

D

Е

F

Н

Κ

BCS

0

CONTENTS

BASIC INSPECTION3
INSPECTION AND ADJUSTMENT3
ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT
TRANSIT MODE CANCEL OPERATION4 Description4 Work Procedure4
SYSTEM DESCRIPTION5
BODY CONTROL SYSTEM
COMBINATION SWITCH READING SYSTEM
 7 System Diagram
SIGNAL BUFFER SYSTEM11 System Diagram11 System Description11
POWER CONSUMPTION CONTROL SYS-
TEM 12 System Diagram 12 System Description 12 Component Parts Location 14
DIAGNOSIS SYSTEM (BCM)15
COMMON ITEM
DOOR LOCK16

DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)16
REAR WINDOW DEFOGGER17 REAR WINDOW DEFOGGER : CONSULT-III Function (BCM - REAR DEFOGGER)18
BUZZER18 BUZZER : CONSULT-III Function (BCM - BUZZ-ER)18
INT LAMP18 INT LAMP : CONSULT-III Function (BCM - INT LAMP)19
HEADLAMP20 HEADLAMP : CONSULT-III Function (BCM - HEAD LAMP)20
WIPER : CONSULT-III Function (BCM - WIPER)22
FLASHER23 FLASHER : CONSULT-III Function (BCM - FLASHER)23
INTELLIGENT KEY24 INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)24
COMB SW
BCM : CONSULT-III Function (BCM - BCM)28
IMMU28 IMMU : CONSULT-III Function (BCM - IMMU)28
BATTERY SAVER29 BATTERY SAVER : CONSULT-III Function (BCM - BATTERY SAVER)29

TRUNK	COMBINATION SWITCH INPUT CIRCUIT 39 Diagnosis Procedure
THEFT ALM	COMBINATION SWITCH OUTPUT CIRCUIT 41 Diagnosis Procedure
RETAIND PWR 32 RETAIND PWR : CONSULT-III Function (BCM - RETAINED PWR) 32 SIGNAL BUFFER 32	BCM (BODY CONTROL MODULE) 43 Reference Value 43 Wiring Diagram - BCM - 66
SIGNAL BUFFER : CONSULT-III Function (BCM - SIGNAL BUFFER)	Fail-safe71 DTC Inspection Priority Chart73 DTC Index74
AIR PRESSURE MONITOR	SYMPTOM DIAGNOSIS77 COMBINATION SWITCH SYSTEM SYMP-
DTC/CIRCUIT DIAGNOSIS34	TOMS
U1000 CAN COMM 34 Description 34 DTC Logic 34 Diagnosis Procedure 34	NORMAL OPERATING CONDITION
U1010 CONTROL UNIT (CAN)	PRECAUTIONS
U0415 VEHICLE SPEED 36 Description 36 DTC Logic 36 Diagnosis Procedure 36	SIONER"
B2562 LOW VOLTAGE 37 DTC Logic 37 Diagnosis Procedure 37	BCM (BODY CONTROL MODULE)
POWER SUPPLY AND GROUND CIRCUIT 38 Diagnosis Procedure	COMBINATION SWITCH

INSPECTION AND ADJUSTMENT

BASIC INSPECTION

INSPECTION AND ADJUSTMENT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

FOID:0000000006457800

Perform the system initialization when replacing BCM, replacing Intelligent Key or registering an additional Intelligent Key.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement

Refer to the CONSULT-III operation manual for the initialization procedure.

F

Е

D

Α

В

G

Н

J

Κ

L

BCS

Ν

TRANSIT MODE CANCEL OPERATION

< BASIC INSPECTION >

TRANSIT MODE CANCEL OPERATION

Description INFOID:000000008165553

• BCM is in transit mode if turn signal indicator on combination meter turns ON for 1 minute when ignition switch is turned from OFF to ON.

• In this case, cancel operation must be performed.

NOTE:

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

Work Procedure

1. TRANSIT MODE CANCEL OPERATION

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

>> GO TO 2.

2. TRANSIT MODE CANCEL CHECK

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

>> WORK END

BODY CONTROL SYSTEM

< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

BODY CONTROL SYSTEM

System Description

INFOID:0000000006457802

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-7, "System Diagram"
Signal buffer system	BCS-11, "System Diagram"
Power consumption control system	BCS-12, "System Diagram"
Auto light system	EXL-11, "System Diagram"
Turn signal and hazard warning lamp system	EXL-19, "System Diagram"
Headlamp system	EXL-7. "System Diagram"
Parking, license plate and tail lamps system	EXL-21, "System Diagram"
Front fog lamp system	EXL-17, "System Diagram"
Exterior lamp battery saver system	EXL-23, "System Diagram"
Daytime running light system	EXL-14. "System Diagram"
Interior room lamp control system	
Step lamp system	INL-5, "System Diagram"
Trunk room lamp system	
Interior room lamp battery saver system	INL-9, "System Diagram"
Front wiper and washer system	WW-8, "FRONT WIPER AND WASHER SYSTEM (WITHOUT RAIN SENSOR): System Diagram" (Without rain sensor) WW-11, "FRONT WIPER AND WASHER SYSTEM (WITH RAIN SENSOR): System Diagram" (With rain sensor)
Warning chime system	WCS-5, "WARNING CHIME SYSTEM : System Diagram"
Door lock system	DLK-11, "System Diagram"
Trunk open system	DLK-44, "System Diagram"
Infiniti Vehicle Immobilizer System (IVIS) - NATS	SEC-17, "System Diagram"
Vehicle security system	SEC-23, "System Diagram"
Panic alarm	DLK-28, "REMOTE KEYLESS ENTRY FUNCTION : System Description"
Automatic drive positioner system	ADP-13, "AUTOMATIC DRIVE POSITIONER SYSTEM: System Diagram"
Rear window defogger system	DEF-4, "System Diagram"

Revision: 2011 December BCS-5 2011 G Coupe

BCS

K

Ν

0

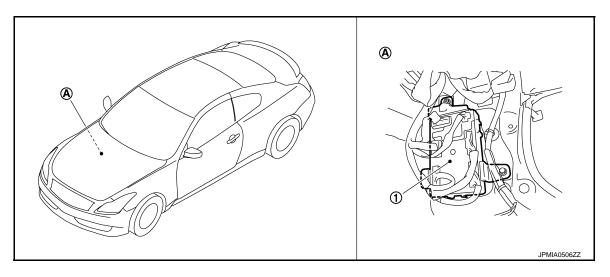
BODY CONTROL SYSTEM

< SYSTEM DESCRIPTION >

System		Refer to
	Door lock function	
	Trunk open function	
Intelligent Key system/engine start system	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) - AIF TOR	R PRESSURE MONI-	WT-8, "System Description"

Component Parts Location

INFOID:0000000006457803

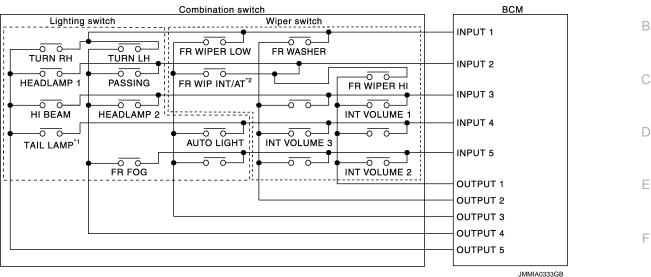


- 1. BCM
- A. Dash side lower (passenger side)

< SYSTEM DESCRIPTION >

COMBINATION SWITCH READING SYSTEM

System Diagram



NOTE:

- *1: TAIL LAMP switch links lighting switch 1ST position.
- *2: "FR WIP INT/AT" is FR WIPER INT/AUTO.

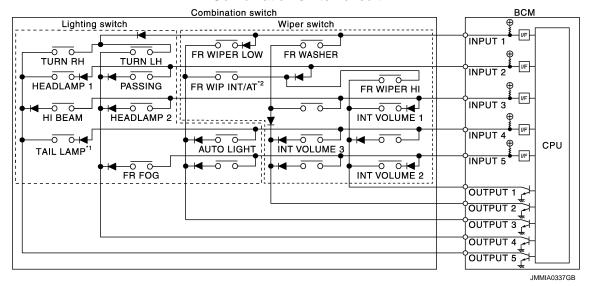
System Description

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



NOTE:

- *1: TAIL LAMP switch links lighting switch 1ST position.
- *2: "FR WIP INT/AT" is FR WIPER INT/AUTO.

BCS-7 Revision: 2011 December 2011 G Coupe

Α

INFOID:0000000006457804

D

Е

INFOID:0000000006457805

K

J

BCS

Ν

< SYSTEM DESCRIPTION >

Combination switch I	NPUT-OUTPUT system I	ist			
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/AUTO	PASSING	HEADLAMP 1
INPUT 3	INT VOLUME 1	_	_	HEADLAMP 2	HI BEAM
INPUT 4	_	INT VOLUME 3	AUTO LIGHT	_	TAIL LAMP
INPUT 5	INT VOLUME 2	_	_	FR FOG	_

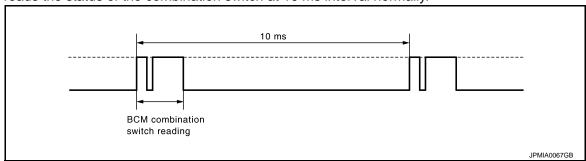
NOTE:

Headlamp has a dual system switch.

COMBINATION SWITCH READING FUNCTION

Description

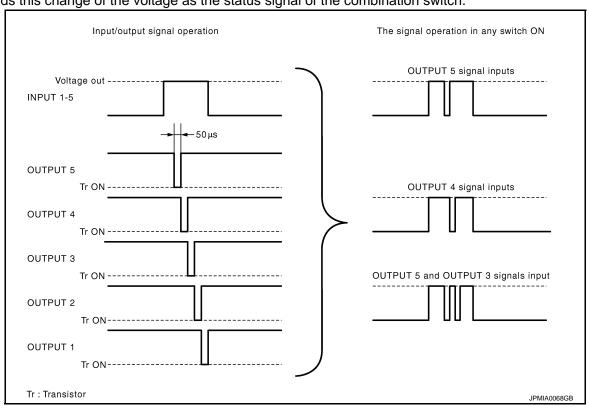
BCM reads the status of the combination switch at 10 ms interval normally.



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.



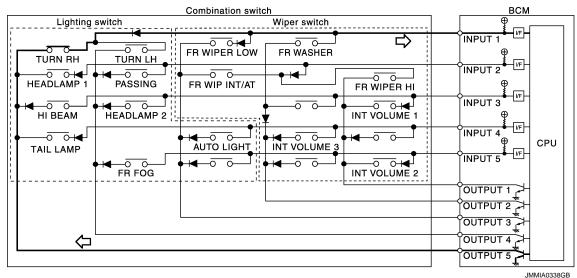
< SYSTEM DESCRIPTION >

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".

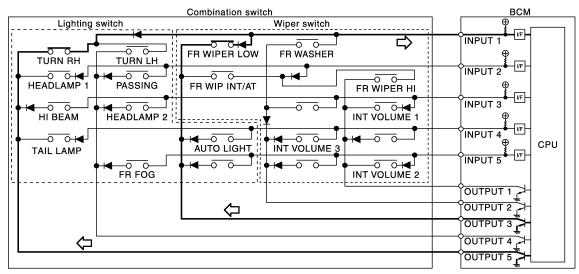
Example 1: When a switch (TURN RH switch) is turned ON

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



- 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.



- 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 volume dial 1 - 7 by the status of INT VOLUME 1, 2 and 3 switches.

Wiper volume dial position		Switch status	
wiper volume dial position	INT VOLUME 1	INT VOLUME 2	INT VOLUME 3
1	ON	ON	ON
2	ON	ON	OFF

BCS-9 Revision: 2011 December 2011 G Coupe

BCS

K

В

D

Е

F

Н

Ν

< SYSTEM DESCRIPTION >

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

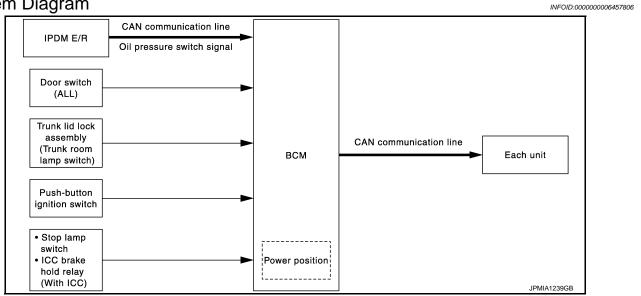
NOTE:

For details of wiper volume dial position, refer to <u>WW-8</u>, "<u>FRONT WIPER AND WASHER SYSTEM (WITHOUT RAIN SENSOR)</u>: <u>System Description</u>" (without rain sensor), <u>WW-11</u>, "<u>FRONT WIPER AND WASHER SYSTEM (WITH RAIN SENSOR)</u>: <u>System Description</u>" (with rain sensor).

