

SECTION **BCS**

BODY CONTROL SYSTEM

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PRECAUTION

PRECAUTIONS

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

INFOID:000000011564752

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

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

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

WARNING:

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

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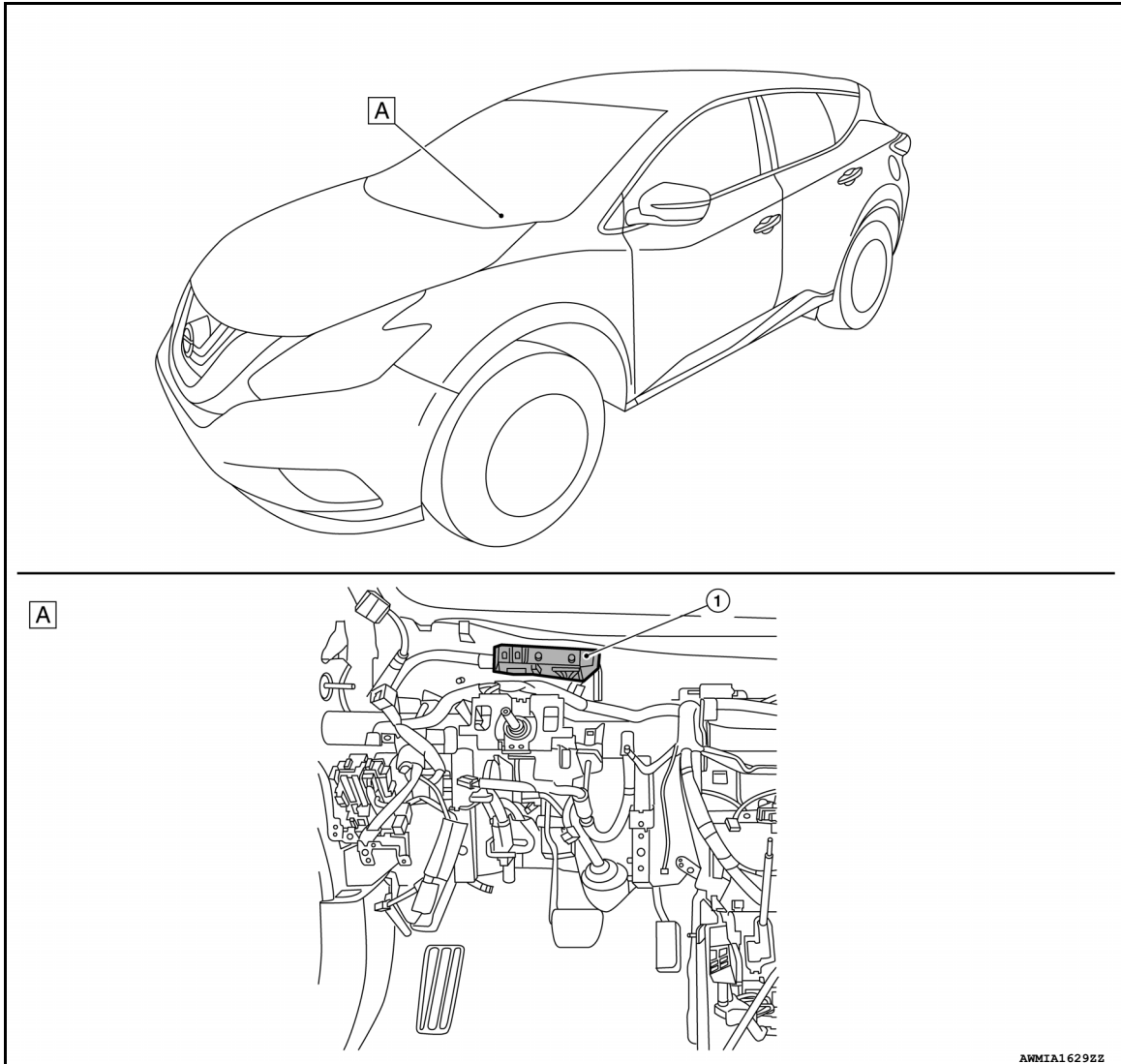
SYSTEM DESCRIPTION

