

SECTION BCS

BODY CONTROL SYSTEM

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

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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.

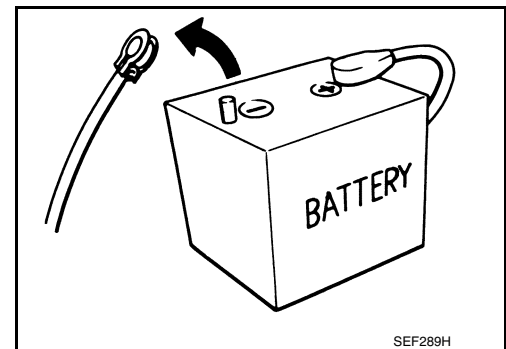
Precautions for Removing Battery Terminal

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When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.
- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:

D4D engine	: 20 minutes	YS23DDT	: 4 minutes
HRA2DDT	: 12 minutes	YS23DDTT	: 4 minutes
K9K engine	: 4 minutes	ZD30DDTi	: 60 seconds
M9R engine	: 4 minutes	ZD30DDTT	: 60 seconds
R9M engine	: 4 minutes		
V9X engine	: 4 minutes		
YD25DDTi	: 2 minutes		



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NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.

NOTE:

PRECAUTIONS

< PRECAUTION >

- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
 - Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
 - Driving for 30 minutes or more on a steep slope.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

NOTE:

The removal of 12V battery may cause a DTC detection error.

COMPONENT PARTS

< SYSTEM DESCRIPTION >

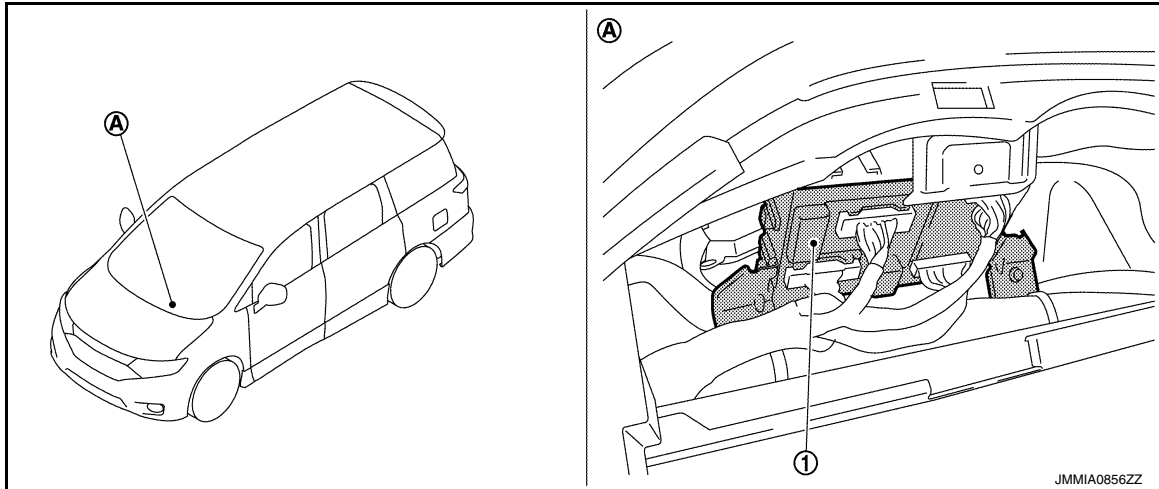
SYSTEM DESCRIPTION

COMPONENT PARTS

BODY CONTROL SYSTEM

BODY CONTROL SYSTEM : Component Parts Location

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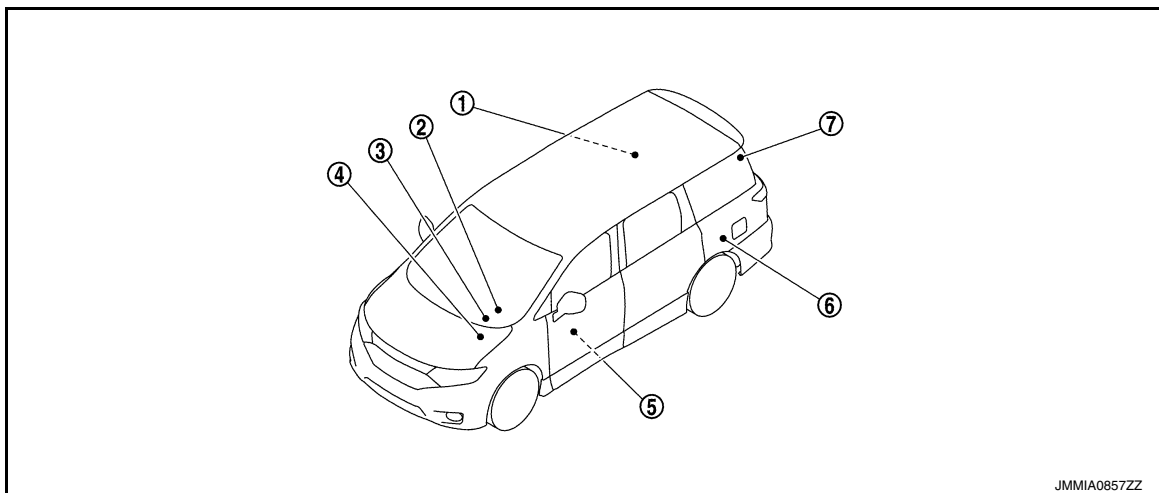
1. BCM

A. Behind of combination meter

POWER CONSUMPTION CONTROL SYSTEM

POWER CONSUMPTION CONTROL SYSTEM : Component Parts Location

INFOID:0000000012406987



1. Sliding door control unit RH
Refer to [DLK-23. "AUTOMATIC SLIDING DOOR SYSTEM : Component Parts Location"](#).

2. Combination meter
Refer to [MWI-7. "METER SYSTEM : Component Parts Location"](#).

3. BCM
Refer to [BCS-5. "BODY CONTROL SYSTEM : Component Parts Location"](#).

COMPONENT PARTS

< SYSTEM DESCRIPTION >

- | | | |
|---|---|--|
| 4. IPDM E/R
Refer to PCS-4, "IPDM E/R : Component Parts Location" . | 5. Driver seat control unit
Refer to ADP-6, "Component Parts Location" . | 6. Sliding door control unit LH
Refer to DLK-23, "AUTOMATIC SLIDING DOOR SYSTEM : Component Parts Location" . |
| 7. Automatic back door control module
Refer to DLK-22, "AUTOMATIC BACK DOOR SYSTEM : Component Parts Location" . | | |

SYSTEM

< SYSTEM DESCRIPTION >

SYSTEM

BODY CONTROL SYSTEM

BODY CONTROL SYSTEM : System Description

INFOID:0000000012406988

OUTLINE

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

BCM CONTROL FUNCTION LIST

System	Reference
Combination switch reading system	BCS-9, "COMBINATION SWITCH READING SYSTEM : System Description"
Signal buffer system	BCS-13, "SIGNAL BUFFER SYSTEM : System Description"
Power consumption control system	BCS-14, "POWER CONSUMPTION CONTROL SYSTEM : System Description"
Headlamp system	<ul style="list-style-type: none">• EXL-12, "HEADLAMP SYSTEM : System Description" (Xenon type headlamp)• EXL-113, "HEADLAMP SYSTEM : System Description" (Halogen type headlamp)
Auto light system	<ul style="list-style-type: none">• Xenon type headlamp models<ul style="list-style-type: none">- EXL-14, "AUTO LIGHT SYSTEM : System Description"• Halogen type headlamp models<ul style="list-style-type: none">- EXL-14, "AUTO LIGHT SYSTEM : System Description"
Turn signal and hazard warning lamp system	<ul style="list-style-type: none">• EXL-17, "TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : System Description" (Xenon type headlamp)• EXL-118, "TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : System Description" (Halogen type headlamp)
Parking, license plate, side marker and tail lamps system	<ul style="list-style-type: none">• EXL-18, "PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM : System Description" (Xenon type headlamp)• EXL-119, "PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM : System Description" (Halogen type headlamp)
Front fog lamp system	<ul style="list-style-type: none">• EXL-21, "FRONT FOG LAMP SYSTEM : System Description" (Xenon type headlamp)• EXL-122, "FRONT FOG LAMP SYSTEM : System Description" (Halogen type headlamp)
Exterior lamp battery saver system	<ul style="list-style-type: none">• EXL-23, "EXTERIOR LAMP BATTERY SAVER SYSTEM : System Description" (Xenon type headlamp)• EXL-124, "EXTERIOR LAMP BATTERY SAVER SYSTEM : System Description" (Halogen type headlamp)
Interior room lamp control system	INL-7, "INTERIOR ROOM LAMP CONTROL SYSTEM : System Description"
Interior room lamp battery saver system	INL-12, "INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Description"
Front wiper and washer system	WW-8, "FRONT WIPER AND WASHER SYSTEM : System Description"
Rear wiper and washer system	WW-12, "REAR WIPER AND WASHER SYSTEM : System Description"
Rear window defogger system	DEF-7, "System Description"

SYSTEM

< SYSTEM DESCRIPTION >

System		Reference
Warning chime system		WCS-6, "WARNING CHIME SYSTEM : System Description"
Air conditioning control system		<ul style="list-style-type: none"> HAC-17, "FRONT AUTOMATIC AIR CONDITIONING SYSTEM : System Description" (Automatic air conditioning) HAC-166, "FRONT MANUAL AIR CONDITIONING SYSTEM : System Description" (Manual air conditioning)
Power door lock system		DLK-33, "System Description"
Intelligent Key system/engine start system		DLK-36, "INTELLIGENT KEY SYSTEM : System Description"
Nissan Vehicle Immobilizer System (NVIS) - NATS		SEC-15, "NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS : System Description"
Vehicle security system	Theft warning alarm	SEC-20, "VEHICLE SECURITY SYSTEM : System Diagram"
	Panic alarm	
Power window system		PWC-10, "System Description"
Retained accessory power (RAP) system		PWC-10, "System Description"
TPMS (Tire Pressure Monitoring System)		WT-8, "System Description"

BODY CONTROL SYSTEM : Fail-safe

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FAIL-SAFE CONTROL BY DTC

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

Display contents of CONSULT	Fail-safe	Cancellation
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2196: DONGLE NG	Inhibit engine cranking	Erase DTC
B2198: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent <ul style="list-style-type: none"> Starter motor relay control signal Starter relay status signal (CAN)
B260F: ENG STATE SIG LOST	Inhibit engine cranking	When any of the following conditions are fulfilled <ul style="list-style-type: none"> Ignition switch changes to ACC Receives engine status signal (CAN)
B26F1: IGN RELAY OFF	Inhibit engine cranking	When the following conditions are fulfilled <ul style="list-style-type: none"> Ignition switch ON signal (CAN: Transmitted from BCM): ON Ignition switch ON signal (CAN: Transmitted from IPDM E/R): ON
B26F2: IGN RELAY ON	Inhibit engine cranking	When the following conditions are fulfilled <ul style="list-style-type: none"> Ignition switch ON signal (CAN: Transmitted from BCM): OFF Ignition switch ON signal (CAN: Transmitted from IPDM E/R): OFF
B26F3: START CONT RLY ON	Inhibit engine cranking	When the following conditions are fulfilled <ul style="list-style-type: none"> Starter control relay signal (CAN: Transmitted from BCM): OFF Starter control relay signal (CAN: Transmitted from IPDM E/R): OFF
B26F4: START CONT RLY OFF	Inhibit engine cranking	When the following conditions are fulfilled <ul style="list-style-type: none"> Starter control relay signal (CAN: Transmitted from BCM): ON Starter control relay signal (CAN: Transmitted from IPDM E/R): ON
B26F7: BCM	Inhibit engine cranking by Intelligent Key system	When room antenna and luggage room antenna functions normally

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper stop position signal.

When the rear wiper stop position signal does not change for more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

SYSTEM

< SYSTEM DESCRIPTION >

Condition of cancellation

1. More than 1 minute is passed after the rear wiper stop.
2. Turn rear wiper switch OFF.
3. Operate the rear wiper switch or rear washer switch.

FAIL-SAFE CONTROL OF COMBINATION SWITCH READING FUNCTION CAUSED BY LOW POWER SUPPLY VOLTAGE

If voltage of battery power supply lower, BCM maintains combination switch reading to the status when input voltage is less than approximately 9 V.

NOTE:

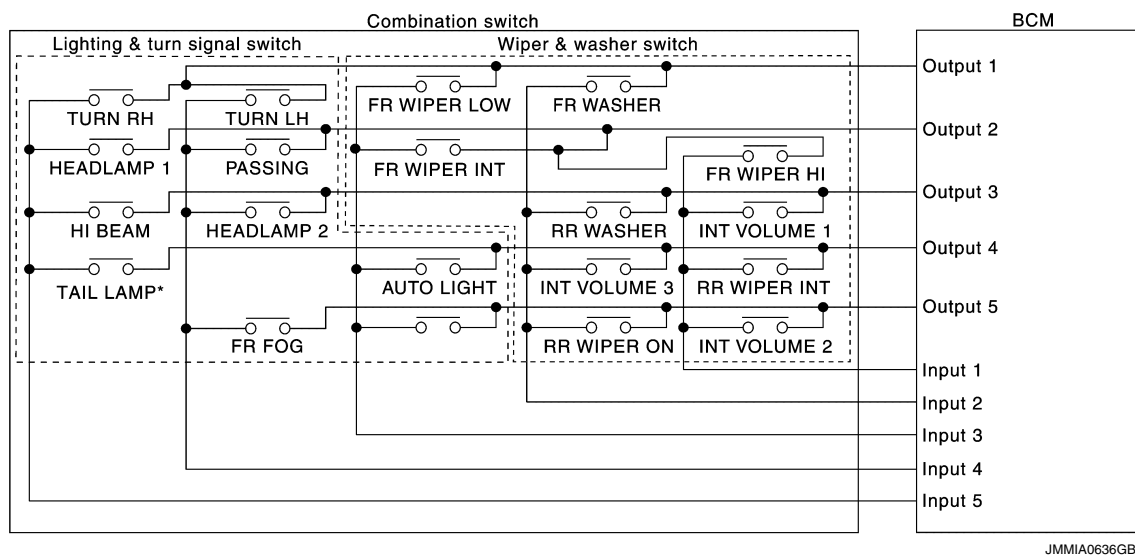
When voltage of battery power supply is approximately 9 V or more, combination switch reading function returns to normal operation.

COMBINATION SWITCH READING SYSTEM

COMBINATION SWITCH READING SYSTEM : System Description

INFOID:0000000012406990

SYSTEM DIAGRAM



NOTE:

*: TAIL LAMP switch links lighting switch 1ST and 2ND positions.

OUTLINE

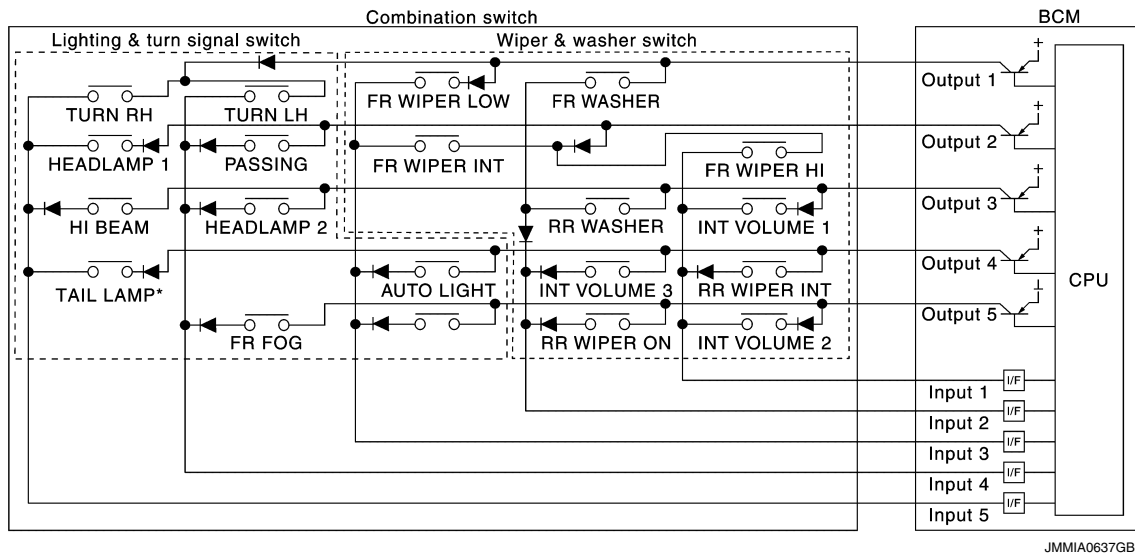
- BCM reads the status of the combination switch (light, turn signal, wiper and washer) and recognizes the status of each switch.
- BCM has a combination of 5 output terminals (OUTPUT 1 - 5) and 5 input terminals (INPUT 1 - 5). It reads a maximum of 20 switch status.

COMBINATION SWITCH MATRIX

SYSTEM

< SYSTEM DESCRIPTION >

Combination switch circuit



NOTE:

*: TAIL LAMP switch links lighting switch 1ST and 2ND positions.

Combination switch INPUT-OUTPUT system list

System	INPUT 1	INPUT 2	INPUT 3	INPUT 4	INPUT 5
OUTPUT 1	—	FR WASHER	FR WIPER LOW	TURN LH	TURN RH
OUTPUT 2	FR WIPER HI	—	FR WIPER INT	PASSING	HEADLAMP 1
OUTPUT 3	INT VOLUME 1	RR WASHER	—	HEADLAMP 2	HI BEAM
OUTPUT 4	RR WIPER INT	INT VOLUME 3	AUTO LIGHT	—	TAIL LAMP
OUTPUT 5	INT VOLUME 2	RR WIPER ON	—	FR FOG	—

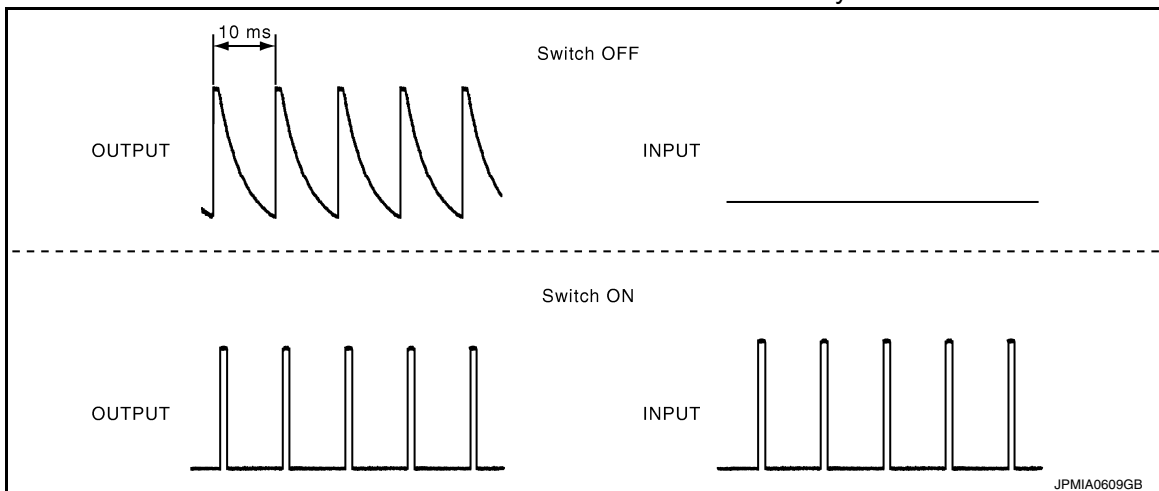
NOTE:

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:

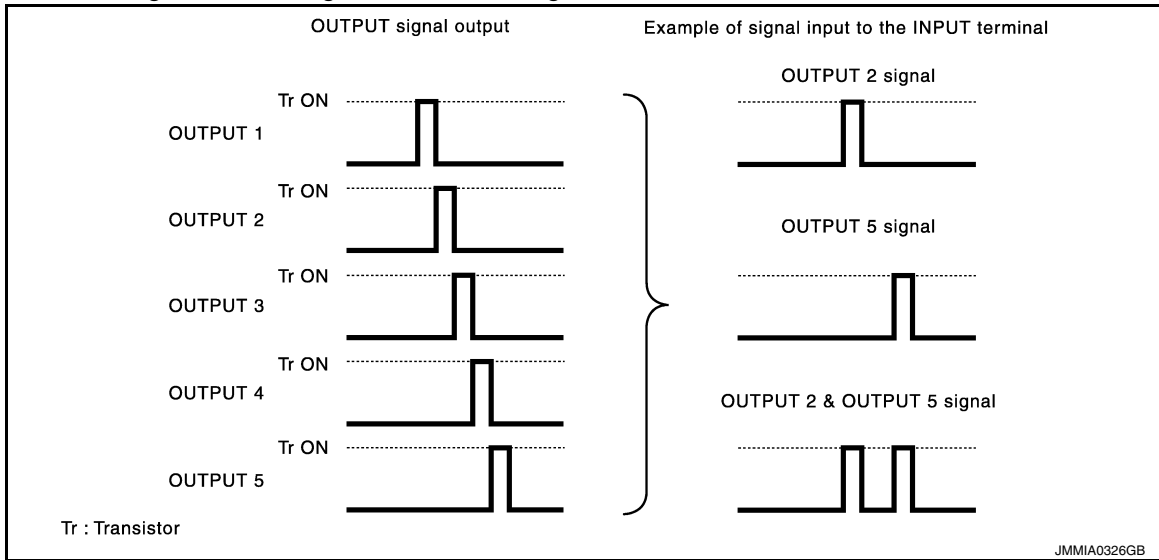
BCM reads the status of the combination switch at 60 ms interval when BCM is controlled at low power consumption control mode.

- BCM operates as follows and judges the status of the combination switch.
- It operates the transistor on OUTPUT side in the following order: OUTPUT 1 → 2 → 3 → 4 → 5, and outputs voltage waveform.

SYSTEM

< SYSTEM DESCRIPTION >

- The voltage waveform of OUTPUT corresponding to the formed circuit is input into the interface on INPUT side if any (1 or more) switches are ON.
- It reads this change of the voltage as the status signal of the combination switch.

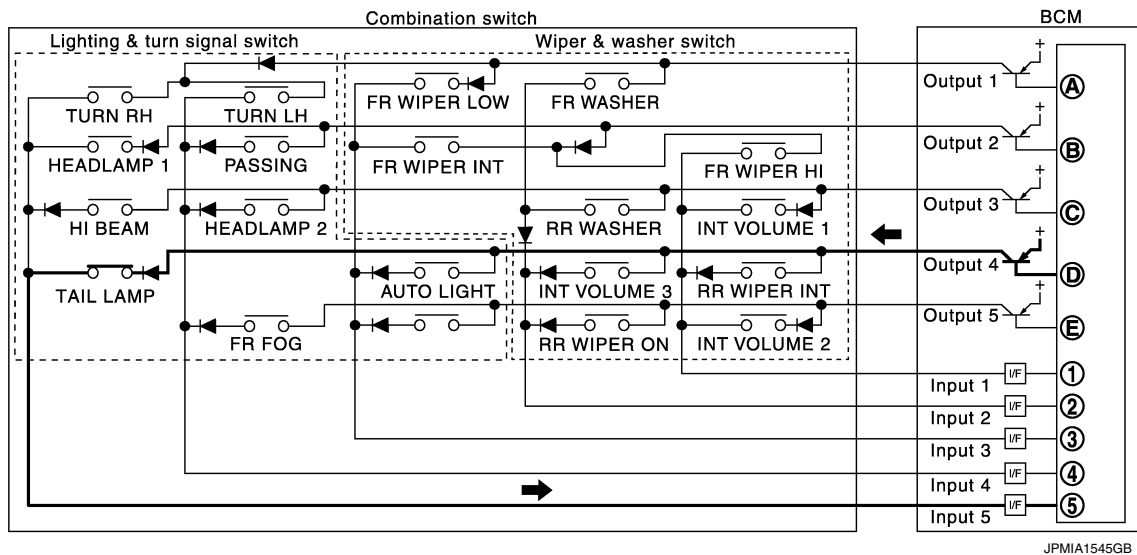


Operation Example

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

Example 1: When a switch (TAIL LAMP switch) is turned ON

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



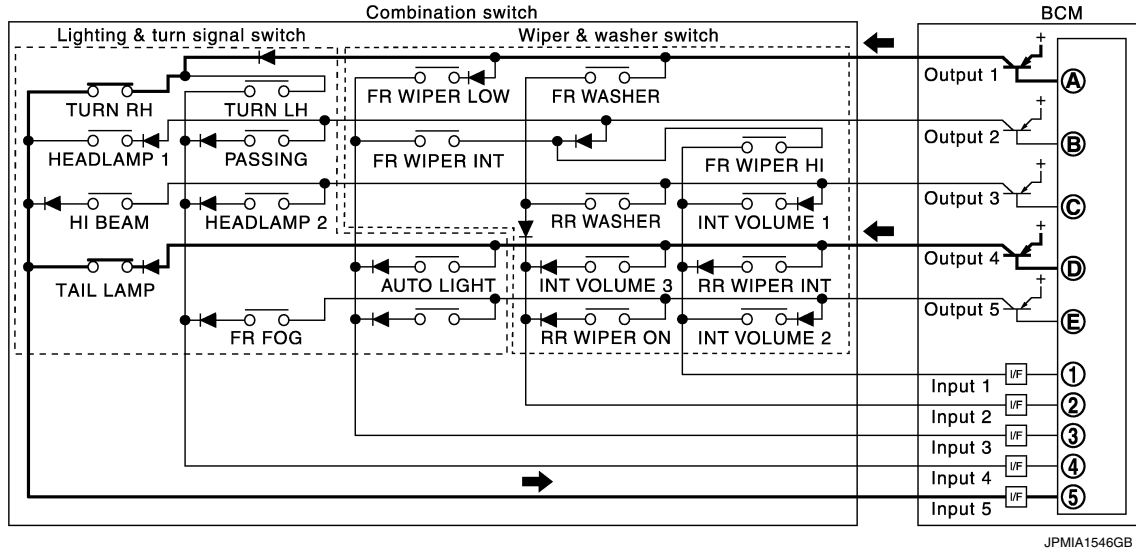
- BCM detects the combination switch status signal "5D" when the signal of OUTPUT 4 is input to INPUT 5.
- BCM judges that the TAIL LAMP switch is ON when the signal "5D" is detected.