SIGNAL BUFFER SYSTEM

SIGNAL BUFFER SYSTEM

System Diagram



System Description

INFOID:0000000006457807

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 Ignition switch signal	Push-button ignition switch (push switch)	IPDM E/R (CAN) Driver seat control unit (CAN)	Inputs the push-button ignition switch (push switch) signal and transmits the ignition switch status judged with BCM via CAN communication.	k
Door switch signal	Any door switch	Combination meter (through unified meter and A/C amp.) (CAN) IPDM E/R (CAN) Driver seat control unit (CAN)	Inputs the door switch signal and transmits it via CAN communication.	L
Trunk switch signal	Trunk room lamp switch	Combination meter (through unified meter and A/C amp.) (CAN)	Inputs the trunk room lamp switch signal and transmits the trunk switch signal via CAN communication.	ВС
Oil pressure switch signal	IPDM E/R (CAN)	Combination meter (through unified meter and A/C amp.) (CAN)	Transmits the received oil pressure switch signal via CAN communication.	Ν
Stop lamp switch signal	Stop lamp switch ICC brake hold relay (with ICC)	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.	C

Revision: 2011 December BCS-11 2011 G Coupe

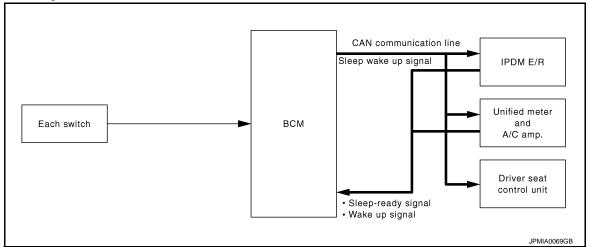
BCS

POWER CONSUMPTION CONTROL SYSTEM

POWER CONSUMPTION CONTROL SYSTEM

System Diagram

INFOID:0000000006457808



System Description

INFOID:0000000006457809

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, combination meter (unified meter and A/C amp.) and driver seat control unit] 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 unified meter and A/C amp. 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 >

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

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 unified meter and A/C amp. 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
 Trunk lid opener switch: OFF → ON Power window switch communication: Receiving Remote keyless entry receiver communication: Receiving 	 Receiving the sleep-ready signal (Not-ready) from any units Key slot (key switch): OFF → ON, ON → OFF Push-button ignition switch (push switch): OFF→ ON Hazard switch: OFF → ON PASSING switch: OFF → ON, ON → OFF TAIL LAMP switch: OFF → ON, ON → OFF Passenger door switch: OFF → ON, ON → OFF Passenger door switch: OFF → ON, ON → OFF Trunk room lamp switch: OFF → ON, ON → OFF Driver door request switch: OFF → ON Passenger door request switch: OFF → ON Trunk lid opener request switch: OFF → ON Stop lamp switch: ON ICC brake hold relay (with ICC): ON Clutch interlock switch: OFF → ON

Revision: 2011 December BCS-13 2011 G Coupe

BCS

Α

В

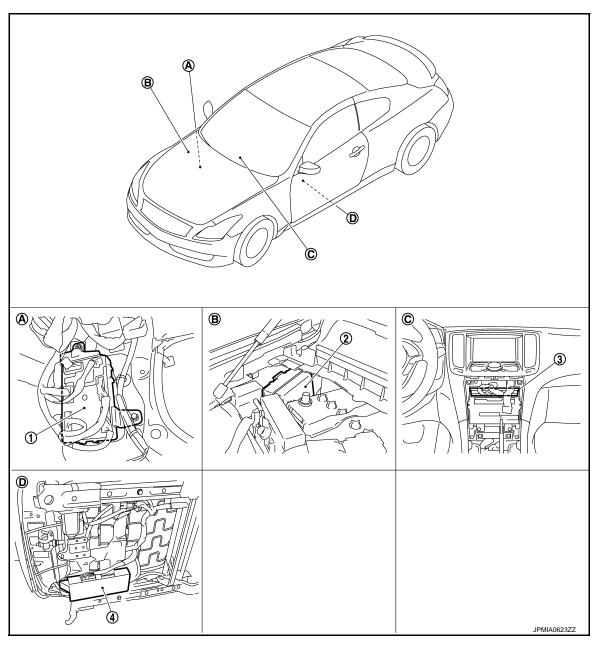
D

Е

F

Component Parts Location

INFOID:0000000006457810



- 1. BCM
- 4. Driver seat control unit
- A. Dash side lower (passenger side)
- D. Backside of the seat cushion (driver seat)
- 2. IPDM E/R
- B. Engine room dash panel (RH)
- 3. Unified meter and A/C amp.
- C. Behind Cluster lid C

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:0000000006457811

Α

В

D

Е

F

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	This function is not used even though it is displayed.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

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

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: 2011 December BCS-15 2011 G Coupe

BCS

Ν

Ρ

^{*:} 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" (Except emergency stop operation)	
	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 supply position	While turning power supply position from "OFF" to "LOCK"*	
Vehicle Condition	OFF>ACC	status of the moment a	While turning power supply position from "OFF" to "ACC"	
	ON>CRANK	particular DTC is detected*	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	 The number of times that ignition switch is turned ON after DTC is detected The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 338 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. 		

NOTE:

DOOR LOCK

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

INFOID:0000000006457812

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	The signals used to activate each device are forcibly supplied from BCM.		

^{*:} For models without steering lock unit, power supply position changes from "OFF" to "LOCK" when steering lock conditions are satisfied.

Α

В

D

Е

F

Н

BCS

< SYSTEM DESCRIPTION >

WORK SUPPORT

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 24km/h (15MPH) P RANGE*: All doors are locked when shifting the selector lever from P position to other than the P position 		
AUTOMATIC DOOR UNLOCK SELECT	 Automatic door unlock function mode can be selected from the following in the mode. MODE 1: All doors are unlocked when the power supply position is changed from ON to OFF MODE 2*: All doors are unlocked when shifting the selector lever from any position other than the P to P position MODE 3: Driver side door is unlocked when the power supply position is changed from ON to OFF MODE 4*: Driver side door is unlocked when shifting the selector lever from any position other than the P to P position 		
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		

^{*:} 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 trunk lid opener 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	NOTE: This item is displayed, but cannot be monitored.
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	 This test is able to check door lock/unlock operation. The all door lock actuators are locked when "ALL LCK" on CONSULT-III screen is touched. The all door lock actuators are unlocked when "ALL UNLK" on CONSULT-III screen is touched. The door lock actuator (driver side) is unlocked when "DR UNLK" on CONSULT-III screen is touched. The door lock actuator (passenger side) is unlocked when "AS UNLK" on CONSULT- III screen is touched. "OTR ULK" item is displayed, but cannot be monitored.

REAR WINDOW DEFOGGER

< SYSTEM DESCRIPTION >

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

VFOID:0000000006457813

Data monitor

Monitor Item	Description		
REAR DEF SW	This is displayed even when it is not equipped.		
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:0000000006457814

CONSULT-III APPLICATION ITEMS

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

DATA MONITOR

Display item [Unit]	Description		
VEH SPEED 1 [Km/h]	Value of vehicle speed signal received from ABS actuator and electric unit (control unit) with CAN communication line.		
PUSH SW [On/Off]	Status of push button ignition switch judged by BCM.		
UNLK SEN-DR [On/Off]	Status of unlock sensor judged by BCM.		
KEY SW-SLOT [On/Off]	Status of key slot judged by BCM.		
TAIL LAMP SW [On/Off]	Status of each switch judged by BCM using the combination 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).
RUN FLAT/T WARN BUZZER	The run-flat tire warning chime operation can be checked by operating the relevant function (On/Off).

INT LAMP

< SYSTEM DESCRIPTION >

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

INFOID:0000000006457815

Α

В

C

D

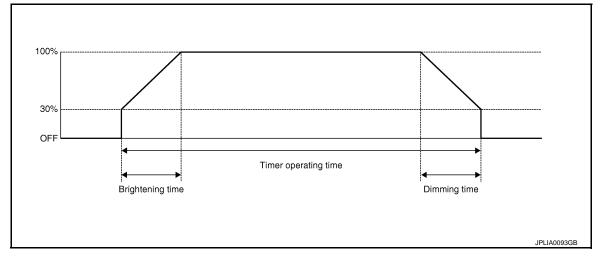
Е

F

G

Н

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-UNLOK INTOON	OFF	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.	
ROOM LAMP OFF TIME SET	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 1*	Interior room 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.	

^{*:} 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)	
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	

Revision: 2011 December BCS-19 2011 G Coupe

BCS

ЬСЗ

K

Ν

0

< SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
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]	
CDL LOCK SW [On/Off]	Lock switch status received from the door lock and unlock switch by power window switch serial link
CDL UNLOCK SW [On/Off]	Unlock switch status received from the door lock and unlock switch by power window switch serial link
KEY CYL LK-SW [On/Off]	Lock switch status received from key cylinder switch by power window switch serial link
KEY CYL UN-SW [On/Off]	Unlock switch status received from key cylinder switch by power window switch serial link
TRNK/HAT MNTR [On/Off]	The switch status input from trunk room lamp switch
RKE-LOCK [On/Off]	Lock signal status received from remote keyless entry receiver
RKE-UNLOCK [On/Off]	Unlock signal status received from remote keyless entry receiver

ACTIVE TEST

Test item	Operation	Description
INT LAMP	On	Outputs the interior room lamp control signal to turn map lamp 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	Outputs the step lamp control signal to turn step lamp ON.
OTET LAWI TEOT	Off	Stops the step lamp control signal to turn step lamp OFF.
LUGGAGE LAMP TEST	On	Outputs the trunk room lamp control signal to turn the trunk room lamp ON.
	Off	Stops the trunk room lamp control signal to turn the trunk room lamp OFF.

HEADLAMP

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

INFOID:0000000006955425

WORK SUPPORT

Service item	Setting item	Setting
BATTERY SAVER SET	On*	With the exterior lamp battery saver function
DATTERT SAVER SET	Off	Without the exterior lamp battery saver function

< SYSTEM DESCRIPTION >

Service item	Setting item	Setting		
	MODE 1*	45 sec.		
	MODE 2	Without the function		
	MODE 3	30 sec.		
ILL DELAY SET	MODE 4	60 sec.	Sets delay timer function timer operation time. (All doors closed)	
	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 SET-	MODE 2	More sensitive setting than normal setting (Turns ON earlier than normal operation.)		
TING	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.)		

^{*:} 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 unified meter and A/C amp. with CAN communication
KEY SW-SLOT [On/Off]	Key switch status input from key slot
TURN SIGNAL R [On/Off]	
TURN SIGNAL L [On/Off]	
TAIL LAMP SW [On/Off]	
HI BEAM SW [On/Off]	
HEAD LAMP SW1 [On/Off]	Each switch status that BCM judges from the combination switch reading function
HEAD LAMP SW2 [On/Off]	
PASSING SW [On/Off]	
AUTO LIGHT SW [On/Off]	
FR FOG SW [On/Off]	
RR FOG SW [On/Off]	NOTE: The item is indicated, but not monitored.
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

Revision: 2011 December BCS-21 2011 G Coupe

Α

В

С

D

Е

G

Н

.

K

BCS

И

 \circ

 \supset

< SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
DOOR SW-RR [On/Off]	NOTE: The item is indicated, but not monitored.
DOOR SW- RL [On/Off]	NOTE: The item is indicated, but not monitored.
DOOR SW-BK [On/Off]	NOTE: The item is indicated, but not monitored.
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 headlamp (HI).	
HEAD LAMP	Low	Transmits the low beam request signal with CAN communication to turn the headlamp (LO).	
	Off	Stops the high & low beam request signal transmission.	
FR FOG LAMP	On	Transmits the front fog light request signal to IPDM E/R with CAN communication to turn the front fog lamp ON.	
	Off	Stops the front fog light request signal transmission.	
RR FOG LAMP	On	NOTE: The item is indicated, but cannot be tested.	
RR FOG LAWIF	Off		
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 and tail 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:0000000006457817

WORK SUPPORT

Service item	Setting item	Description
WIPER SPEED	On	Linked with vehicle speed (Front wiper intermittent time linked with the vehicle speed and wiper intermittent dial position)
SETTING* ¹ Off* ²	Not linked with vehicle speed (Front wiper intermittent time linked with the wiper intermittent dial position)	

^{*1:}Without rain sensor

DATA MONITOR

^{*2:}Initial setting

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description		
VEH SPEED 1 [km/h]	Displays the value of the vehicle speed signal received from unified meter and A/C amp. with CAN communication.		
PUSH SW [Off/On]	The switch status input from push-button ignition switch.		
FR WIPER HI [Off/On]			
FR WIPER LOW [Off/On]			
FR WASHER SW [Off/On]	 Status of each switch judged by BCM using the combination switch reading function 		
FR WIPER INT [Off/On]			
FR WIPER STOP [Off/On]	Displays the status of the front wiper stop position signal received from IPDM E/R with CAN communication.		
INT VOLUME [1 – 7]	Status of each switch judged by BCM using 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.
FRONT WIPER	Lo	Transmits the front wiper request signal (LO) to IPDM E/R with CAN communication to operate the front wiper LO operation.
INII	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 SUPPORT

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

^{*:} Factory setting

DATA MONITOR

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

BCS-23 Revision: 2011 December 2011 G Coupe

Α

В

D

Е

F

Н

BCS

0

< SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
TURN SIGNAL R [On/Off]	Each switch condition that BCM judges from the combination switch reading function
TURN SIGNAL L [On/Off]	Each switch condition that Bow 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:000000008955420

WORK SUPPORT

Monitor item	Description
CONFIRM KEY FOB ID	It can be checked whether Intelligent Key ID code is registered or not in this mode.
AUTO LOCK SET	Auto door lock time can be changed in this mode. • MODE 1: 1 minute • MODE 2: 5 minutes • MODE 3: 30 seconds • MODE 4: 2 minutes
LOCK/UNLOCK BY I-KEY	Door lock/unlock function by door request switch (driver side and passenger side) mode can be changed to operate (ON) or not operate (OFF) in this mode.
ENGINE START BY I-KEY	Engine start function mode can be changed to operate (ON) or not operate (OFF) with this mode.
TRUNK/GLASS HATCH OPEN	Buzzer reminder function mode by trunk opener 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.
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	Trunk button pressing on Intelligent Key button can be selected as per the following in this mode. • MODE 1: Press and hold • MODE 2: Press twice • MODE 3: Press and hold, or press twice

Α

В

С

D

Е

F

G

Κ

L

BCS

Ν

0

Ρ

< SYSTEM DESCRIPTION >

Monitor item	Description
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 operate during the times below. • 70 msec • 100 msec • 200 msec
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-166, "DTC Index".