COMPONENT PARTS

BODY CONTROL SYSTEM

BODY CONTROL SYSTEM : Component Parts Location

INFOID:000000011216937



- 1. BCM (view with instrument panel removed)
- A. Instrument panel left side

POWER CONSUMPTION CONTROL SYSTEM

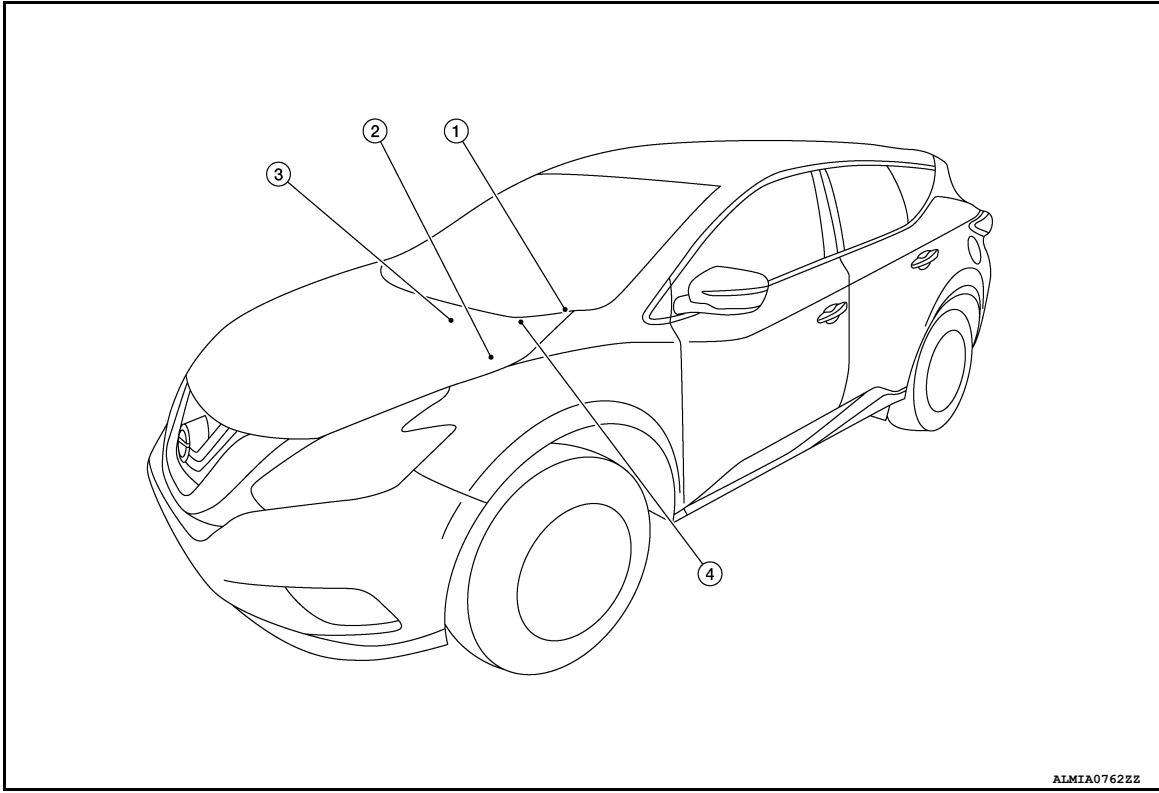
COMPONENT PARTS

< SYSTEM DESCRIPTION >

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POWER CONSUMPTION CONTROL SYSTEM : Component Parts Location

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- 1. Combination meter
- 4. BCM

2. IPDM E/R

3. CAN gateway

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SYSTEM

BODY CONTROL SYSTEM

BODY CONTROL SYSTEM : System Description

INFOID:000000011216940

OUTLINE

- BCM (body control module) controls various electrical components. It receives the information required from CAN communication and the signals received from each switch and sensor.
- BCM has a combination switch reading function for reading the status of combination switches (light, turn signal, wiper and washer) in addition to functions for controlling the operation of various electrical components. It also has a signal transmission function for other systems, and a power consumption control function that reduces the power consumption with the ignition switch OFF.
- BCM is equipped with a diagnosis function that operates with CONSULT and allows for various settings to be changed.

BCM FUNCTION LIST

| System | Refer to |
|---|---|
| Combination switch reading system | BCS-8. "COMBINATION SWITCH READING SYSTEM : System Description" |
| Signal buffer system | BCS-11. "SIGNAL BUFFER SYSTEM : System Description" |
| Power consumption control system | BCS-12. "POWER CONSUMPTION CONTROL SYSTEM : System Description" |
| Shipping mode control system | BCS-14. "SHIPPING MODE CONTROL SYSTEM : System Description" |
| Auto light system | EXL-12. "AUTO LIGHT SYSTEM : System Description" (LED type headlamp) EXL-152. "AUTO LIGHT SYSTEM : System Description" (Halogen type headlamp) |
| Headlamp system | EXL-11. "HEADLAMP SYSTEM : System Description" (LED type headlamp) EXL-151. "HEADLAMP SYSTEM : System Description" (Halogen type headlamp) |
| Daytime running light system | EXL-13. "DAYTIME RUNNING LIGHT SYSTEM : System Description" (LED type headlamp) EXL-153. "DAYTIME RUNNING LIGHT SYSTEM : System Description" (Halogen type headlamp) |
| Front fog lamp system | EXL-16. "FRONT FOG LAMP SYSTEM : System Description" (LED type headlamp) EXL-156. "FRONT FOG LAMP SYSTEM : System Description" (Halogen type headlamp) |
| Turn signal and hazard warning lamp system | EXL-14. "TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : System Description" (LED type headlamp) EXL-154. "TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : System Description" (Halogen type headlamp) |
| Parking, license plate and tail lamp system | EXL-15. "PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM : System Description" (LED type headlamp) EXL-154. "PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM : System Description" (Halogen type headlamp) |
| Exterior lamp battery saver system | EXL-17. "EXTERIOR LAMP BATTERY SAVER SYSTEM : System Description" (LED type headlamp) EXL-157. "EXTERIOR LAMP BATTERY SAVER SYSTEM : System Description" (Halogen type headlamp) |
| Interior room lamp battery saver system | INL-7. "INTERIOR ROOM LAMP CONTROL SYSTEM : System Description" |
| Interior room lamp control system | INL-7. "INTERIOR ROOM LAMP CONTROL SYSTEM : System Description" |