Example 2: When some switches (TURN RH switch, TAIL LAMP switch) are turned ON

SYSTEM

< SYSTEM DESCRIPTION >

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



- BCM detects the combination switch status signal "5AD" when the signals of OUTPUT 1 and OUTPUT 4 are input to INPUT 5.
- BCM judges that the TURN RH switch and TAIL LAMP switch are ON when the signal "5AD" is detected.

WIPER INTERMITTENT DIAL POSITION

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

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

NOTE:

For details of wiper intermittent dial position, refer to [WW-8, "FRONT WIPER AND WASHER SYSTEM : System Description"](#).

SIGNAL BUFFER SYSTEM

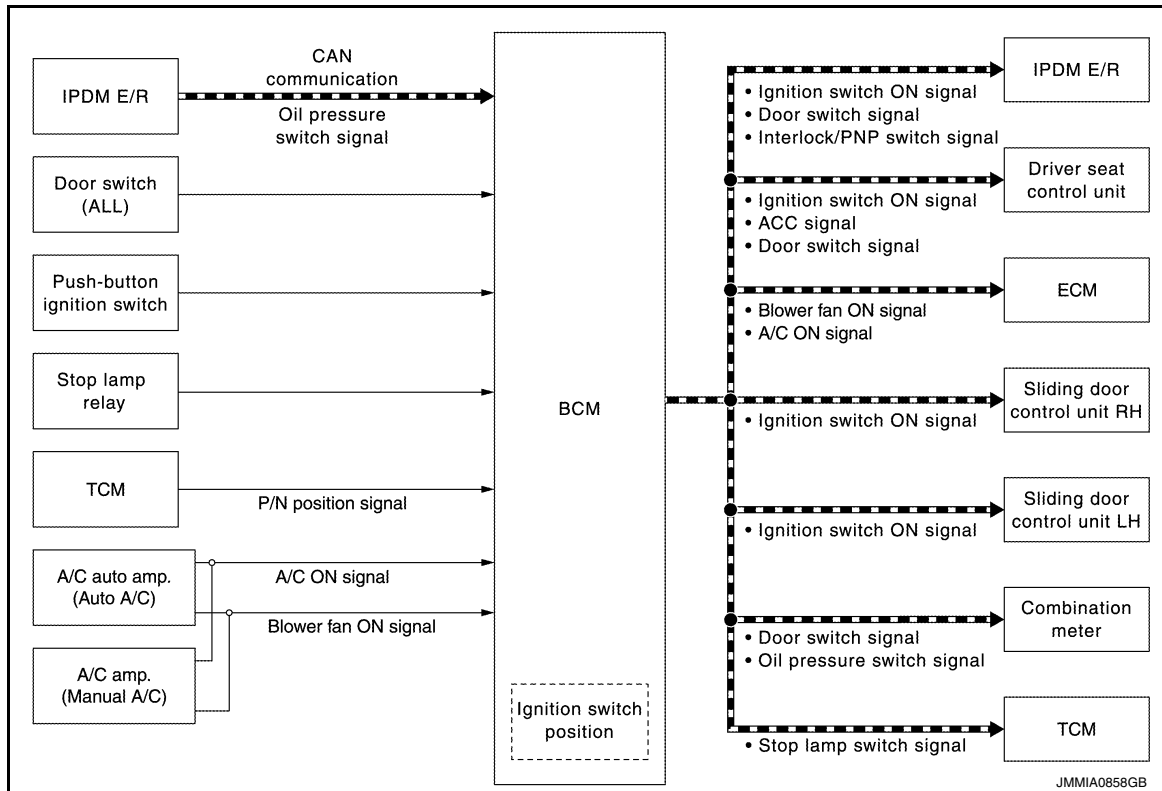
SYSTEM

< SYSTEM DESCRIPTION >

SIGNAL BUFFER SYSTEM : System Description

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SYSTEM DIAGRAM



OUTLINE

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

Signal transmission function list

Signal name	Input	Output	Description
<ul style="list-style-type: none"> Ignition switch ON signal ACC signal 	Push-button ignition switch (Push switch)	<ul style="list-style-type: none"> IPDM E/R (CAN) Driver seat control unit (CAN) Sliding door control unit LH (CAN) Sliding door control unit RH (CAN) 	Inputs the push-button ignition switch (push switch) signal and transmits the ignition switch status judged with BCM via CAN communication.
Door switch signal	Any door switch	<ul style="list-style-type: none"> Combination meter (CAN) IPDM E/R (CAN) Driver seat control unit (CAN) 	Inputs the door switch signal and transmits it via CAN communication.
Oil pressure switch signal	IPDM E/R (CAN)	Combination meter (CAN)	Transmits the received oil pressure switch signal via CAN communication.
Blower fan ON signal	<ul style="list-style-type: none"> A/C auto amp. (Auto A/C) A/C amp. (Manual A/C) 	ECM (CAN)	Input blower fan ON signal, and transmits it via CAN communication.
A/C ON signal	<ul style="list-style-type: none"> A/C auto amp. (Auto A/C) A/C amp. (Manual A/C) 	ECM (CAN)	Input A/C ON signal, and transmits it via CAN communication.

SYSTEM

< SYSTEM DESCRIPTION >

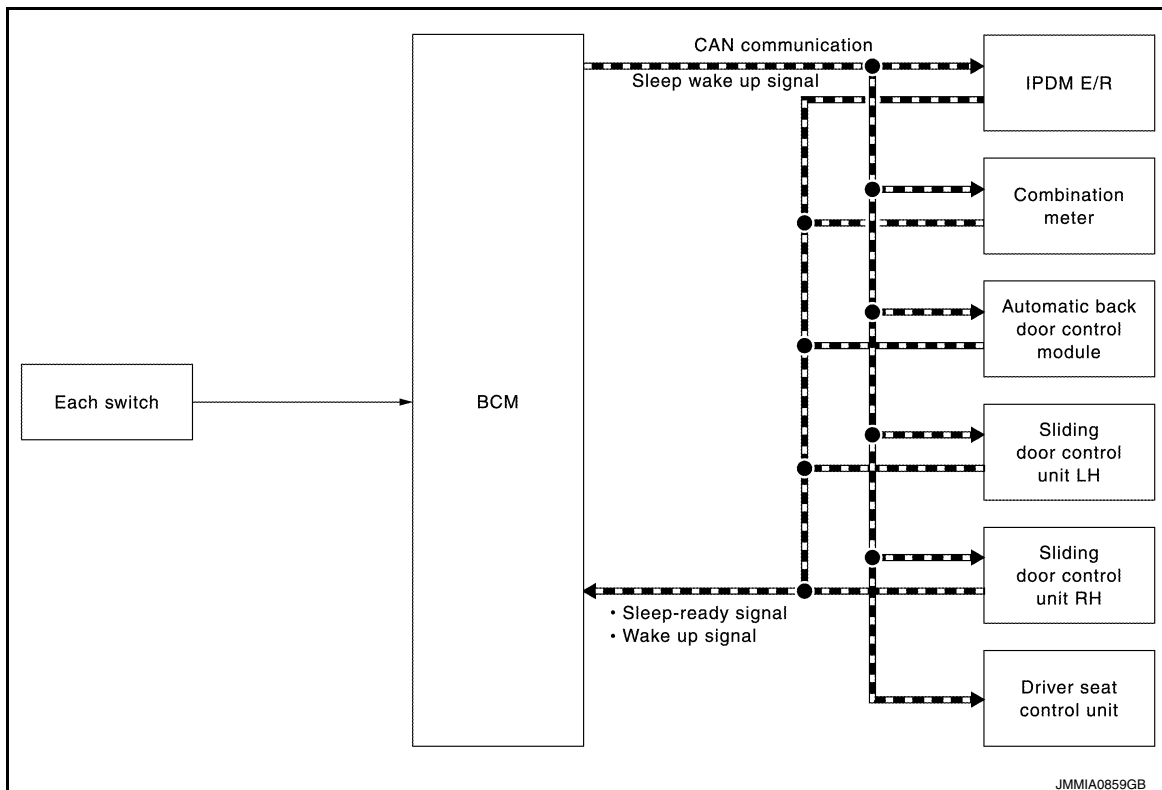
Signal name	Input	Output	Description
Stop lamp switch signal	Stop lamp relay	TCM (CAN)	Inputs the stop lamp switch 1 signal and stop lamp switch 2 signal, and transmits it via CAN communication.
Interlock/PNP switch signal	TCM	IPDM E/R (CAN)	Inputs the P/N position signal and transmits Interlock/PNP switch signal via CAN communication.

POWER CONSUMPTION CONTROL SYSTEM

POWER CONSUMPTION CONTROL SYSTEM : System Description

INFOID:0000000012406992

SYSTEM DIAGRAM



OUTLINE

- BCM incorporates a power saving control function that reduces the power consumption according to the vehicle status.
- BCM switches the status (control mode) by itself with the power saving control function. It performs the sleep request to each unit (IPDM E/R, combination meter, driver seat control unit, automatic back door control module, sliding door control unit LH and sliding door control unit RH) 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

SYSTEM

< SYSTEM DESCRIPTION >

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, combination meter, automatic back door control module, sliding door control unit LH and sliding door control unit RH 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.

Sleep condition

CAN sleep condition	BCM sleep condition
<ul style="list-style-type: none">• Receiving the sleep-ready signal (ready) from all units• Ignition switch: OFF• Vehicle security system: Not operation• Warning chime: Not operation• Intelligent Key system buzzer: Not operation• Stop lamp switch: OFF• Turn signal indicator lamp: Not operation• Exterior lamp: OFF• Door lock status: No change• CONSULT communication status: Not communication• Meter display signal: Non-transmission• Door switch status: No change• Rear window defogger: OFF	<ul style="list-style-type: none">• Interior room lamp battery saver: Time out*• RAP system: OFF• NVIS: Not operation• Remote keyless entry receiver communication status: No communication• LOCK indicator lamp: Not operation• ACC indicator lamp: Not operation• ON indicator lamp: Not operation

NOTE:

*: Refer to [INL-12. "INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Description"](#) for details of the interior room lamp battery saver time.

Wake-up operation

- BCM transmits sleep wake up signal (wake up) to each unit when any condition listed below is established, and then goes into normal mode from low power consumption mode.
- Each unit starts transmissions with CAN communication by receiving sleep wake up signals. Each unit transmit wake up signals to BCM with CAN communication to convey the start of CAN communication.

BCS

SYSTEM

< SYSTEM DESCRIPTION >

Wake-up condition

BCM wake-up condition	CAN wake-up condition
Back door opener switch: OFF → ON	<ul style="list-style-type: none"> • Receiving the sleep-ready signal (Not-ready) from any units • Push-button ignition switch (push switch): OFF → ON • Hazard switch: ON • HI BEAM switch: OFF → ON, ON → OFF • PASSING switch: OFF → ON, ON → OFF • HEADLAMP 1 switch: OFF → ON, ON → OFF • HEADLAMP 2 switch: OFF → ON, ON → OFF • TAIL LAMP switch: OFF → ON • FR FOG switch: OFF → ON, ON → OFF • TURN RH: OFF → ON • TURN LH: OFF → ON • Driver door switch: OFF → ON, ON → OFF • Passenger door switch: OFF → ON, ON → OFF • Rear RH door switch: OFF → ON, ON → OFF • Rear LH door switch: OFF → ON, ON → OFF • Back door switch: OFF → ON, ON → OFF • Driver door request switch: OFF → ON • Passenger door request switch: OFF → ON • Back door request switch: OFF → ON • Stop lamp switch: ON • Door lock and unlock switch: NEUTRAL → LOCK, NEUTRAL → UNLOCK • Front door lock assembly (driver side) (door key cylinder switch): NEUTRAL → LOCK, NEUTRAL → UNLOCK • Remote keyless entry receiver communication: Receiving • Front door lock assembly (driver side) (unlock sensor): OFF → ON, ON → OFF

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000012406993

APPLICATION ITEM

CONSULT 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.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Ecu Identification	The BCM part number is displayed.
Configuration	<ul style="list-style-type: none">• Read and save the vehicle specification.• Write the vehicle specification when replacing BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

System	Sub system selection item	Diagnosis mode		
		Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp control system	INT LAMP	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
Air conditioning control system	AIR CONDITONER		×	×*
<ul style="list-style-type: none">• Intelligent Key system• Engine start system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
NVIS	IMMU	×	×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	AIR PRESSURE MONITOR	×	×	×

NOTE:

*: For models with automatic air conditioning control system, this diagnosis mode is not used.

FREEZE FRAME DATA (FFD)

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

DIAGNOSIS SYSTEM (BCM)

< 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	
Vehicle Condition	SLEEP>LOCK	Power position status of the moment a particular DTC is detected*	While turning BCM status from low power consumption mode to normal mode [Power supply position is OFF (LOCK)]
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode [Power supply position is OFF (OFF)]
	LOCK>ACC		While turning power supply position from OFF (LOCK) to ACC
	ACC>ON		While turning power supply position from ACC to ON
	RUN>ACC		While turning power supply position from RUN to ACC (Except emergency stop operation)
	CRANK>RUN		While turning power supply position from CRANK to RUN
	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)
	OFF>LOCK		While turning power supply position from OFF (OFF) to OFF (LOCK)
	OFF>ACC		While turning power supply position from OFF (OFF) to ACC
	ON>CRANK		While turning power supply position from ON to CRANK
	OFF>SLEEP		While turning BCM status from normal mode [Power supply position is OFF (OFF)] to low power consumption mode
	LOCK>SLEEP		While turning BCM status from normal mode [Power supply position is OFF (LOCK)] to low power consumption mode
	LOCK		Power supply position is OFF (LOCK)
	OFF		Power supply position is OFF (OFF)
	ACC		Power supply position is ACC
	ON		Power supply position is ON
	ENGINE RUN		Power supply position is RUN
	CRANKING		Power supply position is CRANK
IGN Counter	0 - 39	The number of times that ignition switch is turned ON after DTC is detected <ul style="list-style-type: none"> • The number is 0 when a malfunction is detected now. • The number increases like 1 → 2 → 3...38 → 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:

*: Refer to the following for details of the power supply position.

- OFF (OFF, LOCK): Ignition switch OFF
- ACC: Ignition switch ACC
- IGN: Ignition switch ON with engine stopped
- RUN: Ignition switch ON with engine running
- CRANK: At engine cranking

Power supply position shifts to "OFF (LOCK)" from "OFF (OFF)", when ignition switch is in the OFF position, shift position is in the P position, and any of the following conditions are met.

- Closing door
- Opening door
- Door is locked using door request switch
- Door is locked using Intelligent Key

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

DOOR LOCK

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)

INFOID:0000000013056755

BCM CONSULT FUNCTION

CONSULT performs the following functions via CAN communication with BCM.

WORK SUPPORT

Monitor item	Description
DOOR LOCK-UNLOCK SET	Selective unlock function mode can be changed to operation with this mode <ul style="list-style-type: none">On: OperateOff: Non-operation
AUTOMATIC DOOR LOCK SELECT	Automatic door lock function mode can be selected from the following in this mode <ul style="list-style-type: none">VH SPD: All doors are locked when vehicle speed more than 24 km/h (15 MPH)P RANGE: All doors are locked when shifting the selector lever from P position to other than the P position
AUTOMATIC DOOR UNLOCK SELECT	Automatic door unlock function mode can be selected from the following in this mode <ul style="list-style-type: none">MODE 1: All doors are unlocked when the power supply position is changed from ON to OFFMODE 2: All doors are unlocked when shifting the selector lever from any position other than the P to P positionMODE 3: Driver side door is unlocked when the power supply position is changed from ON to OFFMODE 4: Driver side door is unlocked when shifting the selector lever from any position other than the P to P positionMODE 5: This item is displayed, but cannot be usedMODE 6: This item is displayed, but cannot be used
AUTOMATIC LOCK/UNLOCK SET	Automatic door lock/unlock function mode can be selected from the following in this mode <ul style="list-style-type: none">Off: Non-operationUnlock Only: Door unlock operation onlyLock Only: Door lock operation onlyLock/Unlock: Lock and unlock operation

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Contents
REQ SW-DR	Indicated [On/Off] condition of door request switch (driver side)
REQ SW-AS	Indicated [On/Off] condition of door request switch (passenger side)
REQ SW-BD/TR	Indicated [On/Off] condition of back door request switch
DOOR SW-DR	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS	Indicated [On/Off] condition of front door switch (passenger side)
DOOR SW-RR	Indicated [On/Off] condition of sliding door switch RH
DOOR SW-RL	Indicated [On/Off] condition of sliding door switch LH
DOOR SW-BK	Indicated [On/Off] condition of back door switch
CDL LOCK SW	Indicated [On/Off] condition of lock signal from door lock unlock switch
CDL UNLOCK SW	Indicated [On/Off] condition of unlock signal from door lock unlock switch
KEY CYL LK-SW	Indicated [On/Off] condition of lock signal from door key cylinder switch
KEY CYL UN-SW	Indicated [On/Off] condition of unlock signal from door key cylinder switch

ACTIVE TEST

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Test item	Description
DOOR LOCK	This test is able to check door lock/unlock operation <ul style="list-style-type: none">• The all door lock actuators are locked when "ALL LOCK" on CONSULT screen is touched• The all door lock actuators are unlocked when "ALL UNLK" on CONSULT screen is touched• The front door lock actuator (driver side) is unlocked when "DR UNLK" on CONSULT screen is touched• The front door lock actuator (passenger side) is unlocked when "AS UNLK" on CONSULT screen is touched• The door lock actuator (other) is unlocked when "OTR ULK" on CONSULT screen is touched

REAR WINDOW DEFOGGER

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

INFOID:0000000013056777

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

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

ACTIVE TEST

Test Item	Description
REAR DEFOGGER	Rear window defogger operates when ON on CONSULT screen is touched.

BUZZER

BUZZER : CONSULT Function (BCM - BUZZER)

INFOID:0000000013056773

CONSULT APPLICATION ITEMS

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

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Display item [Unit]	Description
PUSH SW [On/Off]	Status of push-button ignition switch judged by BCM.
UNLK SEN-DR [On/Off]	Status of unlock sensor judged by BCM.
VEH SPEED 1 [km/h]	Value of vehicle speed signal received from combination meter with CAN communication line.
TAIL LAMP SW [On/Off]	Status of lighting switch judged by BCM using the combination switch readout function.
FR FOG SW [On/Off]	Status of front fog lamp switch judged by BCM using the combination switch readout function.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Display item [Unit]	Description
DOOR SW-DR [On/Off]	Status of driver side door switch judged by BCM.
CDL LOCK SW [On/Off]	Status of door lock unlock switch judged by BCM.

ACTIVE TEST

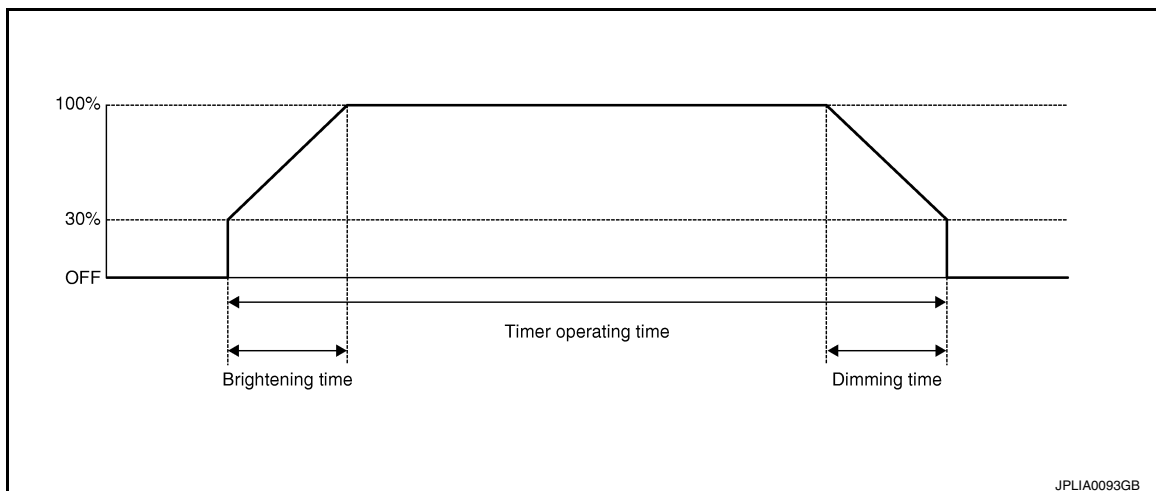
Display item [Unit]	Description
SEAT BELT WARN TEST	The seat belt warning chime operation can be checked by operating the relevant function (On/Off).
ID REGIST WARNING	The ID regist warning chime operation can be checked by operating the relevant function (On/Off).
LIGHT WARN ALM	The light warning chime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

INT LAMP

INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:0000000013056770

WORK SUPPORT



Service item	Setting item	Setting
ROOM LAMP TIMER SET	MODE 2	7.5 sec.
	MODE 3*	15 sec.
	MODE 4	30 sec.
SET I/L D-UNLCK INTCON	On*	With the interior room lamp timer function
	Off	Without the interior room lamp timer function
ROOM LAMP ON TIME SET	MODE 1	0.5 sec.
	MODE 2*	1 sec.
	MODE 3	2 sec.
	MODE 4	3 sec.
	MODE 5	0 sec.
ROOM LAMP OFF TIME SET	MODE 1	0.5 sec.
	MODE 2*	1 sec.
	MODE 3	2 sec.
	MODE 4	3 sec.
	MODE 5	0 sec.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Service item	Setting item	Setting
R LAMP TIMER LOGIC SET	MODE 1*	Interior room lamp timer activates with synchronizing all doors.
	MODE 2	Interior room lamp timer activates with synchronizing the driver door only.

*: Factory setting

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	The switch status input from door request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from door request switch (passenger side)
REQ SW-RR [On/Off]	NOTE: The item is indicated, but not monitored.
REQ SW-RL [On/Off]	
PUSH SW [On/Off]	The switch status input from push-button ignition switch
UNLK SEN -DR [On/Off]	Driver door unlock status input from unlock sensor
DOOR SW-DR [On/Off]	The switch status input from front door switch (driver side)
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)
DOOR SW-RR [On/Off]	The switch status input from sliding door switch RH
DOOR SW- RL [On/Off]	The switch status input from sliding door switch LH
DOOR SW- BK [On/Off]	The switch status input from back door switch
CDL LOCK SW [On/Off]	Lock switch status input from door lock and unlock switch
CDL UNLOCK SW [On/Off]	Unlock switch status input from door lock and unlock switch
TRNK/HAT MNTR [On/Off]	NOTE: The item is indicated, but not monitored
KEY CYL LK-SW [On/Off]	Lock switch status received from door key cylinder switch
KEY CYL UN-SW [On/Off]	Unlock switch status received from door key cylinder 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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Test item	Operation	Description
INT LAMP	On	Outputs the interior room lamp control signal to turn the interior room lamps ON. [Map lamp, personal lamp (when applicable lamps switch is in DOOR position.)]
	Off	Stops the interior room lamp control signal to turn the interior room lamps.
STEP LAMP TEST	On	Outputs the step lamp control signal to turn the step lamps ON.
	Off	Stops the step lamp control signal to turn the step lamps ON.