DATA MONITOR

Monitor Item	Condition
REQ SW -DR	Indicates [ON/OFF] condition of door request switch (driver side).
REQ SW -AS	Indicates [ON/OFF] condition of door request switch (passenger side).
REQ SW -BD/TR	Indicates [ON/OFF] condition of trunk opener request switch.
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch.
IGN RLY2 -F/B	Indicates [ON/OFF] condition of ignition relay 2.
ACC RLY-FB	NOTE: This item is displayed, but cannot be monitored.
CLUTCH 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). NOTE: For models without steering lock unit, this item is not monitored.
S/L -UNLOCK	Indicates [ON/OFF] condition of steering lock unit (UNLOCK). NOTE: For models without steering lock unit, this item is not monitored.
S/L RELAY -F/B	Indicates [ON/OFF] condition of steering lock relay. NOTE: For models without steering lock unit, this item is not monitored.
UNLK SEN -DR	Indicates [ON/OFF] condition of driver door UNLOCK status.
PUSH SW -IPDM	Indicates [ON/OFF] condition of push-button ignition switch.

Revision: 2011 December BCS-25 2011 G Coupe

< SYSTEM DESCRIPTION >

Monitor Item	Condition
IGN RLY1 -F/B	Indicates [ON/OFF] condition of ignition relay 1.
DETE SW -IPDM	Indicates [ON/OFF] condition of P position.
SFT PN -IPDM	Indicates [ON/OFF] condition of P or N position.
SFT P -MET	Indicates [ON/OFF] condition of P position.
SFT N -MET	Indicates [ON/OFF] condition of N position.
ENGINE STATE	Indicates [STOP/STALL/CRANK/RUN] condition of engine states.
S/L LOCK-IPDM	Indicates [ON/OFF] condition of steering lock unit (LOCK). NOTE: For models without steering lock unit, this item is not monitored.
S/L UNLK-IPDM	Indicates [ON/OFF] condition of steering lock unit (UNLOCK). NOTE: For models without steering lock unit, this item is not monitored.
S/L RELAY-REQ	Indicates [ON/OFF] condition of steering lock relay. NOTE: For models without steering lock unit, this item is not monitored.
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	Indicates [ON/OFF] condition of trunk lid.
RKE-LOCK	Indicates [ON/OFF] condition of LOCK signal from Intelligent Key.
RKE-UNLOCK	Indicates [ON/OFF] condition of UNLOCK signal from Intelligent Key.
RKE-TR/BD	Indicates [ON/OFF] condition of TRUNK OPEN signal from Intelligent Key.
RKE-PANIC	Indicates [ON/OFF] condition of PANIC button of Intelligent Key.
RKE-P/W OPEN	Indicates [ON/OFF] condition of P/W DOWN signal from Intelligent Key.
RKE-MODE CHG	Indicates [ON/OFF] condition of MODE CHANGE signal from Intelligent Key.
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.

^{*1:} 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.

^{*&}lt;sup>2</sup>: OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

< SYSTEM DESCRIPTION >

Test item	Description
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.
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	This test is able to check trunk lid opener actuator open operation. This actuator opens when "OPEN" on CONSULT-III screen is touched.
FLASHER	This test is able to check security hazard lamp operation. The hazard 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 trunk lid 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)

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.

Revision: 2011 December BCS-27 2011 G Coupe

K

Α

В

D

Е

F

BCS

NI

Р

INFOID:000000006457820

< SYSTEM DESCRIPTION >

Monitor item [UNIT]	Description
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/AUTO switch in combination switch judged by BCM with the combination switch reading function.
FR WIPER STOP [Off/On]	Displays the status of the front wiper stop position signal received from IPDM E/R via CAN communication.
INT VOLUME [1 - 7]	Displays the status of wiper 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]	Displays the status of the FR FOG switch in combination switch judged by BCM with the combination switch reading function.
RR FOG SW [Off/On]	NOTE: The item is indicated, but not monitored.

BCM

BCM: CONSULT-III Function (BCM - BCM)

INFOID:0000000006457821

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:0000000006955422

DATA MONITOR

Monitor item	Content
CONFRM ID ALL	
CONFIRM ID4	
CONFIRM ID3	Indicates [YET] at all time. Switch to [DONE] when a registered Intelligent Key is inserted into the key slot.
CONFIRM ID2	
CONFIRM ID1	

< SYSTEM DESCRIPTION >

Monitor item	Content	
TP 4		
TP 3	Indicates the number of ID which has been registered.	
TP 2		
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

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

BATTERY SAVER

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

INFOID:0000000006955427

WORK SUPPORT

Service item	Setting item	Setting	
BATTERY SAVER SET	On*	With the e	exterior lamp battery saver function
BATTERT SAVER SET	Off	Without the exterior lamp battery saver function	
ROOM LAMP BAT SAV SET	On*	With the interior room lamp battery saver function	
ROOM LAWF BAT SAV SET	Off	Without the interior room lamp battery saver function	
	MODE 1	30 min.	
ROOM LAMP TIMER SET	MODE 2	60 min.	Sets the interior room lamp battery saver timer operating time.
	MODE 3*	15 min.	

^{*:} 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

Revision: 2011 December BCS-29 2011 G Coupe

K

L

Α

В

D

Е

G

Н

BCS

Ν

0

< SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
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]	
CDL LOCK SW [On/Off]	Lock switch status received from the door lock and unlock switch by power window switch serial link
CDL UNLOCK SW [On/Off]	Unlock switch status received from the door lock and unlock switch by power window switch serial link
KEY CYL LK-SW [On/Off]	Lock switch status received from key cylinder switch by power window switch serial link
KEY CYL UN-SW [On/Off]	Unlock switch status received from key cylinder switch by power window switch serial link
TRNK/HAT MNTR [On/Off]	The switch status input from trunk room lamp switch
RKE-LOCK [On/Off]	Lock signal status received from remote keyless entry receiver
RKE-UNLOCK [On/Off]	Unlock signal status received from remote keyless entry receiver

ACTIVE TEST

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

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

TRUNK

TRUNK: CONSULT-III Function (BCM - TRUNK)

INFOID:0000000006457824

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.

DATA MONITOR

Monitor Item	Contents
PUSH SW	Indicates [ON/OFF] condition of push switch.
UNLK SEN -DR	Indicates [ON/OFF] condition of unlock sensor.
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	Indicates [ON/OFF] condition of trunk lid opener cancel switch.
TR/BD OPEN SW	Indicates [ON/OFF] condition of trunk lid opener switch.
TRNK/HAT MNTR	Indicates [ON/OFF] condition of trunk room lamp switch.

< SYSTEM DESCRIPTION >

Monitor Item	Contents		
RKE-TR/BD	Indicates [ON/OFF] condition of trunk open signal from Intelligent Key remote controller button.		
TRUNK/GLASS HATCH	This test is able to check trunk lid opener actuator open operation.		
ACTIVE TEST	The took of about to shook mark the openior about the openior openior openior.		
ACTIVE TEST			
Test item	Description		
TRUNK/GLASS HATCH	This test is able to check trunk lid opener actuator open operation. This actuator opens when "OPEN" on CONSULT-III screen is touched.		
THEFT ALM			
THEFT ALM : CON	SULT-III Function (BCM - THEFT)		
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-BD/TR	Indicates [ON/OFF] condition of trunk opener request switch.		
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch		
UNLK SEN-DR	Indicates [ON/OFF] condition of driver door UNLOCK status.		
KEY SW -SLOT	Indicates [ON/OFF] condition of key slot.		
DOOR SW-DR	Indicates [ON/OFF] condition of front door switch LH.		
DOOR SW-AS	Indicates [ON/OFF] condition of front door switch RH.		
DOOR SW-RR	Indicates [ON/OFF] condition of rear door switch RH.		
DOOR SW-RL	Indicates [ON/OFF] condition of rear door switch LH.		
DOOR SW-BK	This is displayed even when it is not equipped.		
CDL LOCK SW	Indicates [ON/OFF] condition of lock signal from door lock/unlock switch LH and RH.		
CDL UNLOCK SW	Indicates [ON/OFF] condition of unlock signal from door lock/unlock switch LH and RH.		
KEY CYL LK-SW	Indicates [ON/OFF] condition of lock signal from front door key cylinder switch.		
KEY CYL UN-SW	Indicates [ON/OFF] condition of unlock signal from front door key cylinder switch.		
KEY CYL SW-TR	This is displayed even when it is not equipped.		
TR/BD OPEN SW	Indicates [ON/OFF] condition of trunk lid opener switch.		
TRNK/HAT MNTR	Indicates [ON/OFF] condition of trunk room lamp switch.		
RKE-LOCK	Indicates [ON/OFF] condition of LOCK signal from Intelligent Key.		
RKE-UNLOCK	Indicates [ON/OFF] condition of UNLOCK signal from Intelligent Key.		
RKE-TR/BD	Indicates [ON/OFF] condition of TRUNK OPEN signal from Intelligent Key.		
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

< SYSTEM DESCRIPTION >

Test Item	Description
THEFT IND	This test is able to check security indicator lamp operation. The lamp will be 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 will be 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 will be activated for 0.5 seconds after "ON" on CONSULT-III screen is touched.
FLASHER	This test is able to check vehicle security hazard lamp operation. The hazard lamps will be activated after "ON" on CONSULT-III screen is touched.

RETAIND PWR

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

INFOID:0000000006457826

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:0000000006457827

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
OIL PRESSURE SW	Off	OFF
	On	BCM transmits the oil pressure switch signal to the unified meter and A/C amp. via CAN communication, which illuminates the oil pressure warning lamp in the combination meter.

AIR PRESSURE MONITOR

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

WORK SUPPORT MODE

ID Read

The registered ID number is displayed.

ID Regist

Refer to WT-22, "Work Procedure".

SELF-DIAG RESULTS MODE

Operation Procedure

Refer to BCS-74, "DTC Index".

DATA MONITOR MODE

Screen of data monitor mode is displayed.

NOTE:

Remark

< SYSTEM DESCRIPTION >

AIR PRESS FL (kPa/kg/cm²/Psi)

AIR PRESS RL (kPa/kg/cm²/Psi)

ID REGST RR1 (Green/Red)

When malfunction is detected, CONSULT-III perform REAL-TIME DIAGNOSIS. Also, any malfunction detected while in this mode will be displayed at real time.

В

Α

AIR PRESS FR (kPa/kg/cm ² /Psi)	Tire pressure
AIR PRESS RR (kPa/kg/cm ² /Psi)	The pressure

Monitor item (Unit)

D

ID REGST FL1 (Green/Red)	
ID REGST FR1 (Green/Red)	Registration ID

Е

ID REGST RL1 (Green/Red)	
WARNING LAMP (On/Off)	Low tire pressure warning lamp

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.

Buzzer in combination meter

ACTIVE TEST MODE

Н

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

BUZZER (On/Off)

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.	

BCS

K

Ν

Р

BCS-33 Revision: 2011 December 2011 G Coupe

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM

Description INFOID:000000006457829

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-25, "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:0000000006457831

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-16, "Trouble Diagnosis Flow Chart".

NO >> Refer to GI-43, "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:0000000006457833

1.REPLACE BCM

When DTC "U1010" is detected, replace BCM.

>> Replace BCM. Refer to BCS-80, "Exploded View".

F

Α

В

C

D

Е

G

Н

.

K

BCS

Ν

0

U0415 VEHICLE SPEED

< DTC/CIRCUIT DIAGNOSIS >

U0415 VEHICLE SPEED

Description INFOID.000000006457834

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	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-36, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000006457836

$1.\mathsf{abs}$ 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-27, "CONSULT-III Function".

Is any DTC detected?

YES >> Repair or replace the malfunctioning part.

NO >> Replace BCM. Refer to BCS-80, "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.
- 3. 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-37, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK POWER SUPPLY CIRCUIT

Check BCM power supply circuit. Refer to BCS-38, "Diagnosis Procedure".

Is the circuit normal?

YES >> Replace BCM. Refer to BCS-80, "Exploded View".

NO >> Repair the malfunctioning part.

BCS

K

Α

В

D

Е

F

Н

INFOID:0000000006457838

Ν

Р

BCS-37

Revision: 2011 December

2011 G Coupe

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000006457839

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	Connector Terminal		
M118 1		Ground	Battery voltage
M119	11		Dattery 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:0000000006457840

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.

System	В	CM		Continuity
System	Connector	Terminal		Continuity
INPUT 1		107		
INPUT 2		109	Ground	Not existed
INPUT 3	M122	88		
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		43, "Refer-
INPUT 4		108		ence Value".
INPUT 5		87		

Is the measurement value normal?

YES >> GO TO 4.

NO >> Replace BCM. Refer to BCS-80, "Exploded View".