SYSTEM

< SYSTEM DESCRIPTION >

[BCM]

| System | Refer to | |
|--|---|--|
| Front wiper and washer system | WW-9, "FRONT WIPER AND WASHER SYSTEM : System Description" | |
| Rear wiper and washer system | WW-12, "REAR WIPER AND WASHER SYSTEM : System Description" | |
| Warning chime system | WCS-5, "WARNING CHIME SYSTEM : System Description" | |
| Door lock system | DLK-23, "System Description" | |
| Back door open system | DLK-39, "System Description" | |
| Nissan vehicle immobilizer system (NVIS) | SEC-12, "NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS : System Description" | |
| Vehicle security system | SEC-14, "VEHICLE SECURITY SYSTEM : System Description" | |
| Panic alarm | | |
| Rear window defogger system | DEF-6, "System Description" | |
| Intelligent Key system/engine start system | Door lock function | <ul style="list-style-type: none"> • DLK-26, "DOOR LOCK FUNCTION : System Description" (door request switch) • DLK-25, "INTELLIGENT KEY SYSTEM : System Description" (Intelligent Key) |
| | Back door open function | <ul style="list-style-type: none"> • DLK-28, "BACK DOOR OPEN FUNCTION : System Description" (back door request switch) • DLK-25, "INTELLIGENT KEY SYSTEM : System Description" (Intelligent Key) |
| | Warning function | DLK-32, "WARNING FUNCTION : System Description" |
| | Key reminder function | DLK-35, "KEY REMINDER FUNCTION : System Description" |
| | Engine start function | SEC-9, "INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION : System Description" |
| Power window system | PWC-8, "System Description" | |
| RAP (retained accessory power) system | BCS-28, "RETAINED PWR : CONSULT Function (BCM - RETAINED PWR)" | |
| TPMS (tire pressure monitoring system) | WT-9, "System Description" | |

BODY CONTROL SYSTEM : Fail Safe

INFOID:000000011551903

| Display contents of CONSULT | Fail-safe | Cancellation |
|-----------------------------|-------------------------|---|
| B2192: ID DISCORD BCM-ECM | Inhibit engine cranking | Erase DTC |
| B2193: CHAIN OF BCM-ECM | Inhibit engine cranking | Erase DTC |
| B2195: ANTI-SCANNING | Inhibit engine cranking | Ignition switch ON → OFF |
| B2560: STARTER CONT RELAY | Inhibit engine cranking | 500 ms after the following CAN signal communication status has become consistent: <ul style="list-style-type: none"> • Starter control relay signal • Starter relay status signal |
| B2562: LO VOLTAGE | Inhibit engine cranking | 100 ms after the power supply voltage increases to more than 8.8 V |
| B2608: STARTER RELAY | Inhibit engine cranking | 500 ms after the following signal communication status becomes consistent: <ul style="list-style-type: none"> • Starter motor relay control signal • Starter relay status signal (CAN) |
| B260A: IGNITION RELAY | Inhibit engine cranking | 500 ms after the following conditions are fulfilled: <ul style="list-style-type: none"> • IGN relay (IPDM E/R) control signal: OFF (Battery voltage) • Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) • Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal) |
| B261E: VEHICLE TYPE | Inhibit engine cranking | BCM initialization |

COMBINATION SWITCH READING SYSTEM

SYSTEM

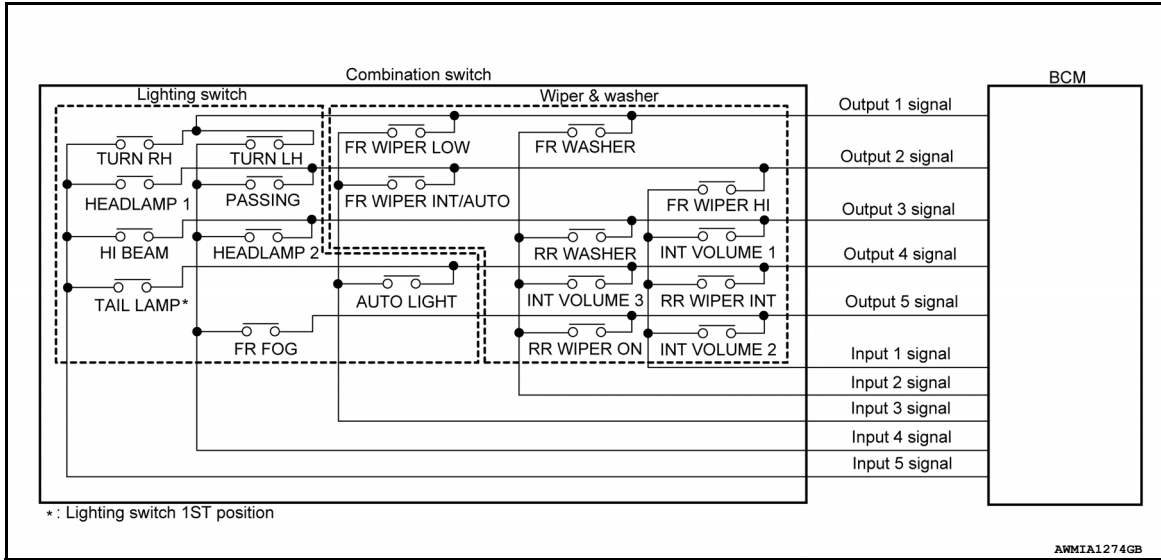
[BCM]

