

# **CONTENTS**

BASIC INSPECTION3
INSPECTION AND ADJUSTMENT 3
ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM)
CONFIGURATION (BCM)
SYSTEM DESCRIPTION7
BODY CONTROL SYSTEM 7 System Description 7 Component Parts Location 8
COMBINATION SWITCH READING SYSTEM
System Diagram9 System Description9
SIGNAL BUFFER SYSTEM13 System Diagram
POWER CONSUMPTION CONTROL SYS-
TEM 14
TEM         14           System Diagram         14           System Description         14           Component Parts Location         16
System Diagram14 System Description14

DOOR LOCK : CONSULT-III Function (BCM -	
DOOR LOCK)	
REAR WINDOW DEFOGGER : CONSULT-III	19
Function (BCM - REAR DEFOGGER)	20
BUZZER : CONSULT-III Function (BCM - BUZZ-ER)	
INT LAMP : CONSULT-III Function (BCM - INT	
LAMP)	
HEADLAMP : CONSULT-III Function (BCM -	
HEAD LAMP)	
WIPER : CONSULT-III Function (BCM - WIPER)	
FLASHER :: CONSULT-III Function (BCM - FLASHER) ::	
INTELLIGENT KEY	26
INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)	
COMB SW	20
COMB SW : CONSULT-III Function (BCM -	23
COMB SW)	29
BCM : CONSULT-III Function (BCM - BCM)	
IMMU IMMU : CONSULT-III Function (BCM - IMMU)	
BATTERY SAVER	31
BATTERY SAVER : CONSULT-III Function (BCM	31

D

Е

F

Н

Κ

**BCS** 

0

TRUNK : CONSULT-III Function (BCM - TRUNK) 32	POWER SUPPLY AND GROUND CIRCUIT  Diagnosis Procedure	
THEFT ALM         32           THEFT ALM : CONSULT-III Function (BCM - THEFT)         33	COMBINATION SWITCH INPUT CIRCUIT  Diagnosis Procedure	
RETAINED PWR	COMBINATION SWITCH OUTPUT CIRCUIT  Diagnosis Procedure	. 45
RETAINED PWR)         34           SIGNAL BUFFER         34	ECU DIAGNOSIS INFORMATION	
SIGNAL BUFFER : CONSULT-III Function (BCM - SIGNAL BUFFER)	Reference Value	. 47 . 70
AIR PRESSURE MONITOR	Fail-safe DTC Inspection Priority Chart DTC Index	. 78
AIR PRESSURE MONITOR : CONSULT-III Function	SYMPTOM DIAGNOSIS  COMBINATION SWITCH SYSTEM SYMP-	82
DTC/CIRCUIT DIAGNOSIS38	TOMS	
U1000 CAN COMM CIRCUIT38	Symptom Table	. 82
Description	PRECAUTION	
Diagnosis Procedure	PRECAUTIONS  Precaution for Supplemental Restraint System	. 83
DTC Logic 39	(SRS) "AIR BAG" and "SEAT BELT PRE-TEN- SIONER"	
Diagnosis Procedure	Precaution for Battery Service	. 83
U0415 VEHICLE SPEED SIG         40           Description         40	REMOVAL AND INSTALLATION	84
DTC Logic	BCM (BODY CONTROL MODULE)	
B2562 LOW VOLTAGE41	Removal and Installation	. 84
DTC Logic	COMBINATION SWITCH	
Diagnosis Procedure41	Exploded ViewRemoval and Installation	
	וזפוווטימו מווע ווואנמוומנוטוו	. 00

#### < BASIC INSPECTION >

# **BASIC INSPECTION**

## INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM)

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM): Description

INFOID:0000000004498583

Α

D

Е

F

#### BEFORE REPLACEMENT

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

#### NOTE:

If "READ CONFIGURATION" can not be used, use the "WRITE CONFIGURATION - Manual selection" after replacing BCM.

AFTER REPLACEMENT

#### **CAUTION:**

- When replacing BCM, you must perform "WRITE CONFIGURATION" with CONSULT-III.
- Complete the procedure of "WRITE CONFIGURATION" in order.
- If you set incorrect "WRITE CONFIGURATION", 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

108584

# 1. SAVING VEHICLE SPECIFICATION

CONSULT-III Configuration

Perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to <u>BCS-3</u>, "CONFIGURATION (BCM): Description".

#### NOTE:

If "READ CONFIGURATION" can not be used, use the "WRITE CONFIGURATION - Manual selection" after replacing BCM.

K

>> GO TO 2.

### 2.replace $_{ m BCM}$

Replace BCM. Refer to BCS-84, "Exploded View".

BCS

>> GO TO 3.

# 3. WRITING VEHICLE SPECIFICATION

(P)CONSULT-III Configuration

Perform "WRITE CONFIGURATION - Config file" or "WRITE CONFIGURATION - Manual selection" to write vehicle specification. Refer to <u>BCS-4, "CONFIGURATION (BCM): Work Procedure"</u>.

0

>> GO TO 4.

4. INITIALIZE BCM (NATS)

Perform BCM initialization. (NATS)

Р

>> WORK END

CONFIGURATION (BCM)

CONFIGURATION (BCM): Description

INFOID:0000000004498585

Vehicle specification needs to be written with CONSULT-III because it is not written after replacing BCM.

Revision: 2009 December BCS-3 2009 370Z

#### < BASIC INSPECTION >

Configuration has three functions as follows.

Function	Description
READ CONFIGURATION	<ul><li>Reads the vehicle configuration of current BCM.</li><li>Saves the read vehicle configuration.</li></ul>
WRITE CONFIGURATION - Manual selection	Writes the vehicle configuration with manual selection.
WRITE CONFIGURATION - Config file	Writes the vehicle configuration with saved data.

#### NOTE:

Manual setting item: Items which need selection by vehicle specifications

Automatic setting item: Items which are written in automatically (Setting can not be changed)

#### **CAUTION:**

- When replacing BCM, you must perform "WRITE CONFIGURATION" with CONSULT-III.
- Complete the procedure of "WRITE CONFIGURATION" in order.
- If you set incorrect "WRITE CONFIGURATION", incidents might occur.
- Configuration is different for each vehicle model. Confirm configuration of each vehicle model.
- Never perform "WRITE CONFIGURATION" except for new BCM.

## CONFIGURATION (BCM): Work Procedure

INFOID:0000000004498586

## 1. WRITING MODE SELECTION

©CONSULT-III Configuration

Select "CONFIGURATION" of BCM.

When writing saved data>>GO TO 2.

When writing manually>>GO TO 3.

# 2.PERFORM "WRITE CONFIGURATION - CONFIG FILE"

#### CONSULT-III Configuration

Perform "WRITE CONFIGURATION - Config file".

#### >> WORK END

# ${f 3.}$ PERFORM "WRITE CONFIGURATION - MANUAL SELECTION"

#### (P)CONSULT-III Configuration

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

#### **CAUTION:**

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

4. Select "SETTING".

#### **CAUTION:**

Make sure to select "SETTING" 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.

When "COMMAND FINISHED", select "END".

>> GO TO 4.

## 4. OPERATION CHECK

Confirm that each function controlled by BCM operates normally.

>> WORK END

### < BASIC INSPECTION >

# CONFIGURATION (BCM): Configuration list

INFOID:0000000004498587

Α

В

C

D

Е

F

Н

K

**BCS** 

Ν

Р

#### **CAUTION:**

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

**Except for Mexico** 

MANUAL SE	ETTING ITEM	NOTE	
Items	Setting value	NOTE	
AV C/U	WITH ⇔ WITHOUT	_	
AUTO LIGHT	WITH ⇔ WITHOUT	_	
DTRL	WITH ⇔ WITHOUT	_	
TRANSMISSION	AT with ABS ⇔ MT with ABS	_	
ASCD CANCEL SW TYPE	MODE1 ⇔ MODE2	MODE1: M/T models with SynchroRev Match mode     MODE2: Except M/T models with SynchroRev Match mode	

⇔: Items which confirm vehicle specifications

AUTO SETTING	G ITEM	NOTE
Items	Setting value	NOTE
P-POS WARN	MODE1	_
AUTO BACK DOOR	WITHOUT	_
Trunk/Glass Hatch select	Glass Hatch	"Glass Hatch" is indicated also for vehicles without a glass hatch.
TR OPEN SW (INT)	MODE1	_
H/L BULB	DEFAULT	_
AUTO LIGHT	WITH	_
FR FOG LAMP	WITH	"WITH" is indicated also for vehicles without a front fog lamp
RR FOG LAMP	WITH	"WITH" is indicated also for vehicles without a rear fog lamp
DI LMP VARIAT	MODE2	_
LIGHT RECOG	MODE4	_
RAIN SENSOR	WITHOUT	_
HAZARD SW TYPE	MODE1	_
BCM AC CONTROL	MODE1	_
AUTO LOCK&UNLOCK FUNK	WITH	_
AUTO DOOR LOCK SELECT	WITH	_
AUTO DOOR UNLOCK SELECT	WITH	_
Key Fob Type	MODE9	_

#### For Mexico

MANUAL SETTING ITEM		NOTE
Items	Setting value	NOTE
TRANSMISSION AT with ABS ⇔ MT with ABS		_

⇔: Items which confirm vehicle specifications

AUTO SETTING ITEM		NOTE	
Items	Setting value	NOTE	
P-POS WARN	MODE1	_	
AV C/U	WITHOUT	_	

#### < BASIC INSPECTION >

AUTO SETTI	NG ITEM	NOTE
Items	Setting value	NOTE
AUTO BACK DOOR	WITHOUT	_
Trunk/Glass Hatch select	Glass Hatch	"Glass Hatch" is indicated also for vehicles without a glass hatch.
TR OPEN SW (INT)	MODE1	_
H/L BULB	DEFAULT	_
AUTO LIGHT	WITH	_
FR FOG LAMP	WITH	"WITH" is indicated also for vehicles without a front fog lamp
RR FOG LAMP	WITH	"WITH" is indicated also for vehicles without a rear fog lamp.
DTRL	WITHOUT	_
DI LMP VARIAT	MODE2	_
LIGHT RECOG	MODE4	_
RAIN SENSOR	WITHOUT	_
HAZARD SW TYPE	MODE1	_
BCM AC CONTROL	MODE1	_
ASCD CANCEL SW TYPE	MODE2	_
AUTO LOCK&UNLOCK FUNK	WITHOUT	_
AUTO DOOR LOCK SELECT	WITHOUT	_
AUTO DOOR UNLOCK SELECT	WITHOUT	_
Key Fob Type	MODE9	_

### **BODY CONTROL SYSTEM**

#### < SYSTEM DESCRIPTION >

# SYSTEM DESCRIPTION

## **BODY CONTROL SYSTEM**

## System Description

#### INFOID:0000000004455794

Α

D

Е

F

Н

#### **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-III and various settings.

### BCM control function list

System	Refer to
Combination switch reading system	BCS-9, "System Diagram"
Signal buffer system	BCS-13, "System Diagram"
Power consumption control system	BCS-14, "System Diagram"
Auto light system	EXL-10, "System Diagram"
Turn signal and hazard warning lamp system	EXL-15, "System Diagram"
Headlamp system	EXL-7, "System Diagram"
Parking, license plate and tail lamps system  Parking, license plate and tail lamps system  • EXL-17, "WITHOUT DAYTIME RUNNING LIGHT System Diagram" (Without daytime running light em Diagram" (With daytime running light system)  • EXL-17, "WITHOUT DAYTIME RUNNING LIGHT System Diagram" (With daytime running light system)	
Rear fog lamp system	EXL-21, "System Diagram"
Exterior lamp battery saver system	EXL-23, "System Diagram"
Daytime running light system	EXL-13, "System Diagram"
Interior room lamp control system	INL-5, "System Diagram"
Luggage room lamp system	INC-5, System Diagram
Interior room lamp battery saver system	INL-8, "System Diagram"
Front wiper and washer system	WW-5, "System Diagram"
Warning chime system	WCS-5, "WARNING CHIME SYSTEM : System Diagram"
Door lock system	DLK-11, "System Diagram"
Back open system	DLK-43, "System Diagram"
Nissan Vehicle Immobilizer System (NVIS) - NATS	SEC-15, "System Diagram"
Vehicle security system	SEC-20, "System Diagram"
Panic alarm	DLK-28, "REMOTE KEYLESS ENTRY FUNCTION : System Description"
DEF-4, "WITH NAVIGATION: System Diagram" (V     DEF-6, "WITHOUT NAVIGATION: System Diagram NAVI)	

Revision: 2009 December BCS-7 2009 370Z

BCS

Ν

0

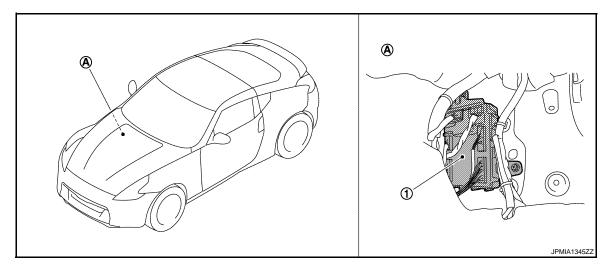
## **BODY CONTROL SYSTEM**

## < SYSTEM DESCRIPTION >

System		Refer to	
Intelligent Key system/engine start system	Door lock function		
	Back door open function		
	Remote keyless entry function	DLK-15, "INTELLIGENT KEY SYSTEM : System Diagram"	
	Key reminder function		
	Warning function		
	Engine start function		
Power window system		PWC-7, "System Diagram"	
Retained accessory power (RAP) system		PWC-7, "System Description"	
Tire pressure monitor system (TPMS) - AIR PRESSURE MONITOR		WT-9, "System Diagram"	

# **Component Parts Location**

INFOID:0000000004455795

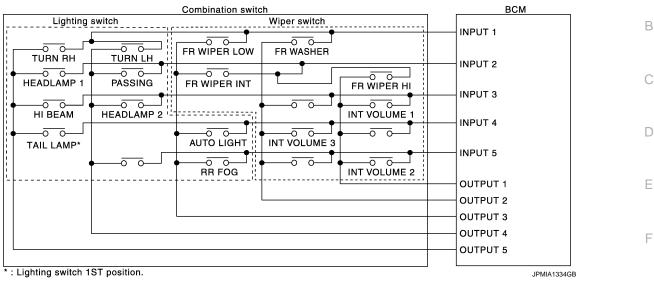


- 1. BCM
- A. Dash side lower (passenger side)

#### < SYSTEM DESCRIPTION >

# **COMBINATION SWITCH READING SYSTEM**

# System Diagram



Α

INFOID:0000000004455796

INFOID:0000000004455797

Н

K

**BCS** 

Ν

Р

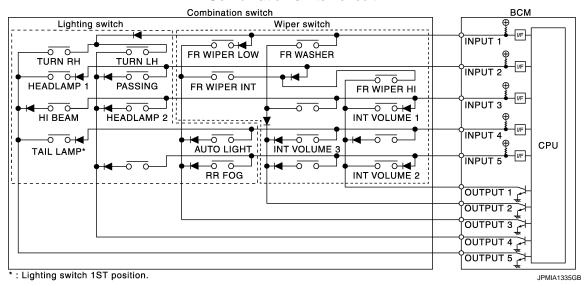
# System Description

OUTLINE

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

#### **COMBINATION SWITCH MATRIX**

#### Combination switch circuit



Combination switch INPUT-OUTPUT system list

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

#### < SYSTEM DESCRIPTION >

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

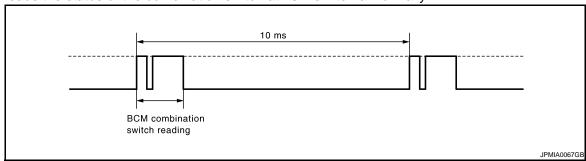
#### NOTE:

Headlamp has a dual system switch.