Revision: 2011 December BCS-39 2011 G Coupe

BCS

N

Р

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		43, "Refer-
INPUT 4	INPUT 4			ence Value".
INPUT 5		87		

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

YES >> Replace BCM. Refer to BCS-80, "Exploded View".

NO >> Replace the combination switch.

COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

COMBINATION SWITCH OUTPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000006457841

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	ВСМ		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	СМ		Continuity
System	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.

NOTF:

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

Р

Revision: 2011 December BCS-41 2011 G Coupe

K

BCS

Ν

COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

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

>> Replace BCM. Refer to $\underline{BCS-80, "Exploded View"}.$ >> 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
FR WIPER LOW	Other than front wiper switch LO	Off
FR WIPER LOW	R HI Other than front wiper switch HI Front wiper switch HI R LOW Other than front wiper switch LO Front wiper switch LO Front wiper switch LO Front wiper switch OFF Front washer switch ON Other than front wiper switch INT/AUTO Front wiper switch INT/AUTO Front wiper switch INT/AUTO R STOP Front wiper is not in STOP position Front wiper is in STOP position Wiper volume dial is in a dial position 1 - 7 GNAL R Other than turn signal switch RH Turn signal switch RH Turn signal switch LH Turn signal switch LH Turn signal switch 1ST and 2ND Lighting switch 1ST or 2ND Other than lighting switch 2ND Lighting switch PND Lighting switch PND Lighting switch PND Lighting switch PND SW Other than lighting switch PASS Lighting switch PASS CHT SW Front fog lamp switch ON SW INOTE: The item is indicated, but not monitored. Driver door opened Passenger door closed	On
ED WASHED OW	Front washer switch OFF	Off
FR WASHER SW	Other than front wiper switch HI Front wiper switch HI OW Other than front wiper switch LO Front wiper switch LO Front wiper switch OF Front washer switch ON Other than front wiper switch INT/AUTO Front wiper switch INT/AUTO Front wiper switch INT/AUTO Front wiper is not in STOP position Front wiper is in STOP position E Wiper volume dial is in a dial position 1 - 7 Other than turn signal switch RH Turn signal switch LH Turn signal switch LH Turn signal switch LH SW Other than lighting switch 1ST and 2ND Lighting switch 1ST or 2ND Other than lighting switch PI Lighting switch HI Lighting switch PND Uther than lighting switch 2ND Lighting switch 2ND Uther than lighting switch PASS Lighting switch AUTO Lighting switch AUTO Lighting switch AUTO Front fog lamp switch ON NOTE: The item is indicated, but not monitored. Driver door closed	On
ED WIDED INT	Other than front wiper switch INT/AUTO	Off
FR WIPER INT	Other than front wiper switch HI Front wiper switch HI Other than front wiper switch LO Front wiper switch LO Front wiper switch OFF Front washer switch OFF Front washer switch ON Other than front wiper switch INT/AUTO Front wiper switch INT/AUTO Front wiper switch INT/AUTO Front wiper is not in STOP position Wiper volume dial is in a dial position 1 - 7 LR Other than turn signal switch RH Turn signal switch RH Turn signal switch LH Turn signal switch LH Turn signal switch LH Ushing switch 1ST or 2ND Other than lighting switch HI Lighting switch HI Lighting switch HI Diter than lighting switch 2ND Lighting switch 2ND Uther than lighting switch PASS Lighting switch PASS Other than lighting switch AUTO Lighting switch AUTO Lighting switch AUTO Front fog lamp switch ON NOTE: The item is indicated, but not monitored. Driver door closed Driver door closed Driver door closed	On
ED WIDED STOD	Front wiper is not in STOP position	Off
FR WIPER STOP	Front wiper is in STOP position	On
INT VOLUME	Wiper volume dial is in a dial position 1 - 7	Wiper volume dial posi- tion
TUDNI CIONAL D	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
TUDN 0100141 1	Other than turn signal switch LH	Off
URN SIGNAL R URN SIGNAL L AIL LAMP SW	Turn signal switch LH	On
TAIL LAND OW	Other than lighting switch 1ST and 2ND	Off
AIL LAMP SW	Lighting switch 1ST or 2ND	On
	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 OVA	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
ED 500 0W	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On
RR FOG SW		Off
	Driver door closed	Off
DOOR SW-DR	Turn signal switch RH Other than turn signal switch LH Turn signal switch LH Other than lighting switch 1ST and 2ND Lighting switch 1ST or 2ND Other than lighting switch HI Lighting switch HI Lighting switch 2ND De SW 1 Other than lighting switch 2ND Lighting switch 2ND Uther than lighting switch 2ND Lighting switch 2ND Other than lighting switch 2ND Lighting switch 2ND Other than lighting switch PASS Lighting switch PASS Lighting switch AUTO Lighting switch AUTO Front fog lamp switch ON NOTE: The item is indicated, but not monitored. Driver door closed Driver door closed Passenger door closed	On
DOOD 0W 40	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
DOOR SW-RR	NOTE: The item is indicated, but not monitored.	Off

Revision: 2011 December BCS-43 2011 G Coupe

Α

В

С

Е

D

F

Н

K

L

BCS

Ν

0

Р

Monitor Item	Condition	Value/Status
DOOR SW-RL	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-BK	NOTE: The item is indicated, but not monitored.	Off
CDL LOCK SW	NOTE: The item is indicated, but not monitored. NOTE: The item is indicated, but not monitored. Other than power door lock switch LOCK Power door lock switch LOCK Other than power door lock switch UNLOCK Power door lock switch UNLOCK Other than power door lock switch UNLOCK Power door lock switch UNLOCK Other than driver door key cylinder LOCK position Driver door key cylinder LOCK position Other than driver door key cylinder UNLOCK position Driver door key cylinder UNLOCK position Oriver door key cylinder UNLOCK position NOTE: The item is indicated, but not monitored. Hazard switch is OFF Hazard switch is ON NOTE: The item is indicated, but not monitored. NOTE: The item is indicated, but not monitored. NOTE: Trunk lid opener cancel switch OFF Trunk lid opener cancel switch OFF While the trunk lid opener switch ON Trunk lid opener switch OFF While the trunk lid opener switch is turned ON Trunk lid opened LOCK button of the Intelligent Key is not pressed LOCK button of the Intelligent Key is not pressed UNLOCK button of the Intelligent Key is not pressed TRUNK OPEN button of the Intelligent Key is not pressed TRUNK OPEN button of the Intelligent Key is not pressed PANIC button of the Intelligent Key is not pressed UNLOCK button of the Intelligent Key is not pressed UNLOCK button of the Intelligent Key is not pressed UNLOCK button of the Intelligent Key is not pressed UNLOCK button of the Intelligent Key is not pressed UNLOCK button of the Intelligent Key is not pressed UNLOCK button of the Intelligent Key is not pressed DANIC button of the Intelligent Key is not pressed UNLOCK button of the Intelligent Key is not pressed DANIC button of the Intelligent Key is pressed and held LOCK/UNLOCK button of the Intelligent Key is not pressed DANIC button of the Intelligent Key is pressed and held LOCK/UNLOCK button of the Intelligent Key is pressed and held simultaneously Bright outside of the vehicle Dark outside of the vehicle Dark outside of the vehicle Dark outside of the vehicle Driver door request switch is not p	Off
CDL LOCK SVV		On
CDL LINI OCK SW	Other than power door lock switch UNLOCK	Off
CDL UNLOCK SW	Power door lock switch UNLOCK	On
KEY CYLLK-SW	Other than driver door key cylinder LOCK position	Off
KET OTE EK-OW	Driver door key cylinder LOCK position	On
KEA CAL TINI-2/W	Other than driver door key cylinder UNLOCK position	Off
RETUTE OIN-SW	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR		Off
LAZADD SW	Hazard switch is OFF	Off
TIAZAND SW	Hazard switch is ON	On
REAR DEF SW		Off
H/L WASH SW		Off
TP CANCEL SW	Trunk lid opener cancel switch OFF	Off
TR CANCEL 3W	Trunk lid opener cancel switch ON	On
TR/RD OPEN SW	Trunk lid opener switch OFF	Off
TROBE OF ENGIN	While the trunk lid opener switch is turned ON	On
TRNK/HAT MNTR	Trunk lid closed	Off
	Trunk lid opened	On
RKE-LOCK	LOCK button of the Intelligent Key is not pressed	Off
		On
RKE-UNLOCK	UNLOCK button of the Intelligent Key is not pressed	Off
		On
RKE-TR/BD	5 , 1	Off
		On
RKE-PANIC	2 7 1	Off
		On
The item is indicated, but not monitored. NOTE: Other than power door lock switch LOCK DL UNLOCK SW DL UNLOC	Off	
		On
RKE-MODE CHG		Off
	LOCK/UNLOCK button of the Intelligent Key is pressed and held simultaneously	On
OPTICAL SENSOR		Close to 5 V
		Close to 0 V
REQ SW -DR		Off
		On
REQ SW -AS		Off
		On
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off

Α

В

D

Е

F

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off
DEO CW. DD/TD	Trunk lid opener request switch is not pressed	Off
KEQ SW -BD/TR	Trunk lid opener request switch is pressed	On
DUCU CW	Push-button ignition switch (push switch) is not pressed	Off
705H 5W	Push-button ignition switch (push switch) is pressed	On
CN DIV2 E/D	Ignition switch in OFF or ACC position	Off
GN KL12 -F/B	Ignition switch in ON position	On
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off
	The clutch pedal is not depressed	Off
LUCH SW	The clutch pedal is depressed	On
	The brake pedal is depressed when No. 7 fuse is blown	Off
RAKE SW 1	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
REQ SW -RL REQ SW -BD/TR Trunk lid opener request switch is not pressed Trunk lid opener request switch is pressed Push-button ignition switch (push switch) is not pressed Push-button ignition switch (push switch) is pressed Push-button ignition switch (push switch) is pressed Ignition switch in OFF or ACC position Ignition switch in ON position ACC RLY -F/B NOTE: The item is indicated, but not monitored. CLUCH SW The clutch pedal is not depressed The clutch pedal is depressed The brake pedal is depressed when No. 7 fuse is blown The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is male BRAKE SW 2 The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is male BRAKE SW 2 The brake pedal is not depressed The clutch pedal is depressed Selector lever in P position (Except M/T models) Selector lever in any position other than P (Except M/T models) The clutch pedal is not depressed (M/T models) Selector lever in P or N position SCL -LOCK NOTE: For models without steering lock unit, this item is not monitored. Sclaering is unlocked Sclaering is incloked Sclaering is incloked Sclaering is incloked Driver door is unlocked Push-button ignition switch in ON position SET PN-IPDM Push-button ignition switch in OFF or ACC position Ignition switch in OFF or ACC position Selector lever in any position other than P and N (Except M/T models) * Selector lever in any position other than P Selector lever in an	Off	
	The brake pedal is depressed	On
DETE/CANCL SW		Off
		On
CET DN/N CW/	Selector lever in any position other than P and N	Off
OF I FIN/IN SVV	Selector lever in P or N position	On
	Steering is unlocked	Off
or models without teering lock unit, this	Steering is locked	On
	Steering is locked	Off
For models without steering lock unit, this	Steering is unlocked	On
	Ignition switch in OFF or ACC position	Off
For models without steering lock unit, this	Ignition switch in ON position	On
REQ SW -BD/TR PUSH SW GN RLY2 -F/B ACC RLY -F/B CLUCH SW BRAKE SW 1 BRAKE SW 2 DETE/CANCL SW SFT PN/N SW S/L -LOCK NOTE: For models without steering lock unit, this tem is not monitored. S/L -UNLOCK NOTE: For models without steering lock unit, this tem is not monitored. S/L PUNLOCK NOTE: For models without steering lock unit, this tem is not monitored. S/L RELAY-F/B NOTE: For models without steering lock unit, this tem is not monitored. JNLK SEN -DR PUSH SW -IPDM GN RLY1 -F/B DETE SW -IPDM	Driver door is unlocked	Off
JINLK SEIN -DK	Driver door is locked	On
	Push-button ignition switch (push-switch) is not pressed	Off
OOLLOW -ILDIM	Push-button ignition switch (push-switch) is pressed	On
GN RIV1 -E/R	Ignition switch in OFF or ACC position	Off
JIN INLI I "F/D	Ignition switch in ON position	On
NETE SW/_IDDM	Selector lever in any position other than P	Off
LIL GVV -IFDIVI	The item is indicated, but not monitored. The clutch pedal is not depressed The clutch pedal is depressed The brake pedal is depressed when No. 7 fuse is blown The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal The brake pedal is not depressed The brake pedal is not depressed The brake pedal is depressed • Selector lever in P position (Except M/T models) • The clutch pedal is depressed (M/T models) • The clutch pedal is depressed (M/T models) • The clutch pedal is not depressed (M/T models) Selector lever in any position other than P (Except M/T models) Selector lever in any position other than P and N Selector lever in P or N position Steering is unlocked Steering is locked Steering is locked Steering is locked Ignition switch in OFF or ACC position Ignition switch in ON position Driver door is locked Push-button ignition switch (push-switch) is not pressed Ignition switch in OFF or ACC position Ignition switch in OFF or ACC position Ignition switch in ON position Selector lever in any position other than P Selector lever in any position other than P Selector lever in any position other than P Selector lever in any position other than P and N (Except M/T models) • The clutch pedal is not depressed (M/T models)	On
SET DNI JIDDM		Off
DE I FIN -IPUIVI		On