< SYSTEM DESCRIPTION >

COMBINATION SWITCH READING SYSTEM : System Description

INFOID:000000011216942

SYSTEM DIAGRAM

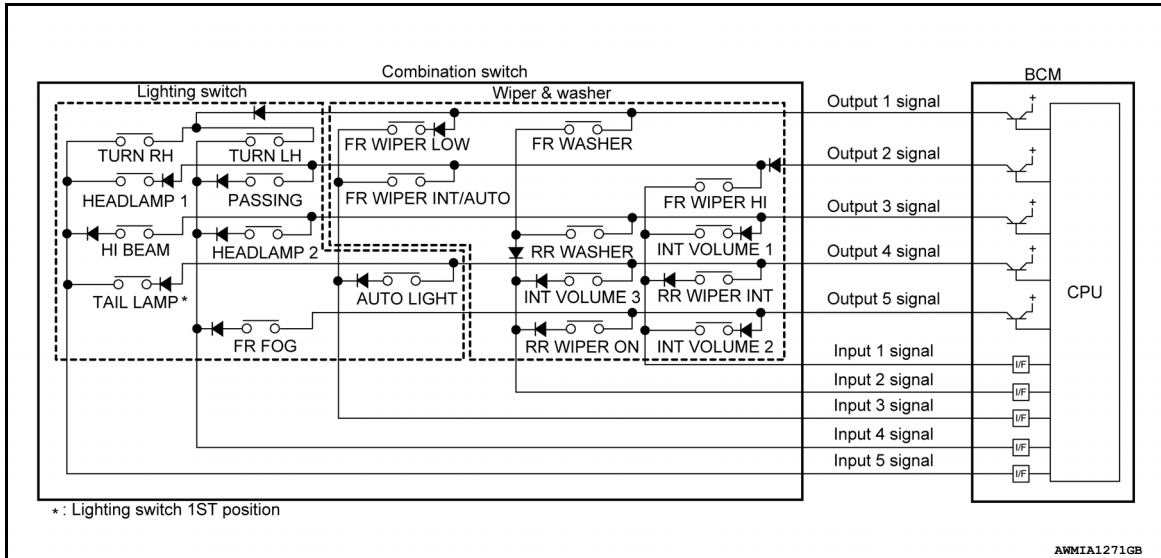


OUTLINE

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

COMBINATION SWITCH MATRIX

Combination switch circuit



Combination switch INPUT-OUTPUT system list

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

COMBINATION SWITCH READING FUNCTION

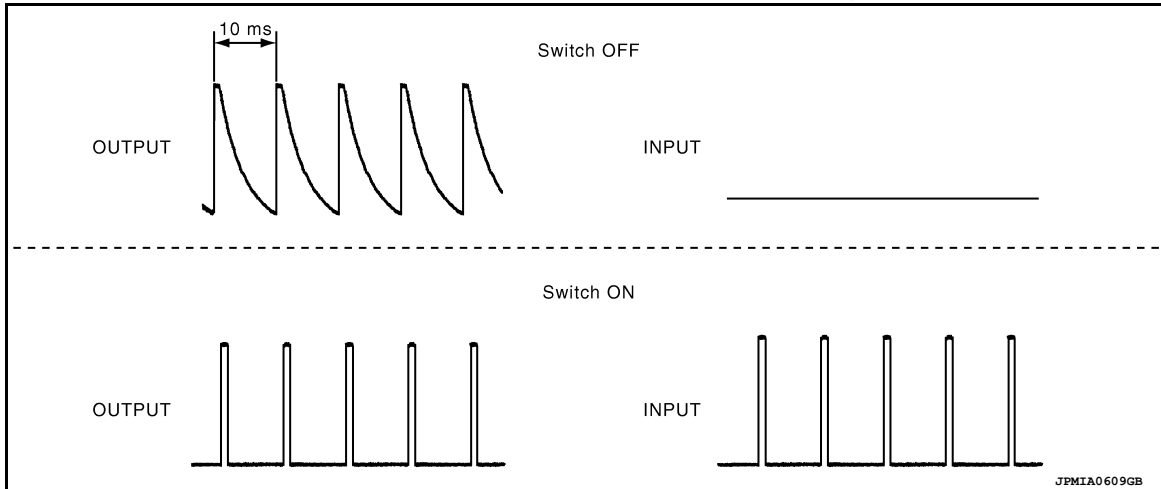
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Description