HEADLAMP

HEADLAMP : CONSULT Function (BCM - HEADLAMP) (Xenon Type Headlamp)

INFOID:0000000013056762

WORK SUPPORT

Service item	Setting item	Setting
CUSTOM A/LIGHT SETTING	MODE 1*	Normal
	MODE 2	More sensitive setting than normal setting (Turns ON earlier than normal operation)
	MODE 3	More sensitive setting than MODE 2 (Turns ON earlier than MODE 2)
	MODE 4	Less sensitive setting than normal setting (Turns ON later than normal operation.)
BATTERY SAVER SET	On*	With the exterior lamp battery saver function
	Off	Without the exterior lamp battery saver function
ILL DELAY SET	MODE 1*	45 sec.
	MODE 2	Without the function
	MODE 3	30 sec.
	MODE 4	60 sec.
	MODE 5	90 sec.
	MODE 6	120 sec.
	MODE 7	150 sec.
	MODE 8	180 sec.
AUTO LIGHT LOGIC SET	MODE 1*	With twilight ON custom & with wiper INT, LO and HI
	MODE 2	With twilight ON custom & with wiper LO and HI
	MODE 3	With twilight ON custom & without
	MODE 4	Without twilight ON custom & with wiper INT, LO and HI
	MODE 5	Without twilight ON custom & with wiper LO and HI
	MODE 6	Without twilight ON custom & without

*: Factory setting

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
VEH SPEED 1 [km/h]	The value of the vehicle speed received from combination meter via CAN communication
TURN SIGNAL R [On/Off]	Each switch status that BCM judges from the combination switch reading function
TURN SIGNAL L [On/Off]	
TAIL LAMP SW [On/Off]	
HI BEAM SW [On/Off]	
HEAD LAMP SW1 [On/Off]	
HEAD LAMP SW2 [On/Off]	
PASSING SW [On/Off]	
AUTO LIGHT SW [On/Off]	
FR FOG SW [On/Off]	
DOOR SW-DR [On/Off]	The switch status input from front door switch (driver side)
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)
DOOR SW-RR [On/Off]	The switch status input from sliding door switch RH
DOOR SW- RL [On/Off]	The switch status input from sliding door switch LH
DOOR SW-BK [On/Off]	The switch status input from back door switch
OPTICAL SENSOR [On/Off/NG]	NOTE: This item is indicated, but can not monitored
OPTI SEN (DTCT) [V]	The value of outside brightness voltage input from the optical sensor
OPTI SEN (FILT) [V]	The value of outside brightness voltage filtered by BCM

ACTIVE TEST

Test item	Operation	Description
TAIL LAMP	On	Transmits the position light request signal to IPDM E/R via CAN communication to turn the tail lamp ON
	Off	Stops the tail lamp request signal transmission
HEAD LAMP	Hi	Transmits the high beam request signal via CAN communication to turn the headlamp (HI)
	Lo	Transmits the low beam request signal via 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 via CAN communication to turn the front fog lamp ON
	Off	Stops the front light request signal transmission

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Test item	Operation	Description
ILL DIM SIGNAL	On	<ul style="list-style-type: none"> Transmits the dimmer signal to combination meter via CAN communication and dims combination meter Transmits the dimmer signal to AV control unit and dims display
	Off	Stops the dimmer signal transmission

HEADLAMP : CONSULT Function (BCM - HEADLAMP) (Halogen Type Headlamp)

INFOID:0000000013056767

WORK SUPPORT

Service item	Setting item	Setting
CUSTOM A/LIGHT SETTING*1	MODE 1*2	Normal
	MODE 2	More sensitive setting than normal setting (Turns ON earlier than normal operation)
	MODE 3	More sensitive setting than MODE 2 (Turns ON earlier than MODE 2)
	MODE 4	Less sensitive setting than normal setting (Turns ON later than normal operation.)
BATTERY SAVER SET	On*2	With the exterior lamp battery saver function
	Off	Without the exterior lamp battery saver function
ILL DELAY SET*1	MODE 1*2	45 sec.
	MODE 2	Without the function
	MODE 3	30 sec.
	MODE 4	60 sec.
	MODE 5	90 sec.
	MODE 6	120 sec.
	MODE 7	150 sec.
	MODE 8	180 sec.
AUTO LIGHT LOGIC SET*1	MODE 1*2	With twilight ON custom & with wiper INT, LO and HI
	MODE 2	With twilight ON custom & with wiper LO and HI
	MODE 3	With twilight ON custom & without
	MODE 4	Without twilight ON custom & with wiper INT, LO and HI
	MODE 5	Without twilight ON custom & with wiper LO and HI
	MODE 6	Without twilight ON custom & without

*1: For models without auto light system, this item cannot be used.

*2: Factory setting

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor item [Unit]	Description
PUSH SW [On/Off]	The switch status input from push-button ignition switch
ENGINE STATE [Stop/Stall/Crank/Run]	The engine status received from ECM with CAN communication
VEH SPEED 1 [km/h]	The value of the vehicle speed received from combination meter via CAN communication

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
TURN SIGNAL R [On/Off]	Each switch status that BCM judges from the combination switch reading function
TURN SIGNAL L [On/Off]	
TAIL LAMP SW [On/Off]	
HI BEAM SW [On/Off]	
HEAD LAMP SW1 [On/Off]	
HEAD LAMP SW2 [On/Off]	
PASSING SW [On/Off]	
AUTO LIGHT SW* ¹ [On/Off]	
FR FOG SW* ² [On/Off]	
DOOR SW-DR [On/Off]	The switch status input from front door switch (driver side)
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)
DOOR SW-RR [On/Off]	The switch status input from sliding door switch RH
DOOR SW- RL [On/Off]	The switch status input from sliding door switch LH
DOOR SW-BK [On/Off]	The switch status input from back door switch
OPTICAL SENSOR [On/Off/NG]	NOTE: This item is indicated, but can not monitored
OPTI SEN (DTCT)* ¹ [V]	The value of outside brightness voltage input from the optical sensor
OPTI SEN (FILT)* ¹ [V]	The value of outside brightness voltage filtered by BCM

*¹: For models without auto light system, this item cannot be monitored.

*²: For models without front fog lamp, this item cannot be monitored.

ACTIVE TEST

Test item	Operation	Description
TAIL LAMP	On	Transmits the position light request signal to IPDM E/R via CAN communication to turn the tail lamp ON
	Off	Stops the tail lamp request signal transmission
HEAD LAMP	Hi	Transmits the high beam request signal via CAN communication to turn the headlamp (HI)
	Lo	Transmits the low beam request signal via 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 via CAN communication to turn the front fog lamp ON
	Off	Stops the front light request signal transmission

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Test item	Operation	Description
ILL DIM SIGNAL	On	<ul style="list-style-type: none"> Transmits the dimmer signal to combination meter via CAN communication and dims combination meter Transmits the dimmer signal to AV control unit and dims display
	Off	Stops the dimmer signal transmission

*: For models without front fog lamp, this item cannot be tested.

WIPER

WIPER : CONSULT Function (BCM - WIPER)

INFOID:0000000013056772

WORK SUPPORT

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

*: Factory setting

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item [Unit]	Description
PUSH SW [Off/On]	The switch status input from push-button ignition switch.
VEH SPEED 1 [km/h]	Displays the value of the vehicle speed signal received from combination meter via CAN communication.
FR WIPER HI [Off/On]	Status of each switch judged by BCM using the combination switch reading function
FR WIPER LOW [Off/On]	
FR WASHER SW [Off/On]	
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 via CAN communication.
INT VOLUME [1 - 7]	Status of each switch judged by BCM using the combination switch reading function
RR WIPER ON [Off/On]	Status of each switch judged by BCM using the combination switch reading function
RR WIPER INT [Off/On]	
RR WASHER SW [Off/On]	
RR WIPER STOP [Off/On]	Rear wiper motor (stop position) status input from the rear wiper motor

ACTIVE TEST

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BCS

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Test item	Operation	Description
FR WIPER	Hi	Transmits the front wiper request signal (HI) to IPDM E/R via CAN communication to operate the front wiper HI operation.
	Lo	Transmits the front wiper request signal (LO) to IPDM E/R via CAN communication to operate the front wiper LO operation.
	INT	Transmits the front wiper request signal (INT) to IPDM E/R via CAN communication to operate the front wiper INT operation.
	Off	Stops transmitting the front wiper request signal to stop the front wiper operation.
RR WIPER	On	Output the voltage to operate the rear wiper motor.
	Off	Stops the voltage to stop the rear wiper motor.

FLASHER

FLASHER : CONSULT Function (BCM - FLASHER) (Xenon Type Headlamp)

INFOID:0000000013056768

WORK SUPPORT

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

*: Factory setting

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	The switch status input from the request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from the request switch (passenger side)
PUSH SW [On/Off]	The switch status input from the push-button ignition switch
TURN SIGNAL R [On/Off]	Each switch status that BCM detects from the combination switch reading function
TURN SIGNAL L [On/Off]	
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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Test item	Operation	Description
FLASHER	RH	Outputs the voltage to turn on the right side turn signal lamps.
	LH	Outputs the voltage to turn on the left side turn signal lamps.
	Off	Stops the voltage to turn the turn signal lamps OFF.

FLASHER : CONSULT Function (BCM - FLASHER) (Halagen Type Headlamp)

INFOID:0000000013056769

WORK SUPPORT

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

*: Factory setting

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	The switch status input from the request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from the request switch (passenger side)
PUSH SW [On/Off]	The switch status input from the push-button ignition switch
TURN SIGNAL R [On/Off]	Each switch status that BCM detects from the combination switch reading function
TURN SIGNAL L [On/Off]	
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
FLASHER	RH	Outputs the voltage to turn on the right side turn signal lamps.
	LH	Outputs the voltage to blink turn on left side turn signal lamps.
	Off	Stops the voltage to turn the turn signal lamps OFF.

AIR CONDITIONER

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

AIR CONDITIONER : CONSULT Function (BCM - AIR CONDITIONER) (Auto A/C)

INFOID:0000000013056774

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Display Item List

Monitor Item [Unit]	Contents
FAN ON SIG [On/Off]	Displays the status of blower fan ON signal received from A/C auto amp.
AIR COND SW [On/Off]	Displays the status of A/C ON signal received from A/C auto amp.

AIR CONDITIONER : CONSULT Function (BCM - AIR CONDITIONER) (Manual A/C)

INFOID:0000000013056775

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Display Item List

Monitor Item [Unit]	Contents
FAN ON SIG [On/Off]	Displays the status of blower fan ON signal received from A/C amp.
AIR COND SW [On/Off]	Displays the status of A/C ON signal received from A/C amp.

INTELLIGENT KEY

INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)

INFOID:0000000013056756

WORK SUPPORT

Monitor item	Description
INSIDE ANT DIAGNOSIS	This function allows inside key antenna self-diagnosis
LOCK/UNLOCK BY I-KEY	Door lock/unlock function by door request switch mode can be changed to operation in this mode <ul style="list-style-type: none">On: OperateOff: Non-operation
ENGINE START BY I-KEY	Engine start function mode can be changed to operation with this mode <ul style="list-style-type: none">On: OperateOff: Non-operation
TRUNK/GLASS HATCH OPEN	NOTE: This item is displayed, but cannot be used
PANIC ALARM SET	Panic alarm button pressing time on Intelligent Key button can be selected from the following with this mode <ul style="list-style-type: none">MODE 1: 0.5 secMODE 2: Non-operationMODE 3: 1.5 sec
TRUNK OPEN DELAY	NOTE: This item is displayed, but cannot be used
LO- BATT OF KEY FOB WARN	Intelligent Key low battery warning mode can be changed to operation with this mode <ul style="list-style-type: none">On: OperateOff: Non-operation
ANTI KEY LOCK IN FUNCTI	Key reminder function mode can be changed to operation with this mode <ul style="list-style-type: none">On: OperateOff: Non-operation

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Monitor item	Description
HAZARD ANSWER BACK	Hazard reminder function mode by door request switch and Intelligent Key button can be selected from the following with this mode <ul style="list-style-type: none"> • Lock Only: Door lock operation only • Unlock Only: Door unlock operation only • Lock/Unlock: Lock and unlock operation • Off: Non-operation
ANS BACK I-KEY LOCK	Buzzer reminder function (lock operation) mode by door request switch can be selected from the following with this mode <ul style="list-style-type: none"> • 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 operation with this mode <ul style="list-style-type: none"> • On: Operate • Off: Non-operation
SHORT CRANKING OUTPUT	Starter motor can operate during the times below <ul style="list-style-type: none"> • 70 msec • 100 msec • 200 msec
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 operation time can be changed in this mode <ul style="list-style-type: none"> • MODE 1: OFF • MODE 2: 30 sec • MODE 3: 1 minute • MODE 4: 2 minutes • MODE 5: 3 minutes • MODE 6: 4 minutes • MODE 7: 5 minutes
HORN WITH KEYLESS LOCK	Horn reminder function mode by Intelligent Key button can be selected from the following with this mode <ul style="list-style-type: none"> • On: Operate • Off: Non-operation
PW DOWN SET	Unlock button pressing time on Intelligent Key button can be selected from the following with this mode <ul style="list-style-type: none"> • MODE 1: 3 sec • MODE 2: Non-operation • MODE 3: 5 sec

SELF-DIAG RESULT

Refer to [BCS-64, "DTC Index"](#).

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Condition
REQ SW -DR	Indicates [On/Off] condition of door request switch (driver side)
REQ SW -AS	Indicates [On/Off] condition of door request switch (passenger side)
REQ SW -BD/TR	Indicates [On/Off] condition of back door request switch
PUSH SW	Indicates [On/Off] condition of push-button ignition switch
CLUTCH SW	NOTE: This item is displayed, but cannot be monitored
BRAKE SW 1	Indicates [On/Off]* condition of stop lamp switch power supply
BRAKE SW 2	Indicates [On/Off] condition of stop lamp switch
DETE/CANCL SW	Indicates [On/Off] condition of P position
SFT PN/N SW	Indicates [On/Off] condition of P or N position

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Monitor Item	Condition
S/L -LOCK	NOTE: This item is displayed, but cannot be monitored
S/L -UNLOCK	NOTE: This item is displayed, but cannot be monitored
S/L RELAY -F/B	NOTE: This item is displayed, but cannot be 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
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	NOTE: This item is displayed, but cannot be monitored
S/L UNLK-IPDM	NOTE: This item is displayed, but cannot be monitored
S/L RELAY-REQ	NOTE: This item is displayed, but cannot be 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/UNLK] condition of unlock sensor
DOOR STAT-AS	Indicates [LOCK/READY/UNLK] 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
TRNK/HAT MNTR	NOTE: This item is displayed, but cannot be monitored
RKE-LOCK	Indicates [On/Off] condition of LOCK signal from Intelligent Key
RKE-UNLOCK	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key
RKE-TR/BD	NOTE: This item is displayed, but cannot be monitored
RKE-PANIC	Indicates [On/Off] condition of PANIC button of Intelligent Key
RKE-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

*: OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

ACTIVE TEST

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Test item	Description	
BATTERY SAVER	This test is able to check interior room lamp operation • On: Operate • Off: Non-operation	A
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation • On: Operate • Off: Non-operation	B
INSIDE BUZZER	This test is able to check warning chime in combination meter operation • Take Out: Take away warning chime sounds when CONSULT screen is touched • Key: Key warning chime sounds when CONSULT screen is touched • Knob: OFF position warning chime sounds when CONSULT screen is touched • Off: Non-operation	C
INDICATOR	This test is able to check warning lamp operation • KEY ON: "KEY" Warning lamp illuminates when CONSULT screen is touched • KEY IND: "KEY" Warning lamp blinks when CONSULT screen is touched • Off: Non-operation	D
INT LAMP	This test is able to check interior room lamp operation • On: Operate • Off: Non-operation	E
LCD	This test is able to check meter display information • Engine start information displays when "BP N" on CONSULT screen is touched • Engine start information displays when "BP I" on CONSULT screen is touched • Key ID warning displays when "ID NG" on CONSULT screen is touched • ROTAT: This item is displayed, but cannot be used. • P position warning displays when "SFT P" on CONSULT screen is touched • INSRT: This item is displayed, but cannot be monitored • BATT: This item is displayed, but cannot be monitored • Take away through window warning displays when "NO KY" on CONSULT screen is touched • Take away warning display when "OUTKEY" on CONSULT screen is touched • OFF position warning display when "LK WN" on CONSULT screen is touched	F
FLASHER	This test is able to check hazard warning lamp operation • LH: LH side hazard warning lamps operate • RH: RH side hazard warning lamps operate • Off: Non-operation	G
P RANGE	This test is able to check CVT shift selector power supply • On: Operate • Off: Non-operation	H
ENGINE SW ILLUMI	This test is able to check push-button ignition switch illumination operation • On: Operate • Off: Non-operation	I
LOCK INDICATOR	This test is able to check LOCK indicator (push-button ignition switch) operation • On: Operate • Off: Non-operation	J
ACC INDICATOR	This test is able to check ACC indicator (push-button ignition switch) operation • On: Operate • Off: Non-operation	K
IGNITION ON IND	This test is able to check ON indicator (push-button ignition switch) operation • On: Operate • Off: Non-operation	L
HORN	This test is able to check horn operation • On: Operate • Off: Non-operation	
TRUNK/BACK DOOR	NOTE: This item is displayed, but cannot be used	
POWER SLIDE DOOR	This test is able to check automatic sliding door operation • RR PSD ON: Auto open/close operate • RL PSD ON: Auto open/close operate	

BCS

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

COMB SW

COMB SW : CONSULT Function (BCM - COMB SW)

INFOID:0000000012407006

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor item [UNIT]	Description
FR WIPER HI [Off/On]	Displays the status of the FR WIPER HI switch in combination switch judged by BCM with the combination switch reading function.
FR WIPER LOW [Off/On]	Displays the status of the FR WIPER LOW switch in combination switch judged by BCM with the combination switch reading function.
FR WASHER SW [Off/On]	Displays the status of the FR WASHER switch in combination switch judged by BCM with the combination switch reading function.
FR WIPER INT [Off/On]	Displays the status of the FR WIPER INT switch in combination switch judged by BCM with the combination switch reading function.
INT VOLUME [1 - 7]	Displays the status of wiper intermittent dial position judged by BCM with the combination switch reading function.
RR WIPER ON [Off/On]	Displays the status of the RR WIPER ON switch in combination switch judged by BCM with the combination switch reading function.
RR WIPER INT [Off/On]	Displays the status of the RR WIPER INT switch in combination switch judged by BCM with the combination switch reading function.
RR WASHER SW [Off/On]	Displays the status of the RR WASHER switch in combination switch 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.

BCM

BCM : CONSULT Function (BCM - BCM)

INFOID:0000000012407007

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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

IMMU : CONSULT Function (BCM - IMMU)

INFOID:0000000013056759

WORK SUPPORT

Service item	Description
CONFIRM DONGLE ID	It is possible to check that dongle unit is applied to the vehicle.

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor item	Content
CONFIRM ID ALL	Indicates [YET] at all time. Switches to [DONE] when a registered Intelligent Key backside is contacted to push-button ignition switch.
CONFIRM ID4	
CONFIRM ID3	
CONFIRM ID2	
CONFIRM ID1	
NOT REGISTERED	Indicates [ID OK] when key ID that is registered is received or is not yet received. Indicates [ID NG] when key ID that is not registered is received.
TP 4	Indicates the number of IDs that are registered.
TP 3	
TP 2	
TP 1	
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch.

ACTIVE TEST

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

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:0000000013056771

WORK SUPPORT

Service item	Setting item	Setting	
ROOM LAMP TIMER SET	MODE 1	30 min.	Sets the interior room lamp battery saver timer operating time. NOTE: The factor setting is 10 minutes. The setting cannot be returned to the factory setting, when the setting is changed once.
	MODE 2	60 min.	
	MODE 3	15 min.	
BATTERY SAVER SET	On*	With the exterior lamp battery saver function	
	Off	Without the exterior lamp battery saver function	

*:Factory setting

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	The switch status input from door request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from door request switch (passenger side)
REQ SW-RR [On/Off]	NOTE: The item is indicated, but not monitored.
REQ SW-RL [On/Off]	
PUSH SW [On/Off]	The switch status input from push-button ignition switch
UNLK SEN -DR [On/Off]	Driver door unlock status input from unlock sensor
DOOR SW-DR [On/Off]	The switch status input from front door switch (driver side)
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)
DOOR SW-RR [On/Off]	The switch status input from sliding door switch RH
DOOR SW- RL [On/Off]	The switch status input from sliding door switch LH
DOOR SW- BK [On/Off]	The switch status input from back door switch
CDL LOCK SW [On/Off]	Lock switch status input from door lock and unlock switch
CDL UNLOCK SW [On/Off]	Unlock switch status input from door lock and unlock switch
TRNK/HAT MNTR [On/Off]	NOTE: The item is indicated, but not monitored
KEY CYL LK-SW [On/Off]	Lock switch status received from door key cylinder switch
KEY CYL UN-SW [On/Off]	Unlock switch status received from door key cylinder 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 lamps OFF.
	On	Outputs the interior room lamp power supply to turn interior room lamps ON.*

*: Each lamp switch is in ON position.

TRUNK

TRUNK : CONSULT Function (BCM - TRUNK)

INFOID:0000000013056757

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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
TR/BD OPEN SW	Indicates [On/Off] condition of back door opener switch
TRNK/HAT MNTR	NOTE: This item is displayed, but cannot be monitored
RKE-TR/BD	NOTE: This item is displayed, but cannot be monitored

THEFT ALM

THEFT ALM : CONSULT Function (BCM - THEFT)

INFOID:0000000013056758

WORK SUPPORT

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

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitored Item	Description
REQ SW -DR	Indicates [ON/OFF] condition of door request switch (driver side).
REQ SW -AS	Indicates [ON/OFF] condition of door request switch (passenger side).
REQ SW -RR	NOTE: This is displayed even when it is not equipped.
REQ SW -RL	NOTE: This is displayed even when it is not equipped.
REQ SW -BD/TR	Indicates [ON/OFF] condition of back door request switch.
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch
UNLK SEN -DR	Indicates [ON/OFF] condition of driver door UNLOCK status.
DOOR SW-DR	Indicates [ON/OFF] condition of front door switch (driver side).
DOOR SW-AS	Indicates [ON/OFF] condition of front door switch (passenger side).
DOOR SW-RR	Indicates [ON/OFF] condition of rear door switch RH.
DOOR SW-RL	Indicates [ON/OFF] condition of rear door switch LH.
DOOR SW-BK	Indicates [ON/OFF] condition of back door switch.
CDL LOCK SW	Indicates [ON/OFF] condition of lock signal from door lock/unlock switch.
CDL UNLOCK SW	Indicates [ON/OFF] condition of unlock signal from door lock/unlock switch.
KEY CYL LK-SW	Indicates [ON/OFF] condition of lock signal from door key cylinder.
KEY CYL UN-SW	Indicates [ON/OFF] condition of unlock signal from door key cylinder.
TR/BD OPEN SW	Indicates [ON/OFF] condition of back door opener switch.
TRNK/HAT MNTR	NOTE: This is displayed even when it is not equipped.
RKE-LOCK	Indicates [ON/OFF] condition of LOCK signal from Intelligent Key.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Monitored Item	Description
RKE-UNLOCK	Indicates [ON/OFF] condition of UNLOCK signal from Intelligent Key.
RKE-TR/BD	NOTE: This is displayed even when it is not equipped.

ACTIVE TEST

Test Item	Description
THEFT IND	This test is able to check security indicator lamp operation. Security indicator lamp is turned on when "ON" on CONSULT screen is touched.
VEHICLE SECURITY HORN	This test is able to check horns operation. Horns are activated for 0.5 seconds after "ON" on CONSULT screen is touched.
HEADLAMP(HI)	This test is able to check headlamp operation. Headlamps are activated for 0.5 seconds after "ON" on CONSULT screen is touched.
FLASHER	This test is able to check hazard warning lamp operation. Hazard warning lamps are activated after "ON" on CONSULT screen is touched.

RETAINED PWR

RETAINED PWR : CONSULT Function (BCM - RETAINED PWR) (Front Window Anti-pinch)

INFOID:0000000013056760

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

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.