Revision: 2011 December BCS-45 2011 G Coupe

Monitor Item	Condition	Value/Status
CET D. MET	Selector lever in any position other than P	Off
SFT P -MET	Selector lever in P position	On
OFT N. MET	Selector lever in any position other than N	Off
SFT N -MET	Selector lever in N position	On
	Engine stopped	Stop
ENGINE OTATE	While the engine stalls	Stall
ENGINE STATE	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	Steering is unlocked	Off
NOTE: For models without steering lock unit, this item is not monitored.	Steering is locked	On
S/L UNLK-IPDM	Steering is locked	Off
NOTE: For models without steering lock unit, this item is not monitored.	Steering is unlocked	On
S/L RELAY-REQ NOTE:	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK	Off
For models without steering lock unit, this item is not monitored.	Steering lock system are not the LOCK condition or the changing condition from LOCK to UNLOCK	On
VEH SPEED 1	While driving	Equivalent to speed- ometer reading
VEH SPEED 2	While driving	Equivalent to speed- ometer reading
	Driver door is locked	LOCK
DOOR 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 FLAG	Driver side door is open after ignition switch is turned OFF (Selector lever is in the P position except for M/T models)	Reset
	Ignition switch is ON	Set
	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 of the Intelligent Key
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	_
CONFINALD	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 not recognized by the fourth key ID registered to BCM. The key ID that the key slot receives is recognized by the fourth key ID registered to BCM. The key ID that the key slot receives is not recognized by the third key ID registered to BCM. The key ID that the key slot receives is recognized by the third key ID registered to BCM. The key ID that the key slot receives is recognized by the second key ID registered to BCM. The key ID that the key slot receives is recognized by the second key ID registered to BCM. The key ID that the key slot receives is recognized by the second key ID registered to BCM. The key ID that the key slot receives is recognized by the first key ID registered to BCM. The key ID that the key slot receives is recognized by the first key ID registered to BCM. The ID of fourth Intelligent Key is registered to BCM The ID of fourth Intelligent Key is not registered to BCM The ID of third Intelligent Key is not registered to BCM The ID of second Intelligent Key is not registered to BCM The ID of second Intelligent Key is not registered to BCM The ID of second Intelligent Key is not registered to BCM The ID of first Intelligent Key is not registered to BCM The ID of first Intelligent Key is registered to BCM The ID of first Intelligent Key is registered to BCM The ID of second Intelligent Key is registered to BCM The ID of second Intelligent Key is registered to BCM The ID of second Intelligent Key is registered to BCM The ID of first Intelligent Key is registered to BCM The ID of first Intelligent Key is registered to BCM The ID of first Intelligent Key is not registered to BCM The ID of first Intelligent Key is not registered to BCM Ignition switch ON (Only when the signal from the transmitter is received) ESS FR Ignition switch ON (Only when the signal from the transmitter is received) ID of front LH tire transmitter is not registered ID of front RH tire transmitter is not registered ID of for the RH tire transmitter is re	Done
CONFIRM ID3 CONFIRM ID2 CONFIRM ID1 CP 4 CP 3 CP 2 CP 1 LIR PRESS FL LIR PRESS FR		Yet
CONTINUIDS	The key ID that the key slot receives is not recognized by the third key ID registered to BCM. The key ID that the key slot receives is recognized by the third key ID registered to BCM. The key ID that the key slot receives is not recognized by the second key ID registered to BCM. The key ID that the key slot receives is recognized by the second key ID registered to BCM. The key ID that the key slot receives is recognized by the first key ID registered to BCM. The key ID that the key slot receives is not recognized by the first key ID registered to BCM. The key ID that the key slot receives is recognized by the first key ID registered to BCM. The ID of fourth Intelligent Key is not registered to BCM The ID of third Intelligent Key is registered to BCM The ID of third Intelligent Key is registered to BCM The ID of second Intelligent Key is registered to BCM The ID of first Intelligent Key is not registered to BCM The ID of first Intelligent Key is not registered to BCM The ID of first Intelligent Key is registered to BCM S FL Ignition switch ON (Only when the signal from the transmitter is received) S FR Ignition switch ON (Only when the signal from the transmitter is received)	Done
tered to BCM. The key ID that the key slot receives is recognized by the third to BCM. The key ID that the key slot receives is not recognized by the istered to BCM. The key ID that the key slot receives is not recognized by the sectored to BCM. The key ID that the key slot receives is recognized by the sectored to BCM. The key ID that the key slot receives is not recognized by the tered to BCM. The key ID that the key slot receives is recognized by the first to BCM. The ID of fourth Intelligent Key is not registered to BCM The ID of fourth Intelligent Key is registered to BCM The ID of third Intelligent Key is registered to BCM The ID of third Intelligent Key is registered to BCM The ID of second Intelligent Key is not registered to BCM The ID of second Intelligent Key is registered to BCM The ID of first Intelligent Key is not registered to BCM The ID of first Intelligent Key is not registered to BCM The ID of first Intelligent Key is registered to BCM The ID of first Intelligent Key is not registered to BCM The ID of second Intelligent Key is registered to BCM The ID of second Intelligent Key is registered to BCM The ID of second Intelligent Key is not registered to BCM The ID of second Intelligent Key is registered to BCM The ID of second Intelligent Key is registered to BCM The ID of second Intelligent Key is not registered to BCM The ID of second Intelligent Key is registered to BCM The ID of second Intelligent Key is not registered to BCM The ID of second Intelligent Key is not registered to BCM The ID of second Intelligent Key is not registered to BCM The ID of second Intelligent Key is not registered to BCM The ID of second Intelligent Key is not registered to BCM The ID of second Intelligent Key is not registered to BCM The ID of second Intelligent Key is not registered to BCM The ID of second Intelligent Key is not registered to BCM The ID of second Intelligent Key is not registered to BCM The ID of second Intelligent Key is not registered to BCM The ID of second Int		Yet
		Done
The key ID that the key slot receives is not recognized by the third key ID to BCM. The key ID that the key slot receives is recognized by the third key ID recommendation to BCM. The key ID that the key slot receives is recognized by the second key ID to BCM. The key ID that the key slot receives is not recognized by the second key ID the tered to BCM. The key ID that the key slot receives is recognized by the second key ID the tered to BCM. The key ID that the key slot receives is not recognized by the first key ID received to BCM. The key ID that the key slot receives is recognized by the first key ID received to BCM. The key ID that the key slot receives is recognized by the first key ID received to BCM. The ID of fourth Intelligent Key is not registered to BCM. The ID of fourth Intelligent Key is registered to BCM. The ID of third Intelligent Key is registered to BCM. The ID of second Intelligent Key is not registered to BCM. The ID of second Intelligent Key is not registered to BCM. The ID of first Intelligent Key is not registered to BCM. The ID of first Intelligent Key is not registered to BCM. The ID of first Intelligent Key is not registered to BCM. The ID of first Intelligent Key is not registered to BCM. The ID of first Intelligent Key is not registered to BCM. The ID of first Intelligent Key is not registered to BCM. The ID of first Intelligent Key is registered to BCM. AIR PRESS FL. Ignition switch ON (Only when the signal from the transmitter is received ID of front LH tire transmitter is registered. ID REGST FL1 ID of front LH tire transmitter is registered. ID of front RH tire transmitter is registered. ID of front RH tire transmitter is registered.		Yet
		Done
The key ID that the key slot receives is not recognitered to BCM. The key ID that the key slot receives is recognized to BCM. The key ID that the key slot receives is not recognitered to BCM. The key ID that the key slot receives is not recognitered to BCM. The key ID that the key slot receives is recognized to BCM. The key ID that the key slot receives is not recognistered to BCM. The key ID that the key slot receives is not recognistered to BCM. The key ID that the key slot receives is recognized tered to BCM. The key ID that the key slot receives is not recognitered to BCM. The key ID that the key slot receives is recognized to BCM. The ID of fourth Intelligent Key is not registered to BCM. The ID of fourth Intelligent Key is not registered to BCM. The ID of third Intelligent Key is not registered to BCM. The ID of second Intelligent Key is registered to BCM. The ID of second Intelligent Key is registered to BCM. The ID of first Intelligent Key is registered to BCM. The ID of first Intelligent Key is registered to BCM. The ID of first Intelligent Key is registered to BCM. AIR PRESS FL Ignition switch ON (Only when the signal from the Ignition switch ON (Only when the signal from the Ignition switch ON (Only when the signal from the Ignition switch ON (Only when the signal from the ID REGST FL1 ID of front LH tire transmitter is registered ID of front LH tire transmitter is registered ID of front LH tire transmitter is registered ID of front RH tire transmitter is registered ID of front RH tire transmitter is not registered	The ID of fourth Intelligent Key is not registered to BCM	Yet
Г Ч	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM. The key ID that the key slot receives is recognized by the fourth key ID registered to BCM. The key ID that the key slot receives is not recognized by the third key ID registered to BCM. The key ID that the key slot receives is recognized by the third key ID registered to BCM. The key ID that the key slot receives is recognized by the second key ID registered to BCM. The key ID that the key slot receives is not recognized by the second key ID registered to BCM. The key ID that the key slot receives is recognized by the second key ID registered to BCM. The key ID that the key slot receives is recognized by the first key ID registered to BCM. The ID of fourth Intelligent Key is registered to BCM The ID of fourth Intelligent Key is registered to BCM The ID of third Intelligent Key is not registered to BCM The ID of second Intelligent Key is registered to BCM The ID of second Intelligent Key is registered to BCM The ID of first Intelligent Key is registered to BCM The ID of first Intelligent Key is registered to BCM The ID of first Intelligent Key is registered to BCM S FL Ignition switch ON (Only when the signal from the transmitter is received) S FR Ignition switch ON (Only when the signal from the transmitter is received) S FR Ignition switch ON (Only when the signal from the transmitter is received) ID of front LH tire transmitter is registered ID of front RH tire transmitter is registered ID of front RH tire transmitter is registered ID of front RH tire transmitter is not registered ID of rear RH tire transmitter is not registered ID of rear RH tire transmitter is not registered ID of rear RH tire transmitter is not registered ID of rear RH tire transmitter is not registered ID of rear RH tire transmitter is not registered ID of rear RH tire transmitter is not registered ID of rear RH tire transmitter is not registered ID of rear RH tire transmitter is not registered ID of rear RH tire transmitter is registered ID o	Done
TP 3	The ID of third Intelligent Key is not registered to BCM	Yet
	The ID of third Intelligent Key is registered to BCM	Done
P 2	The ID of second Intelligent Key is not registered to BCM	Yet
P 2	The ID of second Intelligent Key is registered to BCM	Done
-D 4	The ID of first Intelligent Key is not registered to BCM	Yet
PI	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
CONFIRM ID4 The key ID that the key slot tered to BCM. The key ID that the key slot to BCM. The key ID that the key slot to BCM. The key ID that the key slot tered to BCM. The key ID that the key slot tered to BCM. The key ID that the key slot istered to BCM. The key ID that the key slot istered to BCM. The key ID that the key slot tered to BCM. The key ID that the key slot tered to BCM. The key ID that the key slot tered to BCM. The key ID that the key slot tered to BCM. The ID of fourth Intelligent in the ID of fourth Intelligent in the ID of third Intelligent in the ID of its Intelligent in ID of its ID of i	ID of front LH tire transmitter is registered	Done
J KEGOTTET	ID of front LH tire transmitter is not registered	Yet
The key ID that the key slot receives is recognized by the to BCM. The key ID that the key slot receives is not recognized tered to BCM. The key ID that the key slot receives is not recognized tered to BCM. The key ID that the key slot receives is not recognized by the BCM. The key ID that the key slot receives is not recognized istered to BCM. The key ID that the key slot receives is not recognized by the slot of BCM. The key ID that the key slot receives is not recognized by the slot of BCM. The key ID that the key slot receives is not recognized the slot of BCM. The key ID that the key slot receives is not recognized by the slot of BCM. The key ID that the key slot receives is not recognized by the slot of BCM. The ID of fourth Intelligent Key is not registered to BCM. The ID of fourth Intelligent Key is not registered to BCM. The ID of third Intelligent Key is not registered to BCM. The ID of second Intelligent Key is registered to BCM. The ID of second Intelligent Key is registered to BCM. The ID of second Intelligent Key is registered to BCM. The ID of first Intelligent Key is registered to BCM. The ID of first Intelligent Key is registered to BCM. The ID of first Intelligent Key is registered to BCM. AIR PRESS FL. Ignition switch ON (Only when the signal from the transmitter is registered. ID REGST FL1 ID of front LH tire transmitter is registered. ID of front LH tire transmitter is registered. ID of front RH tire transmitter is not registered. ID of rear RH tire transmitter is not registered. ID of rear RH tire transmitter is not registered. ID of rear RH tire transmitter is not registered. ID of rear RH tire transmitter is not registered. ID of rear LH tire transmitter is not registered. ID of rear LH tire transmitter is not registered. ID of rear LH tire transmitter is not registered. ID of rear LH tire transmitter is not registered. ID of rear LH tire transmitter is not registered. ID of rear LH tire transmitter is not registered. ID of rear LH tire transmitter is not	ID of front RH tire transmitter is registered	Done
D NEGOT I'NT	ID of front RH tire transmitter is not registered	Yet
D DEGST DD1	ID of rear RH tire transmitter is registered	Done
ט עבפטו גגו	ID of rear RH tire transmitter is not registered	Yet
The ID of third Intelligent Key is registered to BCM The ID of second Intelligent Key is not registered to BCM The ID of second Intelligent Key is registered to BCM The ID of first Intelligent Key is not registered to BCM The ID of first Intelligent Key is not registered to BCM The ID of first Intelligent Key is registered to BCM AIR PRESS FL Ignition switch ON (Only when the signal from the transmitter is rece AIR PRESS RR Ignition switch ON (Only when the signal from the transmitter is rece AIR PRESS RL Ignition switch ON (Only when the signal from the transmitter is rece AIR PRESS RL ID of front LH tire transmitter is registered ID of front LH tire transmitter is not registered ID of front RH tire transmitter is not registered ID of rear RH tire transmitter is not registered ID of rear RH tire transmitter is registered	ID of rear LH tire transmitter is registered	Done
D KEGOT KLT	The ID of first Intelligent Key is registered to BCM S FL Ignition switch ON (Only when the signal from the transmitter is received) S FR Ignition switch ON (Only when the signal from the transmitter is received) S RR Ignition switch ON (Only when the signal from the transmitter is received) S RL Ignition switch ON (Only when the signal from the transmitter is received) FL1 ID of front LH tire transmitter is registered ID of front LH tire transmitter is not registered ID of front RH tire transmitter is registered ID of rear RH tire transmitter is not registered ID of rear RH tire transmitter is not registered ID of rear RH tire transmitter is not registered ID of rear LH tire transmitter is not registered ID of rear LH tire transmitter is not registered ID of rear LH tire transmitter is not registered ID of rear LH tire transmitter is not registered ID of rear LH tire transmitter is not registered ID of rear LH tire transmitter is not registered ID of rear LH tire transmitter is not registered ID of rear LH tire transmitter is not registered ID of rear LH tire transmitter is not registered ID of rear LH tire transmitter is not registered	Yet
AVA DAUNIO LARAD	Tire pressure indicator OFF	Off
WAKNING LAMP	Tire pressure indicator ON	On
	Tire pressure warning alarm is not sounding	Off
3UZZER	Tire pressure warning alarm is sounding	On