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



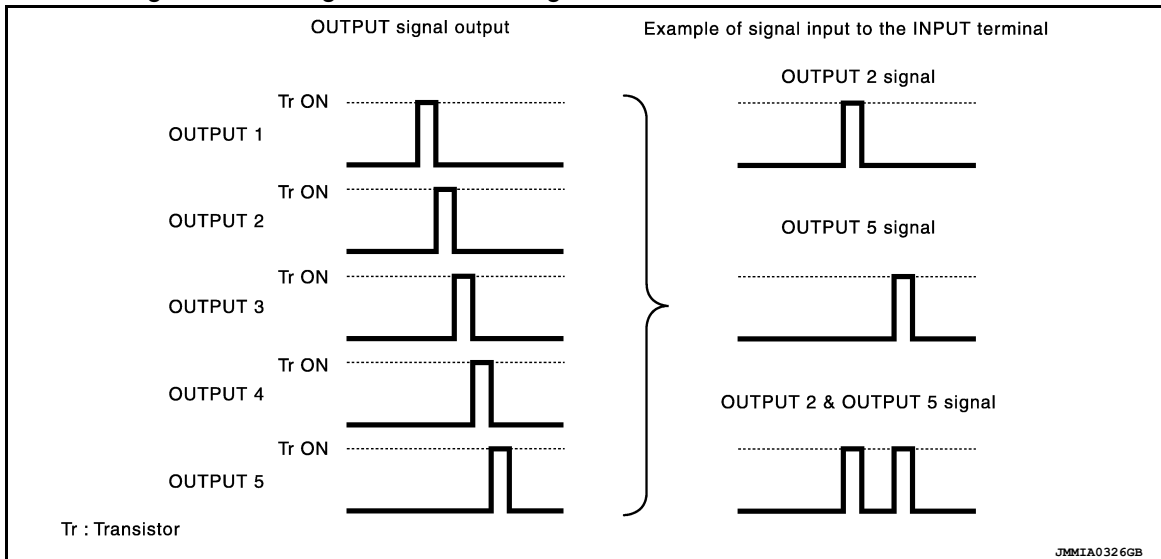
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NOTE:

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

- BCM operates as follows and judges the status of the combination switch.
 - It operates the transistor on OUTPUT side in the following order: OUTPUT 1 → 2 → 3 → 4 → 5, and outputs voltage waveform.
 - The voltage waveform of OUTPUT corresponding to the formed circuit is input into the interface on INPUT side if any (1 or more) switches are ON.
 - It reads this change of the voltage as the status signal of the combination switch.

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Operation Example

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

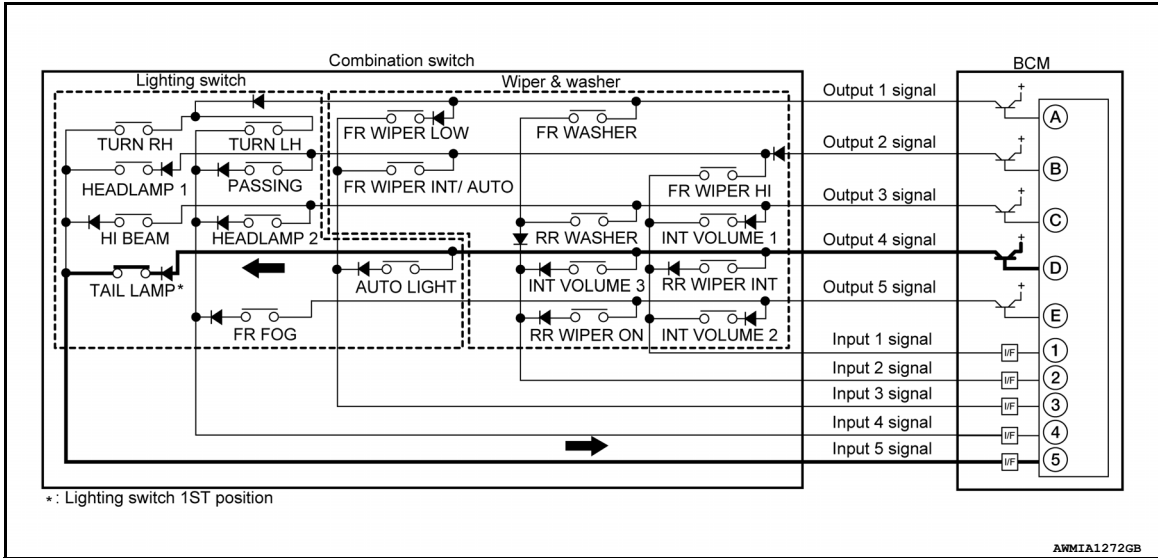
Example 1: When a switch (TAIL LAMP) is turned ON