RETAINED PWR : CONSULT Function (BCM - RETAINED PWR) (Driver Side Window Anti-pinch)

INFOID:0000000013056761

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

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 Function (BCM - SIGNAL BUFFER)

INFOID:0000000012407014

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

ACTIVE TEST

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

AIR PRESSURE MONITOR

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

INFOID:000000013056778

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
Self Diagnostic Result	Retrieve DTC from ECU and display diagnostic items.
Data Monitor	Monitor the input/output signal of the control unit in real time.
Active Test	Send the drive signal from CONSULT to the actuator. The operation check can be performed.
Work Support	This mode enables a technician to adjust some devices faster and more accurately.

SELF DIAGNOSTIC RESULT

Refer to [BCS-64, "DTC Index"](#).

DATA MONITOR MODE

NOTE:

The following table includes information(items)inapplicable to this vehicle. For information(items)applicable to this vehicle, refer to CONSULT display items.

Monitor item (Unit)	Remarks
AIR PRESS FL (kPa kg/cm2 or Psi)	Tire pressure
AIR PRESS FR (kPa, kg/cm2 or Psi)	
AIR PRESS RR (kPa, kg/cm2 or Psi)	
AIR PRESS RL (kPa, kg/cm2 or Psi)	
ID REGST FL1 (Yet, Done)	Registration ID
ID REGST FR1 (Yet, Done)	
ID REGST RR1 (Yet, Done)	
ID REGST RL1 (Yet, Done)	
WARNING LAMP (On/Off)	Low tire pressure warning lamp
BUZZER (On/Off)	NOTE: This item is displayed, but cannot be use this item.

ACTIVE TEST MODE

NOTE:

After completing the work below, perform an active test.

1. Check ID registration state and perform self-diagnosis.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

2. Erase the self-diagnosis result history.

Item	Description
WARNING LAMP	Low tire pressure warning lamp can be turned ON arbitrarily.
ID REGIST WARNING	NOTE: Displayed but not used in TPMS.
RUN FLAT TIRE W/L	NOTE: Displayed but not used in TPMS.
RUN FLAT/T WARN BUZZER	NOTE: Displayed but not used in TPMS.
FLASHER	Turn signal lamps can be turned ON arbitrarily.
HORN	This test is able to check to check that the horn sounds.

WORK SUPPORT

Item	Description
ID READ	Registered tire pressure sensor ID can be displayed.
ID REGIST	Tire pressure sensor ID can be registered.

ECU DIAGNOSIS INFORMATION

BCM

Reference Value

INFOID:0000000012407016

VALUES ON THE DIAGNOSIS TOOL

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

CONSULT MONITOR ITEM

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
	Front washer switch ON	On
FR WIPER INT	Other than front wiper switch INT	Off
	Front wiper switch INT	On
FR WIPER STOP	Front wiper is not in STOP position	Off
	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
RR WIPER ON	Other than rear wiper switch ON	Off
	Rear wiper switch ON	On
RR WIPER INT	Other than rear wiper switch INT	Off
	Rear wiper switch INT	On
RR WASHER SW	Rear washer switch OFF	Off
	Rear washer switch ON	On
RR WIPER STOP	Rear wiper is in STOP position	Off
	Rear wiper is not in STOP position	On
TURN SIGNAL R	Other than turn signal switch RH	Off
	Turn signal switch RH	On
TURN SIGNAL L	Other than turn signal switch LH	Off
	Turn signal switch LH	On
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off
	Lighting switch 1ST or 2ND	On
HI BEAM SW	Other than lighting switch HI	Off
	Lighting switch HI	On
HEAD LAMP SW 1	Other than lighting switch 2ND	Off
	Lighting switch 2ND	On
HEAD LAMP SW 2	Other than lighting switch 2ND	Off
	Lighting switch 2ND	On
PASSING SW	Other than lighting switch PASS	Off
	Lighting switch PASS	On
AUTO LIGHT SW	Other than lighting switch AUTO	Off
	Lighting switch AUTO	On

BCM

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
FR FOG SW	Front fog lamp switch OFF	Off
	Front fog lamp switch ON	On
DOOR SW-DR	Driver door closed	Off
	Driver door opened	On
DOOR SW-AS	Passenger door closed	Off
	Passenger door opened	On
DOOR SW-RR	Sliding door RH closed	Off
	Sliding door RH opened	On
DOOR SW-RL	Sliding door LH closed	Off
	Sliding door LH opened	On
DOOR SW-BK	Back door closed	Off
	Back door opened	On
CDL LOCK SW	Other than power door lock switch LOCK	Off
	Power door lock switch LOCK	On
CDL UNLOCK SW	Other than power door lock switch UNLOCK	Off
	Power door lock switch UNLOCK	On
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off
	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
	Driver door key cylinder UNLOCK position	On
HAZARD SW	Hazard switch is OFF	Off
	Hazard switch is ON	On
REAR DEF SW	Rear window defogger switch OFF	Off
	Rear window defogger switch ON	On
TR/BD OPEN SW	Back door opener switch OFF	Off
	While the back door opener switch is turned ON	On
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
FAN ON SIG	Blower fan OFF	Off
	Blower fan ON	On
AIR COND SW	<ul style="list-style-type: none"> Air conditioner OFF (A/C switch indicator OFF) (Automatic A/C) A/C switch OFF (Manual A/C) 	Off
	<ul style="list-style-type: none"> Air conditioner ON (A/C switch indicator ON) (Automatic A/C) A/C switch ON (Manual A/C) 	On
RKE-LOCK	LOCK button of the key is not pressed	Off
	LOCK button of the key is pressed	On
RKE-UNLOCK	UNLOCK button of the key is not pressed	Off
	UNLOCK button of the key is pressed	On
RKE-TR/BD	NOTE: The item is indicated, but not monitored.	Off
RKE-PANIC	PANIC button of the key is not pressed	Off
	PANIC button of the key is pressed	On
RKE-MODE CHG	LOCK/UNLOCK button of the key is not pressed and held simultaneously	Off
	LOCK/UNLOCK button of the key is pressed and held simultaneously	On

BCM

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
SHOCK SENSOR	Air bag signal (NORMAL) is detected.	NOMAL	A
	Air bag signal (AIR BAG OPEN) is detected.	On	
	Air bag signal is not detected.	Off	B
OPTI SEN (DTCT)	Bright outside of the vehicle	Close to 5 V	
	Dark outside of the vehicle	Close to 0 V	
OPTI SEN (FILT)	Bright outside of the vehicle (Lighting switch AUTO)	Close to 5 V	C
	Dark outside of the vehicle (Lighting switch AUTO)	Close to 1.50 V	
OPTICAL SENSOR	NOTE: The item is indicated, but not monitored.	Off	D
RAIN SENSOR	NOTE: The item is indicated, but not monitored.	Off	
REQ SW -DR	Driver door request switch is not pressed	Off	E
	Driver door request switch is pressed	On	
REQ SW -AS	Passenger door request switch is not pressed	Off	F
	Passenger door request switch is pressed	On	
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off	G
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off	
REQ SW -BD/TR	Back door request switch is not pressed	Off	H
	Back door request switch is pressed	On	
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off	I
	Push-button ignition switch (push switch) is pressed	On	
CLUCH SW	NOTE: The item is indicated, but not monitored.	Off	J
BRAKE SW 1	The brake pedal is not depressed	Off	
	The brake pedal is depressed	On	
BRAKE SW 2	The brake pedal is depressed when No. 7 fuse is blown	Off	K
	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On	
DETE/CANCL SW	Selector lever in P position	Off	L
	Selector lever in any position other than P	On	
SFT PN/N SW	Selector lever in any position other than P and N	Off	BCS
	Selector lever in P or N position	On	
S/L -LOCK	NOTE: The item is indicated, but not monitored.	Off	N
S/L -UNLOCK	NOTE: The item is indicated, but not monitored.	Off	
S/L RELAY-F/B	NOTE: The item is indicated, but not monitored.	Off	O
UNLK SEN -DR	Driver door is locked	Off	
	Driver door is unlocked	On	P
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off	
	Push-button ignition switch (push-switch) is pressed	On	
IGN RLY1 -F/B	Ignition switch in OFF or ACC position	Off	
	Ignition switch in ON position	On	

BCM

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
DETE SW -IPDM	Selector lever in any position other than P	Off
	Selector lever in P position	On
SFT PN -IPDM	Selector lever in any position other than P and N	Off
	Selector lever in P or N position	On
SFT P -MET	Selector lever in any position other than P	Off
	Selector lever in P position	On
SFT N -MET	Selector lever in any position other than N	Off
	Selector lever in N position	On
ENGINE STATE	Engine stopped	Stop
	While the engine stalls	Stall
	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	NOTE: The item is indicated, but not monitored.	Off
S/L UNLK-IPDM	NOTE: The item is indicated, but not monitored.	Off
S/L RELAY-REQ	NOTE: The item is indicated, but not monitored.	Off
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading
DOOR STAT-DR	Driver door is locked	LOCK
	Wait with selective UNLOCK operation (60 seconds)	READY
	Driver door is unlocked	UNLOCK
DOOR STAT-AS	Passenger door is locked	LOCK
	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 (Shift position is in the P position)	Reset
	Ignition switch ON	Set
PRMT ENG STRT	The engine start is prohibited	Reset
	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
RKE OPE COUN1	During the operation of the key	Operation frequency of the key
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	—
CONFIRM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done
CONFIRM ID4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done

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< ECU DIAGNOSIS INFORMATION >

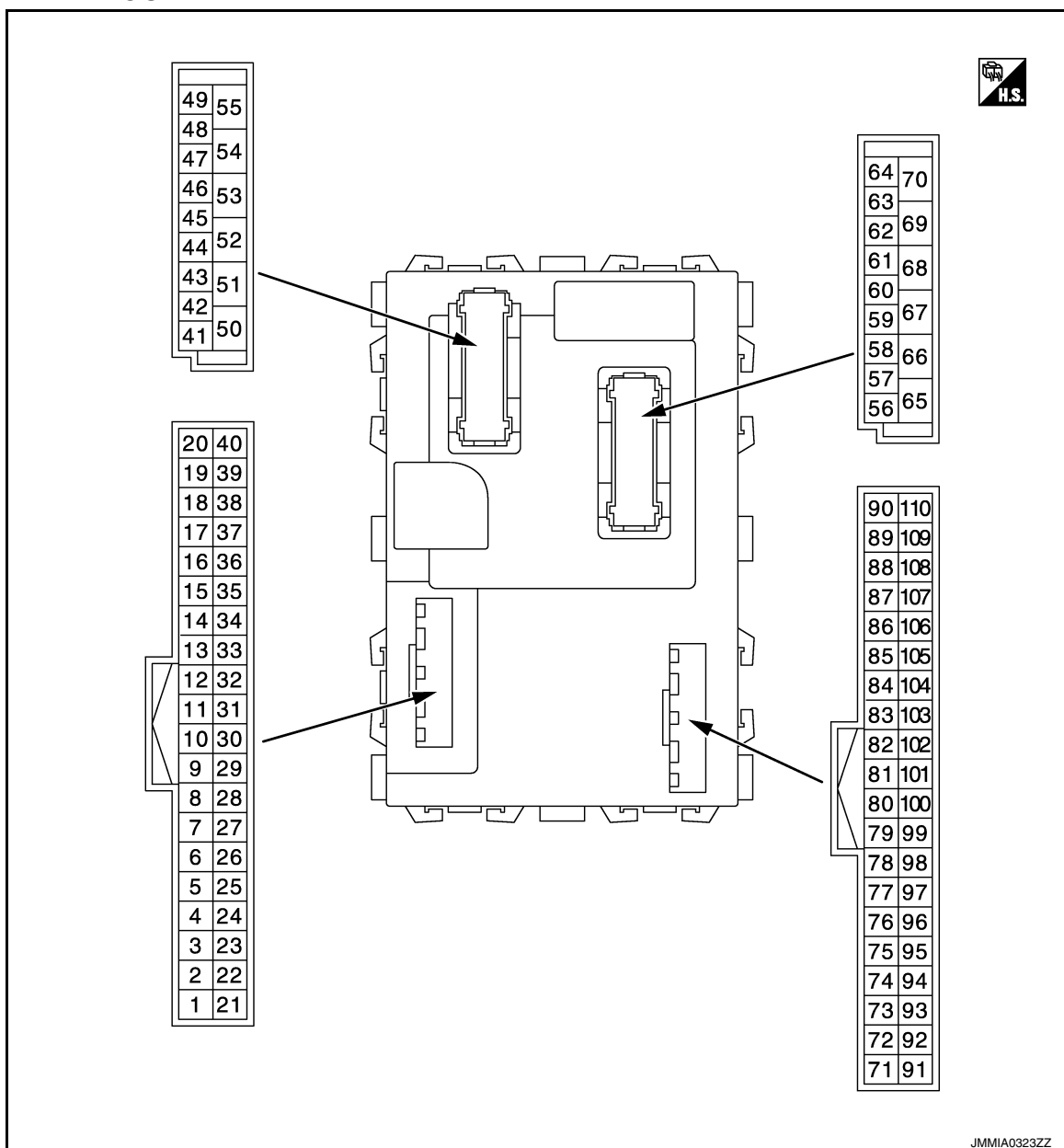
Monitor Item	Condition	Value/Status	
CONFIRM ID3	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet	A
	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done	B
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet	C
	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done	D
CONFIRM ID1	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet	E
	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done	F
NOT REGISTERED	BCM detects registered key ID, or BCM does not detect key ID.	ID OK	G
	BCM detects non-registration key ID.	ID NG	H
TP 4	The ID of fourth key is not registered to BCM	Yet	I
	The ID of fourth key is registered to BCM	Done	J
TP 3	The ID of third key is not registered to BCM	Yet	K
	The ID of third key is registered to BCM	Done	L
TP 2	The ID of second key is not registered to BCM	Yet	
	The ID of second key is registered to BCM	Done	
TP 1	The ID of first key is not registered to BCM	Yet	
	The ID of first 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	
ID REGST FL1	ID of front LH tire transmitter is registered	Done	
	ID of front LH tire transmitter is not registered	Yet	
ID REGST FR1	ID of front RH tire transmitter is registered	Done	
	ID of front RH tire transmitter is not registered	Yet	
ID REGST RR1	ID of rear RH tire transmitter is registered	Done	
	ID of rear RH tire transmitter is not registered	Yet	
ID REGST RL1	ID of rear LH tire transmitter is registered	Done	
	ID of rear LH tire transmitter is not registered	Yet	
WARNING LAMP	Tire pressure indicator OFF	Off	
	Tire pressure indicator ON	On	
BUZZER	Tire pressure warning alarm is not sounding	Off	
	Tire pressure warning alarm is sounding	On	

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< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT

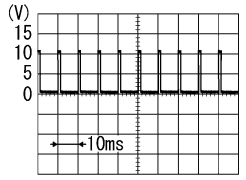
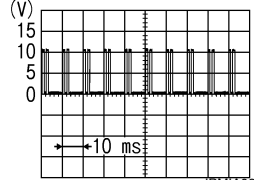
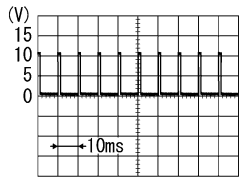
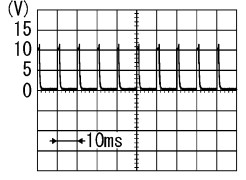
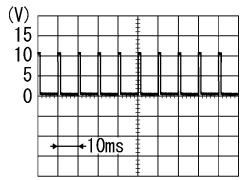


PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
1 (W)	Ground	Rear window defog- ger relay control	Input	Rear window defogger	OFF	9 – 16 V
					ON	0 – 0.6 V

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< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
2 (R)	Ground	Combination switch INPUT 5	Input	All switches OFF	0 V
				Turn signal switch RH	
				Lighting switch HI	
				Lighting switch 1ST	
				Lighting switch 2ND	
3 (G)	Ground	Combination switch INPUT 4	Input	All switches OFF	0 V
				Turn signal switch LH	
				Lighting switch PASS	
				Lighting switch 2ND	
				Front fog lamp switch ON	
4 (BE)	Ground	Combination switch INPUT 3	Input	All switches OFF	0 V
				Front wiper switch LO	
				Front wiper switch MIST	
				Front wiper switch INT	
				Lighting switch AUTO	

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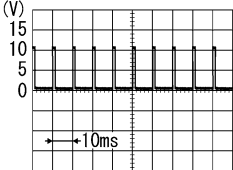
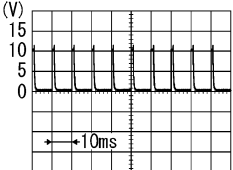
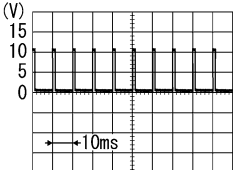
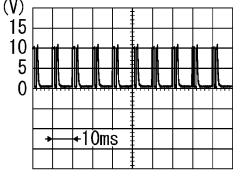
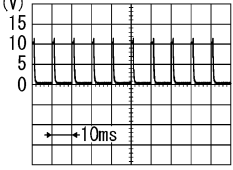
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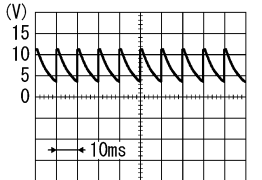
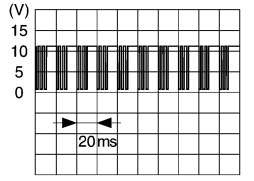
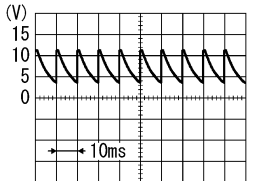
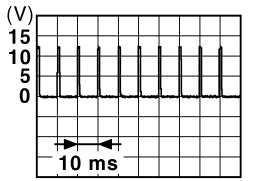
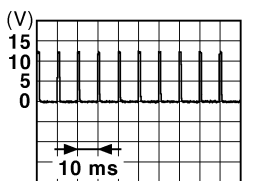
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< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
5 (G)	Ground	Combination switch INPUT 2	Input	Combination switch	All switches OFF (Wiper volume dial 4) 0 V
					Front washer switch ON (Wiper volume dial 4)
					Rear washer switch ON (Wiper volume dial 4)
					Any of the condition below with all switches OFF • Wiper volume dial 1 • Wiper volume dial 5 • Wiper volume dial 6
					 <p>PKIB4956J</p> <p>1.0 V</p>
					 <p>PKIB4956J</p> <p>0.8 V</p>
6 (W)	Ground	Combination switch INPUT 1	Input	Combination switch	All switches OFF (Wiper volume dial 4) 0 V
					Front wiper switch HI (Wiper volume dial 4)
					Rear wiper switch INT (Wiper volume dial 4)
					Wiper volume dial 3 (All switches OFF)
					 <p>PKIB4958J</p> <p>1.0 V</p>
					Any of the condition below with all switches OFF • Wiper volume dial 1 • Wiper volume dial 2
					 <p>PKIB4952J</p> <p>1.9 V</p>
					Any of the condition below with all switches OFF • Wiper volume dial 6 • Wiper volume dial 7
					 <p>PKIB4956J</p> <p>0.8 V</p>

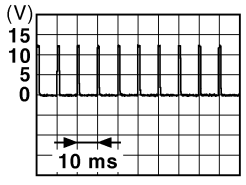
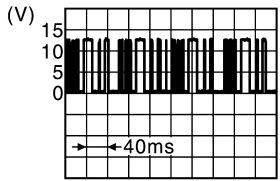
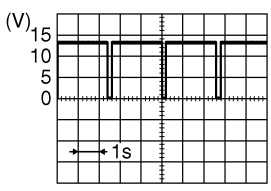
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< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
7*1 (W)	Ground	Door key cylinder switch UNLOCK	Input	Door key cylinder switch	NEUTRAL position	 7.0 - 8.0 V
					UNLOCK position	0 V
8 (Y)*1 (GR)*2	Ground	Power window switch communica- tion (with automatic sliding door system)	Input/ Output	Ignition switch ON		 9.0 - 10 V
		Door key cylinder switch LOCK (with- out automatic sliding door system)	Input	Door key cylinder switch	NEUTRAL position	 7.0 - 8.0 V
					LOCK position	0 V
9 (GR)	Ground	Stop lamp switch 1	Input	Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
					ON (Brake pedal is de- pressed)	9 - 16 V
12*1 (GR)	Ground	Door lock and unlock switch LOCK	Input	Door lock and unlock switch	NEUTRAL position	 1.0 - 1.5 V
					LOCK position	0 V
13*1 (BR)	Ground	Door lock and unlock switch UNLOCK	Input	Door lock and unlock switch	NEUTRAL position	 1.0 - 1.5 V
					UNLOCK position	0 V

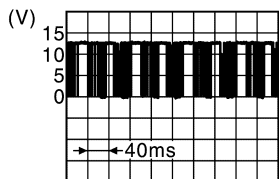
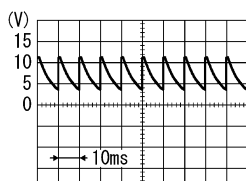
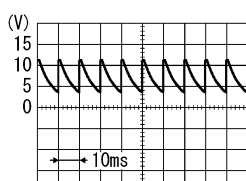
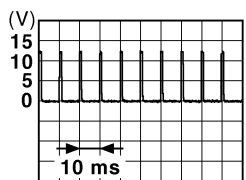
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< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
14 (L)	Ground	Optical sensor	Input	Ignition switch ON	When bright outside of the vehicle	Close to 5 V
					When dark outside of the vehicle	Close to 0 V
15 (W)	Ground	Rear window defogger switch	Input	Rear window defogger switch	Not pressed	 <p>JPMIA0012GB 1.0 - 1.5 V</p>
					Pressed	0 V
16*3 (Y)	Ground	Dimmer signal	Output	Ignition switch ON	Either of the following conditions • Lighting switch OFF • The area around the vehicle is bright (Shine a light on the optical sensor)	0 V
					The area around the vehicle is dark (Block the light from the optical sensor)	7.5 - 16 V
17 (O)	Ground	Sensor power supply	Output	Ignition switch	OFF, ACC	0 V
					ON	4.65 - 5.5 V
18 (R)	Ground	Receiver and sensor ground	Input	Ignition switch ON		0 V
21 (GR)	Ground	NATS antenna amp.	Input/ Output	Intelligent Key: Intelligent Key battery is removed	Brake pedal: Depressed NOTE: Waveform varies each time when brake pedal is depressed	 <p>JMK1A6232JP</p>
					Brake pedal: Not depressed	9 - 16 V
23 (W)	Ground	Security indicator lamp control	Output	Security indicator lamp	ON	0 - 0.5 V
					Blinking (Ignition switch OFF)	 <p>JPMIA0590GB 12.0 V</p>
					OFF	9 - 16 V

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< ECU DIAGNOSIS INFORMATION >

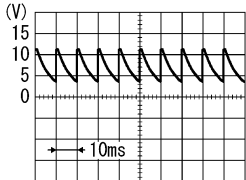
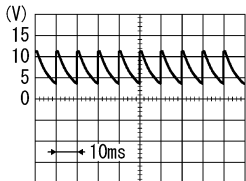
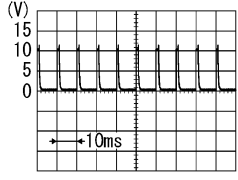
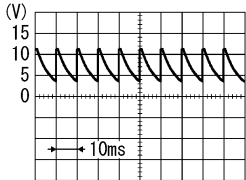
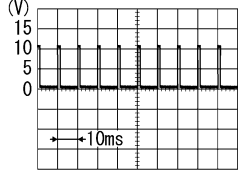
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
25 (P)	Ground	NATS antenna amp.	Input/ Output	During waiting	Brake pedal: Depressed NOTE: Waveform varies each time when brake pedal is depressed	 JMKIA6233JP
					Brake pedal: Not de- pressed	9 - 16 V
27 (O)	Ground	A/C ON (Automatic air conditioner)	Input	A/C	OFF (A/C switch indicator: OFF)	 PKIB4960J
					ON (A/C switch indicator: ON)	0 V
		A/C ON (Manual c air conditioner)	Ignition switch ON and blower fan switch other than OFF	A/C switch OFF	12 V	
				A/C switch ON	0 V	
28 (BR)	Ground	Blower fan ON (Au- tomatic air condition- er)	Input	Fan switch	OFF	12 V
					ON	0 V
		Blower fan ON (Manual air condi- tioner)	Fan switch	OFF	 PKIB4960J	
				Other than OFF	0 V	
29 (P)	Ground	Hazard switch	Input	Hazard switch	OFF	9 - 16 V
					ON	0 - 1.5 V
30 (L)	Ground	Back door opener switch	Input	Back door opener switch	Pressed	0 V
					Not pressed	 JPMIA0012GB
						1.0 - 1.5 V