#### COMBINATION SWITCH READING FUNCTION

#### Description

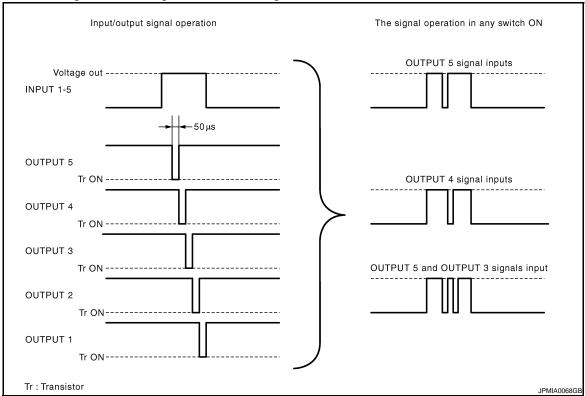
BCM reads the status of the combination switch at 10 ms interval normally.



#### NOTE:

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

- BCM operates as follows and judges the status of the combination switch.
- INPUT 1 5 outputs the voltage waveforms of 5 systems simultaneously.
- It operates the transistor on OUTPUT side in the following order: OUTPUT  $5 \rightarrow 4 \rightarrow 3 \rightarrow 2 \rightarrow 1$ .
- The voltage waveform of INPUT corresponding to the formed circuit changes according to the operation of the transistor on OUTPUT side if any (1 or more) switches are ON.
- It reads this change of the voltage as the status signal of the combination switch.



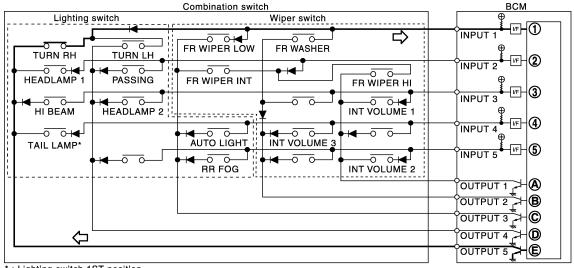
#### Operation Example

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

Example 1: When a switch (TURN RH switch) is turned ON

#### < SYSTEM DESCRIPTION >

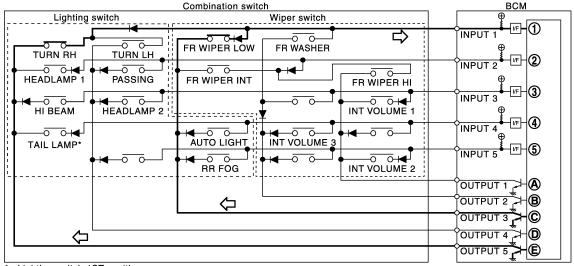
• The circuit between INPUT 1 and OUTPUT 5 is formed when the TURN RH switch is turned ON.



- : Lighting switch 1ST position.
- BCM detects the combination switch status signal "1E" when the signal of OUTPUT 5 is input to INPUT 1.
- BCM judges that the TURN RH switch is ON when the signal "1E" is detected.

Example 2: When some switches (turn RH switch, front wiper LO switch) are turned ON

 The circuits between INPUT 1 and OUTPUT 5 and between INPUT 1 and OUTPUT 3 are formed when the TURN RH switch and FR WIPER LOW switch are turned ON.



- : Lighting switch 1ST position.
- BCM detects the combination switch status signal "1CE" when the signals of OUTPUT 3 and OUTPUT 5 are input to INPUT 1.
- BCM judges that the TURN RH switch and FR WIPER LOW switch are ON when the signal "1CE" is detected.

#### WIPER VOLUME DIAL POSITION

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

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

**BCS-11** Revision: 2009 December 2009 370Z В

Α

D

Е

F

Н

**BCS** 

Ν

Р

## < SYSTEM DESCRIPTION >

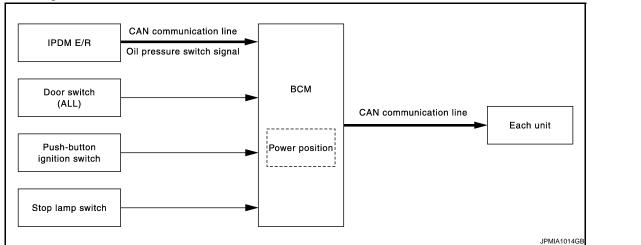
Wiper intermittent dial position	Switch status		
wiper intermittent diai position	INT VOLUME 1	INT VOLUME 2	INT VOLUME 3
6	OFF	ON	ON
7	OFF	ON	OFF

#### NOTE:

For details of wiper intermittent dial position, refer to <a href="WW-5">WW-5</a>, "System Description"

# SIGNAL BUFFER SYSTEM

System Diagram



# System Description

INFOID:0000000004455800

INFOID:0000000004455799

Α

В

D

Е

Н

#### **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	Push-button ignition 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.
Oil pressure switch signal	IPDM E/R (CAN)	Combination meter (CAN)	Transmits the received oil pressure switch signal via CAN communication.
Stop lamp switch signal	Stop lamp switch	TCM (CAN)	Inputs the stop lamp switch 1 signal and stop lamp switch 2 signal, and transmits the stop lamp switch signal via CAN communication.

BCS

K

Ν

0

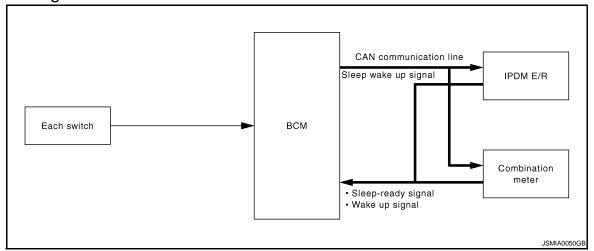
Р

#### POWER CONSUMPTION CONTROL SYSTEM

## POWER CONSUMPTION CONTROL SYSTEM

## System Diagram

INFOID:0000000004455801



## System Description

INFOID:0000000004455802

#### **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 wake up 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.

### POWER CONSUMPTION CONTROL SYSTEM

### < SYSTEM DESCRIPTION >

Sleep condition		
CAN sleep condition	BCM sleep condition	
<ul> <li>Receiving the sleep-ready signal (ready) from all units</li> <li>Ignition switch: OFF</li> <li>Vehicle security system and panic alarm: Not operation</li> <li>Warning chime: Not operation</li> <li>Intelligent Key system buzzer: Not operation</li> <li>Stop lamp switch: OFF</li> <li>Key slot (card switch) status: No change</li> <li>Turn signal indicator lamp: Not operation</li> <li>Exterior lamp: OFF</li> <li>Door lock status: No change</li> <li>CONSULT-III communication status: Not communication</li> <li>Meter display signal: Non-transmission</li> <li>Door switch status: No change</li> <li>Rear window defogger: OFF</li> </ul>	<ul> <li>Interior room lamp battery saver: Time out</li> <li>RAP system: OFF</li> <li>Power window switch communication: No transmission</li> <li>Push-button ignition switch illumination: OFF</li> <li>Infiniti Vehicle Immobilizer System (IVIS) - NATS: Not operation</li> <li>Remote keyless entry receiver communication status: No communication</li> <li>Tire pressure monitor system (TPMS) - AIR PRESSURE MONITOR: Stop</li> <li>LOCK indicator lamp: OFF</li> <li>ACC indicator lamp: OFF</li> <li>ON indicator lamp: OFF</li> </ul>	

#### 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		
Power window switch communication: Receiving     Remote keyless entry receiver: Receiving	<ul> <li>Receiving the sleep-ready signal (Not-ready) from any units</li> <li>Key slot (key switch): OFF → ON, ON → OFF</li> <li>Push-button ignition switch (push switch): OFF→ ON</li> <li>Hazard switch: OFF → ON</li> <li>PASSING switch: OFF → ON, ON → OFF</li> <li>TAIL LAMP switch: OFF → ON</li> <li>RR FOG switch: OFF → ON</li> <li>Driver door switch: OFF → ON, ON → OFF</li> <li>Passenger door switch: OFF → ON, ON → OFF</li> <li>Back door switch: OFF → ON, ON → OFF</li> <li>Driver door request switch: OFF → ON</li> <li>Passenger door request switch: OFF → ON</li> <li>Stop lamp switch: ON</li> <li>Clutch interlock switch: OFF → ON</li> </ul>		

BCS

Α

В

D

F

Ν

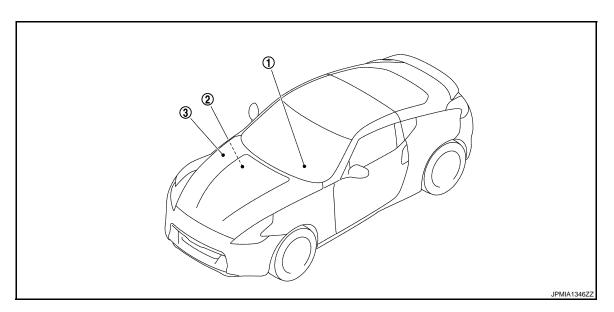
Р

Revision: 2009 December BCS-15 2009 370Z

## POWER CONSUMPTION CONTROL SYSTEM

# **Component Parts Location**

INFOID:0000000004455803



- 1. Combination meter
- 2. BCM
  Refer to BCS-8, "Component Parts
  Location".
- 3. IPDM E/R
  Refer to PCS-5, "Component Parts
  Location".

#### < SYSTEM DESCRIPTION >

# **DIAGNOSIS SYSTEM (BCM)**

**COMMON ITEM** 

COMMON ITEM: CONSULT-III Function (BCM - COMMON ITEM)

INFOID:0000000004455804

Α

В

D

Е

F

Н

#### APPLICATION ITEM

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description	
Work Support	Changes the setting for each system function.	
Self Diagnostic Result	Displays the diagnosis results judged by BCM.	
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM. Refer to CONSULT-III operation manual.	
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	<ul> <li>Read and save the vehicle specification.</li> <li>Write the vehicle specification when replacing BCM.</li> </ul>	

#### 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.

×: Applicable item

System	Sub system selection item	Diagnosis mode		
System	Sub system selection item	Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp timer	INT LAMP	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
<del>-</del>	AIR CONDITONER*			
<ul><li>Intelligent Key system</li><li>Engine start system</li></ul>	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	ВСМ	×		
IVIS - NATS	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Trunk lid open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	TPMS (AIR PRESSURE MONITOR)	×	×	×

#### NOTE:

#### FREEZE FRAME DATA (FFD)

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

Revision: 2009 December BCS-17 2009 370Z

BCS

Ν

Ρ

<sup>\*:</sup> This item is displayed, but is not used.

### < SYSTEM DESCRIPTION >

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

# DOOR LOCK

DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)

INFOID:0000000004747484

### **BCM CONSULT-III FUNCTION**

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description	
WORK SUPPORT	Changes the setting for each system function.	
DATA MONITOR	The BCM input/output signals are displayed.	
ACTIVE TEST	TEST The signals used to activate each device are forcibly supplied from BCM.	

### **WORK SUPPORT**

## < SYSTEM DESCRIPTION >

Monitor item	Description
DOOR LOCK-UNLOCK SET	Selective unlock function mode can be changed to operate (ON) or not operate (OFF) with this mode.
AUTOMATIC DOOR LOCK SE- LECT	Automatic door lock function mode can be selected from the following in this mode.     VH SPD: All doors are locked when vehicle speed more than 24 km/h (15 MPH)     P RANGE*: All doors are locked when shifting the selector lever from P position to other than the P position
AUTOMATIC DOOR UNLOCK SELECT	<ul> <li>Automatic door unlock function mode can be selected from the following in the mode.</li> <li>MODE 1: All doors are unlocked when the power supply position is changed from ON to OFF</li> <li>MODE 2*: All doors are unlocked when shifting the selector lever from any position other than the P to P position</li> <li>MODE 3: Driver side door is unlocked when the power supply position is changed from ON to OFF</li> <li>MODE 4*: Driver side door is unlocked when shifting the selector lever from any position other than the P to P position</li> </ul>
AUTOMATIC LOCK/UNLOCK SET	Automatic door lock/unlock function mode can be selected from the following in this mode.  Off: non-operational  Unlock Only: door unlock operation only  Lock Only: door lock operation only  Lock/Unlock: lock/unlock operation

<sup>\*:</sup> P range interlock door lock can be selected for M/T models, but automatic door lock/unlock function does not operate.

#### **DATA MONITOR**

Monitor Item	Contents
REQ SW-DR	Indicated [ON/OFF] condition of door request switch (driver side).
REQ SW-AS	Indicated [ON/OFF] condition of door request switch (passenger side).
REQ SW-BD/TR	Indicated [ON/OFF] condition of back door request switch.
DOOR SW-DR	Indicated [ON/OFF] condition of front door switch (driver side).
DOOR SW-AS	Indicated [ON/OFF] condition of front door switch (passenger side).
DOOR SW-RR	NOTE: This item is displayed, but cannot be monitored.
DOOR SW-RL	NOTE: This item is displayed, but cannot be monitored.
DOOR SW-BK	Indicated [ON/OFF] condition of back door switch.
CDL LOCK SW	Indicated [ON/OFF] condition of lock signal from door lock unlock switch.
CDL UNLOCK SW	Indicated [ON/OFF] condition of unlock signal from door lock 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.

### **ACTIVE TEST**

Test item	Description			
DOOR LOCK	<ul> <li>This test is able to check door lock/unlock operation.</li> <li>The all door lock actuators are locked when "ALL LCK" on CONSULT-III screen is touched.</li> <li>The all door lock actuators are unlocked when "ALL UNLK" on CONSULT-III screen is touched.</li> <li>The door lock actuator (driver side) is unlocked when "DR UNLK" on CONSULT-III screen is touched.</li> <li>The door lock actuator (passenger side) is unlocked when "AS UNLK" on CONSULT- III screen is touched.</li> <li>"OTR ULK" item is displayed, but cannot be monitored.</li> </ul>			

**BCS** 

# **REAR WINDOW DEFOGGER**

#### < SYSTEM DESCRIPTION >

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

VFOID:0000000004747489

#### Data monitor

Monitor Item	Description	
REAR DEF SW	<ul> <li>Without navigation: Displays "Press (ON)/other (OFF)" status determined with the rear window defogger switch</li> <li>With navigation: This is displayed even when it is not equipped</li> </ul>	
PUSH SW	Indicates [ON/OFF] condition of push switch	

### **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-III screen is touched

## BUZZER

# BUZZER: CONSULT-III Function (BCM - BUZZER)

INFOID:0000000004747498

### **CONSULT-III APPLICATION ITEMS**

Test item	Diagnosis mode	Description
BUZZER	Data Monitor	Displays BCM input data in real time.
DOZZEN	Active Test	Operation of electrical loads can be checked by sending driving signal to them.

#### **DATA MONITOR**

Display item [Unit]	Description		
PUSH SW [On/Off]	Status of push-button ignition switch judged by BCM.		
UNLK SEN-DR [On/Off]	Status of unlock sensor judged by BCM.		
VEH SPEED 1 [km/h]	Value of vehicle speed signal received from ABS actuator and electric unit (control unit) with CAN communication line.		
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 switch 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).

### < SYSTEM DESCRIPTION >

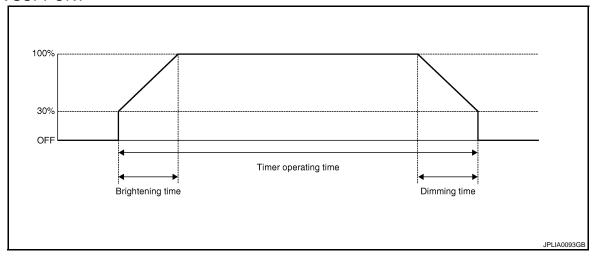
Display item [Unit]	Description
RUN FLAT/T WARN BUZZER	The run-flat tire warning chime operation can be checked by operating the relevant function (On/Off).
KEY REMINDER WARN	The key reminder warning chime operation can be checked by operating the relevant function (On/Off).