Revision: 2011 December BCS-47 2011 G Coupe

Α

В

С

Е

D

F

G

Н

1

K

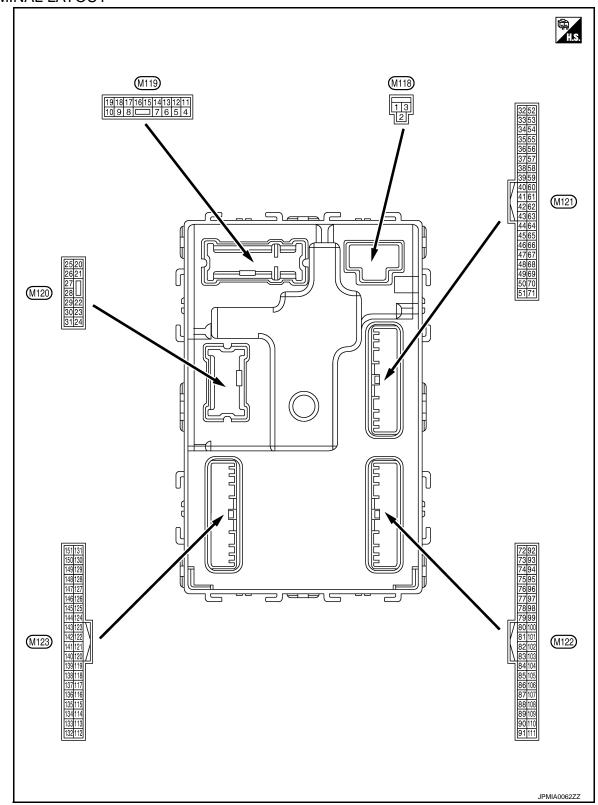
BCS

Ν

0

Р

TERMINAL LAYOUT



PHYSICAL VALUES

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

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
17 (W)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch OFF Turn signal switch RH	0 V (V) 15 10 5 0 1 s PKID0926E 6.5 V
					Turn signal switch OFF	0 V
18 (BG)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
19	0	Room lamp timer	0	Interior room	OFF	12 V
(V)	Ground	control	Output	lamp	ON	0 V
				Ignition switch ON	Turn signal switch OFF	0 V
20 (V)	Ground	Turn signal RH (Rear)	Output		Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
23	0	Touchilden	Outrast	To only list	OPEN (Trunk lid opener actuator is activated)	12 V
(LG)	Ground	Trunk lid open	Output	Trunk lid	Other than OPEN (Trunk lid opener actuator is not activated)	0 V
					Turn signal switch OFF	0 V
25 (Y)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
30		T	<u> </u>	Trunk room	ON	0 V
(P)	Ground	Trunk room lamp	Output	lamp	OFF	12 V

	nal No.	Description				Value	А
+ (VVire	color)	Signal name	Input/ Output		Condition	(Approx.)	А
34		Trunk room antenna		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	B C
(SB)	Ground	(-)	Output	Output OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	E
35	Canada	Trunk room antenna	Outout	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB	G H
(V)	Ground Trunk room antenna (+) Output OFF		When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	J K		
38	Occupation	Rear bumper anten-	0.4-4	When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	BC
(B)	Ground Rear bumper antenna (–) Output quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	P			

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
39	Ground	Rear bumper anten-	Output	When the trunk lid opener re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(W)	Clound	na (+)	Culput	quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
47 (Y)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC	12 V 0 V
50 (BG)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (Trunk lid is closed)	(V) 15 10 5 0 10 ms 10 ms JPMIA0011GB
					ON (Trunk lid is opened)	0 V
				Ignition switch ON (A/T mod- els)	When selector lever is in P or N position	12 V
52	Cravad	Ctoutou volov control	Out to ut		When selector lever is not in P or N position	0 V
(R)	Ground	Starter relay control	Output	Ignition switch ON (M/T mod-	When the clutch pedal is depressed	Battery voltage
				els)	When the clutch pedal is not depressed	0 V
60* ³	Ground	Push-button ignition	Input	Push-button ig- nition switch	Pressed	0 V
(BR)		switch (Push switch)	'	(Push switch)	Not pressed	Battery voltage
					ON (Pressed)	0 V
61 (SB)	Ground	Trunk lid opener request switch	Input	Trunk lid open- er request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V
64		Intelligent Key warn-		Intelligent Key	Sounding	0 V
(G)	Ground	ing buzzer (Engine room)	Output	warning buzzer (Engine room)	Not sounding	12 V

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description			Condition	Value	А		
+	-	Signal name	Input/ Output		Condition	(Approx.)			
					Pressed	0 V	В		
67 (GR)	Ground	Trunk lid opener switch	Input	Input Trunk lid opener er switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0011GB	C		
72	Cround	Room antenna 2 (–)	Output				When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB	E F
(R) Gro	Ground	(Center console)		Ignition switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 1	H		
73	Ground	Room antenna 2 (+)	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	K L		
(G) Gr	Ciound	(Center console)	enter console)	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	N O		

Revision: 2011 December BCS-53 2011 G Coupe

Ρ

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
74		Passenger door an-		When the passenger door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(SB)	Ground	tenna (–)	Output		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 operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0062GB
(BR)	Ciodila	tenna (+)	Gupu		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
76	Ground	Driver door antenna	Quitout	When the driver door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(V)	Ground	(-)	Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

	nal No.	Description				Value	А
+ (VVire	color)	Signal name	Input/ Output		Condition	(Approx.)	Α
77		Driver door antenna		When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	С
(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 JMKIA0063GB	E
78	Canada	Room antenna 1 (–)	Outsit	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	G H
(Y)	Ground	(Instrument panel)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	J K
79		Room antenna 1 (+)		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	BC N
79 (BR) Groun	Ground	Ground (Instrument panel)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	O

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
80 (GR)	Ground	NATS antenna amp.	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.	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 (SB)	Ground	Ignition relay [Fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V 12 V
83	Ground	Remote keyless entry receiver communica-	Input/	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB
(Y)	Clound	tion	Output	When operating gent Key	either button on the Intelli-	(V) 15 10 5 1 ms JMKIA0065GB
					All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
87 (Y)			Input	Combination switch	Front fog lamp switch ON (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB
					Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 2 Wiper volume dial 6 Wiper volume dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V

	nal No.	Description				Value
(Wire +	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
88	Ground	Combination switch	Input	Combination	Lighting switch HI (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V
(BG)	Glound	INPUT 3	mput	switch	Lighting switch 2ND (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V
					Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 2 Wiper volume dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V
89* ⁴		Push-button ignition		Push-button ig-	Pressed	0 V
(BR)	Ground	switch (Push switch)	Input	nition switch (push switch)	Not pressed	Battery voltage
90 (P)	Ground	CAN-L	Input/ Output			
91 (L)	Ground	CAN-H	Input/ Output		_	_
					OFF	0 V
92 (LG)	Ground	Key slot illumination	Output	Key slot illumi- nation	Blinking	(V) 15 10 5 0 JPMIA0015GB
						6.5 V
					ON	12 V

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
93 (GR)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
(011)					ON	0 V
95	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
(BG)	Ground	Acc relay control	Output	ignition switch	ACC or ON	12 V
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output		_	12 V
97* ⁴	Ground	Steering lock condi-	Input	Steering lock	LOCK status	0 V
(L)	Ground	tion No. 1	Πραι	Steering lock	UNLOCK status	12 V
98* ⁴	Cround	Steering lock condi-	Innut	Stooring look	LOCK status	12 V
(P)	Ground	tion No. 2	Input	Steering lock	UNLOCK status	0 V
		Selector lever P posi-		Selector lever	P position	0 V
		tion switch		Selector lever	Any position other than P	12 V
99		ASCD clutch switch (M/T models without		ASCD clutch	OFF (Clutch pedal is depressed)	0 V
(R)* ¹ (BR)* ²	Ground	ICC)	Input	switch	ON (Clutch pedal is not depressed)	12 V
	ICC clutch switch (M/		ICC clutch	OFF (Clutch pedal is depressed)	0 V	
		T models with ICC)		switch	ON (Clutch pedal is not depressed)	12 V
				ON (Pressed)	0 V	
100 (Y)	Ground	Passenger door request switch	Input	Passenger door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016G 1.0 V
					ON (Pressed)	0 V
101 (P)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GI
102	0	Blower fan motor re-	O: -4 1	Impition of 101	OFF or ACC	0 V
(BG)	Ground	lay control	Output	Ignition switch	ON	12 V
103 (P)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch (DFF	12 V
106*4	C=====================================	Steering lock unit	O: 14m : 14	Ignition assistati	OFF or ACC	12 V
(SB)	Ground	power supply	Output	Ignition switch	ON	0 V

	nal No.	Description				Value
+	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper volume 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

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

	nal No.	Description	1		O Brit	Value	А
+	-	Signal name	Input/ Output		Condition	(Approx.)	$\overline{\Lambda}$
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB	B C
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB	E F
109 (W)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper volume dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	Н
					Front wiper switch INT/ AUTO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V	J K L
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V	BCS
					ON	0 V	0
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V	Р

	nal No.	Description	1			Value
+ (VVire	color)	Signal name	Input/ Output		Condition	(Approx.)
					LOCK status	12 V
111* ⁴ (Y)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK or UNLOCK	(V) 15 10 50 ms JMKIA0066GB
					For 15 seconds after UN- LOCK	12 V
					15 seconds or later after UNLOCK	0 V
112 (R)	Ground	Rain sensor serial link	Input/ Output	Ignition switch C	DN	(V) 15 10 5 0 10ms JPMIA0156GB 8.7 V
113				Ignition switch	When bright outside of the vehicle	Close to 5 V
(BG)	Ground	Optical sensor	Input	ON	When dark outside of the vehicle	Close to 0 V
114	Ground	Clutch interlock	Input	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
		Stop lamp switch 2		Stop lamp	OFF (Brake pedal is not depressed)	0 V
118	Ground	(Without ICC)	Input	switch	ON (Brake pedal is depressed)	Battery voltage
(BR)	Cround	Stop lamp switch 2	mpat	Stop lamp switch OFF (Brake pedal is not depressed) and ICC brake hold relay OFF		0 V
		(With ICC)			h ON (Brake pedal is de- brake hold relay ON	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

A

В

С

D

Е

F

Н

Κ

BCS

Ν

0

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
121 (SB)	Ground	Key slot switch	Input	slot	gent Key is inserted into key	12 V
-				key slot		0 V
123 (V)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V Battery voltage
124 (R)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) 15 10 5 0 JPMIA0011GB 11.8 V
					ON (Door open)	0 V
129 (BG)	Ground	Trunk lid opener cancel switch	Input	Trunk lid open- er cancel switch	CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB
					ON	0 V
132 (V)	Ground	Power window switch communication	Input/ Output	Ignition switch C	N	(V) 15 10 5 0 10 ms JPMIA0013GB
				Ignition switch C	OFF or ACC	10.2 V
				-gimon ownor	ON (Tail lamps OFF)	9.5 V
133 (L)	Ground	Push-button ignition switch illumination	Output	Push-button ig- nition switch il- lumination	ON (Tail lamps ON)	NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level. (V) 15 10 5 10 10 10 10 10 10 10 10 10 10 10 10 10
					OFF	0 V
134 (LG)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF ON	Battery voltage 0 V
137 (BG)	Ground	Receiver and sensor ground	Input	Ignition switch C		0 V

	inal No.	Description				Value
+ (vvire	e color)	Signal name	Input/ Output		Condition	(Approx.)
138	Ground	Receiver and sensor	Output	Ignition switch	OFF	0 V
(V)	Ground	power supply	Output	ignition switch	ACC or ON	5.0 V
139	Ground	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 ••• 0.2s
(L)		er communication	Output	ON	When receiving the signal from the transmitter	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
140	Ground	Selector lever P/N	Input	Selector lever	P or N position	12 V
(B)	Ground	position (A/T models)	IIIput	Selector level	Except P and N positions	0 V
					ON	0 V
141 (W)	Ground	Security indicator	Output	Security indicator	Blinking	(V) 15 10 5 0 1 s 1 s JPMIA0014GB
					OFF	12 V
					All switches OFF	0 V
					Lighting switch 1ST	
				Combination	Lighting switch HI	(V)
142	Ground	Combination switch	Output	switch	Lighting switch 2ND	10
(BR)	Greand	OUTPUT 5	Carpar	(Wiper volume dial 4)	Turn signal switch RH	2 ms JPMIA0031GB
					All switches OFF (Wiper volume dial 4)	10.7 V 0 V
					Front wiper switch HI (Wiper volume dial 4)	(V)
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 2 Wiper volume dial 3 Wiper volume dial 6 Wiper volume dial 7	15 10 5 0 2 ms JPMIA0032GB