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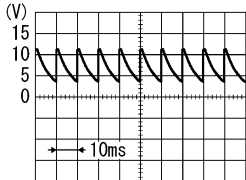
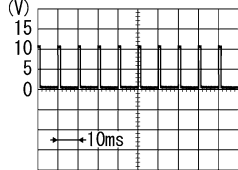
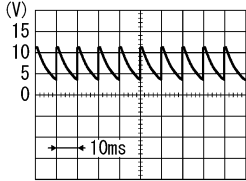
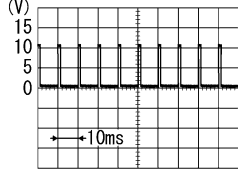
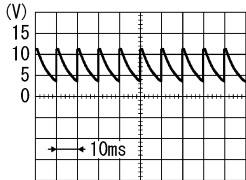
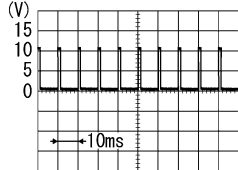
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< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
31 (G)	Ground	Front door lock as- sembly driver side (Unlock sensor)	Input	Driver door	LOCK status (Unlock sen- sor switch OFF)	 PKIB4960J 7.0 - 8.0 V
					UNLOCK status (Unlock sensor switch ON)	0 V
32 (R)	Ground	Combination switch OUTPUT 5	Output	Combination switch	All switches OFF (Wiper volume dial 4)	 PKIB4960J 7.0 - 8.0 V
					Front fog lamp switch ON (Wiper volume dial 4)	 PKIB4956J 1.0 V
					Rear wiper switch ON (Wiper volume dial 4)	
					Any of the condition below with all switches OFF <ul style="list-style-type: none"> • Wiper volume dial 1 • Wiper volume dial 2 • Wiper volume dial 6 • Wiper volume dial 7 	
33 (W)	Ground	Combination switch OUTPUT 4	Output	Combination switch	All switches OFF (Wiper volume dial 4)	 PKIB4960J 7.0 - 8.0 V
					Lighting switch 1ST (Wiper volume dial 4)	 PKIB4958J 1.2 V
					Lighting switch AUTO (Wiper volume dial 4)	
					Rear wiper switch INT (Wiper volume dial 4)	
					Any of the condition below with all switches OFF <ul style="list-style-type: none"> • Wiper volume dial 1 • Wiper volume dial 5 • Wiper volume dial 6 	

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< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
34 (P)	Ground	Combination switch OUTPUT 3	Output	Combination switch	All switches OFF (Wiper volume dial 4)	 <p>PKIB4960J</p> <p>7.0 - 8.0 V</p>
					Lighting switch 2ND (Wiper volume dial 4)	 <p>PKIB4958J</p> <p>1.2 V</p>
					Lighting switch HI (Wiper volume dial 4)	
					Rear washer switch ON (Wiper volume dial 4)	
					Any of the condition below with all switches OFF <ul style="list-style-type: none"> Wiper volume dial 1 Wiper volume dial 2 Wiper volume dial 3 	
35 (GR)	Ground	Combination switch OUTPUT 2	Output	Combination switch (Wiper volume dial 4)	All switches OFF	 <p>PKIB4960J</p> <p>7.0 - 8.0 V</p>
					Lighting switch 2ND	 <p>PKIB4958J</p> <p>1.2 V</p>
					Lighting switch PASS	
					Front wiper switch INT	
					Front wiper switch HI	
36 (R)	Ground	Combination switch OUTPUT 1	Output	Combination switch (Wiper volume dial 4)	All switches OFF	 <p>PKIB4960J</p> <p>7.0 - 8.0 V</p>
					Turn signal switch RH	 <p>PKIB4958J</p> <p>1.2 V</p>
					Turn signal switch LH	
					Front wiper switch LO	
					Front wiper switch MIST	
					Front washer switch ON	

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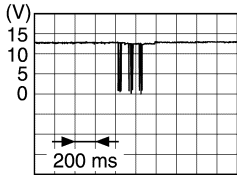
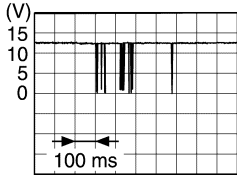
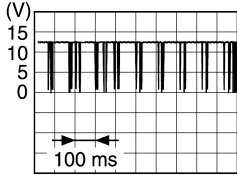
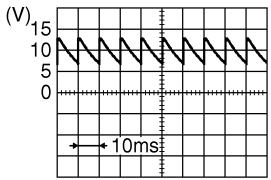
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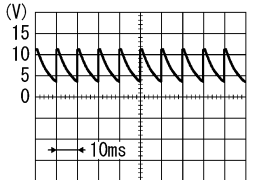
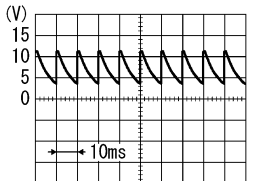
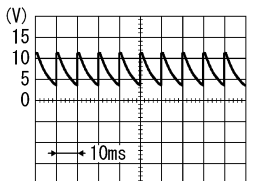
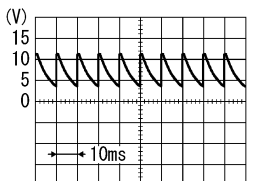
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< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
37 (G)	Ground	Detention switch	Input	Selector lever	P position (Release selector button)	0 – 1.5 V
					P position (Push selector button)	6 – 16 V
					Any position other than P	
38 (BE)	Ground	Receiver communication	Input/ Output	Ignition switch OFF (Remote keyless entry communication)	Waiting	12 V
					When operating either button on Intelligent Key	 JMMIA0572GB
				Ignition switch ON (TPMS communication)	Waiting	 JMMIA0573GB
					When receiving signal from tire pressure sensor	 JMMIA0574GB
39 (L)	Ground	CAN-H	Input/ Output	—		—
40 (P)	Ground	CAN-L	Input/ Output	—		—
43 (P)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	 JPMIA0593GB 9.0 - 10.0 V
					ON (When back door opened)	0 V
44 (GR)	Ground	Rear wiper stop position	Input	Ignition switch ON	Rear wiper stop position	12 V
					Any position other than rear wiper stop position	0 V

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< ECU DIAGNOSIS INFORMATION >

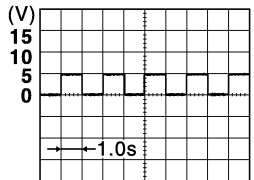
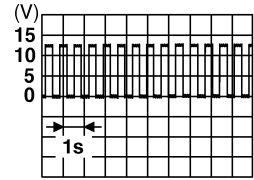
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
45 (W)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	 7.0 - 8.0 V
					ON (When passenger door opened)	0 V
46 (R)	Ground	Sliding door RH switch	Input	Sliding door RH switch	OFF (When sliding door RH closed)	 7.0 - 8.0 V
					ON (When sliding door RH opened)	0 V
47 (G)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	 7.0 - 8.0 V
					ON (When driver door opened)	0 V
48 (BE)	Ground	Sliding door LH switch	Input	Sliding door LH switch	OFF (When sliding door LH closed)	 7.0 - 8.0 V
					ON (When sliding door LH opened)	0 V
49 (B)	Ground	Luggage room lamp control	Output	Luggage room lamp	OFF	9 - 16 V
					ON	0 - 1.0 V
50*2 (V)	Ground	Selective unlock relay control (Sliding door LH UNLOCK control)	Input	Sliding door LH	UNLOCK (Actuator is activated)	0 - 0.6 V
					Other than UNLOCK (Actuator is not activated)	9 - 16 V
51 (G)	Ground	Back door request switch	Input	Back door request switch	ON (Pressed)	0 - 1.5 V
					OFF (Not pressed)	9 - 16 V

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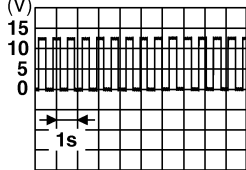
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< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
53*4 (BR)	Ground	Back door open request	Output	Back door opener switch	OFF (Actuator is not activated)	9 – 16 V
					ON (Actuator is activated)	0 – 1.5 V (Approx. 500m seconds)
54 (R)	Ground	Rear wiper	Output	Rear wiper	OFF (Stopped)	0 V
					ON (Activated)	9 – 16 V
55 (G)	Ground	Sliding door RH UNLOCK (with automatic sliding door system)	Output	Sliding door RH	UNLOCK (Actuator is activated)	9 – 16 V
					Other than UNLOCK (Actuator is not activated)	0 V
		Sliding door UNLOCK (without automatic sliding door system)	Output	Sliding door	UNLOCK (Actuator is activated)	9 – 16 V
					Other than UNLOCK (Actuator is not activated)	0 V
56 (P)	Ground	Interior room lamp power supply	Output	Interior room lamp battery saver is activated. (Cuts the interior room lamp power supply)		0 V
				Interior room lamp battery saver is not activated. (Outputs the interior room lamp power supply)		9 – 16 V
57 (Y)	Ground	Battery power supply	Input	Ignition switch OFF		9 – 16 V
58 (O)	Ground	Air bag signal	Input	Ignition switch	OFF	5 V
					ON	 <p>JPMIA1034GB</p> <p>2.5 V</p>
59 (SB)	Ground	Passenger door UNLOCK	Output	Passenger door	UNLOCK (Actuator is activated)	9 – 16 V
					Other than UNLOCK (Actuator is not activated)	0 V
60 (V)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 <p>PKIC6370E</p> <p>6.5 V (Turn signal lamp turn on: 9 - 16 V)</p>

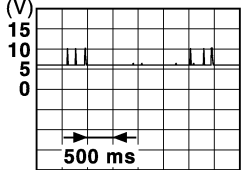
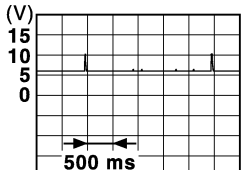
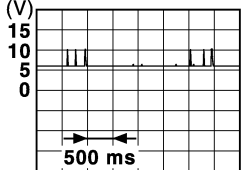
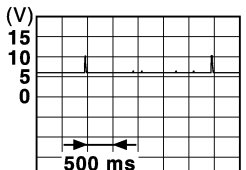
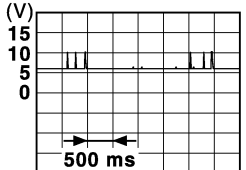
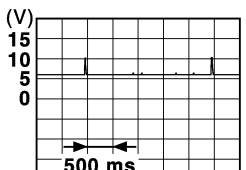
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< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)	
+	-	Signal name	Input/ Output				
61 (G)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch OFF	0 V	A
					Turn signal switch RH	 6.5 V (Turn signal lamp turn on: 9 - 16 V)	B C D E
62 (W)	Ground	Step lamp	Output	Step lamp	ON	0 - 1.0 V	F
					OFF	9 - 16 V	G
63 (R)	Ground	Interior room lamp control	Output	Interior room lamp	OFF	9 - 16 V	H
					ON	0 - 1.0 V	I
64 (W)	Ground	Cranking request	input	Ignition switch ON	Engine stopped (Selector lever is in P position)	0 - 1.0 V	J
					Engine stopped (Selector lever is not in P position)	9 - 16 V	K
					Engine running	9 - 16 V	L
65 (V)	Ground	All doors LOCK	Output	All doors	LOCK (Actuator is activated)	9 - 16 V	BCS
					Other than LOCK (Actuator is not activated)	0 V	
66 (G)	Ground	Driver door UN-LOCK	Output	Driver door, fuel lid	UNLOCK (Actuator is activated)	9 - 16 V	N
					Other than UNLOCK (Actuator is not activated)	0 V	
67 (B)	Ground	Ground	Output	Ignition switch ON		0 V	O
68 (L)	Ground	P/W power supply (IGN)	Output	Ignition switch OFF		0 V	
				Ignition switch ON		9 - 16 V	P
69 (P)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		9 - 16 V	
70 (L)	Ground	Battery power supply	Input	Ignition switch OFF		9 - 16 V	
73 (G)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	9 - 16 V	
					ON	0 - 1.5 V	
75 (G)	Ground	Driver door request switch	Input	Driver door request switch	ON (Pressed)	0 - 1.5 V	
					OFF (Not pressed)	9 - 16 V	
76 (V)	Ground	Push-button ignition switch (push switch)	Input	Push-button ignition switch (push switch)	Pressed	0 - 1.5 V	
					Not pressed	9 - 16 V	

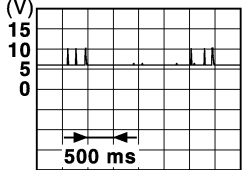
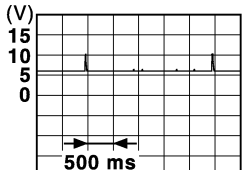
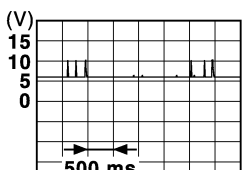
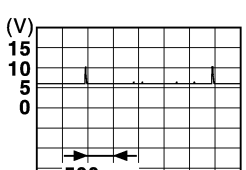
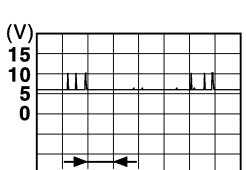
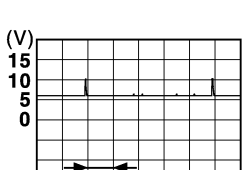
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< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
78 (B)	Ground	Driver door antenna (+)	Output	When the driver door request switch is operat- ed with ignition switch ON	When Intelligent Key is not in the antenna detec- tion area (The distance between In- telligent Key and antenna: Approx. 2 m)	 JMkia5954GB
				When the driver door request switch is operat- ed with ignition switch ON	When Intelligent Key is in the antenna detection area (The distance between In- telligent Key and antenna: 80 cm or less)	 JMkia5955GB
79 (W)	Ground	Driver door antenna (-)	Output	When the driver door request switch is operat- ed with ignition switch ON	When Intelligent Key is not in the antenna detec- tion area (The distance between In- telligent Key and antenna: Approx. 2 m)	 JMkia5954GB
				When the driver door request switch is operat- ed with ignition switch ON	When Intelligent Key is in the antenna detection area (The distance between In- telligent Key and antenna: 80 cm or less)	 JMkia5955GB
80 (GR)	Ground	Passenger door an- tenna (+)	Output	When the pas- senger door re- quest switch is operated with ignition switch ON	When Intelligent Key is not in the antenna detec- tion area (The distance between In- telligent Key and antenna: Approx. 2 m)	 JMkia5954GB
				When the pas- senger door re- quest switch is operated with ignition switch ON	When Intelligent Key is in the antenna detection area (The distance between In- telligent Key and antenna: 80 cm or less)	 JMkia5955GB

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< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
81 (BE)	Ground	Passenger door antenna (-)	Output	When the passenger door request switch is operated with ignition switch ON	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	 JMkia5954GB
				When the passenger door request switch is operated with ignition switch ON	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	 JMkia5955GB
82 (G)	Ground	Rear bumper antenna (+)	Output	When the back door request switch is operated with ignition switch ON	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	 JMkia5954GB
				When the back door request switch is operated with ignition switch ON	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	 JMkia5955GB
83 (R)	Ground	Rear bumper antenna (-)	Output	When the back door request switch is operated with ignition switch ON	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	 JMkia5954GB
				When the back door request switch is operated with ignition switch ON	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	 JMkia5955GB

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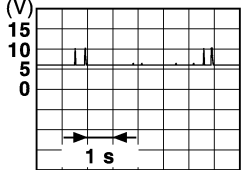
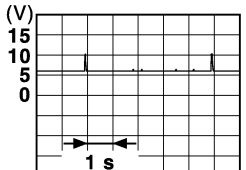
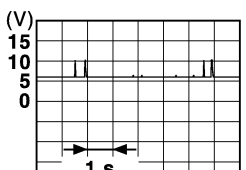
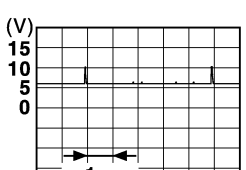
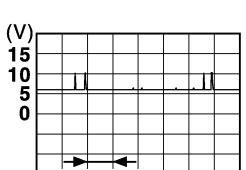
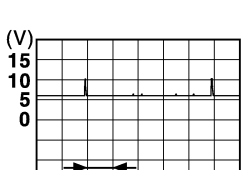
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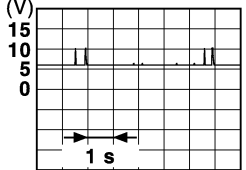
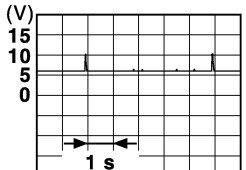
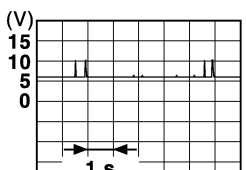
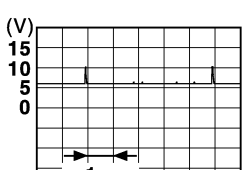
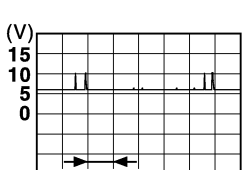
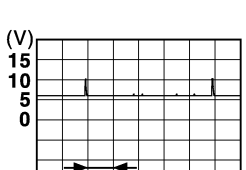
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< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
84 (GR)	Ground	Room antenna 1 (+) (Instrument center)	Output	Ignition switch ON	When Intelligent Key is not in the antenna detec- tion area	 JMkia5951GB
					When Intelligent Key is in the antenna detection area	 JMkia3839GB
85 (B)	Ground	Room antenna 1 (-) (Instrument center)	Output	Ignition switch ON	When Intelligent Key is not in the antenna detec- tion area	 JMkia5951GB
					When Intelligent Key is in the antenna detection area	 JMkia3839GB
86 (W)	Ground	Room antenna 2 (+) (Console)	Output	Ignition switch ON	When Intelligent Key is not in the antenna detec- tion area	 JMkia5951GB
					When Intelligent Key is in the antenna detection area	 JMkia3839GB

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< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)	
+	-	Signal name	Input/ Output				
87 (BE)	Ground	Room antenna 2 (-) (Console)	Output	Ignition switch ON	When Intelligent Key is not in the antenna detec- tion area	 JMKIA5951GB	A
					When Intelligent Key is in the antenna detection area	 JMKIA3839GB	B
88 (GR)	Ground	Luggage room an- tenna (+)	Output	Ignition switch ON	When Intelligent Key is not in the antenna detec- tion area	 JMKIA5951GB	C
					When Intelligent Key is in the antenna detection area	 JMKIA3839GB	D
89 (B)	Ground	Luggage room an- tenna (-)	Output	Ignition switch ON	When Intelligent Key is not in the antenna detec- tion area	 JMKIA5951GB	E
					When Intelligent Key is in the antenna detection area	 JMKIA3839GB	F

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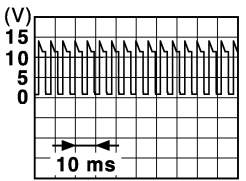
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< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
90 (P)	Ground	Push-button ignition switch illumination	Output	Push-button ig- nition switch illu- mination	ON	9 – 16 V
					OFF	0 – 1.5 V
91 (W)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF (Ignition switch OFF)	9 – 16 V
					ON	0 – 1.5 V
92 (B)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	OFF	0 V
					ON	<p>NOTE: When the illumination brighten- ing/dimming level is in the neutral position</p>  <p>6.0 – 7.0 V</p>
93 (R)	Ground	Intelligent Key warn- ing buzzer	Output	Intelligent Key warning buzzer	Sounding	0 – 1.5 V
					Not sounding	9 – 16 V
96 (BE)	Ground	ACC relay control	Output	Ignition switch	OFF	0 – 0.5 V
					ACC or ON	9 – 16 V
97 (W)	Ground	Starter relay control	Output	Ignition switch ON	Other than engine crank- ing	9 – 16 V
					Engine cranking	0 – 0.5 V
98 (P)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC	9 – 16 V
					ON	0 – 0.5 V
99 (G)	Ground	Ignition relay control	Output	Ignition switch	OFF or ACC	0 – 0.5 V
					ON	9 – 16 V
100 (R)	Ground	Passenger door re- quest switch	Input	Passenger door request switch	ON (Pressed)	0 – 1.5 V
					OFF (Not pressed)	9 – 16 V
101 (R)	Ground	Ignition power sup- ply No. 2	Output	Ignition switch	OFF or ACC	0 V
					ON	9 – 16 V
102 (P)	Ground	P/N position	Input	Selector lever	P or N position	9 – 16 V
					Except P and N positions	0 – 1.5 V
104 (L)	Ground	CVT shift selector (detention switch) power supply	Output	Ignition switch ON		9 – 16 V
105 (R)	Ground	Stop lamp switch 2	Input	Ignition switch OFF		9 – 16 V
106 (O)	Ground	Blower fan motor re- lay control	Output	Ignition switch	OFF or ACC	0 – 0.5 V
					ON	9 – 16 V
109 (R)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	9 – 16 V
					ACC	0 – 1.5 V

- *1: Without automatic sliding door system
- *2: With automatic sliding door system
- *3: With rear entertainment
- *4: Without automatic back door system

Fail-safe

INFOID:0000000012407017

FAIL-SAFE CONTROL BY DTC

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

Display contents of CONSULT	Fail-safe	Cancellation
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2196: DONGLE NG	Inhibit engine cranking	Erase DTC
B2198: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent <ul style="list-style-type: none"> • Starter motor relay control signal • Starter relay status signal (CAN)
B260F: ENG STATE SIG LOST	Inhibit engine cranking	When any of the following conditions are fulfilled <ul style="list-style-type: none"> • Ignition switch changes to ACC • Receives engine status signal (CAN)
B26F1: IGN RELAY OFF	Inhibit engine cranking	When the following conditions are fulfilled <ul style="list-style-type: none"> • Ignition switch ON signal (CAN: Transmitted from BCM): ON • Ignition switch ON signal (CAN: Transmitted from IPDM E/R): ON
B26F2: IGN RELAY ON	Inhibit engine cranking	When the following conditions are fulfilled <ul style="list-style-type: none"> • Ignition switch ON signal (CAN: Transmitted from BCM): OFF • Ignition switch ON signal (CAN: Transmitted from IPDM E/R): OFF
B26F3: START CONT RLY ON	Inhibit engine cranking	When the following conditions are fulfilled <ul style="list-style-type: none"> • Starter control relay signal (CAN: Transmitted from BCM): OFF • Starter control relay signal (CAN: Transmitted from IPDM E/R): OFF
B26F4: START CONT RLY OFF	Inhibit engine cranking	When the following conditions are fulfilled <ul style="list-style-type: none"> • Starter control relay signal (CAN: Transmitted from BCM): ON • Starter control relay signal (CAN: Transmitted from IPDM E/R): ON
B26F7: BCM	Inhibit engine cranking by Intelligent Key system	When room antenna and luggage room antenna functions normally

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper stop position signal. When the rear wiper stop position signal does not change for more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation

1. More than 1 minute is passed after the rear wiper stop.
2. Turn rear wiper switch OFF.
3. Operate the rear wiper switch or rear washer switch.

FAIL-SAFE CONTROL OF COMBINATION SWITCH READING FUNCTION CAUSED BY LOW POWER SUPPLY VOLTAGE

If voltage of battery power supply lower, BCM maintains combination switch reading to the status when input voltage is less than approximately 9 V.

NOTE:

When voltage of battery power supply is approximately 9 V or more, combination switch reading function returns to normal operation.

DTC Inspection Priority Chart

INFOID:0000000012407018

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

BCM

< ECU DIAGNOSIS INFORMATION >

Priority	DTC
1	B2562: LOW VOLTAGE
2	<ul style="list-style-type: none"> U1000: CAN COMM U1010: CONTROL UNIT (CAN)
3	<ul style="list-style-type: none"> B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI-SCANNING B2196: DONGLE NG B2198: NATS ANTENNA AMP
4	<ul style="list-style-type: none"> B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP/CLUTCH SW B2605: PNP/CLUTCH SW B2608: STARTER RELAY B260F: ENG STATE SIG LOST B2614: BCM B2615: BCM B2616: BCM B2618: BCM B261A: PUSH-BTN IGN SW B26F1: IGN RELAY OFF B26F2: IGN RELAY ON B26F3: START CONT RLY ON B26F4: START CONT RLY OFF B26F6: BCM B26F7: BCM B26F8: BCM B26F9: CRANK REQ CIR SHORT B26FA: CRANK REQ CIR OPEN B26FC: KEY REGISTRATION C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED
5	<ul style="list-style-type: none"> 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
5	<ul style="list-style-type: none"> B2621: INSIDE ANTENNA B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA
6	<ul style="list-style-type: none"> B2626: OUTSIDE ANTENNA B2627: OUTSIDE ANTENNA B2628: OUTSIDE ANTENNA

DTC Index

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NOTE:

The details of time display are as follows.