## **INT LAMP**

# INT LAMP: CONSULT-III Function (BCM - INT LAMP)

#### INFOID:0000000004747490

## **WORK SUPPORT**



Service item	Setting item		Setting	
SET I/L D-UNLCK INTCON	ON*	With the interior room lamp timer function		
SET I/L D-UNLCK INTCOM	OFF	Without th	Without the interior room lamp timer function	
	MODE 2	7.5 sec.		
ROOM LAMP TIMER SET	MODE 3*	15 sec.	Sets the interior room lamp ON time. (Timer operating time)	
	MODE 4	30 sec.		
	MODE 1	0.5 sec.		
	MODE 2*	1 sec.		
ROOM LAMP ON TIME SET	MODE 3	2 sec.	Sets the interior room lamp gradual brightening time.	
	MODE 4	3 sec.		
	MODE 5	0 sec.		
	MODE 1	0.5 sec.		
	MODE 2	1 sec.		
ROOM LAMP OFF TIME SET	MODE 3	2 sec.	Sets the interior room lamp gradual dimming time.	
	MODE 4*	3 sec.		
	MODE 5	0 sec.		
	MODE 1*	Interior ro	om lamp timer activates with synchronizing all doors.	
R LAMP TIMER LOGIC SET	MODE 2	Interior room lamp timer activates with synchronizing the driver door only.		

<sup>\*:</sup> Factory setting

#### **DATA MONITOR**

G

Α

В

D

Е

F

Н

ı

Κ

L

BCS

Ν

0

Р

Revision: 2009 December BCS-21 2009 370Z

## < SYSTEM DESCRIPTION >

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)	
REQ SW-RR [On/Off]	NOTE:	
REQ SW-RL [On/Off]	The item is indicated, but not monitored.	
PUSH SW [On/Off]	The switch status input from push-button ignition switch	
ACC RLY-F/B [On/Off]	NOTE: The item is indicated, but not monitored.	
UNLK SEN-DR [On/Off]	Driver door unlock status input from unlock sensor	
KEY SW-SLOT [On/Off]	Key switch status input from key slot	
DOOR SW-DR [On/Off]	The switch status input from driver side door switch	
DOOR SW-AS [On/Off]	The switch status input from passenger side door switch	
DOOR SW-RR [On/Off]	NOTE:	
DOOR SW-RL [On/Off]	The item is indicated, but not monitored.	
DOOR SW-BK [On/Off]	The switch status input from back door switch	
CDL LOCK SW [On/Off]	Lock switch status received from the door lock and unlock switch	
CDL UNLOCK SW [On/Off]	Unlock switch status received from the door lock and unlock switch	
KEY CYL LK-SW [On/Off]	Lock switch status received from key cylinder switch	
KEY CYL UN-SW [On/Off]	Unlock switch status received from key cylinder switch	
TRNK/HAT MNTR [On/Off]	NOTE: The item is indicated, but not monitored.	
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 ON (Map lamp switch is in DOOR position).	
	Off	Stops the interior room lamp control signal to turn map lamp OFF.	
STEP LAMP TEST	On	NOTE:	
	Off	The item is displayed, but cannot be tested.	
LUGGAGE LAMP TEST	On	Outputs the luggage room lamp control signal to turn the luggage room lamp ON.	
	Off	Stops the luggage room lamp control signal to turn the luggage room lamp OFF.	

## < SYSTEM DESCRIPTION >

## **HEADLAMP**

# HEADLAMP : CONSULT-III Function (BCM - HEAD LAMP)

#### INFOID:0000000004747493

Α

В

D

Е

F

G

Н

## **WORK SUPPORT**

Service item	Setting item	Setting		
BATTERY SAVER SET	On*	With the exterior lamp battery saver function		
BATTERT SAVER SET	Off	Without the exterior lamp battery saver function		
	MODE 1*	45 sec.		
	MODE 2	Without the function		
ILL DELAY SET	MODE 3	30 sec.		
	MODE 4	60 sec.	Sets delay timer function timer operation time.	
	MODE 5	90 sec.	(All doors closed)	
	MODE 6	120 sec.		
	MODE 7	150 sec.		
	MODE 8	180 sec.		
	MODE 1*	Normal		
CUSTOM A/LIGHT SETTING	MODE 2	More sensitive setting than normal setting (Turns ON earlier than normal operation.)		
	MODE 3	More sensitive setting than MODE 2 (Turns ON earlier than MODE 2.)		
	MODE 4	Less sensitive setting than normal setting (Turns ON later than normal operation.)		

<sup>\*:</sup> Factory 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]	Each switch status that BCM judges from the combination switch reading function			
HEAD LAMP SW1 [On/Off]	- Each switch status that Bow judges from the combination switch reading function			
HEAD LAMP SW2 [On/Off]				
PASSING SW [On/Off]				
AUTO LIGHT SW [On/Off]				

BCS

K

Ν

0

Р

Revision: 2009 December BCS-23 2009 370Z

## < SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
FR FOG SW [On/Off]	NOTE: The item is indicated, but not monitored.
RR FOG SW [On/Off]	Each switch status that BCM judges from the combination switch reading function
DOOR SW-DR [On/Off]	The switch status input from driver side door switch
DOOR SW-AS [On/Off]	The switch status input from passenger side door switch
DOOR SW-RR [On/Off]	
DOOR SW-RL [On/Off]	NOTE: The item is indicated, but not monitored.
DOOR SW-BK [On/Off]	
OPTICAL SENSOR [V]	The value of exterior brightness voltage input from the optical sensor

### **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 position light request signal transmission.	
	Hi	Transmits the high beam request signal with CAN communication to turn the head-lamp (HI).	
HEAD LAMP	Low	Transmits the low beam request signal with CAN communication to turn the head-lamp (LO).	
	Off	Stops the high & low beam request signal transmission.	
FR FOG LAMP	On	NOTE:	
FR FOG LAWIF	Off	The item is indicated, but cannot be tested.	
RR FOG LAMP	On	<ul> <li>Outputs the voltage to turn the rear fog lamp ON.</li> <li>Transmits the rear fog lamp status signal to the combination meter with CAN communication to turn the rear fog lamp indicator lamp ON.</li> </ul>	
	Off	<ul><li>Stops the voltage to turn the rear fog lamp OFF.</li><li>Stops the rear fog lamp status signal transmission.</li></ul>	
DAYTIME RUNNING LIGHT	On	Transmits the low beam request signal and the daytime running light request signal with CAN communication to turn the headlamp (LO), parking, license plate, tail and side marker lamps ON.	
	Off	Stops the low beam request signal and the daytime running light request signal transmission.	
	RH		
CORNERING LAMP	LH	NOTE: The item is indicated, but cannot be tested.	
	Off		
ILL DIM SIGNAL	On	NOTE:	
ILL DIW SIGNAL	Off	The item is indicated, but cannot be tested.	

# **WIPER**

WIPER: CONSULT-III Function (BCM - WIPER)

INFOID:0000000004747495

**WORK SUPPORT** 

## < SYSTEM DESCRIPTION >

Service item	Setting item	Description	
WIPER SPEED	On	With vehicle speed (Front wiper intermittent time linked with the vehicle speed and wiper intermittent dial position)	
SETTING	Off*	Without vehicle speed (Front wiper intermittent time linked with the wiper intermittent dial position)	

<sup>\*:</sup>Factory setting

#### **DATA MONITOR**

Monitor Item [Unit]	Description	
PUSH SW [Off/On]	The switch status input from push-button ignition switch.  The value of the vehicle speed signal received from combination meter with CAN communication.	
VEH SPEED 1 [km/h]		
FR WIPER HI [Off/On]		
FR WIPER LOW [Off/On]	Face a witch election that DOM independence from the combination position and in a function	
FR WASHER SW [Off/On]	Each switch status that BCM judges from the combination switch reading function.	
FR WIPER INT [Off/On]		
FR WIPER STOP [Off/On]	Front wiper motor (stop position) status received from IPDM E/R with CAN communication.	
INT VOLUME [1 – 7]	Each switch status that BCM judges from the combination switch reading function.	

#### **ACTIVE TEST**

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	Lo	Transmits the front wiper request signal (LO) to IPDM E/R with CAN communication to operate the front wiper LO operation.	
	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-III Function (BCM - FLASHER)

WORK	<b>SUP</b>	<b>PORT</b>
------	------------	-------------

Service item	Setting item	Setting	
HAZARD ANSWER BACK	Lock Only*	With locking only	
	Unlk Only	With unlocking only	Sets the hazard warning lamp answer back function when the door is lock/unlock with the request switch or the key fob.
	Lock/Unlk	With locking/unlocking	
	Off	Without the function	

<sup>\*:</sup> Factory setting

### **DATA MONITOR**

В

Α

С

D

Е

F

K

**BCS** 

INFOID:0000000004747494

0

Р

**BCS-25** Revision: 2009 December 2009 370Z

## < SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	The switch status input from the request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from the request switch (passenger side)
PUSH SW [On/Off]	The switch status input from the push-button ignition switch
TURN SIGNAL R [On/Off]	Each quitab condition that PCM judges from the combination quitab reading function
TURN SIGNAL L [On/Off]	Each switch condition that BCM judges from the combination switch reading function
HAZARD SW [On/Off]	The switch status input from the hazard switch
RKE-LOCK [On/Off]	Lock signal status received from the remote keyless entry receiver
RKE-UNLOCK [On/Off]	Unlock signal status received from the remote keyless entry receiver
RKE-PANIC [On/Off]	Panic alarm signal status received from the remote keyless entry receiver

#### **ACTIVE TEST**

Test item	Operation	Description
	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.

# INTELLIGENT KEY

# INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY) INFOID:000000004747485

## **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	<ul> <li>Auto door lock time can be changed in this mode.</li> <li>MODE 1: 1 minute</li> <li>MODE 2: 5 minutes</li> <li>MODE 3: 30 seconds</li> <li>MODE 4: 2 minutes</li> </ul>	
LOCK/UNLOCK BY I-KEY	Door lock/unlock function by door request switch (driver side, passenger side and back door) 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 back door 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.  • MODE 1: 0.5 sec.  • MODE 2: Non-operation  • MODE 3: 1.5 sec.	
TAKE OUT FROM WIN WARN	NOTE: This item is displayed, but cannot be monitored.	

## < SYSTEM DESCRIPTION >

Monitor item	Description
PW DOWN SET	Unlock button pressing time on Intelligent Key button can be selected from the following with this mode.  • MODE 1: 3 sec.  • MODE 2: Non-operation  • MODE 3: 5 sec.
TRUNK OPEN DELAY	NOTE: This item is displayed, but cannot be supported.
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
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 DLK-155, "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 back door request switch.	
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch.	
IGN RLY2 -F/B	Indicates [ON/OFF] condition of ignition relay 2.	
ACC RLY-F/B	NOTE: This item is displayed, but cannot be monitored.	
CLUCH SW*1	Indicates [ON/OFF] condition of clutch switch.	
BRAKE SW 1	Indicates [ON/OFF]*2 condition of brake switch power supply.	
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 unit (LOCK).	
S/L -UNLOCK	Indicates [ON/OFF] condition of steering lock unit (UNLOCK).	
S/L RELAY -F/B	Indicates [ON/OFF] condition of steering lock relay.	
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.	

Revision: 2009 December BCS-27 2009 370Z

Κ

L

J

Α

В

С

D

Е

F

G

Н

BCS

Ν

 $\bigcirc$ 

Р

## < SYSTEM DESCRIPTION >

Monitor Item	Condition
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 unit (LOCK).
S/L UNLK-IPDM	Indicates [ON/OFF] condition of steering lock unit (UNLOCK).
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 TCM by numerical value [km/h].
DOOR STAT-DR	Indicates [LOCK/READY/UNLOCK] condition of driver side door status.
DOOR STAT-AS	Indicates [LOCK/READY/UNLOCK] condition of passenger side door status.
ID OK FLAG	Indicates [SET/RESET] condition of key ID.
PRMT ENG STRT	Indicates [SET/RESET] condition of engine start possibility.
PRMT RKE STRT	NOTE: This item is displayed, but cannot be monitored.
KEY SW -SLOT	Indicates [ON/OFF] condition of key slot.
TRNK/HAT MNTR	NOTE: This item is displayed, but cannot be monitored.
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	NOTE: This item is displayed, but cannot be monitored.
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.
RKE OPE COUN1	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
RKE OPE COUN2	NOTE: This item is displayed, but cannot be monitored.

<sup>\*1:</sup> It is displayed but does not operate on M/T models.

## **ACTIVE TEST**

Test item	Description
BATTERY SAVER	This test is able to check interior room lamp operation. The interior room lamp is activated after "ON" on CONSULT-III 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-III 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-III 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-III screen is touched.  Key warning chime sounds when "KEY" on CONSULT-III screen is touched.  OFF position warning chime sounds when "KNOB" on CONSULT-III screen is touched.
INDICATOR	This test is able to check warning lamp operation.  • "KEY" Warning lamp illuminates when "KEY ON" on CONSULT-III screen is touched.  • "KEY" Warning lamp blinks when "KEY IND" on CONSULT-III screen is touched.

<sup>\*2:</sup> OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

## < SYSTEM DESCRIPTION >

Test item	Description		
INT LAMP	This test is able to check interior room lamp operation. The interior room lamp is activated after "ON" on CONSULT-III screen is touched.		
LCD	This test is able to check meter display information  • Engine start information displays when "BP N" on CONSULT-III screen is touched.  • Engine start information displays when "BP I" on CONSULT-III screen is touched.  • Key ID warning displays when "ID NG" on CONSULT-III screen is touched.  • Steering lock information displays when "ROTAT" on CONSULT-III screen is touched.  • P position warning displays when "SFT P" on CONSULT-III screen is touched.  • Intelligent Key insert information displays when "INSRT" on CONSULT-III screen is touched.  • Intelligent Key low battery warning displays when "BATT" on CONSULT-III screen is touched.  • Take away through window warning displays when "NO KY" on CONSULT-III screen is touched.  • Take away warning display when "OUTKEY" on CONSULT-III screen is touched.  • OFF position warning display when "LK WN" on CONSULT-III screen is touched.		
TRUNK/GLASS HATCH	NOTE: This item is displayed, but cannot be tested.		
FLASHER	This test is able to check hazard warning lamp operation.  The hazard warning lamps are activated after "LH/RH/OFF" on CONSULT-III screen is touched.		
HORN	This test is able to check horn operation. The horn is activated after "ON" on CONSULT-III screen is touched.		
P RANGE	This test is able to check A/T shift selector power supply A/T shift selector power is supplied when "ON" on CONSULT-III 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-III screen is touched.		
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-III 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-III 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-III screen is touched.		
KEY SLOT ILLUMI	This test is able to check key slot illumination operation. Key slot illumination blinks when "ON" on CONSULT-III screen is touched.		
TRUNK/BACK DOOR	This test is able to check back door opener actuator open operation. This actuator opens when "OPEN" on CONSULT-III screen is touched.		

# **COMB SW**

# COMB SW: CONSULT-III Function (BCM - COMB SW)

INFOID:0000000004498707

## **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	Displays the status of the front wiper stop position signal received from IPDM E/R via CAN communication.			