Α

В

С

D

Е

F

G

Н

K

L

BCS

Ν

0

Ρ

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description			0 111	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper volume dial 4)	0 V
					Front washer switch ON (Wiper volume dial 4)	(V)
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 5 Wiper volume dial 6	10 5 0 2 ms JPMIA0033GB
					All switches OFF	0 V
					Front wiper switch INT/ AUTO	(V)
145		Combination switch		Combination switch	Front wiper switch LO	15
(L)		(Wiper volume dial 4)	Lighting switch AUTO	5 0 2 ms JPMIA0034GB		
					All switches OFF	0 V
					Front fog lamp switch ON	
				Combination	Lighting switch 2ND	(V)
146	Ground	Combination switch	Output	switch	Lighting switch PASS	10
(SB)	Ground	OUTPUT 4	Output	(Wiper volume dial 4)	Turn signal switch LH	0 JPMIA0035GB 10.7 V
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (Door open)	0 V
151	Ground	Rear window defog-	Output	Rear window	Active	0 V
(G)	2.34.14	ger relay control	- a.pat	defogger	Not activated	Battery voltage

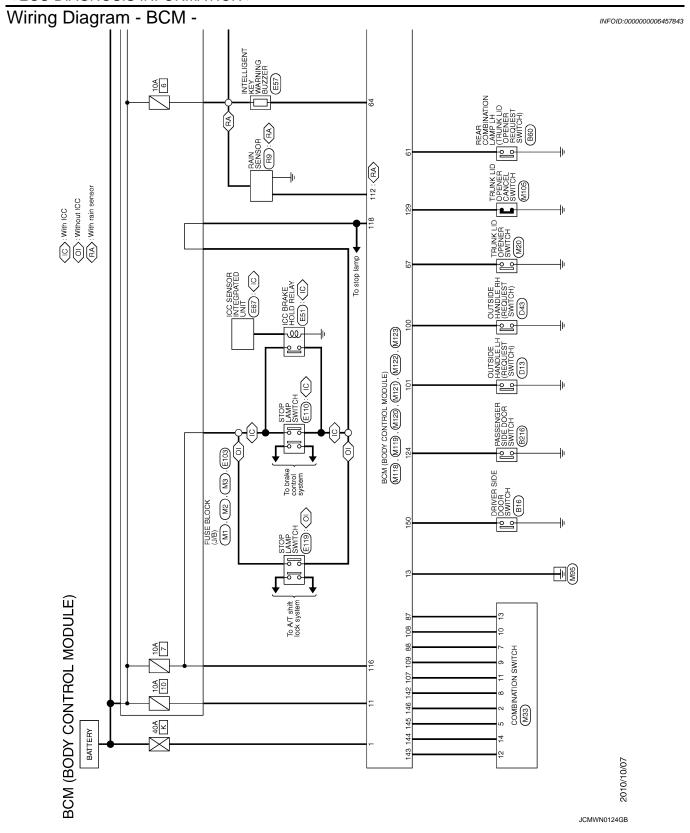
^{• *1:} A/T models

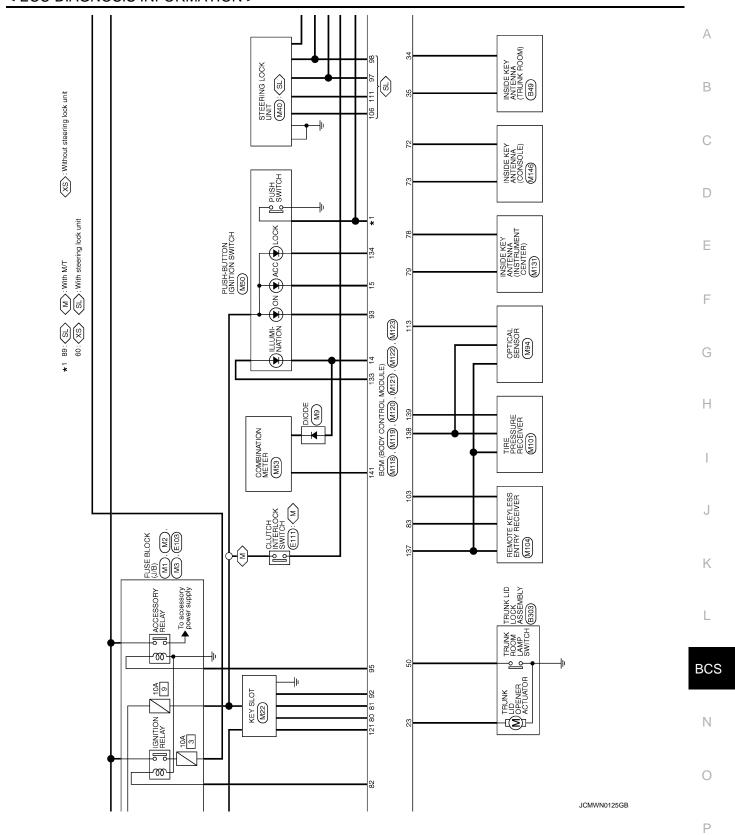
Revision: 2011 December BCS-65 2011 G Coupe

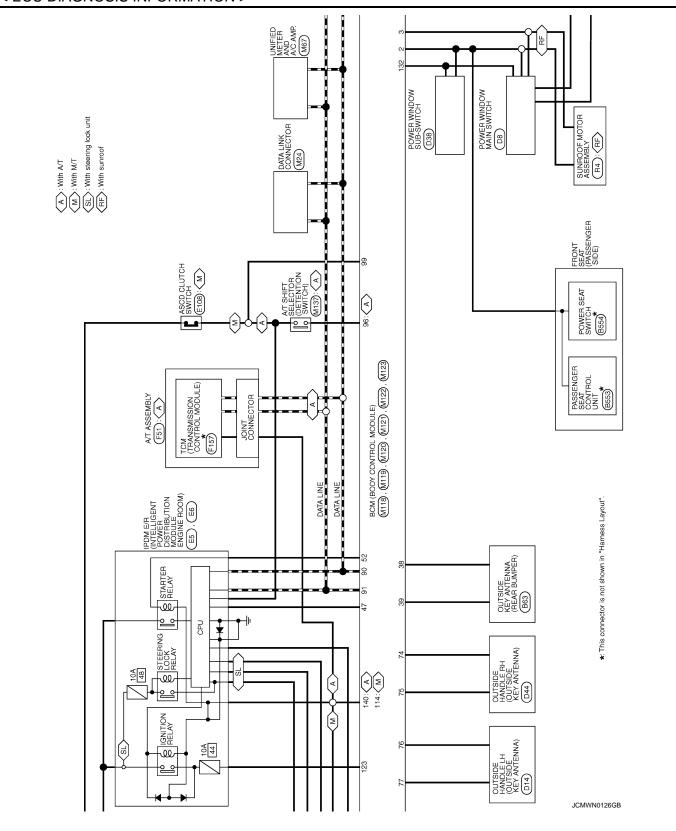
^{• *2:} M/T models

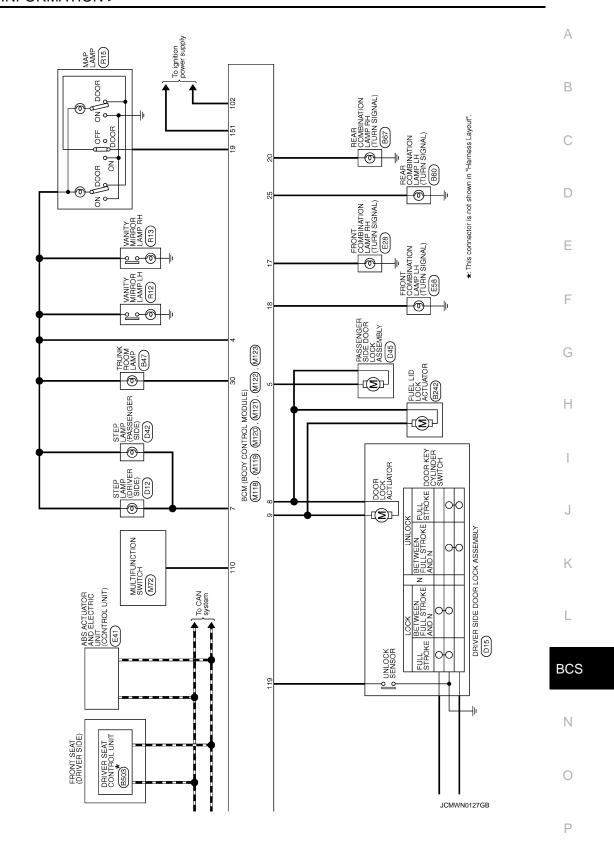
^{• *3:} Without steering lock unit

^{• *4:} With steering lock unit









빙									
Connector No. M33	Connector No. M119	6	Connector No.		M121	83	>	KEYLESS ENTRY RECEIVER COMM	
Connector Name COMBINATION SWITCH	Connector Name BCM	BCM (BODY CONTROL MODULE)	Connector Name		BCM (BODY CONTROL MODULE)	87	> 6	COMBI SW INPUT 5	
Connector Type TH16FW-NH	Connector Type NS1	NS16FW-GS	Connector Type	Т	TH40FGY-NH	8 8	2 8	COMBLSW INPUTS PUSH SW	
1	1		(1		6	۵	CAN-L	
1000	F		唐			16	_	CAN-H	
7	 		S :			92	ΡT	KEY SLOT ILL	
000	4 5	6 7 🔼 8 9 10		100 000 000	/	93	В	ON IND	
7 5	11 12	13 14 15 16 17 18 19		71 70 69 68	77 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 57 66 65 64 63 62 61 60 59 58 57 56 55 54 53 52	92	BG	ACC RELAY CONT	
7 8 9 10 11 12 13 14]					96	뜡.	A/T SHIFT SELECTOR POWER SUPPLY	
						97	_ (S/L CONDITION 1	
-1-0	⊢		F	-		88 8	1 4	S/L CONDITION 2	
I erminal Color Signal Name [Specification] No of Wire	No of Wire	Signal Name [Specification]	No	Color of Wire	Signal Name [Specification]	S 0	¥ 8	ASCD CLITCH SW [Meth M/T]	
T	9	INTERIOR ROOM LAMP POWER SUPPLY	34	88	TRUNK ROOM ANT-	g 01	<u>۲</u>	PASSENGER DOOR REQUEST SW	
	┝	PASSENGER DOOR UNLOCK OUTPUT	35	>	TRUNK ROOM ANT+	101	۵	DRIVER DOOR REQUEST SW	
5 L OUTPUT 3	7 SB	STEP LAMP OUTPUT	38	В	REAR BUMPER ANT-	102	BG	BLOWER FAN MOTOR RELAY CONT	
	8	ALL DOOR, FUEL LID LOCK OUTPUT	39	W	REAR BUMPER ANT+	103	Д	KEYLESS ENTRY RECEIVER POWER SUPPLY	
	9 G DRI	DRIVER DOOR, FUEL LID UNLOCK OUTPUT	47	>	IGN RELAY (IPDM E/R) CONT	106	SB	S/L UNIT POWER SUPPLY	
BR	+	BAT (FUSE)	20	g ,	TRUNK ROOM LAMP SW	107	ي ا د	COMBI SW INPUT 1	
+	m :	GND	52	× ¦	STARTER RELAY CONT	108	r :	COMBI SW INPUT 4	
× '.	≥ 2	PUSH-BUTTON IGNITION SWILL GND	9	# 6	PUSH SW	601	≥ (COMBI SW INPUT 2	
ם רפ	+	ACC IND	٥١	25 0	HONK LID OPENER REQUEST SW	≘ ;	9 ;	HAZARU SW	
UNIPULI X	A C	TUDEN SIGNAL RH (FRONT)	67	5 6	I-KET WARN BUZZER (ENG ROOM)	1	-	S/L UNIT COMM	
	0 6	INT ROOM LAMP CONT	6	5	I ROIN LID OPENER SW				
	ſ		Connector No.	П	M122				
Connector No. M118	Connector No. M120	0	Connector Name		BCM (BODY CONTROL MODULE)				
Connector Name BCM (BODY CONTROL MODULE)	Connector Name BCM	BCM (BODY CONTROL MODULE)	Connector Type	Т	TH40EB-NH				
Connector Type M03FB-LC	Connector Type NS1	NS12FW-CS	þ	1					
4	ą.		厚						
A-S-S-	45		ES.						
	<u>8</u>	20 21 — 22 23 24 25 26 27 28 29 30 31		91 90 89 88	27 86 85 84 86 82 81 80 70 73 77 76 75 74 73 72 72 17 18 17 17 17 17 17 17 17 17 17 17 17 17 17				
				ŀ					
Terminal Golor	Terminal Golor		Terminal No.	Color of Wire	Signal Name [Specification]				
	_	Signal Name [Specification]	72	œ	ROOM ANT 2-				
1 W BAT (F/L)	Н	TURN SIGNAL RH (REAR)	73	G	ROOM ANT 2+				
>	23 LG	TRUNK LID OPEN OUTPUT	74	SB	PASSENGER DOOR ANT-				
3 BG POWER WINDOW POWER SUPPLY (RAP)	\dashv	TURN SIGNAL LH (REAR)	75	H	PASSENGER DOOR ANT+				
	30 P	TRUNK ROOM LAMP	92	>	DRIVER DOOR ANT-				
			77	Ę,	DRIVER DOOR ANT+				
			20 02	- 8	POOM ANT 1+				
			80	£ 8	NATS ANT AMP				
			8 18	<u> </u> ≥	NATS ANT AMP.				
			82	SB	IGN RELAY (F/B) CONT				

