	53	52	51	50	49	48	47	46	45		43	42	43 42 41 40	9
Terminal No. Wire	nin	Z	<u>o</u>	ပ္ပ >	P is	o d			S	ğ	اع	Signal Name	Ě	a)				
	20				1						'	١, ١						
	21			-	P/B			S	AUTO_LIGHT_ SENSOR_INPUT1) SS	_ _ _ _ _		표현	ヹ	-			
	22			"	₽Y	l.			ΙŌ	$ \exists $	잍	CLUTCH_SW	[S]	>				
	23				1						1							
	24			ш.	₩,		Ś	잍	STOP_LAMP_LOW_SW	₹	₫		Q	≥	S	>		

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STOP_LAMP_HIGH_SW

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Signal Name	ı	ACC_CONT	AT_DEVICE_OUT	S/L_CONDITION_1	S/L_CONDITION_2	SHIFT_P	AS_REQUEST SWITCH	DR_REQUEST SWITCH	IGN2_CONT	RF1_POWER_SUPPLY	1	1	S/L_POWER_SUPPLY_ 12V_	OUTPUT_1	OUTPUT_4	OUTPUT_2	HAZARD_SW	S/L_K-LINE
Color of Wire	1	Г	Y/R	97	G/R	G/B	P/L	B/W	>	L/R	_	_	G/Y	R/W	P/B	R/B	G/O	∖
Terminal No.	82	83	84	85	98	87	88	68	06	91	82	93	94	92	96	97	86	66

Signal Name	_	_	FOB_READER_CLOCK	FOB_READER_DATA	IGN_ELEC_CONT	RF1_TUNER_SIGNAL	_	_	_	OUTPUT_5	OUTPUT_3	ENG_START_SW	CAN-L	CAN-H	FOB_SLOT_ ILLUMINATION	IGN_ON_LED
Color of Wire	_	1	9/0	0	B/B	9	-	1	ı	R/Y	R/G	BR	Ь	Γ	B/L	ГG
Terminal No.	99	29	89	69	02	71	22	22	74	92	92	22	78	79	80	81

Connector No.		
Connector Name		BCM (BODY CONTROL MODULE)
Connector Color	lor BLACK	CK
僵		
H.S.		
78 77 76 75	73 72	70 69 68 67 66 65 64 63 62 61
86 88 82 86 82 84	93 92	91 90 89 88 87 86 85 84 83 82 81 80
Terminal No.	Color of Wire	Signal Name
09	B/R	ROOM_ANT_2_B
61	W/R	ROOM_ANT_2_A
62	В/У	AS_DOOR_ANT_B
63	LG	AS_DOOR_ANT_A
64	٧	DR_DOOR_ANT_B
65	Ь	DR_DOOR_ANT_A

Signal Name	I	ı	ı	CDL_BACK_TRUNK	I	I	ı	ı	ı	ı	TRUNK_LAMP_OUTPU	ı
Color of Wire	ı	ı	ı	>	ı	ı	ı	ı	ı	ı	W/N	1
Terminal No. Wire	100	101	102	103	104	105	106	107	108	109	110	111

ector No.	ector No. M20 ector Name BCM (BODY CONTROL MODI II E)
ctor Color WHITE	WHITE
ָרַיַ בּיַר	
_	100 101 [102 103 104



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M28 COMBINATION SWITCH WHITE	21 22 3 2 2 4 4 2	Signal Name	WASH MTR	OUTPUT_4	OUTPUT_3	GND	INPUT_3	OUTPUT_5	INPUT_2	INPUT_4	INPUT_1	OUTPUT_1	INPUT_5	OUTPUT_2
 . -	2/8	Color of Wire	R/L	G/Y	LG/R	Ф	R/G	LG/B	B/B	P/B	B/W	Μ	R/Υ	G/B
Connector No. Connector Name	原面 H.S.	Terminal No.	1	2	5	9	7	8	6	10	11	12	13	14

Signal Name	BACK_DOOR_ANT_A	ı	1	ı	ı	1	1	1	IGN_USM_CONT1	I	I	TRUNK_SW	ı	ST_CONT_USM	1	1	1	-	1	ı	Í	ı	TRUNK_REQUEST_SW	1	1	BUZZER	1	1	BACK_TRUNK_ OPENER	RR_DOOR_SW	RL_DOOR_SW	1	
Color of Wire	BR/W	ı	1	1	ı	1	ı	1	BR/W	1	1	Y/G	1	ш	1	1	_	_	ı	ı	1	-	G/R	1	1	GR	-	1	L/A	B/W	R/B	-	ı
Terminal No.	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151