**BCS-29** Revision: 2009 December 2009 370Z

**BCS** 

### < SYSTEM DESCRIPTION >

Monitor item [UNIT]	Description
INT VOLUME [1 - 7]	Displays the status of wiper volume 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]	NOTE: The item is indicated, but not monitored.
RR FOG SW [Off/On]	Displays the status of the RR FOG switch in combination switch judged by BCM with the combination switch reading function.

# BCM

BCM: CONSULT-III Function (BCM - BCM)

INFOID:0000000004498908

#### **WORK SUPPORT**

Item	Description
RESET SETTING VALUE	Return a value set with Work Support of each system to a default value in factory shipment.

## **IMMU**

# IMMU : CONSULT-III Function (BCM - IMMU)

INFOID:0000000004747488

### **DATA MONITOR**

Monitor item	Content
CONFRM ID ALL	
CONFIRM ID4	
CONFIRM ID3	Indicates [YET] at all time. Switches to [DONE] when a registered Intelligent Key is inserted into the key slot.
CONFIRM ID2	
CONFIRM ID1	
TP 4	Indicates the number of IDs that are registered.
TP 3	
TP 2	- Indicates the number of ibs that are registered.
TP 1	
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch.
KEY SW -SLOT	Indicates [ON/OFF] condition of key slot.

### **ACTIVE TEST**

### < SYSTEM DESCRIPTION >

Test item	Description
THEFT IND	This test is able to check security indicator lamp operation.  The lamp is turned on when "ON" on CONSULT-III screen touched.

# **BATTERY SAVER**

# BATTERY SAVER : CONSULT-III Function (BCM - BATTERY SAVER)

INFOID:0000000004747491

## **WORK SUPPORT**

Service item	Setting item		Setting
BATTERY SAVER SET	On*	With the exterior lamp battery saver function	
BATTERT SAVER SET	Off	Without the exterior lamp battery saver function	
ROOM LAMP BAT SAV SET	On*	With the in	nterior room lamp battery saver function
ROOM LAWF BAT SAV SET	Off	Without the interior room lamp battery saver function	
ROOM LAMP TIMER SET	MODE 1*	30 min.	Sets the interior room lamp battery saver timer operating
NOOM LAMI TIMEN SET	MODE 2	60 min.	time.

<sup>\*:</sup> Factory 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)
REQ SW-RR [On/Off]	NOTE:
REQ SW-RL [On/Off]	The item is indicated, but not monitored.
PUSH SW [On/Off]	The switch status input from push-button ignition switch
ACC RLY-F/B [On/Off]	NOTE: The item is indicated, but not monitored.
KEY SW-SLOT [On/Off]	Key switch status input from key slot
UNLK SEN-DR [On/Off]	Driver door unlock status input from unlock sensor
DOOR SW-DR [On/Off]	The switch status input driver side front door switch
DOOR SW-AS [On/Off]	The switch status input from passenger side door switch
DOOR SW-RR [On/Off]	NOTE:
DOOR SW-RL [On/Off]	The item is indicated, but not monitored.
DOOR SW-BK [On/Off]	The switch status input from back door switch
CDL LOCK SW [On/Off]	Lock switch status received from the door lock and unlock switch
CDL UNLOCK SW [On/Off]	Unlock switch status received from the door lock and unlock switch

Н

G

Α

В

D

Е

F

K

L

BCS

Ν

0

Ρ

### < SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
KEY CYL LK-SW [On/Off]	Lock switch status received from key cylinder switch
KEY CYL UN-SW [On/Off]	Unlock switch status received from key cylinder switch
TRNK/HAT MNTR [On/Off]	NOTE: The item is indicated, but not monitored.
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.*

<sup>\*:</sup> Each lamp switch is in ON position.

### **TRUNK**

# TRUNK: CONSULT-III Function (BCM - TRUNK)

INFOID:0000000004747486

#### **BCM CONSULT-III FUNCTION**

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description	
DATA MONITOR	The BCM input/output signals are displayed.	
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.	

### **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.	
KEY CYL SW-TR	NOTE: This item is displayed, but cannot be monitored.	
TR CANCEL SW	NOTE: This item is displayed, but cannot be monitored.	
TR/BD OPEN SW	Indicates [ON/OFF] condition of back door opener switch.	
TRNK/HAT MNTR	NOTE: This item is displayed, but cannot be monitored.	
RKE-TR/BD	NOTE: This item is displayed, but cannot be monitored.	

### **ACTIVE TEST**

Test item	Description	
TRUNK/GLASS HATCH	NOTE: This item is displayed, but cannot be monitored.	

## THEFT ALM

### < SYSTEM DESCRIPTION >

# THEFT ALM: CONSULT-III Function (BCM - THEFT)

INFOID:0000000004747487

Α

В

C

D

Е

F

G

Н

#### **DATA MONITOR**

Monitored Item	Description		
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 -RR	NOTE: This is displayed even when it is not equipped.		
REQ SW -RL	NOTE: This is displayed even when it is not equipped.		
REQ SW -BD/TR	Indicates [ON/OFF] condition of back door 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 driver side door switch.		
DOOR SW-AS	Indicates [ON/OFF] condition of passenger side door switch.		
DOOR SW-RR	NOTE: This is displayed even when it is not equipped.		
DOOR SW-RL	NOTE: This is displayed even when it is not equipped.		
DOOR SW-BK	Indicates [ON/OFF] condition of back door switch.		
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.		
TR/BD OPEN SW	Indicates [ON/OFF] condition of back door opener switch.		
TRNK/HAT MNTR	Indicates [ON/OFF] condition of back door.		
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	NOTE: This is displayed even when it is not equipped.		

### **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-III screen.	

### **ACTIVE TEST**

Test Item	Description	
THEFT IND	This test is able to check security indicator lamp operation. The lamp is turned on when "ON" on CONSULT-III screen is touched.	
VEHICLE SECURITY HORN	This test is able to check vehicle security horn operation. The horns are activated for 0.5 seconds after "ON" on CONSULT-III screen is touched.	
HEADLAMP(HI)	This test is able to check vehicle security lamp operation. The headlamps are activated for 0.5 so onds after "ON" on CONSULT-III screen is touched.	
FLASHER	This test is able to check vehicle security hazard lamp operation. The hazard lamps are activated after "ON" on CONSULT-III screen is touched.	

# **RETAINED PWR**

Revision: 2009 December **BCS-33** 2009 370Z

BCS

K

0

Р

#### < SYSTEM DESCRIPTION >

## RETAINED PWR: CONSULT-III Function (BCM - RETAINED PWR)

INFOID:0000000004747733

#### Data monitor

Monitor Item	Description	
DOOR SW-DR	Indicates [ON/OFF] condition of driver side door switch.	
DOOR SW-AS	Indicates [ON/OFF] condition of passenger side door switch.	

### SIGNAL BUFFER

## SIGNAL BUFFER: CONSULT-III Function (BCM - SIGNAL BUFFER)

INFOID:0000000004498710

#### 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	Opera- tion	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 in the combination meter.

## AIR PRESSURE MONITOR

# AIR PRESSURE MONITOR: Diagnosis Description

INFOID:0000000004747496

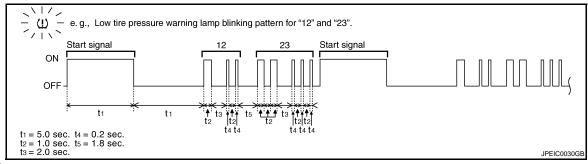
#### DESCRIPTION

During driving, the transmitter installed at each road wheel transmits the tire pressure information signal to the receiver. The receiver receives the tire pressure signal and transmits it to the BCM. The BCM judges whether or not the tire pressure is OK based on the tire pressure information signal, and if it judges that the tire pressure is low, it transmits the information via CAN communication to the combination meter.

After receiving the tire pressure information via CAN communication from the BCM, the combination meter illuminates the low tire pressure warning lamp and displays.

#### SELF DIAGNOSTIC PROCEDURE

- 1. Initiate diagnosis mode by short-circuiting the low tire pressure warning check switch to the ground.
- 2. The blinking pattern of the low tire pressure warning lamp indicates the conditions of the malfunction.



#### NOTE:

If the low tire pressure warning lamp is blinking repeatedly at 5 Hz, there is no malfunction occurring in the system.

## < SYSTEM DESCRIPTION >

Blinking pattern	Items	Diagnostic items detected when	Check item	ı
15	Tire pressure value (Front LH)	Front LH tire pressure drops to 189.6 kPa (1.9 kg/cm <sup>2</sup> , 27 psi) or less.		
16	Tire pressure value (Front RH)	Front RH tire pressure drops to 189.6 kPa (1.9 kg/cm², 27 psi) or less.	WIT 40	
17	Tire pressure value (Rear RH)	Rear RH tire pressure drops to 189.6 kPa (1.9 kg/cm <sup>2</sup> , 27 psi) or less.	<u>WT-16</u>	
18	Tire pressure value (Rear LH)	Rear LH tire pressure drops to 189.6 kPa (1.9 kg/cm <sup>2</sup> , 27 psi) or less.	_	(
21	Transmitter no data (Front LH)	Data from front LH transmitter cannot be received.		
22	Transmitter no data (Front RH)	Data from front RH transmitter cannot be received.	) N/T 40	
23	Transmitter no data (Rear RH)	Data from rear RH transmitter cannot be received.	<u>WT-18</u>	
24	Transmitter no data (Rear LH)	Data from rear LH transmitter cannot be received.	_	
31	Transmitter checksum error (Front LH)	Checksum data from front LH transmitter is malfunctioning.		
32	Transmitter checksum error (Front RH)	Checksum data from front RH transmitter is malfunctioning.	WT-21	
33	Transmitter checksum error (Rear RH)	Checksum data from rear RH transmitter is malfunctioning.	<u>vv 1-2 1</u>	
34	Transmitter checksum error (Rear LH)	Checksum data from rear LH transmitter is malfunctioning.		(
35	Transmitter pressure data error (Front LH)	Air pressure data from front LH transmitter is malfunction.		
36	Transmitter pressure data error (Front RH)	Air pressure data from front RH transmitter is malfunction.	W/T-24	
37	Transmitter pressure data error (Rear RH)	Air pressure data from rear RH transmitter is malfunction.	<u>WT-24</u>	
38	Transmitter pressure data error (Rear LH)	Air pressure data from rear LH transmitter is malfunction.		
41	Transmitter function code error (Front LH)	Function code data from front LH transmitter is malfunction.		,
42	Transmitter function code error (Front RH)	Function code data from front RH transmitter is malfunction.	WT-26	
43	Transmitter function code error (Rear RH)	Function code data from rear RH transmitter is malfunction.	<u> </u>	
44	Transmitter function code error (Rear LH)	Function code data from rear LH transmitter is malfunction.		
45	Transmitter battery voltage low (Front LH)	Battery voltage of front LH transmitter drops.		В
46	Transmitter battery voltage low (Front RH)	Battery voltage of front RH transmitter drops.	WT-29	
47	Transmitter battery voltage low (Rear RH)	Battery voltage of rear RH transmitter drops.	<u>vv 1-23</u>	I
48	Transmitter battery voltage low (Rear LH)	Battery voltage of rear LH transmitter drops.		(
52	Vehicle speed signal error	Vehicle speed signal error.	<u>WT-32</u>	
53	Control unit	Tire pressure monitoring system malfunction in BCM.	<u>WT-34</u>	
o blinking	Tire pressure warning check switch	Tire pressure warning switch circuit is open.		

### **ERASE SELF-DIAGNOSIS**

After performing self-diagnosis by short-circuiting the tire pressure warning check switch to the body, turn the ignition switch OFF.

#### < SYSTEM DESCRIPTION >

### AIR PRESSURE MONITOR: CONSULT-III Function

INFOID:0000000004747497

#### **FUNCTION**

The diagnosis functions (main functions) include the following: "WORK SUPPORT", "SELF DIAGNOSTIC RESULT", "DATA MONITOR" and "ACTIVE TEST".

Diagnostic test mode	Function	
Work support	In this mode, it is possible to make quick and accurate adjustments by following the instructions on the CONSULT-III display.	
Self diagnostic result	Receives self-diagnosis results from the low tire pressure warning control unit, and indicates DTCs and the number of malfunctions.	
Data monitor	Receives input/output signals from the low tire pressure warning control unit and indicates and stores them to facilitate locating the causes of malfunctions.	
Active test	Transmits command to the low tire pressure warning control unit to change output signals and check operation of output system.	

#### **WORK SUPPORT MODE**

Refer to WT-6, "ID REGISTRATION PROCEDURE: Special Repair Requirement".

#### SELF-DIAG RESULTS MODE

Refer to WT-77, "DTC Index".

#### DATA MONITOR MODE

Screen of data monitor mode is displayed.

#### NOTE:

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

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

Monitor item (Unit)	Remark	
AIR PRESS FL (kPa), (kg/cm²), (Psi)		
AIR PRESS FR (kPa), (kg/cm <sup>2</sup> ), (Psi)	Air pressure of tires	
AIR PRESS RR (kPa), (kg/cm <sup>2</sup> ), (Psi)		
AIR PRESS RL (kPa), (kg/cm <sup>2</sup> ), (Psi)		
ID REGST FL1		
ID REGST FR1	ID is registered: Done	
ID REGST RR1	ID is not registered: Yet	
ID REGST RL1		
WARNING LAMP	Low tire pressure warning lamp ON: On Low tire pressure warning lamp OFF: Off	
BUZZER	Combination meter buzzer ON: On Combination meter buzzer OFF: Off	

#### 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-III.

#### **ACTIVE TEST MODE**

#### NOTE:

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

TEST ITEM LIST

## **DIAGNOSIS SYSTEM (BCM)**

### < SYSTEM DESCRIPTION >

Test item Content	
WARNING LAMP	This test is able to check to check that the low tire pressure warning lamp turns on.
ID REGIST WARNING	This test is able to check to check that the buzzer sounds or the low tire pressure warning lamp turns on.
FLASHER	This test is able to check to check that each turn signal lamp turns on.
HORN	This test is able to check to check that the horn sounds.

Α

С

В

D

Е

F

G

Н

J

Κ

L

BCS

Ν

0

Р

#### **U1000 CAN COMM CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

## DTC/CIRCUIT DIAGNOSIS

### U1000 CAN COMM CIRCUIT

Description INFOID:000000004455822

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H-line, CAN L-line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart. Refer to LAN-23, "CAN Communication Signal Chart".

DTC Logic

#### DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC Detection Condition	Possible cause
U1000	CAN COMM	When BCM cannot communicate CAN communication signal continuously for 2 seconds or more.	CAN communication system

### Diagnosis Procedure

INFOID:0000000004455824

### 1.PERFORM SELF DIAGNOSTIC

- 1. Turn ignition switch ON and wait for 2 seconds or more.
- 2. Check "Self Diagnostic Result".

#### Is DTC "U1000" displayed?

YES >> Refer to LAN-14, "Trouble Diagnosis Flow Chart".

NO >> Refer to GI-39, "Intermittent Incident".

### **U1010 CONTROL UNIT (CAN)**

### < DTC/CIRCUIT DIAGNOSIS >

## U1010 CONTROL UNIT (CAN)

DTC Logic

### DTC DETECTION LOGIC

DTC	CONSULT-III display de- scription	DTC Detection Condition	Possible cause
U1010	CONTROL UNIT(CAN)	BCM detected internal CAN communication circuit malfunction.	BCM

## Diagnosis Procedure

INFOID:0000000004455826

## 1.REPLACE BCM

When DTC "U1010" is detected, replace BCM.

>> Replace BCM. Refer to BCS-84, "Exploded View".

F

Α

В

C

D

Е

G

Н

Κ

L

### BCS

Ν

0

Р

#### **U0415 VEHICLE SPEED SIG**

#### < DTC/CIRCUIT DIAGNOSIS >

#### U0415 VEHICLE SPEED SIG

Description INFOID:000000004455827

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	TC CONSULT-III display description DTC Detection Condition		Probable cause
U0415	VEHICLE SPEED	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 Diagnostic Result" of CONSULT-III, when passed 2 seconds or more after the ignition switch is turned ON.