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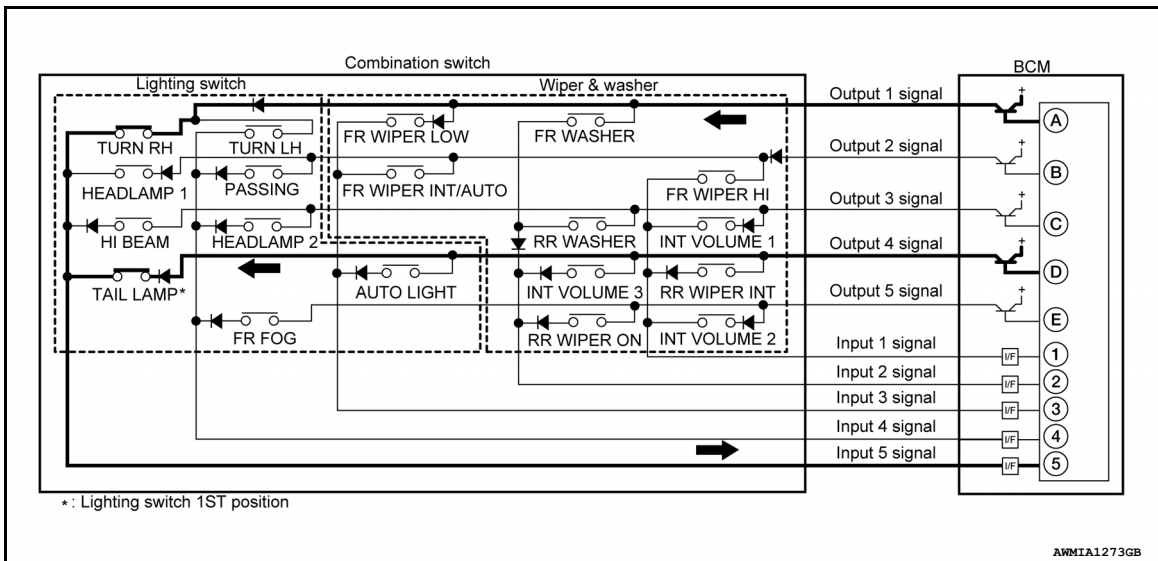
- The circuit between OUTPUT 4 and INPUT 5 is formed when the TAIL LAMP switch is turned ON.



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

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

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



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

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

| Wiper intermittent 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 |

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< SYSTEM DESCRIPTION >

[BCM]

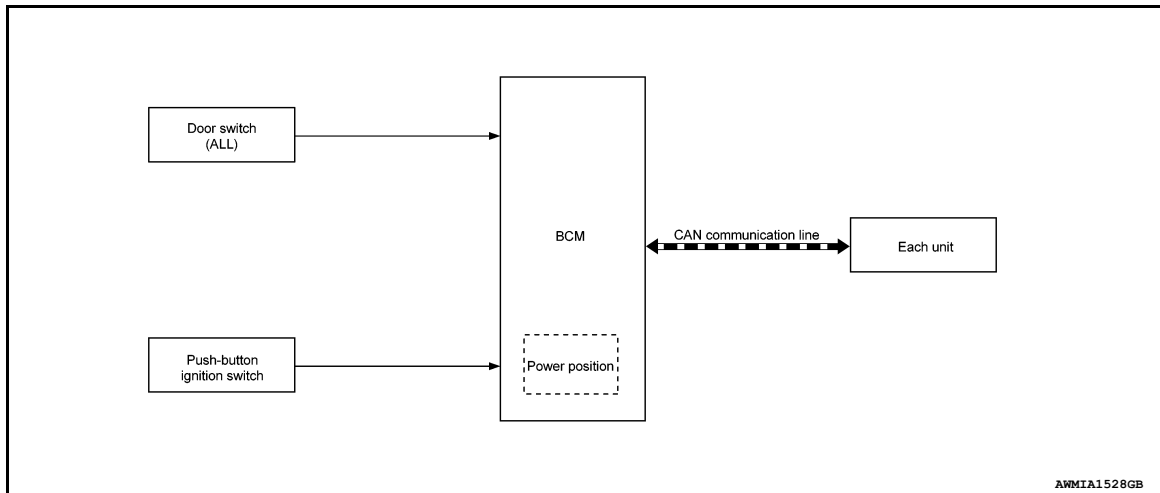
| Wiper intermittent dial position | Switch status | | |
|----------------------------------|---------------|--------------|--------------|
| | INT VOLUME 1 | INT VOLUME 2 | INT VOLUME 3 |
| 6 | OFF | ON | ON |
| 7 | OFF | ON | OFF |