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

BCM

< ECU DIAGNOSIS INFORMATION >

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to [BCS-17. "COMMON ITEM : CONSULT Function \(BCM - COMMON ITEM\)"](#).

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	Reference page
No DTC is detected. further testing may be required.	—	—	—	—	—
U1000: CAN COMM	—	—	—	—	BCS-88
U1010: CONTROL UNIT (CAN)	—	—	—	—	BCS-89
U0415: VEHICLE SPEED	—	—	x	—	BCS-90
B2192: ID DISCORD BCM-ECM	x	—	—	—	SEC-65
B2193: CHAIN OF BCM-ECM	x	—	—	—	SEC-66
B2195: ANTI-SCANNING	x	—	—	—	SEC-67
B2196: DONGLE NG	x	—	—	—	SEC-68
B2198: NATS ANTENNA AMP	x	—	—	—	SEC-70
B2555: STOP LAMP	—	x	x	—	SEC-73
B2556: PUSH-BTN IGN SW	—	x	x	—	SEC-76
B2557: VEHICLE SPEED	—	x	x	—	SEC-78
B2562: LOW VOLTAGE	—	x	—	—	BCS-91
B2601: SHIFT POSITION	—	x	x	—	SEC-79
B2602: SHIFT POSITION	—	x	x	—	SEC-81
B2603: SHIFT POSI STATUS	—	x	x	—	SEC-84
B2604: PNP/CLUTCH SW	—	x	x	—	SEC-89
B2605: PNP/CLUTCH SW	—	x	x	—	SEC-92
B2608: STARTER RELAY	x	x	x	—	SEC-95
B260F: ENG STATE SIG LOST	x	x	x	—	SEC-97
B2614: BCM	—	x	x	—	PCS-58
B2615: BCM	—	x	x	—	PCS-60
B2616: BCM	—	x	x	—	PCS-62
B2618: BCM	—	x	x	—	PCS-64
B261A: PUSH-BTN IGN SW	—	x	x	—	PCS-66
B2621: INSIDE ANTENNA	—	x	—	—	DLK-232
B2622: INSIDE ANTENNA	—	x	—	—	DLK-234
B2623: INSIDE ANTENNA	—	x	—	—	DLK-236
B2626: OUTSIDE ANTENNA	—	x	—	—	DLK-240
B2627: OUTSIDE ANTENNA	—	x	—	—	DLK-238
B2628: OUTSIDE ANTENNA	—	x	—	—	DLK-242
B26F1: IGN RELAY OFF	x	x	x	—	PCS-68
B26F2: IGN RELAY ON	x	x	x	—	PCS-69
B26F3: START CONT RLY ON	x	x	x	—	SEC-100
B26F4: START CONT RLY OFF	x	x	x	—	SEC-101
B26F6: BCM	—	x	x	—	PCS-71
B26F7: BCM	x	x	x	—	SEC-102

BCM

< ECU DIAGNOSIS INFORMATION >

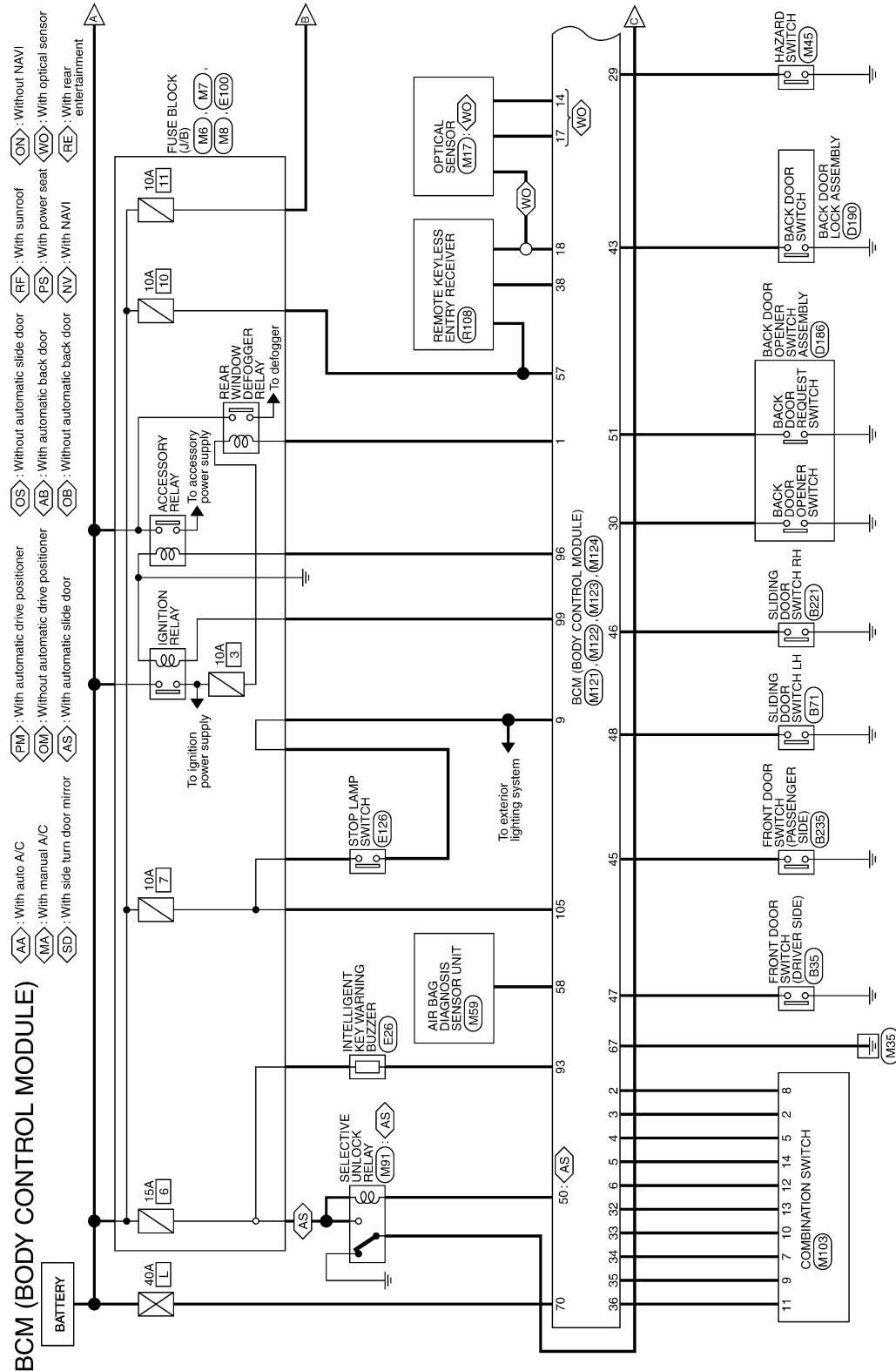
CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B26F8: BCM	—	×	×	—	SEC-103
B26F9: CRANK REQ CIR SHORT	—	×	×	—	SEC-104
B26FA: CRANK REQ CIR OPEN	—	×	×	—	SEC-106
B26FC: KEY REGISTRATION	—	×	×	—	SEC-108
C1704: LOW PRESSURE FL	—	—	—	×	WT-26
C1705: LOW PRESSURE FR	—	—	—	×	
C1706: LOW PRESSURE RR	—	—	—	×	
C1707: LOW PRESSURE RL	—	—	—	×	
C1708: [NO DATA] FL	—	—	—	×	WT-28
C1709: [NO DATA] FR	—	—	—	×	
C1710: [NO DATA] RR	—	—	—	×	
C1711: [NO DATA] RL	—	—	—	×	
C1716: [PRESSDATA ERR] FL	—	—	—	×	WT-30
C1717: [PRESSDATA ERR] FR	—	—	—	×	
C1718: [PRESSDATA ERR] RR	—	—	—	×	
C1719: [PRESSDATA ERR] RL	—	—	—	×	
C1729: VHCL SPEED SIG ERR	—	—	—	×	WT-32

WIRING DIAGRAM

BCM

Wiring Diagram

INFOID:0000000012407020



*: This connector is not shown in "Harness Layout".

2015/09/04

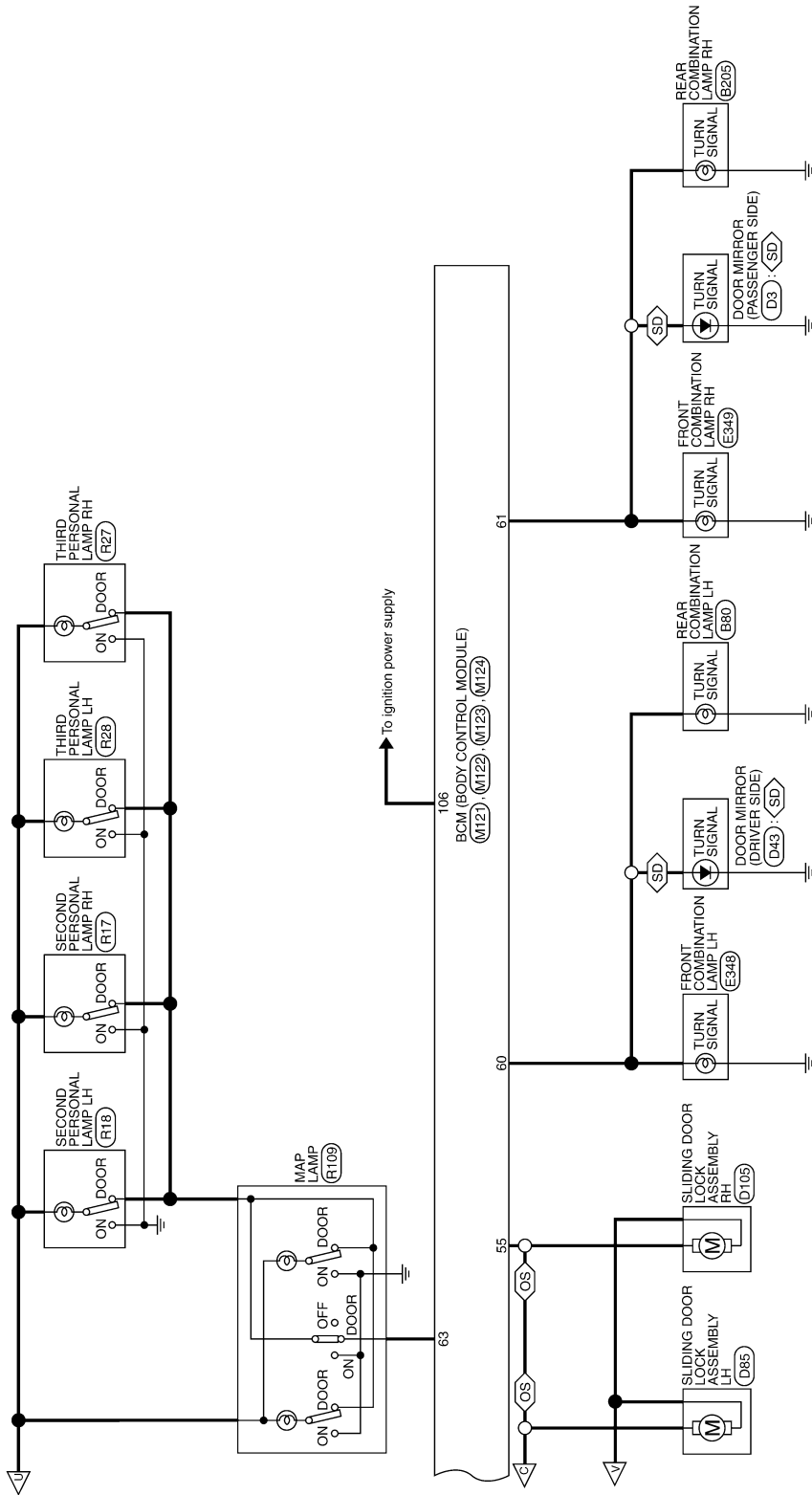
JRMW17229GB

A
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BCS

< WIRING DIAGRAM >





JRMW17233GB

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BCS
N
O
P

BCM (BODY CONTROL MODULE)

Connector No.	B335
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	Y
Signal Name [Specification]	-

Connector No.	B371
Connector Name	SLIDING DOOR SWITCH LH
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	GR
Signal Name [Specification]	-

Connector No.	B80
Connector Name	REAR COMBINATION LAMP LH
Connector Type	FS04FGY-PR

Terminal No.	3
Color Of Wire	GR
Signal Name [Specification]	-

Connector No.	B51
Connector Name	LUGGAGE ROOM LAMP
Connector Type	TH03FW

Terminal No.	3
Color Of Wire	Y
Signal Name [Specification]	-

Connector No.	B205
Connector Name	REAR COMBINATION LAMP RH
Connector Type	FS04FGY-PR

Terminal No.	1	
Color Of Wire	R	
Signal Name [Specification]	-	
2	W	-
3	B	-
4	V	-

Connector No.	B221
Connector Name	SLIDING DOOR SWITCH RH
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	V
Signal Name [Specification]	-

Connector No.	B241
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	PROZFL

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B335
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B205
Connector Name	REAR COMBINATION LAMP RH
Connector Type	FS04FGY-PR

Terminal No.	1	
Color Of Wire	R	
Signal Name [Specification]	-	
2	W	-
3	B	-
4	V	-

Connector No.	B221
Connector Name	SLIDING DOOR SWITCH RH
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	V
Signal Name [Specification]	-

Connector No.	B241
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	PROZFL

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B335
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	Y
Signal Name [Specification]	-

Connector No.	B371
Connector Name	SLIDING DOOR SWITCH LH
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	GR
Signal Name [Specification]	-

Connector No.	B80
Connector Name	REAR COMBINATION LAMP LH
Connector Type	FS04FGY-PR

Terminal No.	3
Color Of Wire	GR
Signal Name [Specification]	-

Connector No.	B51
Connector Name	LUGGAGE ROOM LAMP
Connector Type	TH03FW

Terminal No.	3
Color Of Wire	Y
Signal Name [Specification]	-

Connector No.	B205
Connector Name	REAR COMBINATION LAMP RH
Connector Type	FS04FGY-PR

Terminal No.	1	
Color Of Wire	R	
Signal Name [Specification]	-	
2	W	-
3	B	-
4	V	-

Connector No.	B221
Connector Name	SLIDING DOOR SWITCH RH
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	V
Signal Name [Specification]	-

Connector No.	B241
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	PROZFL

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B335
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B205
Connector Name	REAR COMBINATION LAMP RH
Connector Type	FS04FGY-PR

Terminal No.	1	
Color Of Wire	R	
Signal Name [Specification]	-	
2	W	-
3	B	-
4	V	-

Connector No.	B221
Connector Name	SLIDING DOOR SWITCH RH
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	V
Signal Name [Specification]	-

Connector No.	B241
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	PROZFL

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B335
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	Y
Signal Name [Specification]	-

Connector No.	B371
Connector Name	SLIDING DOOR SWITCH LH
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	GR
Signal Name [Specification]	-

Connector No.	B80
Connector Name	REAR COMBINATION LAMP LH
Connector Type	FS04FGY-PR

Terminal No.	3
Color Of Wire	GR
Signal Name [Specification]	-

Connector No.	B51
Connector Name	LUGGAGE ROOM LAMP
Connector Type	TH03FW

Terminal No.	3
Color Of Wire	Y
Signal Name [Specification]	-

Connector No.	B205
Connector Name	REAR COMBINATION LAMP RH
Connector Type	FS04FGY-PR

Terminal No.	1	
Color Of Wire	R	
Signal Name [Specification]	-	
2	W	-
3	B	-
4	V	-

Connector No.	B221
Connector Name	SLIDING DOOR SWITCH RH
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	V
Signal Name [Specification]	-

Connector No.	B241
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	PROZFL

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B335
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B205
Connector Name	REAR COMBINATION LAMP RH
Connector Type	FS04FGY-PR

Terminal No.	1	
Color Of Wire	R	
Signal Name [Specification]	-	
2	W	-
3	B	-
4	V	-

Connector No.	B221
Connector Name	SLIDING DOOR SWITCH RH
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	V
Signal Name [Specification]	-

Connector No.	B241
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	PROZFL

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B335
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B205
Connector Name	REAR COMBINATION LAMP RH
Connector Type	FS04FGY-PR

Terminal No.	1	
Color Of Wire	R	
Signal Name [Specification]	-	
2	W	-
3	B	-
4	V	-

Connector No.	B221
Connector Name	SLIDING DOOR SWITCH RH
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	V
Signal Name [Specification]	-

Connector No.	B241
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	PROZFL

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B335
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B205
Connector Name	REAR COMBINATION LAMP RH
Connector Type	FS04FGY-PR

Terminal No.	1	
Color Of Wire	R	
Signal Name [Specification]	-	
2	W	-
3	B	-
4	V	-

Connector No.	B221
Connector Name	SLIDING DOOR SWITCH RH
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	V
Signal Name [Specification]	-

Connector No.	B241
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	PROZFL

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B335
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B205
Connector Name	REAR COMBINATION LAMP RH
Connector Type	FS04FGY-PR

Terminal No.	1	
Color Of Wire	R	
Signal Name [Specification]	-	
2	W	-
3	B	-
4	V	-

Connector No.	B221
Connector Name	SLIDING DOOR SWITCH RH
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	V
Signal Name [Specification]	-

Connector No.	B241
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	PROZFL

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B335
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B205
Connector Name	REAR COMBINATION LAMP RH
Connector Type	FS04FGY-PR

Terminal No.	1	
Color Of Wire	R	
Signal Name [Specification]	-	
2	W	-
3	B	-
4	V	-

Connector No.	B221
Connector Name	SLIDING DOOR SWITCH RH
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	V
Signal Name [Specification]	-

Connector No.	B241
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	PROZFL

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B335
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B205
Connector Name	REAR COMBINATION LAMP RH
Connector Type	FS04FGY-PR

Terminal No.	1	
Color Of Wire	R	
Signal Name [Specification]	-	
2	W	-
3	B	-
4	V	-

Connector No.	B221
Connector Name	SLIDING DOOR SWITCH RH
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	V
Signal Name [Specification]	-

Connector No.	B241
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	PROZFL

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B335
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B205
Connector Name	REAR COMBINATION LAMP RH
Connector Type	FS04FGY-PR

Terminal No.	1	
Color Of Wire	R	
Signal Name [Specification]	-	
2	W	-
3	B	-
4	V	-

Connector No.	B221
Connector Name	SLIDING DOOR SWITCH RH
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	V
Signal Name [Specification]	-

Connector No.	B241
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	PROZFL

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B335
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B205
Connector Name	REAR COMBINATION LAMP RH
Connector Type	FS04FGY-PR

Terminal No.	1	
Color Of Wire	R	
Signal Name [Specification]	-	
2	W	-
3	B	-
4	V	-

Connector No.	B221
Connector Name	SLIDING DOOR SWITCH RH
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	V
Signal Name [Specification]	-

Connector No.	B241
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	PROZFL

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B335
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B205
Connector Name	REAR COMBINATION LAMP RH
Connector Type	FS04FGY-PR

Terminal No.	1	
Color Of Wire	R	
Signal Name [Specification]	-	
2	W	-
3	B	-
4	V	-

Connector No.	B221
Connector Name	SLIDING DOOR SWITCH RH
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	V
Signal Name [Specification]	-

Connector No.	B241
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	PROZFL

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B335
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B205
Connector Name	REAR COMBINATION LAMP RH
Connector Type	FS04FGY-PR

Terminal No.	1	
Color Of Wire	R	
Signal Name [Specification]	-	
2	W	-
3	B	-
4	V	-

Connector No.	B221
Connector Name	SLIDING DOOR SWITCH RH
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	V
Signal Name [Specification]	-

Connector No.	B241
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	PROZFL

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B335
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B205
Connector Name	REAR COMBINATION LAMP RH
Connector Type	FS04FGY-PR

Terminal No.	1	
Color Of Wire	R	
Signal Name [Specification]	-	
2	W	-
3	B	-
4	V	-

Connector No.	B221
Connector Name	SLIDING DOOR SWITCH RH
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	V
Signal Name [Specification]	-

Connector No.	B241
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	PROZFL

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B335
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B205
Connector Name	REAR COMBINATION LAMP RH
Connector Type	FS04FGY-PR

Terminal No.	1	
Color Of Wire	R	
Signal Name [Specification]	-	
2	W	-
3	B	-
4	V	-

Connector No.	B221
Connector Name	SLIDING DOOR SWITCH RH
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	V
Signal Name [Specification]	-

Connector No.	B241
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	PROZFL

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B335
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B205
Connector Name	REAR COMBINATION LAMP RH
Connector Type	FS04FGY-PR

Terminal No.	1	
Color Of Wire	R	
Signal Name [Specification]	-	
2	W	-
3	B	-
4	V	-

Connector No.	B221
Connector Name	SLIDING DOOR SWITCH RH
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	V
Signal Name [Specification]	-

Connector No.	B241
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	PROZFL

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B335
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B205
Connector Name	REAR COMBINATION LAMP RH
Connector Type	FS04FGY-PR

Terminal No.	1	
Color Of Wire	R	
Signal Name [Specification]	-	
2	W	-
3	B	-
4	V	-

Connector No.	B221
Connector Name	SLIDING DOOR SWITCH RH
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	V
Signal Name [Specification]	-

Connector No.	B241
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	PROZFL

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B335
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B205
Connector Name	REAR COMBINATION LAMP RH
Connector Type	FS04FGY-PR

Terminal No.	1	
Color Of Wire	R	
Signal Name [Specification]	-	
2	W	-
3	B	-
4	V	-

Connector No.	B221
Connector Name	SLIDING DOOR SWITCH RH
Connector Type	TH04FW-NH

Terminal No.	3
Color Of Wire	V
Signal Name [Specification]	-

Connector No.	B241
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	PROZFL

Terminal No.	3
Color Of Wire	SB
Signal Name [Specification]	-

Connector No.	B335
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH

| Terminal No. | 3 |
| Color Of Wire |

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BCM (BODY CONTROL MODULE)

Connector No.	B242
Connector Name	INSIDE KEY ANTENNA (CONSOLE)
Connector Type	RK02FL



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	R	-

Connector No.	B303
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Type	RK02FL



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	W	-

Connector No.	B534
Connector Name	POWER SEAT SWITCH (PASSENGER SIDE)
Connector Type	NS10PW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
33	R	-
34	B	-
35	G	-
38	GR	-
39	Y	-
43	LG	-

Connector No.	B552
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	TH132FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R/Y	CAN-H
2	R	UART (TX/RX)
4	R/L	PULSE (RECLINER)
6	R/W	ADDRESS 2
7	R/G	IND-2
8	SB	SLIDE SW (BACKWARD)
9	L	RECLINER SW (BACKWARD)
10	L/B	FRONT LIFTER SW (DOWNWARD)
11	L/W	REAR LIFTER SW (DOWNWARD)
12	L/R	SENSOR POWER SUPPLY
17	V	CAN-L
18	B/W	PULSE (SLIDE)
19	B/R	PULSE (FRONT LIFTER)
20	B/L	PULSE (REAR LIFTER)

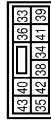
22	W/L	ADDRESS 1
23	W/R	IND-1
24	V/W	SLIDE SW (FORWARD)
25	R/B	RECLINER SW (FORWARD)
26	Y/R	FRONT LIFTER SW (UPWARD)
27	Y/L	REAR LIFTER SW (UPWARD)
28	G	SET SW

Connector No.	B557
Connector Name	LUMBAR SUPPORT SWITCH
Connector Type	NS04PW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
33	R	-
43	LG	-
45	P	-
46	BR	-

Connector No.	B564
Connector Name	POWER SEAT SWITCH (DRIVER SIDE)
Connector Type	NS10PW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
33	R	-
34	B	-
35	G	-
36	L	-
38	GR	-
39	Y	-
40	W	-

41	V	-
42	P/B	-
43	LG	-

Connector No.	D3
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH24MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
5	W	-
6	R	-
7	P	-
10	W	-
11	G	-
12	R	-
13	Y	-
17	SHIELD	-
18	B	-
19	B	-
20	LG	-
21	L	-
22	P	-
23	W	-
24	GR	-

BCM (BODY CONTROL MODULE)