#### Is any DTC detected?

YES >> Refer to BCS-40, "Diagnosis Procedure".

NO >> INSPECTION END

#### Diagnosis Procedure

INFOID:0000000004455829

## $1.\mathsf{abs}$ actuator and electric unit (control unit) self-diag results

Perform "Self-Diagnostic Result" of ABS actuator and electric unit (control unit) with CONSULT-III. Refer to BRC-22, "CONSULT-III Function".

#### Is any DTC detected?

YES >> Repair or replace the malfunctioning part.

NO >> Replace BCM. Refer to BCS-84, "Exploded View".

#### **B2562 LOW VOLTAGE**

#### < DTC/CIRCUIT DIAGNOSIS >

### **B2562 LOW VOLTAGE**

DTC Logic

#### DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC Detection Condition	Possible cause	
B2562	LOW VOLTAGE	When the power supply voltage to BCM remains less than 8.8 V for 120 seconds or more	Harness or connector (power supply circuit)	

#### DTC CONFIRMATION PROCEDURE

## 1. DTC CONFIRMATION

- 1. Erase DTC.
- 2. Turn ignition switch OFF.
- Perform the "Self Diagnostic Result" of CONSULT-III, when passed 120 seconds or more after the ignition switch is turned ON.

#### Is any DTC detected?

YES >> Refer to BCS-41, "Diagnosis Procedure".

NO >> INSPECTION END

### Diagnosis Procedure

1. CHECK POWER SUPPLY CIRCUIT

Check BCM power supply circuit. Refer to BCS-42, "Diagnosis Procedure".

#### Is the circuit normal?

YES >> Replace BCM. Refer to BCS-84, "Exploded View".

NO >> Repair the malfunctioning part.

BCS

K

Α

В

D

Е

F

Н

INFOID:0000000004455831

Ν

Р

2009 370Z

Revision: 2009 December BCS-41

#### POWER SUPPLY AND GROUND CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

### POWER SUPPLY AND GROUND CIRCUIT

### Diagnosis Procedure

INFOID:0000000004455832

### 1. CHECK FUSE AND FUSIBLE LINK

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

Signal name	Fuse and fusible link No.	
Battery power supply	К	
battery power suppry	10	

#### Is the fuse fusing?

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

NO >> GO TO 2.

### 2. CHECK POWER SUPPLY CIRCUIT

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

(	Voltage		
В	СМ		(Approx.)
Connector	Terminal	Ground	
M118	1	Giodila	Pottory voltage
M119	11		Battery voltage

### Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

### 3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Connector Terminal		Continuity	
M119	13		Existed	

#### Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

#### **COMBINATION SWITCH INPUT CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

## **COMBINATION SWITCH INPUT CIRCUIT**

### Diagnosis Procedure

#### INFOID:0000000004455833

Α

В

D

Е

## 1. CHECK INPUT 1 - 5 SYSTEM CIRCUIT FOR OPEN

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

System	BCM		Combinat	Continuity	
System	Connector	Terminal	Connector	Terminal	Continuity
INPUT 1		107		11	
INPUT 2		109		9	
INPUT 3	M122	88	M33	7	Existed
INPUT 4		108		10	
INPUT 5		87		13	

#### Does continuity exist?

YES >> GO TO 2.

NO >> Repair the harnesses or connectors.

## 2.CHECK INPUT 1 - 5 SYSTEM CIRCUIT FOR SHORT

Check for continuity between BCM harness connector and ground.

Custom	ВСМ			Continuity
System	Connector	Terminal		Continuity
INPUT 1		107		
INPUT 2	M122	109	Ground	
INPUT 3		88		Not existed
INPUT 4		108		
INPUT 5		87		

#### Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> GO TO 3.

## 3.CHECK BCM OUTPUT VOLTAGE

1. Connect the BCM connector.

2. Check voltage between BCM harness connector and ground.

System	(+)		(-)	Voltage
System	BCM			(Approx.)
	Connector	Terminal		
INPUT 1		107		
INPUT 2		109	Ground	Refer to BCS-
INPUT 3	M122	88		47, "Reference Value".
INPUT 4		108		
INPUT 5		87		

#### Is the measurement value normal?

YES >> GO TO 4.

NO >> Replace BCM. Refer to BCS-84, "Exploded View".

BCS

Ν

C

### **COMBINATION SWITCH INPUT CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

## 4. CHECK BCM INPUT SIGNAL

- 1. Connect the combination switch connector.
- 2. 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		107		
INPUT 2		109	Ground	Refer to BCS-
INPUT 3	M122	88		47, "Refer-
INPUT 4		108		ence Value".
INPUT 5	•	87		

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

YES >> Replace BCM. Refer to BCS-84, "Exploded View".

NO >> Replace the combination switch.

#### **COMBINATION SWITCH OUTPUT CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

### COMBINATION SWITCH OUTPUT CIRCUIT

### Diagnosis Procedure

#### INFOID:0000000004455834

Α

В

D

Е

F

Н

### 1. CHECK OUTPUT 1 - 5 SYSTEM CIRCUIT FOR OPEN

- 1. Turn the ignition switch OFF.
- 2. Disconnect the BCM and combination switch connectors.

#### NOTE:

BCM connector disconnects M123 only.

3. Check continuity between BCM harness connector and combination switch harness connector.

System	ВС	M	Combinat	Continuity	
System	Connector	Terminal	Connector	Terminal	Continuity
OUTPUT 1		143		12	
OUTPUT 2		144		14	
OUTPUT 3	M123	145	M33	5	Existed
OUTPUT 4		146		2	
OUTPUT 5		142		8	

#### Does continuity exist?

YES >> GO TO 2.

NO >> Repair the harnesses or connectors.

## 2.CHECK OUTPUT 1 - 5 SYSTEM CIRCUIT FOR SHORT

Check for continuity between BCM harness connector and ground.

System	В	CM		Continuity
	Connector	Connector Terminal		Continuity
OUTPUT 1		143		
OUTPUT 2		144	Ground	
OUTPUT 3	M123	145		Not existed
OUTPUT 4		146		
OUTPUT 5		142		

#### Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> GO TO 3.

## ${f 3.}$ check combination switch internal circuit

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

#### NOTE:

Check that the combination switch outputs a signal from combination switch input system.

BCS

Ν

Р

Revision: 2009 December **BCS-45** 2009 370Z

K

		Terminals				
System	(+)	)	(-)	Value (Approx.)		
System	Combination switch			Value (Approx.)		
	Connector	Terminal				
OUTPUT 1		12				
OUTPUT 2		14	0	(V) 15		
OUTPUT 3		5	Ground	10		
OUTPUT 4	M33	2		0		
OUTPUT 5		8		2 ms JPMIA0041GB		

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

>> Replace BCM. Refer to  $\underline{\sf BCS-84,"Exploded~View"}.$  >> Replace the combination switch. YES

NO

< ECU DIAGNOSIS INFORMATION >

## **ECU DIAGNOSIS INFORMATION**

## **BCM (BODY CONTROL MODULE)**

Reference Value

#### VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
I IX WIF LIX I II	Front wiper switch HI	On
ED WIDED I OW	Other than front wiper switch LO	Off
FR WIPER LOW	Front wiper switch LO	On
ED WACHED OW	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
ED WIDED INT	Other than front wiper switch INT	Off
FR WIPER INT	Front wiper switch INT	On
ED WIDED CTOD	Front wiper is not in STOP position	Off
FR WIPER STOP	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
TUDNI CIONAL D	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
TUDN CIONAL I	Other than turn signal switch LH	Off
TURN SIGNAL L	Turn signal switch LH	On
TAIL LAMP OW	Other than lighting switch 1ST and 2ND	Off
AIL LAMP SW	Lighting switch 1ST or 2ND	On
LII DE AM OW	Other than lighting switch HI	Off
HI BEAM SW	Lighting switch HI	On
	Other than lighting switch 2ND	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
ALITO LIQUIT 0144	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
FR FOG SW	NOTE: The item is indicated, but not monitored.	Off
DD 500 0W	Rear fog lamp switch OFF	Off
RR FOG SW	Rear fog lamp switch ON	On
D00D 0W DD	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
DOOD OW : 2	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
DOOR SW-RR	NOTE: The item is indicated, but not monitored.	Off

Revision: 2009 December **BCS-47** 2009 370Z

0

D

В

Α

E

G

F

Н

J

l

K

BCS

Ν

 $\circ$ 

Ρ

Monitor Item	Condition	Value/Status
DOOR SW-RL	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-BK	Back door closed	Off
DOOK SW-DK	Back door opened	On
CDL LOCK SW	Other than door lock and unlock switch LOCK	Off
CDL LOCK SW	Door lock and unlock switch LOCK	On
CDL UNLOCK SW	Other than door lock and unlock switch UNLOCK	Off
CDL UNLOCK 3W	Door lock and unlock switch UNLOCK	On
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off
ALT OTE EN-SW	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
VET CTL OIN-SVV	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
IAZADD CW	Hazard switch is OFF	Off
HAZARD SW	Hazard switch is ON	On
REAR DEF SW	Rear window defogger switch OFF	Off
NOTE: At models with NAVI this item s not monitored.	Rear window defogger switch ON	On
H/L WASH SW	NOTE: The item is indicated, but not monitored.	Off
FR CANCEL SW	NOTE: The item is indicated, but not monitored.	Off
TR/BD OPEN SW	Back door opener switch OFF	Off
TIVED OF EN OW	While the back door opener switch is turned ON	On
FRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
RKE-LOCK	LOCK button of the Intelligent Key is not pressed	Off
KKE-LOCK	LOCK button of the Intelligent Key is pressed	On
DIVE LINII OOK	UNLOCK button of the Intelligent Key is not pressed	Off
RKE-UNLOCK	UNLOCK button of the Intelligent Key is pressed	On
RKE-TR/BD	NOTE: The item is indicated, but not monitored.	Off
DICE DANIO	PANIC button of the Intelligent Key is not pressed	Off
RKE-PANIC	PANIC button of the Intelligent Key is pressed	On
OVE DAM ODEN	UNLOCK button of the Intelligent Key is not pressed	Off
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is pressed and held	On
	LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously	Off
RKE-MODE CHG	LOCK/UNLOCK button of the Intelligent Key is pressed and held simultaneously	On
ODTION OFFICES	Bright outside of the vehicle	Close to 5 V
OPTICAL SENSOR	Dark outside of the vehicle	Close to 0 V
	Driver door request switch is not pressed	Off
REQ SW -DR	Driver door request switch is pressed	On
	Passenger door request switch is not pressed	Off
REQ SW -AS	Passenger door request switch is pressed	On

Monitor Item	Condition	Value/Status	,
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off	<del>-</del> /-
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off	E
REQ SW -BD/TR	Back door request switch is not pressed	Off	
KLQ OW -DD/TK	Back door request switch is pressed	On	
DUCHEW	Push-button ignition switch (push switch) is not pressed	Off	_ `
PUSH SW	Push-button ignition switch (push switch) is pressed	On	
ON DIVO E/D	Ignition switch in OFF or ACC position	Off	_
GN RLY2 -F/B	Ignition switch in ON position	On	
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off	-
CLUCH SW	The clutch pedal is not depressed	Off	<del>_</del>
NOTE: At A/T models this item is not monitored.	The clutch pedal is depressed	On	-
DDAKE CW 4	Stop lamp switch 1 signal circuit is open	Off	_
BRAKE SW 1	Stop lamp switch 1 signal circuit is normal	On	(
	The brake pedal is not depressed	Off	_
BRAKE SW 2	The brake pedal is depressed	On	-
DETE/CANCL SW NOTE: At M/T models with SynchroR- ev Match mode this item is not monitored.	Selector lever in P position (A/T models)     The clutch pedal is depressed (M/T models without SynchroRev Match mode)	Off	_
	Selector lever in any position other than P (A/T models)     The clutch pedal is not depressed (M/T models without SynchroRev Match mode)	On	_
SFT PN/N SW NOTE:	<ul> <li>Selector lever in any position other than P and N (A/T models)</li> <li>Control lever in any position other than neutral position (M/T models with SynchroRev Match mode)</li> </ul>	Off	,
At M/T models without SynchroRev Match mode this item s not monitored.	Selector lever in P or N position (A/T models)     Control lever in neutral position (M/T models with SynchroRev Match mode)	On	-
S/L -LOCK	Steering is unlocked	Off	_
5/L -LOCK	Steering is locked	On	
2/1 1 1 1 1 2 2 1 2	Steering is locked	Off	
S/L -UNLOCK	Steering is unlocked	On	В
2/L DELAY E/2	Ignition switch in OFF or ACC position	Off	
S/L RELAY-F/B	Ignition switch in ON position	On	-
	Driver door is unlocked	Off	_
JNLK SEN -DR	Driver door is locked	On	_
	Push-button ignition switch (push-switch) is not pressed	Off	_ (
PUSH SW -IPDM	Push-button ignition switch (push-switch) is pressed	On	_
	Ignition switch in OFF or ACC position	Off	_
GN RLY1 -F/B	Ignition switch in ON position	On	-
	Selector lever in any position other than P	Off	_
DETE SW -IPDM	Selector lever in P position	On	_

Monitor Item	Condition	Value/Status
SFT PN -IPDM	<ul> <li>Selector lever in any position other than P and N (A/T models)</li> <li>The clutch pedal is not depressed (M/T models)</li> </ul>	Off
SEL EN -IEDIN	<ul> <li>Selector lever in P or N position (A/T models)</li> <li>The clutch pedal is depressed (M/T models)</li> </ul>	On
SFT P -MET	Selector lever in any position other than P	Off
SFI F-WEI	Selector lever in P position	On
CET NI MET	Selector lever in any position other than N	Off
SFT N -MET	Selector lever in N position	On
	Engine stopped	Stop
ENGINE CTATE	While the engine stalls	Stall
ENGINE STATE	At engine cranking	Crank
	Engine running	Run
0.11.1.0.01.1.1.1.1.1	Steering is unlocked	Off
S/L LOCK-IPDM	Steering is locked	On
0// 1000// 1000/	Steering is locked	Off
S/L UNLK-IPDM	Steering is unlocked	On
0/L DEL AV DE0	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK	Off
S/L RELAY-REQ	Steering lock system are not the LOCK condition or the changing condition from LOCK to UNLOCK	On
VEH SPEED 1	While driving	Equivalent to speedom eter reading
VEH SPEED 2	While driving	Equivalent to speedom eter reading
	Driver door is locked	LOCK
OOR STAT-DR	Wait with selective UNLOCK operation (60 seconds)	READY
	Driver door is unlocked	UNLOCK
	Passenger door is locked	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (60 seconds)	READY
	Passenger door is unlocked	UNLOCK
ID OK ELAC	Steering is locked	Reset
ID OK FLAG	Steering is unlocked	Set
DDMT ENG OTDT	The engine start is prohibited	Reset
PRMT ENG STRT	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
	The Intelligent Key is not inserted into key slot	Off
KEY SW -SLOT	The Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency o the Intelligent Key
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	_
CONEDMID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
CONFRM ID ALL	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done

### < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
CONFIDM ID4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
CONFIRM ID4	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done
CONFIRM ID3	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet
CONFIRMIDS	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
CONTINUIDZ	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done
CONFIRM ID1	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
CONTINUED I	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done
TP 4	The ID of fourth Intelligent Key is not registered to BCM	Yet
II <del>4</del>	The ID of fourth Intelligent Key is registered to BCM	Done
ΓP 3	The ID of third Intelligent Key is not registered to BCM	Yet
ir s	The ID of third Intelligent Key is registered to BCM	Done
-	The ID of second Intelligent Key is not registered to BCM	Yet
TP 2	The ID of second Intelligent Key is registered to BCM	Done
	The ID of first Intelligent Key is not registered to BCM	Yet
ГР 1	The ID of first Intelligent Key is registered to BCM	Done
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
D REGST FL1	ID of front LH tire transmitter is registered	Done
D REGST FLT	ID of front LH tire transmitter is not registered	Yet
D DECCT ED4	ID of front RH tire transmitter is registered	Done
D REGST FR1	ID of front RH tire transmitter is not registered	Yet
D DECCT DD4	ID of rear RH tire transmitter is registered	Done
D REGST RR1	ID of rear RH tire transmitter is not registered	Yet
D DECCE DI 4	ID of rear LH tire transmitter is registered	Done
D REGST RL1	ID of rear LH tire transmitter is not registered	Yet
A/A DAUNIO I ARAD	Tire pressure indicator OFF	Off
WARNING LAMP	Tire pressure indicator ON	On
0117750	Tire pressure warning alarm is not sounding	Off
BUZZER	Tire pressure warning alarm is sounding	On

Revision: 2009 December **BCS-51** 2009 370Z

A

В

D

С

Е

F

G

Н

1

K

L

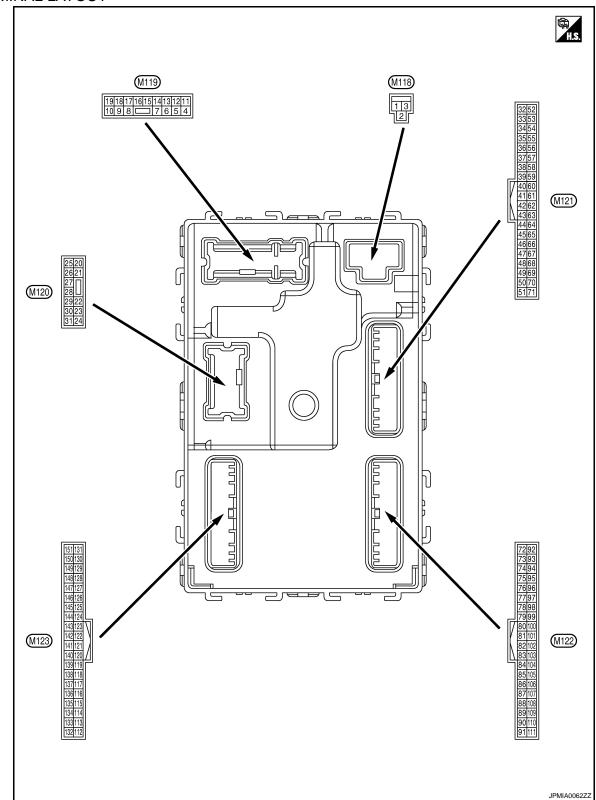
BCS

N I

0

Р

### TERMINAL LAYOUT



PHYSICAL VALUES

### < ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description			Condition	Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)	
1 (W)	Ground	Battery power supply	Input	Ignition switch (	OFF	Battery voltage	
2 (W)	Ground	P/W power supply (BAT)	Output	Ignition switch (	OFF	12 V	-
3 (Y)	Ground	P/W power supply (RAP)	Output	Ignition switch (	NC	12 V	-
				Interior room lamp battery saver is activated. (Cuts the interior room lamp power supply)		0 V	-
4 (R)	Ground	Interior room lamp power supply	Output	vated.	mp battery saver is not acti- erior room lamp power sup-	12 V	-
5	Crownd	Passenger door UN-	Outenit	Passenger	UNLOCK (Actuator is activated)	12 V	-
(G)	Ground	LOCK	Output	door	Other than UNLOCK (Actuator is not activated)	0 V	-
8	One and	All doors, fuel lid	0	Output All doors, fuel	LOCK (Actuator is activated)	12 V	-
(V)	Ground	LOCK	Output lid C	Other than LOCK (Actuator is not activated)	0 V	-	
9		Driver door, fuel lid UNLOCK	Output Driver door, fuel lid	UNLOCK (Actuator is activated)	12 V	-	
(G)	Ground				Other than UNLOCK (Actuator is not activated)	0 V	-
11 (BR)	Ground	Battery power supply	Input	Ignition switch (	OFF	Battery voltage	-
13 (B)	Ground	Ground	_	Ignition switch (	NC	0 V	-
					OFF	0 V	
4.4		Push-button ignition				NOTE: When the illumination brightening/dimming level is in the neutral position.	
14 (R)	Ground	switch illumination ground	Output	Tail lamp	ON	(V) 10 0 2 ms JSNIA0010GB	
15 (Y)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage	
(Y)		·			ACC	0 V	

Р

	nal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					Turn signal switch OFF	0 V
17 (W)	Ground	Turn signal RH (Front and side)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
					Turn signal switch OFF	0 V
18 (O)	Ground	Turn signal LH (Front and side)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E
19	Ground	Room lamp timer	Output	Interior room	OFF	12 V
(V)	Giodila	control	Output	lamp	ON	0 V
					Turn signal switch OFF	0 V
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s
					0.5.1	6.5 V
23	Ground	Back door open	Output	Back door	OPEN (Back door opener actuator is activated)	12 V
(L)	Ground	Back door open	Output	Back door	Other than OPEN (Back door opener actuator is not activated)	0 V
24* <sup>1</sup>	Ground	Rear fog lamp	Output	Rear fog lamp	OFF	0 V
(O)	Cround	Total log lamp	- Julpul	Todi log laliip	ON	12 V
					Turn signal switch OFF	0 V
25 (LG)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E
30	C===::-	Luggogo room lawa	O::4=::4	Luggage room	ON	0 V
(R)	Ground	Luggage room lamp	Output	lamp	OFF	12 V

	nal No. color)	Description			Condition	Value	Δ
+	-	Signal name	Input/ Output		Condition	(Approx.)	,
					When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	C
34 (G)	Ground	Luggage room antenna (–)	Output	Ignition switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	E
35				Output Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s	-  -
(R)	Ground	Luggage room anten- na (+)	OFF  When Intelligent Key is n		When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	ŀ L
38		Rear bumper anten-		When the back door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	B(
(B)	Ground	na (–)	Output	door request switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 0 1 s JMKIA0063GB	F

	nal No. color)	Description			O Pri	Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
39	When the back door request switch is oper-		When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB		
(W)	Giodila	na (+)	Cutput	switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
47	Ground	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	12 V
(V)		E/R) control		J	ON	0 V
			Output	Ignition switch	When selector lever is in P or N position	12 V
52	Ground	Starter relay control		ON (A/T mod- els)	When selector lever is not in P or N position	0 V
(SB)	Sibulia	danter rolay control		Ignition switch ON (M/T mod-	When the clutch pedal is depressed	Battery voltage
				els)	When the clutch pedal is not depressed	0 V
					ON (Pressed)	0 V
61 (W)	Ground	Back door request switch	Input	Back door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
64 (G)	Ground	Intelligent Key warn- ing buzzer	Output	Intelligent Key warning buzzer	Sounding	0 V
(G)		ing buzzei		warning buzzer	Not sounding	12 V
66 (R)	Ground	Back door switch	Input	Back door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (Decree)	11.8 V
					ON (Door open)	0 V

### < ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description			Condition	Value	А
+	-	Signal name	Input/ Output		Condition	(Approx.)	
					Pressed	0 V	В
67 (GR)	Ground	Back door opener switch	Input	Back door opener switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0011GB	C
72		Room antenna (–)		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	E F G
(L)	Ground	(Center console)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	Н
73	Ground	Room antenna (+)	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB	K L
(P)	Giouria	(Center console)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	N O

Revision: 2009 December BCS-57 2009 370Z

Ρ

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
74		Passenger door an-		When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(SB)	Ground	tenna (–)	Output	quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
75	Ground	Passenger door an-	Output	When the passenger door request switch is	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(BR)	Glound	tenna (+)	Сири	operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
76	Ground	Driver door antenna	Output	When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(V)	Ground	(-)	Culput	switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB

## < ECU DIAGNOSIS INFORMATION >

	nal No.	Description	I			Value
+	color)	Signal name	Input/ Output		Condition	(Approx.)
77	Ground	Driver door antenna	Output	When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(LG)	Ground	(+)	Output	switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
80 (GR)	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.
81 (W)	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.
82 (R)	Ground	Ignition relay [Fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V 12 V
83	Ground	Remote keyless entry	Input/	During waiting		(V) 15 10 5 1 ms 1 ms JMKIA0064GB
(GR)	Ground	receiver communication	Output	When operating gent Key	either button on the Intelli-	(V) 15 10 5 0 1 ms JMKIA0065GB

Ρ

	nal No.	Description				Value	
(Wire +	color)	Signal name	Input/ Output	Condition		(Approx.)	
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041G	
87 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch	Rear fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038G	
					Any of the conditions below with all switches OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 2  • Wiper intermittent dial 6  • Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040G	

	al No.	Description		O - m dittion		Value	
(Wire o	color)	Signal name	Input/ Output		Condition	(Approx.)	Δ
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	
88	Ground	Combination switch	Input	Combination	Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB	F
(V)		INPUT 3		switch	Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB	-  -
					Any of the conditions below with all switches OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 2  • Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V	J
89 (BR)	Ground	Push-button ignition switch (Push switch)	Input	Push-button ig- nition switch (push switch)	Pressed  Not pressed	0 V Battery voltage	ВС
90 (P)	Ground	CAN-L	Input/ Output		_	_	
91 (L)	Ground	CAN-H	Input/ Output		_	_	N
					OFF	0 V	
92 (LG)	Ground	Key slot illumination	Output	Key slot illumi- nation	Blinking	(V) 15 10 5 0 1 s	F
						6.5 V	

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
93 (V)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
					ON	0 V
95	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
(O)	Orouna	7100 Tolay obilitor	Odiput	ignition switch	ACC or ON	12 V
96* <sup>2</sup> (Y)	Ground	A/T shift selector (Detention switch) power supply	Output		_	12 V
97	Ground	Steering lock condi-	Input	Steering lock	LOCK status	0 V
(L)	Giodila	tion No. 1	IIIput	Steering lock	UNLOCK status	12 V
98	Ground	Steering lock condi-	Input	Steering lock	LOCK status	12 V
(P)	Giodila	tion No. 2	прис	Steering lock	UNLOCK status	0 V
		Selector lever P posi-			P position	0 V
99* <sup>3</sup>		tion switch (A/T models)		Selector lever	Any position other than P	12 V
(R)* <sup>2</sup> (BR)* <sup>4</sup>	Ground	Clutch pedal position switch (M/T models	Input	Input Clutch pedal	OFF (Clutch pedal is depressed)	0 V
,	without SynchroRev Match mode)		position switch	ON (Clutch pedal is not depressed)	Battery voltage	
					ON (Pressed)	0 V
100 (GR)	Ground	Passenger door request switch	Input	Passenger door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
					ON (Pressed)	0 V
101 (Y)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
102	Ground	Blower fan motor re-	Output	Ignition switch	OFF or ACC	0 V
(O)	Ciodila	lay control	Carpat	-gon ownor	ON	12 V
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch (	DFF	12 V
106	Ground	Steering lock unit	Output	Ignition switch	OFF or ACC	12 V
(W)	Ground	power supply	Output	iginuon switch	ON	0 V

### < ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value	
+	color)	Signal name	Input/ Output		Condition	(Approx.)	/
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB	]
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB	
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB	(  -
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB	
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V	В

Revision: 2009 December BCS-63 2009 370Z

	nal No.	Description				Value
(Wire +	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
108	Ground	Combination switch	Input	Combination	Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB
(R)	J. Santa	INPUT 4	mpa.	switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 2 ms JPMIA0036GB 1.3 V
					Any of the conditions below with all switches OFF  Wiper intermittent dial 1  Wiper intermittent dial 5  Wiper intermittent dial 6	(V) 15 10 5 0 2 ms JPMIA0039GB

	nal No.	Description				Value
+ (VVire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB
109 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB
					ON	0 V
110 (P)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	Value (Approx.)
					LOCK status	12 V
111 (Y)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK or UNLOCK	(V) 15 10 5 0 50 ms JMKIA0066GB
				For 15 seconds after UN- LOCK	12 V	
					15 seconds or later after UNLOCK	0 V
113	Ground	Optical sensor	Input	Ignition switch	When bright outside of the vehicle	Close to 5 V
(O)	Ground	Optical Serisor	прис	ON	When dark outside of the vehicle	Close to 0 V
114* <sup>5</sup>	Crownd	Clutch interlock	lanut	Clutchinterlock	OFF (Clutch pedal is not depressed)	0 V
(R)	Ground	switch	input	switch	ON (Clutch pedal is depressed)	Battery voltage
116 (SB)	Ground	Stop lamp switch 1	Input		_	Battery voltage
118	Ground	Stop lamp switch 2	Input	Stop lamp	OFF (Brake pedal is not depressed)	0 V
(P)			,	switch	ON (Brake pedal is depressed)	Battery voltage
119 (SB)	Ground	Driver side door lock assembly (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	(V) 15 10 5 0 10 ms JPMIA0012GB
					UNLOCK status (Unlock switch sensor ON)	0 V
121	Ground	Key slot switch	Innut	When the Intellig	gent Key is inserted into key	12 V
(R)	Giouna	Key SIOL SWILCH	Input	When the Intelli- key slot	gent Key is not inserted into	0 V
123	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
(W)	Cround	TOTA TOCUDACK	прис	iginion switch	ON	Battery voltage

	nal No.	Description	ı			Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) 15 10 5 0 10 ms
					ON (Door open)	11.8 V 0 V
130* <sup>6</sup> (L)	Ground	Rear window defog- ger switch	Input	Ignition switch ON	Rear window defogger switch OFF	(V) 15 10 5 0
					Rear window defogger switch ON	1.1 V 0 V
132 (Y)	Ground	Power window switch communication	Input/ Output	Ignition switch C	DN	(V) 15 10 5 0 10 ms JPMIA0013GB
				Ignition switch C	OFF or ACC	12 V
					ON (Tail lamps OFF)	9.5 V
				Duch howers in		NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level.
133 (G)	Ground	Push-button ignition switch illumination	Output	Push-button ig- nition switch il- lumination	ON (Tail lamps ON)	JPMIA0159GB
					OFF	0 V
134	Ground	LOCK indicator lamp	Output	LOCK indicator	OFF	Battery voltage
(GR)	Ciodila	2001 molocion lamp	Carput	lamp	ON	0 V
137 (P)	Ground	Receiver and sensor ground	Input	Ignition switch C	N	0 V
138	Cround	Receiver and sensor	Outside	lanition switch	OFF	0 V
(V)	Ground	power supply	Output	Ignition switch	ACC or ON	5.0 V

Terminal No. (Wire color)		Description				Value	
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)	
139	Ground	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
(L)	Clound	er communication	Output	ON	When receiving the signal from the transmitter	(V) 6 4 2 0 	
	Ground	Selector lever P/N position (A/T models)  Transmission range switch (M/T models with SynchroRev Match mode)		Selector lever	P or N position	12 V	
140* <sup>7</sup> (G)			Input		Except P and N positions	0 V	
				Ignition switch ON	Control lever in neutral position	Battery voltage	
					Control lever in any position other than neutral	0 V	
					ON	0 V	
141 (Y)	Ground	Security indicator	Output	Security indicator	Blinking	(V) 15 10 5 0 1 s JPMIA0014GB	
					OFF	12 V	
-					All switches OFF	0 V	
142 (O)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 1ST Lighting switch HI Lighting switch 2ND  Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0031GB	
					All a Sal OFF	10.7 V	
					All switches OFF (Wiper intermittent dial 4) Front wiper switch HI	0 V	
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	(Wiper intermittent dial 4)  Any of the conditions below with all switches OFF  Wiper intermittent dial 1  Wiper intermittent dial 2  Wiper intermittent dial 3  Wiper intermittent dial 6  Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0032GB	