				13 112								
	BCM (BODY CONTROL MODULE)	AY		150 129 129 129 127 128 125 124 122 122 121 120 119 118 117 116 115 114 113 112 121 121 121 121 121 121 121 121	Signal Name	ı	ı	TRUNK_ANT_1_B	TRUNK_ANT_1_A	-	I	BACK DOOR ANT B
M21		or GRAY	L	126 125 124 1	Color of Wire	ı	ı	В	Μ	1	ı	0
Connector No.	Connector Name	Connector Color	原 H.S.	131 130 129 128 127 13 151 150 149 148 147 1	Terminal No.	112	113	114	115	116	117	118

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[BCM]

SYMPTOM DIAGNOSIS

COMBINATION SWITCH SYSTEM SYMPTOMS

Symptom Table

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

Malfunction item: x

							Data mo	nitor iter	m					
Malfunction combi- nation	FR WIPER HI	FR WIPER LOW	FR WASHER SW	FR WIPER INT	INT VOLUME	TURN SIGNAL R	TURN SIGNAL L	TAIL LAMP SW	HI BEAM SW	HEAD LAMP SW 1	HEAD LAMP SW 2	PASSING SW	AUTO LIGHT SW	FR FOG SW
А		×	×			×	×							
В	×			×						×		×		
С					×				×		×			
D					×			×					×	
E					×									×
F	×				×									
G			×		×									
Н		×		×									×	
I							×				×	×		×
J						×		×	×	×				
К					•	•	All I	tems		•		•	•	
L			If only o	ne item	is detect	ted or th	e item is	not app	licable to	the co	mbinatio	ns A to I	<	

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

Malfunction combination	Malfunctioning part	Repair or replace
Α	Combination switch INPUT 1 circuit	
В	Combination switch INPUT 2 circuit	
С	Combination switch INPUT 3 circuit	Inspect the combination switch input circuit applicable to the malfunctioning part. BCS-37, "Diagnosis Procedure"
D	Combination switch INPUT 4 circuit	part. <u>555 07. Bragnosio i roccaure</u>
Е	Combination switch INPUT 5 circuit	
F	Combination switch OUTPUT 1 circuit	
G	Combination switch OUTPUT 2 circuit	
Н	Combination switch OUTPUT 3 circuit	Inspect the combination switch output circuit applicable to the malfunctioning part. BCS-39, "Diagnosis Procedure"
1	Combination switch OUTPUT 4 circuit	ang part. <u>500 00. Biagnosis i roccutic</u>
J	Combination switch OUTPUT 5 circuit	
K	BCM	Replace BCM. Refer to BCS-92, "Removal and Installation".
L	Combination switch	Replace the combination switch. Refer to EXL-219, "Removal and Installation".

PRECAUTIONS

< PRECAUTION > [BCM]

PRECAUTION

PRECAUTIONS

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

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

WARNING:

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

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

WARNING:

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

Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

NOTE:

- Before removing and installing any control units, first turn the push-button ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

This vehicle is equipped with a push-button ignition switch and a steering lock unit.

If the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

- 2. Carry the Intelligent Key or insert it to the key slot and turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.)
- Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
- Perform the necessary repair operation.

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PRECAUTIONS

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5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)

6. Perform self-diagnosis check of all control units using CONSULT.

PREPARATION

< PREPARATION > [BCM]

PREPARATION

PREPARATION

Commercial Service Tools

Tool name		Description
Power tools		Loosening nuts, screws and bolts
	PIIB1407E	
One-way Screw Removal Tool		Removing one-way screws
	ALMIA0486ZZ	

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REMOVAL AND INSTALLATION

BCM (BODY CONTROL MODULE)

Removal and Installation

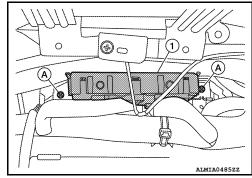
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REMOVAL

CAUTION:

Before replacing BCM, perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to <u>BCS-3</u>, "<u>ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM) : Description</u>".

- 1. Disconnect the negative battery terminal. Refer to <u>PG-68</u>, "Removal and Installation (Battery)" (coupe) and <u>PG-140</u>, "Removal and Installation (Battery)" (sedan).
- 2. Remove the combination meter. Refer to MWI-139, "Removal and Installation".
- 3. Remove the BCM screws (A) using a suitable tool, and pull out the BCM (1).
- 4. Disconnect the BCM connector and remove the BCM (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- When replacing BCM, perform "WRITE CONFIGURATION". Refer to BCS-3, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM): Description".
- When replacing BCM, perform the system initialization (NATS). Refer to the CONSULT immobilizer mode and follow the on-screen instructions.
- When replacing BCM, if new BCM does not come with keyfobs attached, all existing keyfobs must be re-registered. Refer to the CONSULT immobilizer mode and follow the on-screen instructions for the initialization procedure.