SIGNAL BUFFER SYSTEM

SIGNAL BUFFER SYSTEM : System Description

INFOID:000000011216944

SYSTEM DIAGRAM



OUTLINE

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

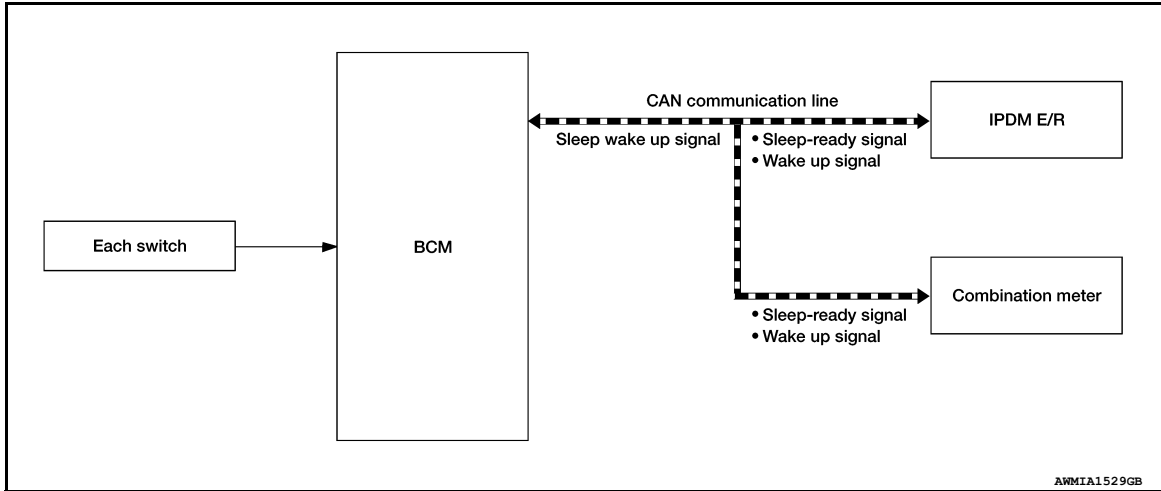
Signal transmission function list

| Signal name | Input | Output | Description |
|---|-----------------------------|---|---|
| <ul style="list-style-type: none"> Ignition switch ON signal Ignition switch signal | Engine switch (push switch) | IPDM E/R (CAN) | Inputs the push-button ignition switch (push switch) signal and transmits the ignition switch status judged with BCM via CAN communication. |
| Door switch signal | Any door switch | <ul style="list-style-type: none"> Combination meter (CAN) IPDM E/R (CAN) | Inputs the door switch signal and transmits it via CAN communication. |

POWER CONSUMPTION CONTROL SYSTEM

BCS

SYSTEM DIAGRAM



OUTLINE

- BCM incorporates a power saving control function that reduces the power consumption according to the vehicle status.
- BCM switches the status (control mode) by itself with the power saving control function. It performs the sleep request to each unit (IPDM E/R and combination meter) that operates with the ignition switch OFF.

Normal mode (wake-up)

- CAN communication is normally performed with other units
- Each control with BCM is operating properly

CAN communication sleep mode (CAN sleep)

- CAN transmission is stopped
- Control with BCM only is operating

Low power consumption mode (BCM sleep)

- Low power consumption control is active
- CAN transmission is stopped

LOW POWER CONSUMPTION CONTROL WITH BCM

BCM reduces the power consumption with the following operation in the low power consumption mode.

- The reading interval of each switch changes from a 10 ms interval to a 60 ms interval.

Sleep mode activation

- BCM receives the sleep-ready signal (ready) from IPDM E/R and combination meter via CAN communication.
- BCM transmits the sleep wake up signal (sleep) to each unit when all of the CAN sleep conditions are fulfilled.
- Each unit stops the transmission of CAN communication with the sleep wakeup signal. BCM is in CAN communication sleep mode.
- BCM is in the low power consumption mode and performs the low power consumption control when all of the BCM sleep conditions are fulfilled with CAN sleep condition.

SYSTEM

< SYSTEM DESCRIPTION >

[BCM]

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 alarm and panic alarm: No operation • Warning lamp: No operation • Intelligent Key system buzzer: No operation • Brake switch: OFF • Turn signal indicator lamp: No operation • Exterior lamp: OFF • Door lock status: No change • CONSULT communication status: No communication • Meter display signal: Non-transmission • Door switch status: No change • Rear window defogger: OFF | <ul style="list-style-type: none"> • Interior room lamp battery saver: Time out • RAP system: OFF • Power window switch communication: No transmission • Push-button ignition switch (push switch) illumination: OFF • NATS: No operation • Remote keyless entry receiver communication status: No communication • Tire pressure monitoring system: Stop | <p>A</p> <p>B</p> <p>C</p> <p>D</p> |

Wake-up operation

- BCM changes from the low power consumption mode to the CAN communication sleep mode when the any of the BCM wake-up conditions are fulfilled. Only the control with BCM is activated.
- BCM transmits the sleep wake up signal (wake up) to each unit when any of the CAN wake-up conditions are fulfilled. It changes from the low power consumption mode or the CAN communication sleep mode to the normal mode.
- Each unit starts the transmission of CAN communication with the sleep wake up signal. In addition, the combination meter transmits the wake up signal to BCM via CAN communication to report the CAN communication start.

| BCM wake-up condition | CAN wake-up condition | |
|--|---|-------------------------------------|
| <ul style="list-style-type: none"> • Door unlock sensor: OFF→ON, ON→OFF • Door lock assembly LH (key cylinder switch): Lock or unlock • Door lock switch: OFF→ON • Door unlock switch: OFF→ON • Back door opener switch: OFF→ON • Power window serial link communication: Receiving • Remote keyless entry receiver: Receiving valid keyfob | <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: OFF→ON • PASSING switch: OFF→ON, ON→OFF • TAIL LAMP switch: OFF→ON • Front door switch LH: OFF→ON, ON→OFF • Front door switch RH: OFF → ON, ON → OFF • Back door opener switch: OFF→ON, ON→OFF • Driver door request switch: OFF→ON • Passenger door request switch: OFF→ON • Back door request switch: OFF→ON • Stop lamp switch signal: ON • Remote keyless entry receiver: Receiving valid keyfob | <p>I</p> <p>J</p> <p>K</p> <p>L</p> |