Connector No.	D6
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS33FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	SLIDING DOOR POWER WINDOW MOTOR LH UP SIGNAL
2	P	ENCORDER GROUND
3	BR	SLIDING DOOR POWER WINDOW MOTOR LH DOWN SIGNAL
4	G	DOOR KEY CYLINDER SWITCH LOCK SIGNAL
5	SB	SLIDING DOOR POWER WINDOW MOTOR RH DOWN SIGNAL
6	GR	DOOR KEY CYLINDER SWITCH UNLOCK SIGNAL
7	V	SLIDING DOOR POWER WINDOW MOTOR RH UP SIGNAL
8	L	FRONT POWER WINDOW MOTOR (DRIVER SIDE) UP SIGNAL
9	W	ENCORDER SIGNAL 2
10	GR	RETAINED POWER SIGNAL
11	Y	FRONT POWER WINDOW MOTOR (DRIVER SIDE) DOWN SIGNAL
12	LG	-
13	GR	ENCORDER SIGNAL 1
14	R	POWER WINDOW SERIAL LINK
15	G	ENCORDER POWER SUPPLY
16	L	-

Connector No.	D6
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS33FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
17	B	GROUND
18	G	-
19	Y	BATTERY POWER SUPPLY

Connector No.	D9
Connector Name	FRONT DOOR LOCK ASSEMBLY (PASSENGER SIDE)
Connector Type	ED56C74-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
5	BR	-
6	LG	-

Connector No.	D17
Connector Name	STEP LAMP (PASSENGER SIDE)
Connector Type	T602FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	G	-

Connector No.	D31
Connector Name	FRONT DOOR OUTSIDE HANDLE ASSEMBLY RH
Connector Type	RH04MB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	G	-
3	R	-
4	B	-

Connector No.	D32
Connector Name	FRONT DOOR OUTSIDE HANDLE ASSEMBLY LH
Connector Type	RH04MB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	G	-
3	R	-
4	B	-

Connector No.	D43
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH24MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
5	W	-
6	R	-
7	P	-
10	G	-
11	GR	-
12	P	-
13	Y	-
17	SHIELD	-
18	B	-
19	B	-
20	LG	-
21	P	-
22	R	-
23	W	-
24	G	-

Connector No.	D48
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	ED56C74-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	LG	-
3	W	-
4	B	-

BCM (BODY CONTROL MODULE)

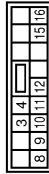
5	GR	G	-
6			

Connector No.	D51
Connector Name	STEP LAMP (DRIVER SIDE)
Connector Type	TK02FW



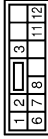
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	G	-

Connector No.	D55
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
3	GR	ENCORDER GROUND
4	G	ENCORDER POWER SUPPLY
8	L	FRONT POWER WINDOW MOTOR (PASSENGER SIDE) UP SIGNAL
9	LG	FRONT POWER WINDOW MOTOR (PASSENGER SIDE) DOWN SIGNAL
10	V	BATTERY POWER SUPPLY
11	B	GROUND
12	P	ENCORDER SIGNAL 1
15	R	ENCORDER SIGNAL 2
16	W	POWER WINDOW SERIAL LINK

Connector No.	D56
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS12FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	G	-
3	B	-
6	LG	-
7	L	-
8	V	-
11	LG	-
12	BR	-

Connector No.	D85
Connector Name	SLIDING DOOR LOCK ASSEMBLY LH
Connector Type	ISOV24GY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	L	-

Connector No.	D88
Connector Name	SLIDING DOOR POWER WINDOW SWITCH LH
Connector Type	NS08PW-CS



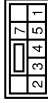
Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	SB	-
3	P	-
4	LG	-
5	L	-
7	B	-

Connector No.	D105
Connector Name	SLIDING DOOR LOCK ASSEMBLY RH
Connector Type	ISOV24GY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	L	-

Connector No.	D108
Connector Name	SLIDING DOOR POWER WINDOW SWITCH RH
Connector Type	NS08PW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	SB	-
3	P	-
4	LG	-
5	L	-
7	GR	-

Connector No.	D169
Connector Name	AUTOMATIC BACK DOOR CLOSE SWITCH
Connector Type	TY06GY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-
3	W	-
4	LG	-

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BCM (BODY CONTROL MODULE)

Connector No.	D181
Connector Name	BACK DOOR CONTROL UNIT
Connector Type	NS10PW-CS



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Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	CLOSE
2	G	HAF
3	LG	H-B
4	V	CLOSE
5	R	OPEN
6	P	OPEN SW
7	B	DR LOCK STATUS
8	GR	EARTH
10	BR	OPEN

Connector No.	D186
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TH08PW-AH



1	2	3	4
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Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	B	-
3	B	-
4	W	-

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS08PW-CS



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Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	V	-
4	R	-
5	W	-
6	G	-
7	P	-
8	B	-

Connector No.	D193
Connector Name	REAR WIPER MOTOR
Connector Type	CU4FW-1V



1	3	4
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Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
3	B	-
4	GR	-

Connector No.	E10
Connector Name	PSM L&E INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH030PW-CS12-M4-1V



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1000	1001	1002



42	41	40	39
46	45	44	43

Connector No.	E11
Connector Name	PSM L&E INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH08PW-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
39	P	-
40	L	-
41	B	-
42	SB	-
43	LG	-

BCM (BODY CONTROL MODULE)

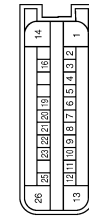
Terminal No.	Color Of Wire	Signal Name [Specification]
143	O	ACCELERATOR PEDAL POSITION SENSOR 2
144	G	SENSOR GROUND
145	P	POWER SUPPLY FOR ECM
146	B	SENSOR VALVE BATTERY
147	B	ECM GROUND
148	V	SENSOR GROUND
149	B	ECM GROUND
150	W	ACCELERATOR PEDAL POSITION SENSOR 1
151	B	SENSOR GROUND
152	B	ECM GROUND

Connector No.	Color Of Wire	Signal Name [Specification]
E26		
Connector Name		INTELLIGENT KEY WARNING BUZZER
Connector Type		RK03FBR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	
2	G	
3	GR	

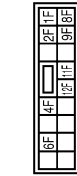
Connector No.	Color Of Wire	Signal Name [Specification]
E36		
Connector Name		ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type		AE22T2B-A024-LH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	VALVE BATTERY
2	Y	RR LH WHEEL SENSOR SIGNAL
3	L	RR LH WHEEL SENSOR POWER SUPPLY
4	G	G-SENSOR POWER SUPPLY
5	B	FR RH WHEEL SENSOR POWER SUPPLY
6	W	FR RH WHEEL SENSOR SIGNAL

Terminal No.	Color Of Wire	Signal Name [Specification]
7	V	BRAKE FLUID LEVEL SWITCH SIGNAL
8	LG	FR LH WHEEL SENSOR SIGNAL
9	L	FR LH WHEEL SENSOR POWER SUPPLY
10	B	FR LH WHEEL SENSOR SIGNAL
11	V	RR RH WHEEL SENSOR POWER SUPPLY
12	P	RR RH WHEEL SENSOR SIGNAL
13	B	GROUND
14	G	MOTOR BATTERY
16	SB	STOP LAMP SWITCH SIGNAL
19	Y	G-SENSOR SIGNAL (+)
20	GR	IGN
21	P	CAN-L
22	BR	VDC OFF SW-H
23	L	CAN-H
25	O	G-SENSOR SIGNAL (-)
26	B	GROUND

Connector No.	Color Of Wire	Signal Name [Specification]
E100		
Connector Name		FUSE BLOCK (I/R)
Connector Type		NS16FW-CS



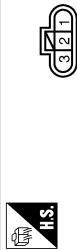
Terminal No.	Color Of Wire	Signal Name [Specification]
11E	V	
12E	V	
1F	SB	
2F	R	
4F	L	
6F	LG	
8F	P	
9F	BR	

Connector No.	Color Of Wire	Signal Name [Specification]
E126		
Connector Name		STOP LAMP SWITCH
Connector Type		W04FBL-C



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	
2	R	
3	O	
4	W	

Connector No.	Color Of Wire	Signal Name [Specification]
E348		
Connector Name		FRONT COMBINATION LAMP LH
Connector Type		Z03FBR



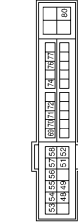
Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	
2	B	
3	Y	

Connector No.	Color Of Wire	Signal Name [Specification]
E349		
Connector Name		FRONT COMBINATION LAMP RH
Connector Type		Z03FBR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	
2	GR	
3	SB	

Connector No.	Color Of Wire	Signal Name [Specification]
F12		
Connector Name		IPDM (LH) INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type		TH20FW-CS12-M4

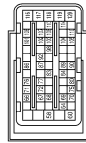


Terminal No.	Color Of Wire	Signal Name [Specification]
48	W	
49	R/B	
51	LG	
52	Y/G	
53	R/W	
54	G/W	
55	W/L	
56	R/Y	
57	O	
58	Y	
69	W/B	
70	O	
71	P	
72	R/B	
74	LG	
76	GR	
77	B	

BCM (BODY CONTROL MODULE)

80	B	-
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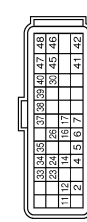
Connector No.	F15
Connector Name	ECM
Connector Type	MAB55SER-MEB10-1H



Terminal No.	Wire	Signal Name [Specification]
58	P/B	E-CV/C41
60	W	SENSOR GROUND
64	G/B	A/F SENSOR 1 (BANK 1)
66	L	A/F SENSOR 1 (BANK 1)
67	P	BATTERY TEMPERATURE SENSOR
68	W	BATTERY CURRENT SENSOR
69	BR	SHIELD
70	GR	THROTTLE POSITION SENSOR 1
71	W	THROTTLE POSITION SENSOR 2
72	R	SENSOR GROUND
73	B	A/F SENSOR 1 (BANK 2)
74	G	A/F SENSOR 1 (BANK 2)
75	V	SHIELD
80	GR	PNP SIGNAL
83	R	CAMSHAFT POSITION SENSOR (BANK 1)
84	W/R	ECM RELAY (SELF SHUT—OFF)
86	W/B	SENSOR POWER SUPPLY
87	R/Y	CAMSHAFT POSITION SENSOR (BANK 2)
89	B/W	SENSOR GROUND
90	B/R	SENSOR POWER SUPPLY
92	G/W	STARTER MOTOR RELAY CUT OFF SIGNAL
98	G	VIAS CONTROL SOLENOID VALVE 2
101	P	IGNITION SIGNAL No. 3
102	GR/B	ECM GROUND
103	L/B	IGNITION SIGNAL No. 5
104	GR/R	IGNITION SIGNAL No. 6
105	B	ECM GROUND
106	G/R	IGNITION SIGNAL No. 2
107	P	IGNITION SIGNAL No. 5
108	V	VIAS CONTROL SOLENOID VALVE 1
110	B	ECM GROUND
113	Y/R	IGNITION SIGNAL No. 1
114	W	IGNITION SIGNAL No. 4

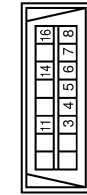
116	W/L	POWER SUPPLY FOR ECM (BACK-UP)
117	V	WIPER MOTOR CONTROL SOLENOID VALVE (BANK 1)
118	Y	WIPER MOTOR CONTROL SOLENOID VALVE (BANK 2)
119	X	WIPER MOTOR CONTROL SOLENOID VALVE (BANK 2)
120	BR	WIPER MOTOR CONTROL SOLENOID VALVE (BANK 2)

Connector No.	F23
Connector Name	TCM
Connector Type	RH407B-K28-L-RH



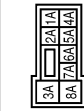
Terminal No.	Wire	Signal Name [Specification]
2	GR	L RANGE SW
4	G/O	D RANGE SW
5	P/L	N RANGE SW
6	P/B	R RANGE SW
7	B/W	P RANGE SW
11	W/R	SENSOR GROUND
12	V	CVT FLUID TEMPERATURE SENSOR
14	W	SECONDARY PRESSURE SENSOR
15	W/V	SECONDARY PRESSURE SENSOR
17	LG	PRIMARY PRESSURE SENSOR
23	P	COA-H
24	BR	INPUT SPEED SENSOR
26	L/O	SENSOR POWER
30	R/Y	LINE PRESSURE SOLENOID VALVE
33	L	CAN-H
34	LG/R	OUTPUT SPEED SENSOR
35	LG	PRIMARY SPEED SENSOR
37	L/W	SELECT SOLENOID VALVE
38	V/R	TORQUE CONVERTER CLUTCH SOLENOID VALVE
39	W/B	SECONDARY PRESSURE SOLENOID VALVE
40	B/R	PRIMARY PRESSURE SOLENOID VALVE
41	B	GROUND
42	B	GROUND
45	LG	BATTERY POWER SUPPLY
46	LG	BATTERY POWER SUPPLY
47	Y	IGNITION POWER SUPPLY
48	Y	IGNITION POWER SUPPLY

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD36FW



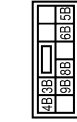
Terminal No.	Wire	Signal Name [Specification]
3	LG	-
4	GR	-
5	GR	-
6	L	-
7	R	-
8	G	-
11	SB	-
14	P	-
16	P	-

Connector No.	M6
Connector Name	FUSE BLOCK (J/B)
Connector Type	CS06FW-M2



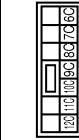
Terminal No.	Wire	Signal Name [Specification]
1A	Y	-
2A	G	-
3A	L	-
4A	GR	-
5A	V	-
6A	R	-
7A	GR	-
8A	L	-

Connector No.	M7
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



Terminal No.	Wire	Signal Name [Specification]
3B	V	-
4B	W	-
5B	BR	-
6B	O	-
8B	R/L	-
9B	GR	-

Connector No.	M8
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



Terminal No.	Wire	Signal Name [Specification]
10C	LG	-
11C	V	-
12C	V	-
6C	GR	-
7C	GR	-
8C	G	-
9C	Y	-

BCM (BODY CONTROL MODULE)

Connector No.	M17
Connector Name	OPTICAL SENSOR
Connector Type	TK03FW



Terminal No.	Wire	Signal Name [Specification]
1	W	POWER
2	G	OUTPUT
3	R	GROUND

Connector No.	M26
Connector Name	NATS ANTENNA AMP.
Connector Type	TH04FW-NH



Terminal No.	Wire	Signal Name [Specification]
1	Y	BAT
2	GR	CLK
3	P	DATA
4	B	GROUND

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH



Terminal No.	Wire	Signal Name [Specification]
1	O	BATTERY POWER SUPPLY [With automatic drive positioner]
1	P	BATTERY POWER SUPPLY [Without automatic drive positioner]
2	G	IGNITION SIGNAL [Without automatic drive positioner]
2	Y	IGNITION SIGNAL [With automatic drive positioner]
3	B	GROUND
4	B	GROUND
5	B	ILLUMINATION CONTROL SIGNAL [Without automatic drive positioner]
5	B/P	ILLUMINATION CONTROL SIGNAL [With automatic drive positioner]
8	G	TRIP RESET SWITCH SIGNAL [Without automatic drive positioner]
8	SB	TRIP RESET SWITCH SIGNAL [With automatic drive positioner]
10	P	METER CONTROL SWITCH GROUND
11	G	ENTER SWITCH SIGNAL
12	BR	SELECT SWITCH SIGNAL [With automatic drive positioner]
12	R	SELECT SWITCH SIGNAL [Without automatic drive positioner]
13	W	ILLUMINATION CONTROL SIGNAL [Without automatic drive positioner]
13	W	ILLUMINATION CONTROL SIGNAL [With automatic drive positioner]
14	G	ILLUMINATION CONTROL SIGNAL [Without automatic drive positioner]
14	Y	ILLUMINATION CONTROL SIGNAL [With automatic drive positioner]
15	BR	ENGINE COOLANT TEMPERATURE SIGNAL
16	L	AMBIENT SENSOR SIGNAL [Without automatic drive positioner]
18	L	AMBIENT SENSOR SIGNAL [With automatic drive positioner]
18	LG	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL
19	R	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL
20	G	AMBIENT SENSOR GROUND [Without automatic drive positioner]
20	Y	AMBIENT SENSOR GROUND [With automatic drive positioner]
21	L	CAN-H
22	P	CAN-L
23	B	GROUND
24	B	FUEL LEVEL SENSOR GROUND
25	BR	ALTERNATOR SIGNAL [With automatic drive positioner]
25	W	ALTERNATOR SIGNAL [Without automatic drive positioner]
26	BR	PARKING BRAKE SWITCH SIGNAL
27	BE	BRAKE FLUID LEVEL SWITCH SIGNAL [Without automatic drive positioner]
27	Y	BRAKE FLUID LEVEL SWITCH SIGNAL [With automatic drive positioner]
28	V	SECURITY SIGNAL
29	G	WASHER LEVEL SWITCH SIGNAL

31	SB	VEHICLE SPEED SIGNAL (8-PULSE)
32	P	OVERDRIVE CONTROL SWITCH SIGNAL
34	GR	FUEL LEVEL SENSOR SIGNAL
35	GR	WASHER FLUID LEVEL SWITCH SIGNAL [Without automatic drive positioner]
35	P	WASHER FLUID LEVEL SWITCH SIGNAL [With automatic drive positioner]
36	BR	PASSENGER SEAT BELT WARNING SIGNAL

Connector No.	M40
Connector Name	DIODE
Connector Type	24335_C9002



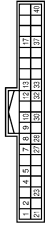
Terminal No.	Wire	Signal Name [Specification]
1	B	
2	B	

Connector No.	M45
Connector Name	HAZARD SWITCH
Connector Type	TK04FW



Terminal No.	Wire	Signal Name [Specification]
1	B	
2	R	
3	R	
4	B	

Connector No.	M49
Connector Name	A/C AMP.
Connector Type	TH40FW-NH

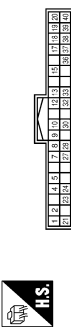


Terminal No.	Wire	Signal Name [Specification]
1	P	BATTERY POWER SUPPLY
2	G	IGNITION POWER SUPPLY
4	SB	DOOR MOTOR POWER SUPPLY
5	BR	LAN SIGNAL
7	R	REAR WINDOW DEFROSTER F/B SIGNAL
8	P	ILLUMINATION POWER SUPPLY
9	GR	A/C POWER SUPPLY
10	W	FRONT BLOWER MOTOR CONTROL SIGNAL
12	BE	BLOWER FAN ON SIGNAL
13	G	A/C ON SIGNAL
17	G	ENGINE COOLANT TEMPERATURE SIGNAL
21	B	GROUND
23	B	REAR WINDOW DEFROSTER ON SIGNAL
27	BE	ILLUMINATION GROUND
28	GR	REAR BLOWER MOTOR CONTROL SIGNAL
30	R	COMBINATION LOCK (LOCK) SIGNAL
32	Y	COMBINATION LOCK (UNLOCK) SIGNAL
33	Y	COMBINATION LOCK (LOCK) SIGNAL
37	BE	INTAKE SENSOR SIGNAL
40	G	SENSOR GROUND

JRMW17241GB

BCM (BODY CONTROL MODULE)

Connector No.	M50
Connector Name	A/C AUTO AMP.
Connector Type	TH40FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	BATTERY POWER SUPPLY
2	G	IGNITION POWER SUPPLY
4	SB	DOOR MOTOR POWER SUPPLY
5	BR	LAN SIGNAL
7	R	REAR WINDOW DEFOGGER F/B SIGNAL
8	P	ILLUMINATION POWER SUPPLY
9	GR	ACC POWER SUPPLY
10	W	FRONT BLOWER MOTOR CONTROL SIGNAL
12	BE	BLOWER FAN ON SIGNAL
13	G	A/C ON SIGNAL
15	GR	IONIZER ON/OFF CONTROL SIGNAL
17	G	ENGINE COOLANT TEMPERATURE SIGNAL
18	W	SUNLOAD SENSOR SIGNAL
19	R	FRONT IN-VEHICLE SENSOR SIGNAL
20	R	A/C AUTO AMP. CONTROLLER RECOGNITION SIGNAL
21	GR	GROUND
22	B	VEHICLE SPEED SIGNAL
24	BE	REAR WINDOW DEFOGGER ON SIGNAL
27	BE	ILLUMINATION GROUND
28	GR	REAR BLOWER MOTOR CONTROL SIGNAL
30	R	COMMI (A/C AUTO AMP. → R/A/C CONT.)
32	G	COMMI (R/A/C CONT. → A/C AUTO AMP.)
33	W	DOOR (R/A/C CONT. → A/C AUTO AMP.)
36	R	DOOR (A/C AUTO AMP. → R/A/C CONT.)
37	BE	INTAKE SENSOR SIGNAL
38	GR	REAR IN-VEHICLE SENSOR SIGNAL
39	L	AMBIENT SENSOR SIGNAL
40	G	SENSOR GROUND

Connector No.	M57
Connector Name	CVT SHIFT SELECTOR
Connector Type	TH12FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
4	B	-
6	W	-
7	B	-
8	BE	-
9	G	-

Connector No.	M59
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH28FY-EX



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BE	IGN
2	GR	GROUND
3	LG	DR1 (+)
4	Y	DR1 (-) DR2 (+)
5	V	DR2 (-)
6	V	AS1 (+)
7	LG	AS1 (-)
8	BR	AS2 (+)
9	Y	AS2 (-)
18	B	ECZS (+)
19	W	ECZS (-)
22	GR	GROUND
23	R	AIRBAG W/L
24	LG	SEATBELT W/L

25	LG	OUT/OUT TEL/LE
27	W	DOOR SENS. LH2+
32	R	DOOR SENS. RH2+
33	W	DOOR SENS. LH2-
34	B	DOOR SENS. RH2-
57	W	DEPLOYMENT INFORMATION OUTPUT
59	L	CAN-H
60	P	CAN-L

Connector No.	M91
Connector Name	SELECTIVE UNLOCK RELAY
Connector Type	MS93FB-AZ-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	P	-
3	W	-
4	B	-
5	P	-

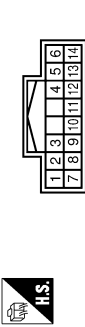
Connector No.	M101
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK08FB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	P	-
4	V	-
5	W	-

5	R	-
7	C	-
8	W	-

Connector No.	M103
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	RR
2	G	OUTPUT 4
3	P	FR
4	W	IGN
5	BE	OUTPUT 3
6	BY	GROUND
7	P	INPUT 3
8	R	OUTPUT 5
9	GR	INPUT 2
10	W	INPUT 4
11	R	INPUT 1
12	W	OUTPUT 1
13	R	INPUT 5
14	G	OUTPUT 2

Connector No.	M105
Connector Name	NODE KEY ANTENNA (INSTRUMENT CENTER)
Connector Type	RK02FL



BCM (BODY CONTROL MODULE)

Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	B	-

Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	REAR WINDOW DEF RELAY CONT
2	R	COMBI SW INPUT 5
3	G	COMBI SW INPUT 4
4	BE	COMBI SW INPUT 3
5	G	COMBI SW INPUT 2
6	W	COMBI SW INPUT 1
7	W	KEY CTL UNLOCK SW
8	GR	PW SW COMM (WMP automatic slide door)
9	GR	KEY CTL LOCK SW (Wintoad automatic slide door)
10	GR	STOP LAMP SW 1
11	GR	DOOR LOCK SW 1
12	GR	DOOR LOCK SW 2
13	BR	DOOR LOCK SW 3
14	BR	DOOR LOCK SW 4
15	W	OPTICAL SENS
16	W	REAR WINDOW DEF SW
17	O	DIAMETER
18	R	SENS PW SW SPLY
19	R	RECEIV/SENS GND
20	GR	NATS ANT AMP
21	GR	SECURITY INB CONT
22	W	NATS ANT AMP
23	P	NATS ANT AMP
24	P	A/C ON
25	O	BLOWER FAN ON
26	BR	HAZARD SW
27	P	BK DOOR OPEN SW
28	L	BK DOOR OPEN SW
29	G	DR DOOR UNLK SENS
30	R	COMBI SW OUTPUT 5
31	W	COMBI SW OUTPUT 4
32	P	COMBI SW OUTPUT 3
33	GR	COMBI SW OUTPUT 2
34	R	COMBI SW OUTPUT 1



Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FB-FH46-SA

Terminal No.	Color Of Wire	Signal Name [Specification]
37	G	DETENT SW
38	BE	RECEIVER COMM
39	L	COMM
40	P	COMM

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FH46-SA

Terminal No.	Color Of Wire	Signal Name [Specification]
43	P	BK DOOR SW
44	GR	REAR WIPER STOP POSITION
45	W	PASS DOOR SW
46	R	SL DOOR RH SW
47	G	DR DOOR SW
48	BE	SL DOOR LH SW
49	B	LUGGAGE LAMP CONT
50	V	SELECT UNLK RELAY CONT
51	G	BACK DOOR REL SW
52	BR	BK DOOR OPEN
53	R	REAR WIPER STOP
54	G	SL DOOR LH UNLK CONT