JCMWN0128GB

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE) Connector No. M123 Connector Name BCM (BODY CONTROL MODULE)	And THAPG-NH THAPG-NH SERVER OF SE
---	--

Signal Name [Specification]	RAIN SENSOR SERIAL LINK	OPTICAL SENSOR	CLUTCH INTERLOCK SW	STOP LAMP SW 1	STOP LAMP SW 2	DR DOOR UNLOCK SENSOR	KEY SWITCH	IGN F/B	PASSENGER DOOR SW	TRUNK CANCEL SW	POWER WINDOW SW COMM	PUSH-BUTTON IGNITION SWILL POWER	LOCK IND	RECEIVER / SENSOR GND	RECEIVER / SENSOR POWER SUPPLY	TIRE PRESSURE RECEIVER COMM	SHIFT N/P	SECURITY INDICATOR LAMP	COMBI SW OUTPUT 5	COMBI SW OUTPUT 1	COMBI SW OUTPUT 2	COMBI SW OUTPUT 3	COMBI SW OUTPUT 4	DRIVER DOOR SW	REAR WINDOW DEFOGGER RELAY CONT
Color of Wire	۳	BG	ď	SB	BR	SB	SB	^	ď	BG	٨	٦	LG	BG	^	٦ _	В	W	BR	Д	9	7	SB	GR	9
Terminal No.	112	113	114	116	118	119	121	123	124	129	132	133	134	137	138	139	140	141	142	143	144	145	146	150	151

JCMWN0129GB

INFOID:0000000006457844

Α

В

D

Е

F

Н

K

BCS

Ν

0

Fail-safe

FAIL-SAFE CONTROL BY DTC

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

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 → 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 filled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (1: Vehicle speed: 4 km/h (2.5 MPH) or more 					
B2603: SHIFT POSI STATUS	Inhibit steering lock	 500 ms after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (12 V) Selector lever P/N position signal: Except P and N positions (0 V) 					
B2604: PNP/CLUTCH 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: P and N position (12 V) - P range signal or N range signal (CAN): ON • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: Except P and N positions (0 V) - P range signal and N range signal (CAN): OFF					
B2605: PNP/CLUTCH 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 (12 V) - PNP switch signal (CAN): ON					
B2606: S/L RELAY	Inhibit engine cranking	 500 ms after the following CAN signal communication status becomes consistent Steering lock relay signal (Request signal) Steering lock relay signal (Condition signal) 					
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)					

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
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	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (12 V) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions 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: BCM	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 (12 V)

DTC Inspection Priority Chart

INFOID:0000000006457845

BCS

Ν

0

Р

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 U1010: CONTROL UNIT(CAN)
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI-SCANNING

< ECU DIAGNOSIS INFORMATION >

Priority	DTC
4	 ■ B2013: ID DISCORD BCM-S/L ■ B2014: CHAIN OF S/L-BCM ■ B2555: IGNITION RELAY ■ B2555: STOP LAMP ■ B2555: YUBHICLE SPEED ■ B2560: STARTER CONT RELAY ■ B2601: SHIFT POSITION ■ B2602: SHIFT POSITION ■ B2603: SHIFT POSI STATUS ■ B2604: PNP/CLUTCH SW ■ B2605: PNP/CLUTCH SW ■ B2606: S/L RELAY ■ B2607: S/L RELAY ■ B2608: STARTER RELAY ■ B2609: S/L STATUS ■ B2609: S/L STATUS ■ B2600: STEERING LOCK UNIT ■ B2600: STEERING LOCK UNIT ■ B2600: STEERING LOCK UNIT ■ B2607: STATUS ■ B2612: S/L STATUS ■ B2614: BCM ■ B2615: BCM ■ B2616: BCM ■ B2617: BCM ■ B2618: BCM ■ B2619: BCM ■ B2619: SCM ■ B2619: SCM<!--</th-->
5	 C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RL C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RL C1734: CONTROL UNIT
6	B2621: INSIDE ANTENNA 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 <u>BCS-15. "COM-MON ITEM": CONSULT-III Function (BCM - COMMON ITEM)"</u>.

< 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
No DTC is detected. further testing may be required.	_	_	_	_	_
U1000: CAN COMM	_	_	_	_	BCS-34
U1010: CONTROL UNIT(CAN)	_	_	_	_	BCS-35
U0415: VEHICLE SPEED	_	_	_	_	BCS-36
B2013: ID DISCORD BCM-S/L*	×	×	_	_	SEC-57
B2014: CHAIN OF S/L-BCM*	×	×	_	_	SEC-58
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-49
B2191: DIFFERENCE OF KEY	×	_	_	_	SEC-52
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-53
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-55
B2195: ANTI-SCANNING	×	_	_	_	SEC-56
B2553: IGNITION RELAY	_	×	_	_	PCS-51
B2555: STOP LAMP	_	×	_	_	SEC-61
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-63
B2557: VEHICLE SPEED	×	×	×	_	<u>SEC-65</u>
B2560: STARTER CONT RELAY	×	×	×	_	<u>SEC-66</u>
B2562: LOW VOLTAGE	_	×	_	_	BCS-37
B2601: SHIFT POSITION	×	×	×	_	SEC-67
B2602: SHIFT POSITION	×	×	×	_	<u>SEC-70</u>
B2603: SHIFT POSI STATUS	×	×	×	_	<u>SEC-72</u>
B2604: PNP/CLUTCH SW	×	×	×	_	<u>SEC-75</u>
B2605: PNP/CLUTCH SW	×	×	×	_	<u>SEC-77</u>
B2606: S/L RELAY*	×	×	×	_	<u>SEC-79</u>
B2607: S/L RELAY*	×	×	×	_	SEC-80
B2608: STARTER RELAY	×	×	×	_	SEC-82
B2609: S/L STATUS*	×	×	×	_	<u>SEC-84</u>
B260A: IGNITION RELAY	×	×	×	_	PCS-53
B260B: STEERING LOCK UNIT*	_	×	×	_	<u>SEC-88</u>
B260C: STEERING LOCK UNIT*	_	×	×	_	SEC-89
B260D: STEERING LOCK UNIT*	_	×	×	_	<u>SEC-90</u>
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-91
B2612: S/L STATUS*	×	×	×		SEC-96
B2614: BCM	_	×	×	-	PCS-55
B2615: BCM	_	×	×	_	PCS-57
B2616: BCM	_	×	×	_	PCS-59
B2617: BCM	×	×	×	_	SEC-100
B2618: BCM	×	×	×	_	PCS-61
B2619: BCM*	×	×	×	_	SEC-102
B261A: PUSH-BTN IGN SW	_	×	×		PCS-62
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	SEC-103

BCS-75 2011 G Coupe Revision: 2011 December

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
B2621: INSIDE ANTENNA	_	×	_	_	DLK-56
B2622: INSIDE ANTENNA	_	×	_	_	DLK-58
B2623: INSIDE ANTENNA	_	×	_	_	DLK-60
B26E8: CLUTCH SW	×	×	×	_	SEC-92
B26E9: S/L STATUS*	×	×	× (Turn ON for 15 seconds)	_	<u>SEC-94</u>
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	<u>SEC-95</u>
C1704: LOW PRESSURE FL	_	_	_	×	
C1705: LOW PRESSURE FR	_	_	_	×	WT 04
C1706: LOW PRESSURE RR	_	_	_	×	<u>WT-24</u>
C1707: LOW PRESSURE RL	_	_	_	×	
C1708: [NO DATA] FL	_	_	_	×	
C1709: [NO DATA] FR	_	_	_	×	WT oc
C1710: [NO DATA] RR	_	_	_	×	<u>WT-26</u>
C1711: [NO DATA] RL	_	_	_	×	
C1716: [PRESSDATA ERR] FL	_	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	_	×	WT 20
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u>WT-29</u>
C1719: [PRESSDATA ERR] RL	_	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	_	×	WT-30
C1734: CONTROL UNIT	_	_	_	×	<u>WT-31</u>

^{*:} For models without steering lock unit, this DTC is not applied.

COMBINATION SWITCH SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

COMBINATION SWITCH SYSTEM SYMPTOMS

Symptom Table INFOID:0000000006457847

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

													Malfuncti	on item: ×
							Data mo	nitor iten	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	FR FOG SW
А		×	×			×	×							
В	×			×						×		×		
С					×				×		×			
D					×			×					×	
E					×									×
F	×				×									
G			×		×									
Н		×		×									×	
I							×				×	×		×
J						×		×	×	×				
K		ı			1		All I	tems	ı		1			
L		If only one item is detected or the item is not applicable to the combinations A to K												

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

Malfunction combination	Malfunctioning part	Repair or replace					
Α	Combination switch INPUT 1 circuit						
В	Combination switch INPUT 2 circuit	Inspect the combination switch input circuit applicable to the malfunctionic part. Refer to BCS-39. "Diagnosis Procedure".					
С	Combination switch INPUT 3 circuit						
D	Combination switch INPUT 4 circuit	part Holor to <u>200 or Bragitorio i Tododalo</u> .					
Е	Combination switch INPUT 5 circuit						
F	Combination switch OUTPUT 1 circuit						
G	Combination switch OUTPUT 2 circuit						
Н	Combination switch OUTPUT 3 circuit	Inspect the combination switch output circuit applicable to the malfunctioning part. Refer to BCS-41, "Diagnosis Procedure".					
I	Combination switch OUTPUT 4 circuit	ing part. (Color to <u>1900 Fr. Diagnosio Frocodure</u> .					
J	Combination switch OUTPUT 5 circuit						
K	ВСМ	Replace BCM. Refer to BCS-80, "Exploded View"					
L	Combination switch	Replace the combination switch.					

BCS-77 Revision: 2011 December 2011 G Coupe

Α

Е

D

F

Н

K

BCS

Ν

Р

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

NORMAL OPERATING CONDITION

Description INFOID:000000008165555

TRANSIT MODE

- Transit mode inhibits battery power consumption during transportation or storage of the vehicle.
- BCM is set to transit mode before delivery.
- In transit mode, remote keyless entry function, headlamp ON/OFF function, theft warning alarm function, and other BCM control functions do not operate normally.
- Therefore, cancel operation must be performed so that the vehicle is used in normal status.
- For transit mode cancel operation, refer to BCS-4, "Description".

NOTE:

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

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:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 "SRS AIR BAG".
- Never 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:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the
 ignition ON or engine running, never 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.

Р

Revision: 2011 December BCS-79 2011 G Coupe

BCS

INFOID:0000000006457849

Α

В

D

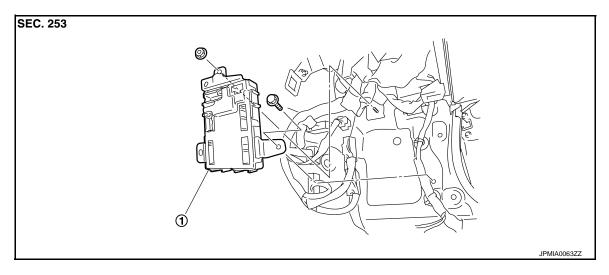
Е

Н

REMOVAL AND INSTALLATION

BCM (BODY CONTROL MODULE)

Exploded View



1. BCM

Removal and Installation

INFOID:0000000006457851

REMOVAL

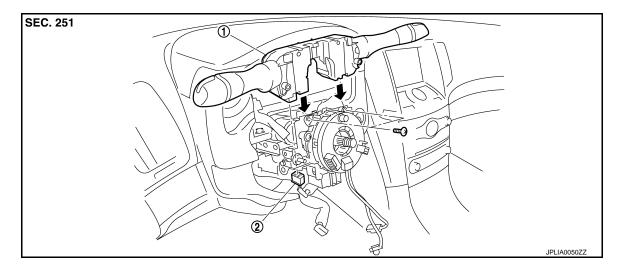
- 1. Remove dash side finisher (passenger side). Refer to INT-15, "Exploded View".
- 2. Remove bolt and nut.
- 3. Remove BCM and disconnect the connector.

INSTALLATION

Install in the reverse order of removal.

COMBINATION SWITCH

Exploded View



1. Combination switch

2. Combination switch connector

Removal and Installation

REMOVAL

- 1. Remove steering column cover. Refer to IP-12, "A/T MODELS: Exploded View" (A/T models), IP-23, "M/T models).
- 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:0000000006457853

Ν

0

Р