Ρ

### < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4)	0 V
					Front washer switch ON (Wiper intermittent dial 4)	(V)
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	Any of the conditions below with all switches OFF  Wiper intermittent dial 1  Wiper intermittent dial 5  Wiper intermittent dial 6	10 5 0 2 ms JPMIA0033GB
						10.7 V
	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermit-tent dial 4)	All switches OFF	0 V
					Front wiper switch INT	0.0
					Front wiper switch LO	(V) 15
145					Lighting switch AUTO	10 5 0
(L)					Rear fog lamp switch ON	0
					All switches OFF	0 V
				Combination switch (Wiper intermittent dial 4)	Lighting switch 2ND	-
					Lighting switch PASS	(V)
146 (SB)	Ground	Combination switch OUTPUT 4	Output		Turn signal switch LH	15 10 5 0 2 ms JPMIA0035GB
149 (W)	Ground	Tire pressure warning check switch	Input		_	12 V
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 5 0 10 ms 11.8 V
					ON (Door open)	0 V
151 (G)	Ground	Rear window defog- ger relay control	Output	Rear window defogger	Active	0 V
	Cround				Not activated	Battery voltage

• \*1: For Canada

• \*2: A/T models

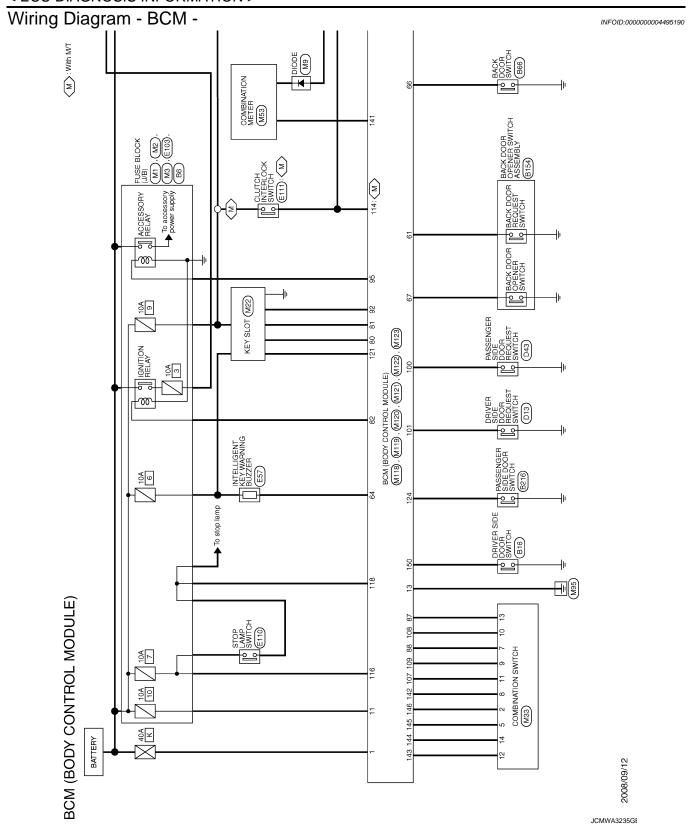
• \*3: Except M/T models with SynchroRev Match mode

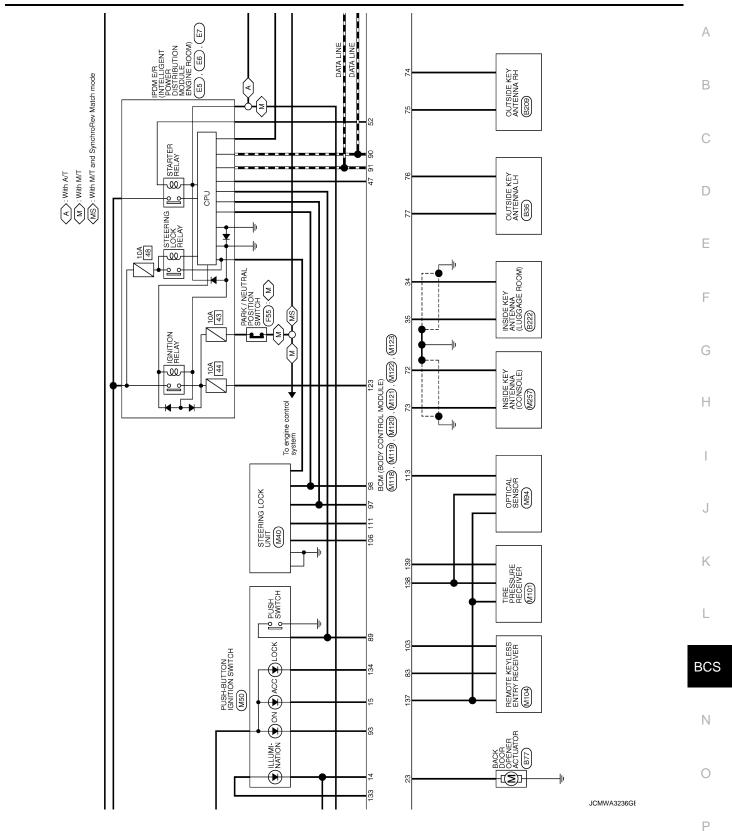
• \*4: M/T models without SynchroRev Match mode

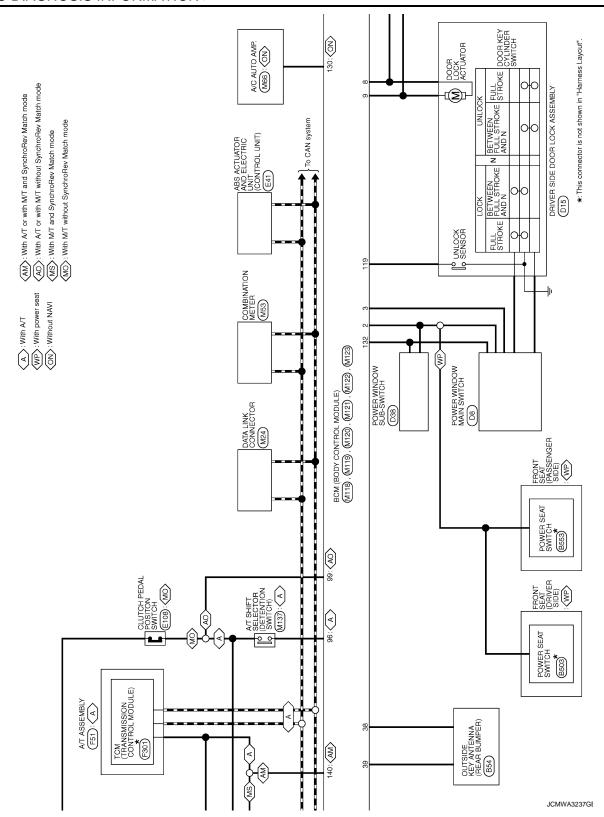
• \*5: M/T models

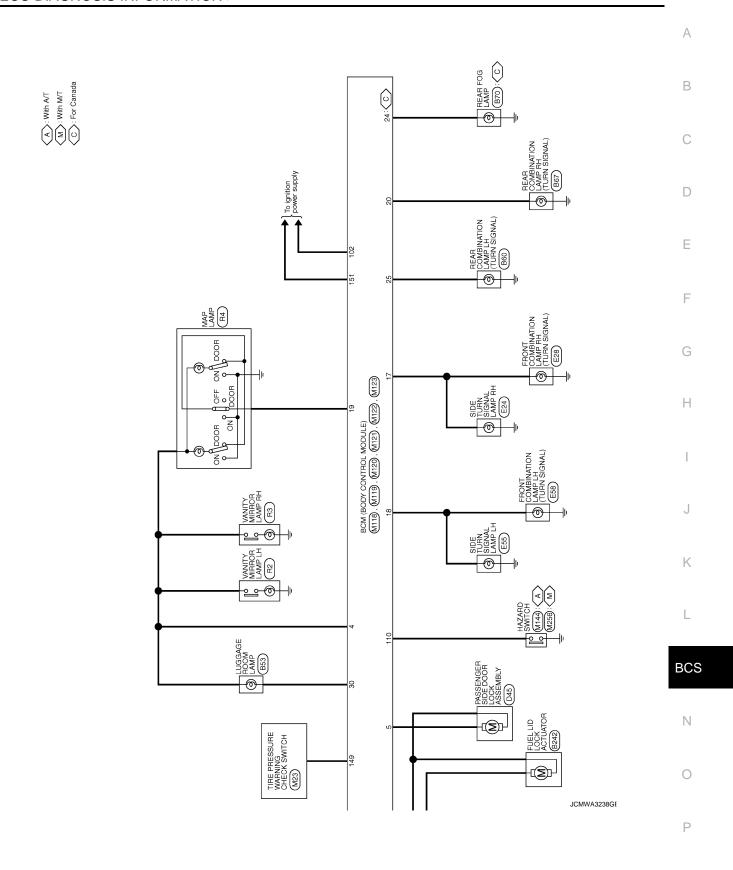
• \*6: Without NAVI

• \*7: Except M/T models without SynchroRev Match mode









BCM (B	/ (BOD	BCM (BODY CONTROL MODULE)  Sonnector No. M33	Connector No.	П	M118	Connector No.	M119	Connector No.	M120	
Connec		COMBINATION SWITCH	Connecto		BCM (BODY CONTROL MODULE)	Connector Name	BCM (BODY CONTROL MODULE)	Connector Name		
(Source)	Connector Type	I H I DF W-NH	Connector Type	7	Not B-LC	Connector Type	7	Connector Lype	NSIZFW-CS	
4	الثلث	7 8 9 10 11 12 13 14	H.S.		<u> </u>	H.S.	4 5 6 7 <u>8 9 10</u> 11 12 13 14 15 16 17 18 19	H.S.	20 21 <b>2</b> 2 23 24 25 26 27 28 29 30 31	
Terminal No. 2	of Wire SB	Signal Ne	Terminal No. 1	of Wire W	Signal Name [Specification]  BAT (F/L)  POWER WINDOW POWER SUPPLY(BAT)	Terminal Color No. of Wire 4 R 5 G		of of	Si.	υ Δ
r & 6	> 0 >	INPUT 3 OUTPUT 5 INPUT 2	m	<u></u>	POWER WINDOW POWER SUPPLY(RAP)	8 6 II	V ALL DOOR, FUEL LID LOCK OUTPUT  G DRIVER DOOR, FUEL LID UNLOCK OUTPUT  BAT (FUSE)	7 24 0 30 LG	TURN SIGNAL LH (REAR) LUGGAGE ROOM LAMP OUTPUT	TPUT
1 10	R 5	INPUT 4 INPUT 1				13 B	PUSH-BUTTOR			
12 12	- Ж	OUTPUT 1 INPUT 5				15 Y	ACC IND  TURN SIGNAL RH (FRONT, SIDE)	_		
4	g	OUTPUT 2				Н	$oxed{+}$			
								1		
Connector No.		M121	Connector No.	П	M122	× 88	COMBI SW INPUT 3			
Connect	Connector Name	BCM (BODY CONTROL MODULE)	Connecto	Connector Name B	BCM (BODY CONTROL MODULE)	89 BR	R PUSH SW			
Connect	Connector Type	TH40FGY-NH	Connector Type	Т	TH40FB-NH	╁				
Œ			Œ	_		92 LC	LG KEY SLOT ILL			
事			事			95	П			
	_ [3	4		2 00 00 00	/ 100 00 00 00 00 00 00 00 00 00 00 00 00	y - 96	A/T SHIFT SE			
	71 70 69 68	750 699 688 677 666 655 644 653 622 67 60 593 557 556 555 655 54 555 52		111 110 109 108 10	116 104 103 102 101 100 99 98 97 96 95 94	- A - B - B - B - B - B - B - B - B - B - B	S/L CONDITION I			
			-			H	ASCD CLUTCH S	ISI		
Terminal	_	6	Terminal	_	8	100 GR	R PASSENGER DOOR REQUEST SW			
o N	of Wire		No.	of Wire	ognal Name [opecimication]	101 Y	DRIVER DOOR REQUEST SW			
34	<i>5</i>	LUGGAGE ROOM ANT-	72	_ (	ROOM ANT-	102	BLOWER FAN MOTOR RELAY CONT	Ī		
88	c a	BACK DOOR ANT-	74	L 65	PASSENGER DOOR ANT-	+	1	-1		
38	W	BACK DOOR ANT+	75	BB	PASSENGER DOOR ANT+	F				
47	>	IGN RELAY (IPDM E/R) CONT	16	^	DRIVER DOOR ANT-	108 R				
25	SS :	STARTER RELAY CONT	77	P !	DRIVER DOOR ANT+	+	8			
19	≥ €	BACK DOOR OPENER REQUEST SW	80	£ ≥	IMMOBI ANTENNA CONTROL	011	HAZARD SW			
99	5 ac	BACK DOOR SW	82	<u> </u>	IGN RELAY (F/B) CONT		S/L Oral COMIN			
19	GR	BACK DOOR OPENER SW	83	B E	KEYLESS ENTRY RECEIVER COMM					
			87	BH	COMBI SW INPUT 5					

JCMWA3239GE

### < ECU DIAGNOSIS INFORMATION >

_			
	134	SR	TOCK IND
	137	Ы	RECEIVER/SENSOR GND
	138	۸	RECEIVER/SENSOR POWER SUPPLY
	139	٦	TIRE PRESSURE RECEIVER COMM
	140	5	PARK/NEUTRAL POSITION SW [With M/T and SynohroRev Match mode]
	140	5	SHIFT N/P [With A/T]
	141	Å	SECURITY INDICATOR
ſ	142	0	COMBI SW OUTPUT 5
2	143	Ь	COMBI SW OUTPUT 1
22	144	5	COMBI SW OUTPUT 2
	145	٦	COMBI SW OUTPUT 3
	146	8S	COMBI SW OUTPUT 4
	149	Μ	TIRE PRESSURE WARN CHECK SW
	150	AD.	WS AOOD REVIRE
Г	151	5	REAR WINDOW DEFOGGER RELAY CONT
I			

BCM (BODY CONTROL MODULE)	M123	BCM (BODY CONTROL MODULE)	TH40FG-NH		Signal Name [Specification]	OPTICAL SENSOR	CLUTCH INTERLOCK SW	1 MS dWPT dols	S MS JMP STOP LAMP SW 2	DR DOOR UNLOCK SENSOR	KEY SLOT SW	8/4 NDI	PASSENGER DOOR SW	MS HENDEFOGGER SW	DOWER WINDOW SW COMM
(BOI	r No.	r Name	r Type	131 130 129 12	Color of Wire	0	œ	as	а	SB	ď	Μ	PT	٦	Υ
BCM	Connector No.	Connector Name	Connector Type	H.S.	Terminal No.	113	114	116	118	119	121	123	124	130	132

Fail-safe

### FAIL-SAFE CONTROL BY DTC

BCM performs fail-safe control when any DTC are detected.