Connector No.	M124
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW-NH



Connector No.	M125
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FH46-SA

Terminal No.	Color Of Wire	Signal Name [Specification]
71	G	ON IND
72	G	DR DOOR SW
73	V	PUSH SW
74	B	DR DOOR ANT+
75	W	DR DOOR ANT-
76	GR	PASS DOOR ANT+
77	BE	REAR BIPR ANT+
78	G	REAR BIPR ANT-
79	R	ROOM ANT+
80	GR	ROOM ANT-
81	W	ROOM ANT2+
82	BE	ROOM ANT2-
83	B	LUGGAGE ROOM ANT+
84	P	LUGGAGE ROOM ANT-
85	W	PUSH-BTN IGN SW ILL PWIR SPLY
86	W	LOCK IND

Terminal No.	Color Of Wire	Signal Name [Specification]
92	B	PUSH-BTN IGN SW ILL GND
93	R	HET WARM BUZZER
94	BE	ALARM GND OUTPUT
95	BE	STAY GND OUTPUT
96	P	IGN RELAY (PANEL DOOR) CONE
97	G	IGN RELAY (PANEL DOOR) CONT
98	R	PASS DOOR REL SW
99	R	PASS DOOR REL SW
100	R	IGN PWIR SW 2
101	P	PIN POSITION
102	L	CVT SHIFT SELECT LAMP SPLY
103	L	STOP LAMP SW 2
104	O	BLWR RELAY CONT OUTPUT
105	R	ACC IND

Connector No.	M183
Connector Name	AV CONTROL UNIT
Connector Type	NH18FW-CSZ



Terminal No.	Color Of Wire	Signal Name [Specification]
2	LG	SOUND SIGNAL FRONT SPEAKER LH (+)
3	V	SOUND SIGNAL FRONT SPEAKER LH (-)
4	V	SOUND SIGNAL SLIDE DOOR SPEAKER RH (+)
5	L	SOUND SIGNAL SLIDE DOOR SPEAKER RH (-)
6	BE	STEERING SWITCH SIGNAL A
7	O	ACC POWER SUPPLY
8	O	DIMMER SIGNAL
9	BE	SOUND SIGNAL FRONT SPEAKER RH (+)
10	B	SOUND SIGNAL FRONT SPEAKER RH (-)
11	BR	SOUND SIGNAL SLIDE DOOR SPEAKER RH (+)
12	BR	SOUND SIGNAL SLIDE DOOR SPEAKER RH (-)
13	W	STEERING SWITCH SIGNAL B
14	P	BATTERY POWER SUPPLY
15	SB	GROUND
16	B	GROUND

BCM (BODY CONTROL MODULE)

Connector No.	M186
Connector Name	AV CONTROL UNIT
Connector Type	TH32FW-NH



76	77	78	79	80	81	82				87	88		90	91	
92	93	94	95	96						102	103	104	105	106	107

BCM (BODY CONTROL MODULE)

Connector No.	R427
Connector Name	THIRD PERSONAL LAMP RH
Connector Type	TK03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	O	-
3	B	-

Connector No.	R428
Connector Name	THIRD PERSONAL LAMP LH
Connector Type	TK03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	O	-
3	B	-

Connector No.	R431
Connector Name	FRONT SUNROOF MOTOR ASSEMBLY
Connector Type	YE410FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
3	V	IGNITIMER
5	LG	OPENSWBRT-O
6	L	BAT
8	Y	VEHICLE SPEED (8-PULSE)
10	V	CLOSESWBRT-1

Connector No.	R432
Connector Name	REAR SUNROOF MOTOR ASSEMBLY
Connector Type	YE410FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
3	V	IGNITIMER
5	BR	OPEN SW(MAP)
6	L	BAT
7	SB	COM
8	Y	VEHICLE SPEED (8-PULSE)
10	SB	CLOSE SW(MAP)

Connector No.	R438
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	TH04FW-MH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	BAT
2	L	SIGNAL
4	LG	GROUND

Connector No.	R439
Connector Name	MAP LAMP
Connector Type	TK06FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	V	-
3	L	-
4	B	-
5	BR	-
6	SB	-

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

BASIC INSPECTION

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM)

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM) : Description

INFOID:000000012407021

Perform the following operations when replacing BCM. (For details, refer to [BCS-84. "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT \(BCM\) : Work Procedure"](#).)

BEFORE REPLACEMENT

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

NOTE:

If "Before Replace ECU" of "Read / Write Configuration" cannot be used, use the "Manual Configuration" after replacing BCM.

AFTER REPLACEMENT

CAUTION:

When replacing BCM, always perform "Read / Write Configuration" or "Manual Configuration" with CONSULT. Or not doing so, BCM control function does not operate normally.

- Complete the procedure of "Read / Write Configuration" in order.
- Configuration is different for each vehicle model. Confirm configuration of each vehicle model.
- If you set incorrect "Read / Write Configuration" or "Manual Configuration", incidents might occur.

NOTE:

When replacing BCM, perform the system initialization (NATS) (if equipped).

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

INFOID:000000012407022

1. SAVING VEHICLE SPECIFICATION

ⓅCONSULT Configuration

Perform "Before Replace ECU" of "Read / Write Configuration" to save or print current vehicle specification. Refer to [BCS-85. "CONFIGURATION \(BCM\) : Description"](#).

NOTE:

If "Before Replace ECU" of "Read / Write Configuration" cannot be used, use the "Manual Configuration" after replacing BCM.

>> GO TO 2.

2. REPLACE BCM

Replace BCM. Refer to [BCS-99. "Removal and Installation"](#).

>> GO TO 3.

3. WRITING VEHICLE SPECIFICATION

ⓅCONSULT Configuration

Perform "After Replace ECU" of "Read / Write Configuration" or "Manual Configuration" to write vehicle specification. Refer to [BCS-85. "CONFIGURATION \(BCM\) : Work Procedure"](#).

>> GO TO 4.

4. INITIALIZE BCM (NATS) (IF EQUIPPED)

Perform BCM initialization. (NATS)

>> WORK END

CONFIGURATION (BCM)

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

CONFIGURATION (BCM) : Description

INFOID:0000000012407023

Vehicle specification needs to be written with CONSULT because it is not written after replacing BCM. Configuration has three functions as follows. (For details, refer to [BCS-85. "CONFIGURATION \(BCM\) : Work Procedure"](#).)

Function		Description
Read / Write Configuration	Before Replace ECU	<ul style="list-style-type: none">• Reads the vehicle configuration of current BCM.• Saves the read vehicle configuration.
	After Replace ECU	Writes the vehicle configuration with saved data.
Manual Configuration		Writes the vehicle configuration with manual selection.

NOTE:

Manual setting item: Items which need selection by vehicle specifications

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

For some models and specifications, the automatic setting item may not be displayed.

CAUTION:

When replacing BCM, always perform "Re/programming, Configuration" with CONSULT. Or not doing so, BCM control function does not operate normally.

- Complete the procedure of "Read / Write Configuration" in order.
- Configuration is different for each vehicle model. Confirm configuration of each vehicle model.
- Never perform "Read / Write Configuration" except for new BCM.
- If you set incorrect "Read / Write Configuration", incidents might occur.

CONFIGURATION (BCM) : Work Procedure

INFOID:0000000012407024

1. WRITING MODE SELECTION

 CONSULT Configuration

Select "Re/programming, Configuration" of BCM.

When writing saved data>>GO TO 2.

When writing manually>>GO TO 3.

2. PERFORM "AFTER REPLACE ECU" OF "READ / WRITE CONFIGURATION"

 CONSULT Configuration

Perform "After Replace ECU" of "Read / Write Configuration".

>> WORK END

3. PERFORM "MANUAL CONFIGURATION"

 CONSULT Configuration

1. Select "Manual Configuration".
2. Identify the correct model and configuration list. Refer to [BCS-86. "CONFIGURATION \(BCM\) : Configuration list"](#).
3. Confirm and/or change setting value for each item.

CAUTION:

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

NOTE:

If items are not displayed, touch "Next". Refer to [BCS-86. "CONFIGURATION \(BCM\) : Configuration list"](#) for written items and setting value.

4. Touch "Next".

5. Touch "OK".

CAUTION:

Make sure to select "OK" even if the indicated configuration of brand new BCM is same as the desirable configuration. If not, configuration which is set automatically by selecting vehicle model cannot be memorized.

6. Check that the configuration has been successfully written and touch "End".

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

>> GO TO 4.

4. OPERATION CHECK

Confirm that each function controlled by BCM operates normally.

>> WORK END

CONFIGURATION (BCM) : Configuration list

INFOID:0000000012407025

CAUTION:

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

SETTING ITEM		NOTE
Items	Setting value	
CAN CONNECTION UNIT	WITHOUT ⇔ MODE13 ⇔ MODE15	<ul style="list-style-type: none">• WITHOUT: Without automatic sliding door system and automatic back door system• MODE13: With automatic sliding door system and automatic back door system• MODE15: With automatic sliding door system, and without automatic back door system
AUTO LIGHT	WITH ⇔ WITHOUT	<ul style="list-style-type: none">• WITH: With auto light system• WITHOUT: Without auto light system
DTRL	WITH ⇔ WITHOUT	<ul style="list-style-type: none">• WITH: With daytime running light system• WITHOUT: Without daytime running light system

⇔: Items which confirm vehicle specifications

SHIPPING MODE CANCEL OPERATION

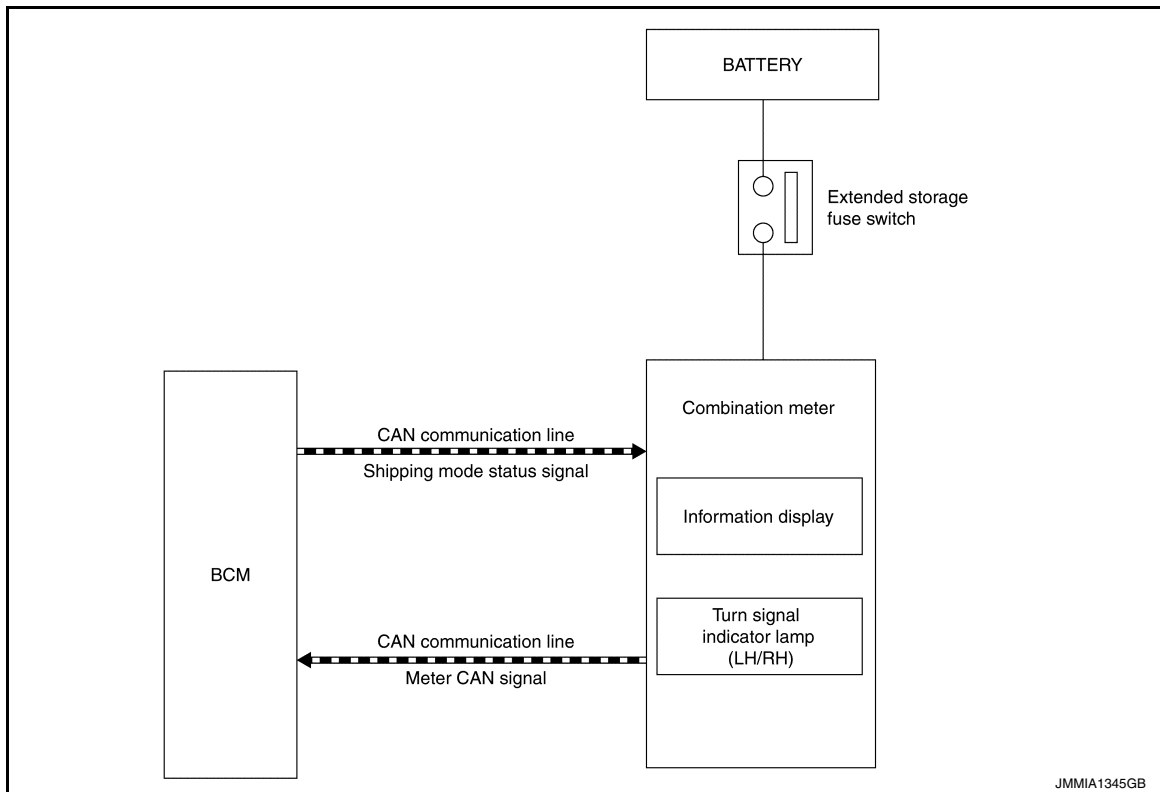
< BASIC INSPECTION >

SHIPPING MODE CANCEL OPERATION

Description

INFOID:0000000012407026

SYSTEM DIAGRAM



DESCRIPTION

- The combination meter transmits meter CAN signal*¹ to BCM via CAN communication, when the extended storage fuse switch is ON.
- BCM switches the status (shipping mode or normal mode) by itself according to the meter CAN signal*¹ from combination meter, and transmits shipping mode status signal to combination meter via CAN communication.
- The combination meter displays extended storage fuse warning message*² on the information display, and turns the turn signal indicator lamp (LH/RH) ON, when BCM is in shipping mode.
- BCM control functions are limited in shipping mode. Refer to [BCS-98. "Description"](#).

*1: Odometer signal, wake up signal and each signal.

*2: When shipping mode function operates, "SHIPPING MODE ON PUSH STORAGE FUSE" is displayed.

Work Procedure

INFOID:0000000012407027

1. SHIPPING MODE CANCEL OPERATION

1. Turn ignition switch OFF.
2. Push in (switch on) the extended storage fuse switch. Refer to [PG-131. "How To Check"](#).
3. Turn ignition switch ON.
4. Turn ignition switch OFF and wait at least 2 seconds.

>> GO TO 2.

2. SHIPPING MODE CANCEL CHECK

1. Turn ignition switch ON.
2. Check that extended storage fuse warning message is not displayed on odometer display.

>> WORK END

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U1000 CAN COMM

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM

Description

INFOID:0000000012407028

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-32, "CAN COMMUNICATION SYSTEM : CAN Communication Signal Chart"](#).

DTC Logic

INFOID:0000000012407029

DTC DETECTION LOGIC

DTC	CONSULT 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:0000000012407030

1.PERFORM SELF DIAGNOSTIC

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

Is DTC "U1000" displayed?

- YES >> Refer to [LAN-17, "Trouble Diagnosis Flow Chart"](#).
NO >> Refer to [GI-41, "Intermittent Incident"](#).

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

DTC Logic

INFOID:0000000012407031

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:0000000012407032

1.REPLACE BCM

When DTC "U1010" is detected, replace BCM.

>> Replace BCM. Refer to [BCS-99. "Removal and Installation"](#).

BCS

U0415 VEHICLE SPEED

< DTC/CIRCUIT DIAGNOSIS >

U0415 VEHICLE SPEED

Description

INFOID:0000000012407033

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

DTC Logic

INFOID:0000000012407034

DTC DETECTION LOGIC

DTC	CONSULT 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.	<ul style="list-style-type: none">• ABS actuator and electric unit (control unit)• BCM

DTC CONFIRMATION PROCEDURE

1. DTC CONFIRMATION

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

Is any DTC detected?

- YES >> Refer to [BCS-90, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000012407035

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

Perform "Self-Diagnostic Result" of ABS actuator and electric unit (control unit) with CONSULT. Refer to [BRC-38, "DTC Index"](#).

Is any DTC detected?

- YES >> Repair or replace the malfunctioning part.
NO >> Replace BCM. Refer to [BCS-99, "Removal and Installation"](#).

B2562 LOW VOLTAGE

< DTC/CIRCUIT DIAGNOSIS >

B2562 LOW VOLTAGE

DTC Logic

INFOID:0000000012407036

DTC DETECTION LOGIC

DTC	CONSULT display de- scription	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 BCM with CONSULT, when passed 120 seconds or more after the ignition switch is turned ON.

Is any DTC detected?

- YES >> Refer to [BCS-91, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000012407037

1.CHECK POWER SUPPLY CIRCUIT

Check BCM power supply circuit. Refer to [BCS-92, "Diagnosis Procedure"](#).

Is the circuit normal?

- YES >> Replace BCM. Refer to [BCS-99, "Removal and Installation"](#).
NO >> Repair the malfunctioning part.

BCS

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000012407038

1.CHECK FUSE AND FUSIBLE LINK

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

Signal name	Fuse and fusible link No.
Battery power supply	L (40 A)
	10 (10 A)

Is the fuse or fusible link blown (open)?

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

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.

Terminals		Voltage (Approx.)
(+)	(-)	
BCM		Ground
Connector	Terminal	
M123	70	
	57	Battery voltage

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	67		Existed

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

COMBINATION SWITCH OUTPUT CIRCUIT

Diagnosis Procedure

INFOID:000000012407039

1.CHECK OUTPUT 1 - 5 CIRCUIT FOR OPEN

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

System	BCM		Combination switch		Continuity
	Connector	Terminal	Connector	Terminal	
OUTPUT 1	M121	36	M103	11	Existed
OUTPUT 2		35		9	
OUTPUT 3		34		7	
OUTPUT 4		33		10	
OUTPUT 5		32		13	

Does continuity exist?

YES >> GO TO 2.

NO >> Repair harnesses or connectors.

2.CHECK OUTPUT 1 - 5 CIRCUIT FOR SHORT

Check for continuity between BCM harness connector and ground.

System	BCM			Continuity
	Connector	Terminal		
OUTPUT 1	M121	36	Ground	Not existed
OUTPUT 2		35		
OUTPUT 3		34		
OUTPUT 4		33		
OUTPUT 5		32		

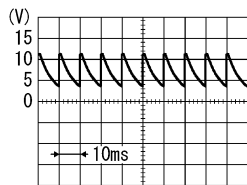
Does continuity exist?

YES >> Repair harnesses or connectors.

NO >> GO TO 3.

3.CHECK BCM OUTPUT VOLTAGE

1. Connect BCM connector.
2. Check voltage between BCM harness connector and ground.

System	Terminals		Ground	Voltage (Approx.)
	(+) (-)			
	BCM			Voltage (Approx.)
	Connector	Terminal		
OUTPUT 1	M121	36		
OUTPUT 2		35		
OUTPUT 3		34		
OUTPUT 4		33		
OUTPUT 5		32		

Is the measurement value normal?

COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Replace combination switch.
- NO >> Replace BCM. Refer to [BCS-99, "Removal and Installation"](#).

COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

COMBINATION SWITCH INPUT CIRCUIT

Diagnosis Procedure

INFOID:0000000012407040

1.CHECK INPUT 1 - 5 CIRCUIT FOR OPEN

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

System	BCM		Combination switch		Continuity
	Connector	Terminal	Connector	Terminal	
INPUT 1	M121	6	M103	12	Existed
INPUT 2		5		14	
INPUT 3		4		5	
INPUT 4		3		2	
INPUT 5		2		8	

Does continuity exist?

YES >> GO TO 2.

NO >> Repair harnesses or connectors.

2.CHECK INPUT 1 - 5 CIRCUIT FOR SHORT

Check for continuity between BCM harness connector and ground.

System	BCM			Continuity
	Connector	Terminal		
INPUT 1	M121	6	Ground	Not existed
INPUT 2		5		
INPUT 3		4		
INPUT 4		3		
INPUT 5		2		

Does continuity exist?

YES >> Repair harnesses or connectors.

NO >> GO TO 3.

3.CHECK BCM INPUT SIGNAL

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

System	Terminals		Voltage (Approx.)	
	(+) (−)			
	BCM			
	Connector	Terminal		
INPUT 1	M121	6	Ground	Refer to BCS-41, "Reference Value" .
INPUT 2		5		
INPUT 3		4		
INPUT 4		3		
INPUT 5		2		

Is the measurement value normal?

Yes >> Replace BCM. Refer to [BCS-99, "Removal and Installation"](#).

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COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

No >> Replace combination switch.

COMBINATION SWITCH SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

COMBINATION SWITCH SYSTEM SYMPTOMS

Symptom Table

INFOID:0000000012407041

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

Malfunction item: x

Data monitor item																	Malfunction combination
FR WIPER HI	FR WIPER LOW	FR WASHER SW	FR WIPER INT	RR WIPER ON	RR WIPER INT	RR WASHER SW	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	
	x	x						x	x								A
x			x									x		x			B
						x	x				x		x				C
					x		x			x					x		D
				x			x									x	E
x					x		x										F
		x		x		x	x										G
	x		x												x		H
									x				x	x		x	I
								x		x	x	x					J
All Items																	K
If only one item is detected or the item is not applicable to the combinations A to K																	L

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

Malfunction combination	Malfunctioning part	Repair or replace
A	Combination switch OUTPUT 1 circuit	Inspect the combination switch output circuit applicable to the malfunctioning part. Refer to BCS-93, "Diagnosis Procedure" .
B	Combination switch OUTPUT 2 circuit	
C	Combination switch OUTPUT 3 circuit	
D	Combination switch OUTPUT 4 circuit	
E	Combination switch OUTPUT 5 circuit	
F	Combination switch INPUT 1 circuit	Inspect the combination switch input circuit applicable to the malfunctioning part. Refer to BCS-95, "Diagnosis Procedure" .
G	Combination switch INPUT 2 circuit	
H	Combination switch INPUT 3 circuit	
I	Combination switch INPUT 4 circuit	
J	Combination switch INPUT 5 circuit	
K	BCM	Replace BCM. Refer to BCS-99, "Removal and Installation" .
L	Combination switch	Replace combination switch.

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

NORMAL OPERATING CONDITION

Description

INFOID:0000000012407042

SHIPPING MODE

- Shipping mode inhibits battery power consumption during transportation or storage of the vehicle. Vehicle is set to shipping mode before being shipped from the factory.
- When ignition switch is OFF, BCM operates shipping mode.
- BCM control functions are limited in shipping mode. The limited items that are not operated during the shipping mode are as follows.
 - Door lock and unlock switch function
 - Remote keyless entry function
 - Theft warning alarm function
 - Lighting & turn signal switch function
 - Interior room lamp timer control function
- For shipping mode cancel operation, refer to [BCS-87, "Description"](#).

NOTE:

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

REMOVAL AND INSTALLATION

BCM

Removal and Installation

INFOID:0000000012407043

CAUTION:

Before replacing BCM, perform “Before Replace ECU” of “Read / Write Configuration” to save or print current vehicle specification. Refer to [BCS-84. "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT \(BCM\) : Description"](#).

REMOVAL

1. Remove combination meter. Refer to [MWI-96. "Removal and Installation"](#).
2. Remove bolts.
3. Remove BCM and disconnect the connectors.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Be sure to perform “After Replace ECU” of “Read / Write Configuration” or “Manual Configuration” when replacing BCM. Refer to [BCS-84. "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT \(BCM\) : Description"](#).

NOTE:

Be sure to perform the system initialization (NATS) when replacing BCM. Refer to [BCS-84. "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT \(BCM\) : Work Procedure"](#).

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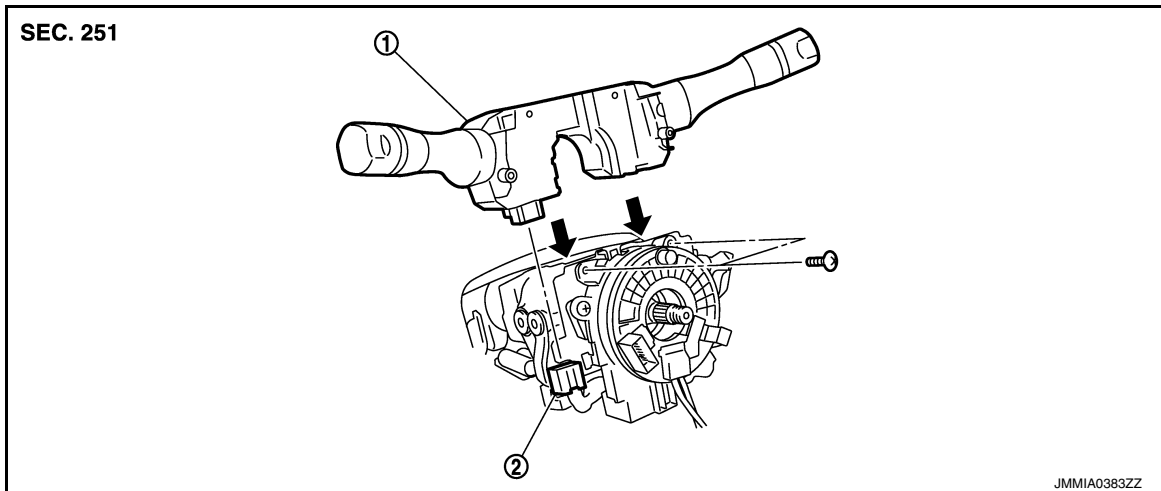
COMBINATION SWITCH

< REMOVAL AND INSTALLATION >

COMBINATION SWITCH

Exploded View

INFOID:0000000012407044



1. Combination switch

2. Combination switch connector

Removal and Installation

INFOID:0000000012407045

REMOVAL

1. Remove steering column cover. Refer to [IP-14, "Removal and Installation"](#).
2. Remove screws.
3. Disconnect the connector.
4. Pull up the combination switch to remove it.

INSTALLATION

Install in the reverse order of removal.