Α

В

C

D

Е

F

G

Н

J

K

L

BCS

Ν

0

JCMWA3240GE

INFOID:0000000004495191

## < ECU DIAGNOSIS INFORMATION >

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	Ignition switch $ON \rightarrow OFF$
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals are 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 becomes consistent  • Starter control relay signal  • Starter relay status signal
B2601: SHIFT POSITION	Inhibit steering 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 steering 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 km/h (2.5 MPH) or more
B2603: SHIFT POSI STATUS	Inhibit steering lock	<ul> <li>500 ms after the following BCM recognition conditions are fulfilled</li> <li>Ignition switch is in the ON position</li> <li>Selector lever P position switch signal: Except P position (battery voltage)</li> <li>Selector lever P/N position signal: Except P and N positions (0 V)</li> </ul>
B2604: PNP SW	Inhibit steering lock	<ul> <li>500 ms after any of the following BCM recognition conditions are fulfilled</li> <li>Status 1</li> <li>Ignition switch is in the ON position</li> <li>Selector lever P/N position signal: P and N position (battery voltage)</li> <li>P range signal or N range signal (CAN): ON</li> <li>Status 2</li> <li>Ignition switch is in the ON position</li> <li>Selector lever P/N position signal: Except P and N positions (0 V)</li> <li>P range signal and N range signal (CAN): OFF</li> </ul>
B2605: PNP SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled  Status 1  Ignition switch is in the ON position  Selector lever P/N position signal: Except P and N positions (0 V)  Interlock/PNP 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)  PNP switch signal (CAN): ON
B2606: S/L RELAY	Inhibit engine cranking	<ul> <li>500 ms after the following CAN signal communication status becomes consistent</li> <li>Steering lock relay signal (Request signal)</li> <li>Steering lock relay signal (Condition signal)</li> </ul>

Α

В

D

Е

F

**BCS** 

Р

### < ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has becomes consistent  • Steering lock relay signal (Request signal)  • Steering 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 steering lock	When the following steering lock conditions agree  BCM steering lock control status  Steering lock condition No. 1 signal status  Steering lock condition No. 2 signal status
B260A: IGNITION RELAY	Inhibit engine cranking	<ul> <li>500 ms after the following conditions are fulfilled</li> <li>IGN relay (IPDM E/R) control signal: OFF (Battery voltage)</li> <li>Ignition ON signal (CAN to IPDM E/R): OFF (Request signal)</li> <li>Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)</li> </ul>
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions are fulfilled  • Power position changes to ACC  • Receives engine status signal (CAN)
B2612: S/L STATUS	Inhibit engine cranking     Inhibit steering lock	When any of the following conditions are fulfilled  Steering lock unit status signal (CAN) is received normally  The BCM steering lock control status matches the steering lock status recognized by the steering 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
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 steering lock unit power supply output control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
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: ON (Battery voltage)
B26E9: S/L STATUS	Inhibit engine cranking     Inhibit steering lock	When BCM transmits the LOCK request signal to steering lock unit, and receives LOCK response signal from steering lock unit, the following conditions are fulfilled  Steering condition No. 1 signal: LOCK (0 V)  Steering condition No. 2 signal: LOCK (Battery voltage)

### HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status by the current value.

BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

#### NOTE:

The blinking speed is normal while activating the hazard warning lamp.

#### FAIL-SAFE CONTROL BY RAIN SENSOR MALFUNCTION

- BCM judges the rain sensor serial link error by the rain sensor serial link condition and detects the rain sensor malfunction by rain sensor malfunction signal.
- When BCM detects the rain sensor serial link error or the rain sensor malfunction while front wiper AUTO operation, BCM operates a fail-safe control.

### NOTE:

If rain sensor malfunction is detected when ignition switch is turned OFF  $\Rightarrow$  ON and front wiper switch is INT position, BCM operates a fail-safe control.

### < ECU DIAGNOSIS INFORMATION >

# DTC Inspection Priority Chart

INFOID:0000000004495192

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	<ul> <li>B2190: NATS ANTENNA AMP</li> <li>B2191: DIFFERENCE OF KEY</li> <li>B2192: ID DISCORD BCM-ECM</li> <li>B2193: CHAIN OF BCM-ECM</li> <li>B2195: ANTI SCANNING</li> </ul>
4	B2013: ID DISCORD BCM-S/L B2014: CHAIN OF S/L-BCM B2553: IGNITION RELAY B2555: STOP LAMP B2555: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2600: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSITION B2605: PNP SW B2605: PNP SW B2606: S/L RELAY B2607: S/L RELAY B2609: S/L STATUS B2601: S/L RELAY B2601: S/L STATUS B2601: STEERING LOCK UNIT B2601: STEERING LOCK UNIT B2601: STEERING LOCK UNIT B2601: STEERING LOCK UNIT B2601: SOME STATE SIG LOST B2612: S/L STATUS B2614: ACC RELAY CIRC B2615: BLOWER RELAY CIRC B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC B2619: BCM B2619: BCM B2619: CLUTCH SW B2619: VEHICLE TYPE B2628: CLUTCH SW B2629: S/L STATUS B2621: KEY REGISTRATION C1729: VHCL SPEED SIG ERR

### < ECU DIAGNOSIS INFORMATION >

Priority	DTC	
	C1704: LOW PRESSURE FL	A
	C1705: LOW PRESSURE FR	
	C1706: LOW PRESSURE RR	
	C1707: LOW PRESSURE RL	В
	C1708: [NO DATA] FL	
	C1709: [NO DATA] FR	
	• C1710: [NO DATA] RR	
	• C1711: [NO DATA] RL	C
	C1712: [CHECKSUM ERR] FL	
	C1713: [CHECKSUM ERR] FR	
	C1714: [CHECKSUM ERR] RR	5
	C1715: [CHECKSUM ERR] RL	D
5	C1716: [PRESSDATA ERR] FL	
	C1717: [PRESSDATA ERR] FR	
	C1718: [PRESSDATA ERR] RR	Е
	C1719: [PRESSDATA ERR] RL	_
	C1720: [CODE ERR] FL	
	C1721: [CODE ERR] FR	
	C1722: [CODE ERR] RR	F
	C1723: [CODE ERR] RL	
	C1724: [BATT VOLT LOW] FL	
	C1725: [BATT VOLT LOW] FR	
	C1726: [BATT VOLT LOW] RR	G
	C1727: [BATT VOLT LOW] RL	
	C1734: CONTROL UNIT	
	B2621: INSIDE ANTENNA	Н
6	B2622: INSIDE ANTENNA	
	B2623: INSIDE ANTENNA	

DTC Index

#### NOTE:

The details of time display are as follows.

- CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past.

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to <a href="BCS-17">BCS-17</a>, "COM-MON ITEM: CONSULT-III Function (BCM - COMMON ITEM)".

K

**BCS** 

CONSULT display	Fail-safe	Freeze Frame Data  •Vehicle Speed  •Odo/Trip Meter  •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Refer- ence page
No DTC is detected. further testing may be required.	_	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	_	BCS-38
U1010: CONTROL UNIT (CAN)	_	_	_	_	BCS-39
U0415: VEHICLE SPEED SIG	_	_	_	_	BCS-40
B2013: ID DISCORD BCM-S/L	×	×	_	_	<u>SEC-50</u>
B2014: CHAIN OF S/L-BCM	×	×	_	_	<u>SEC-51</u>
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-42
B2191: DIFFERENCE OF KEY	×	_	_	_	SEC-45
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-46
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-48
B2195: ANTI SCANNING	×	_	_	_	SEC-49
B2553: IGNITION RELAY	_	×	_	_	PCS-48
B2555: STOP LAMP	_	×	_	_	SEC-54

Revision: 2009 December BCS-79 2009 370Z

## < ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Refer- ence page
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-56
B2557: VEHICLE SPEED	×	×	×	_	SEC-58
B2560: STARTER CONT RELAY	×	×	×	_	SEC-59
B2562: LOW VOLTAGE	_	×	_	_	BCS-41
B2601: SHIFT POSITION	×	×	×	_	SEC-60
B2602: SHIFT POSITION	×	×	×	_	SEC-63
B2603: SHIFT POSI STATUS	×	×	×	_	SEC-66
B2604: PNP SW	×	×	×	_	SEC-69
B2605: PNP SW	×	×	×	_	SEC-71
B2606: S/L RELAY	×	×	×	_	SEC-73
B2607: S/L RELAY	×	×	×	_	SEC-74
B2608: STARTER RELAY	×	×	×	_	SEC-76
B2609: S/L STATUS	×	×	×	_	SEC-78
B260A: IGNITION RELAY	×	×	×	_	PCS-50
B260B: STEERING LOCK UNIT	_	×	×	_	SEC-82
B260C: STEERING LOCK UNIT	_	×	×	_	SEC-83
B260D: STEERING LOCK UNIT	_	×	×	_	SEC-84
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-85
B2612: S/L STATUS	×	×	×	_	SEC-90
B2614: ACC RELAY CIRC	_	×	×	_	PCS-52
B2615: BLOWER RELAY CIRC	_	×	×	_	PCS-55
B2616: IGN RELAY CIRC	_	×	×	_	PCS-58
B2617: STARTER RELAY CIRC	×	×	×	_	<u>SEC-94</u>
B2618: BCM	×	×	×	_	PCS-61
B2619: BCM	×	×	×	_	SEC-96
B261A: PUSH-BTN IGN SW	_	×	×	_	PCS-62
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	SEC-97
B2622: INSIDE ANTENNA	_	×	_	_	DLK-55
B2623: INSIDE ANTENNA	_	×	_	_	DLK-57
B26E8: CLUTCH SW	×	×	×	_	SEC-86
B26E9: S/L STATUS	×	×	× (Turn ON for 15 seconds)	_	<u>SEC-88</u>
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	SEC-89
C1704: LOW PRESSURE FL	_	_	_	×	
C1705: LOW PRESSURE FR	_	_	_	×	WT 46
C1706: LOW PRESSURE RR	_	_	_	×	<u>WT-16</u>
C1707: LOW PRESSURE RL	_	_	_	×	
C1708: [NO DATA] FL	_	_	_	×	
C1709: [NO DATA] FR	_	_	_	×	NAT 40
C1710: [NO DATA] RR	_	_	_	×	<u>WT-18</u>
C1711: [NO DATA] RL		_	_	×	1

## < ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data  •Vehicle Speed  •Odo/Trip Meter  •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Refer- ence page	Α
C1712: [CHECKSUM ERR] FL	_	_	_	×		В
C1713: [CHECKSUM ERR] FR	_	_	_	×	WT-21	
C1714: [CHECKSUM ERR] RR	_	_	_	×	<u> </u>	
C1715: [CHECKSUM ERR] RL	_	_	_	×	=	С
C1716: [PRESSDATA ERR] FL	_	_	_	×		
C1717: [PRESSDATA ERR] FR	_	_	_	×	WT-24	D
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u>VV1-24</u>	
C1719: [PRESSDATA ERR] RL	_	_	_	×	=	
C1720: [CODE ERR] FL	_	_	_	×		Е
C1721: [CODE ERR] FR	_	_	_	×	WT-26	
C1722: [CODE ERR] RR	_	_	_	×	<u> </u>	F
C1723: [CODE ERR] RL	_	_	_	×	=	- 1
C1724: [BATT VOLT LOW] FL	_	_	_	×		
C1725: [BATT VOLT LOW] FR	_	_	_	×	WT-29	G
C1726: [BATT VOLT LOW] RR	_	_	_	×	<u> </u>	
C1727: [BATT VOLT LOW] RL	_	_	_	×		Н
C1729: VHCL SPEED SIG ERR	_	_	_	×	WT-32	П
C1734: CONTROL UNIT	_	_	_	×	<u>WT-34</u>	

K

\_

BCS

Ν

0

Ρ

### **COMBINATION SWITCH SYSTEM SYMPTOMS**

< SYMPTOM DIAGNOSIS >

# SYMPTOM DIAGNOSIS

## COMBINATION SWITCH SYSTEM SYMPTOMS

Symptom Table

- 1. Perform "Data Monitor" of CONSULT-III to check for any malfunctioning item.
- 2. Check the malfunction combinations.

Malfunction item: ×	
---------------------	--

							Data mo	nitor ite	n					
Malfunction combination	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	RR FOG SW
А		×	×			×	×							
В	×			×						×		×		
С					×				×		×			
D					×			×					×	
Е					×									×
F	×				×									
G			×		×									
Н		×		×									×	×
I							×				×	×		
J						×		×	×	×				
K		1	1	1	1		All	tems			1	1	1	
L			If only	one item	is detec	ted or th	e item is	not app	licable to	the con	nbination	s A to K		

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

Malfunction combination	Malfunctioning part	Repair or replace
Α	Combination switch INPUT 1 circuit	Inspect the combination switch input circuit applicable to the malfunctioning part. Refer to BCS-43, "Diagnosis Procedure".
В	Combination switch INPUT 2 circuit	
С	Combination switch INPUT 3 circuit	
D	Combination switch INPUT 4 circuit	
Е	Combination switch INPUT 5 circuit	
F	Combination switch OUTPUT 1 circuit	Inspect the combination switch output circuit applicable to the malfunctioning part. Refer to BCS-45, "Diagnosis Procedure".
G	Combination switch OUTPUT 2 circuit	
Н	Combination switch OUTPUT 3 circuit	
1	Combination switch OUTPUT 4 circuit	
J	Combination switch OUTPUT 5 circuit	
K	ВСМ	Replace BCM. Refer to BCS-84, "Exploded View".
L	Combination switch	Replace the combination switch.

### **PRECAUTIONS**

#### < PRECAUTION >

## **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 "SRS AIR BAG" and "SEAT BELT" 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 "SRS AIR BAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

#### **WARNING:**

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

## Precaution for Battery Service

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

BCS

Α

В

D

Е

Н

INFOID:0000000004455842

Ν

C

Р

Revision: 2009 December BCS-83 2009 370Z

< REMOVAL AND INSTALLATION >

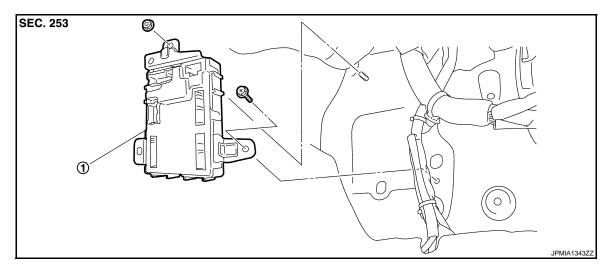
# REMOVAL AND INSTALLATION

# **BCM (BODY CONTROL MODULE)**

Exploded View

#### **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)</u>: <u>Description</u>".



1. BCM

### Removal and Installation

INFOID:0000000004455844

### **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)</u>: <u>Description</u>".

### **REMOVAL**

- Remove dash side finisher (passenger side). Refer to <u>INT-15. "Exploded View"</u>.
- 2. Remove bolt and nut.
- Remove BCM and disconnect the connector.

#### **INSTALLATION**

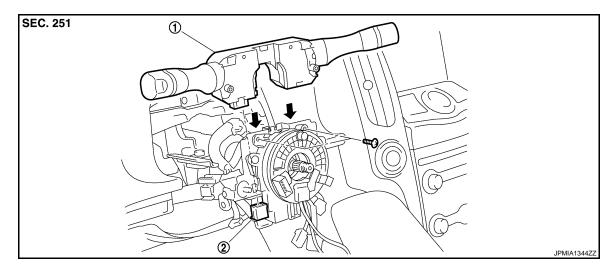
Install in the reverse order of removal.

#### **CAUTION:**

- Be sure to perform "WRITE CONFIGURATION" when replacing BCM.
- Be sure to perform the system initialization (NATS) when replacing BCM. Refer to BCS-3, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM): Work Procedure".

# **COMBINATION SWITCH**

Exploded View



1. Combination switch

2. Combination switch connector

### Removal and Installation

**REMOVAL** 

- 1. Remove steering column cover. Refer to IP-12, "Exploded View".
- 2. Remove screws.
- 3. Disconnect the connector.
- 4. Pull up the combination switch to remove it.

#### **INSTALLATION**

Install in the reverse order of removal.

BCS

K

Α

В

D

Е

F

Н

INFOID:0000000004455846

Ν

Р