SHIPPING MODE CONTROL SYSTEM

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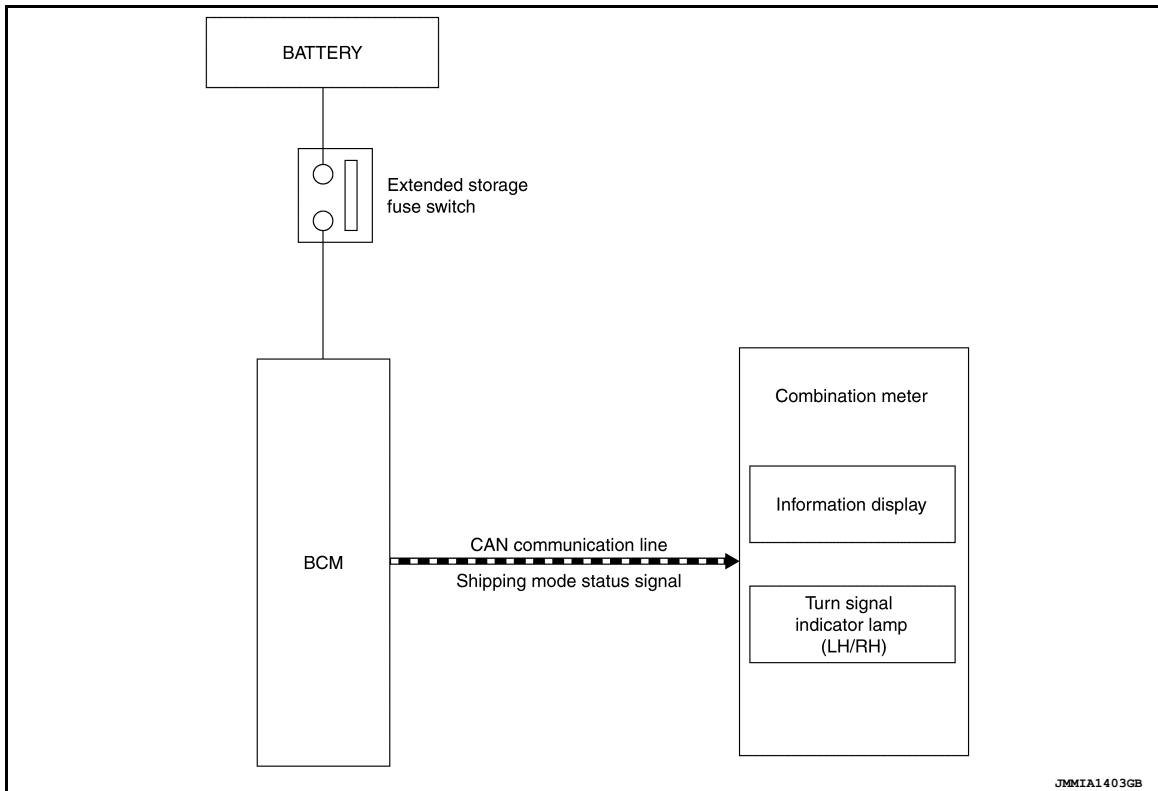
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SHIPPING MODE CONTROL SYSTEM : System Description

INFOID:000000011772780

SYSTEM DIAGRAM



DESCRIPTION

- The BCM switches the status (shipping mode or normal mode) by itself according to the extended storage switch condition, and transmits the shipping mode status signal to the combination meter and each unit via CAN communication.
- When the shipping mode function is activated, the control units will not detect DTCs.
- BCM control functions are limited in shipping mode. Refer to [BCS-81, "Description"](#).
- When the BCM is in shipping mode, a message may be shown in the combination meter or display.
- For shipping mode cancel operation refer to [BCS-67, "Work Procedure"](#).

TRANSIT MODE CONTROL SYSTEM

TRANSIT MODE CONTROL SYSTEM : System Description

INFOID:000000011772781

DESCRIPTION

Transit mode is a BCM function that disables several electrical functions such as door lock/unlock by remote, back door open by remote, panic alarm, anti-theft alarm, etc. Vehicles are shipped with the BCM in transit mode to help prevent the battery from becoming discharged during dealer storage.

DETERMINING TRANSIT MODE STATUS

Use the table below to determine the transit mode status.

| Status | Symptom |
|-----------------------------------|---|
| Transit Mode | When ignition switch is turned from OFF to ON, turn signal indicators will illuminate for 1 minute. |
| Normal Mode (not in transit mode) | When ignition switch is turned from OFF to ON, turn signal indicators stay OFF (do not illuminate). |

CANCELING TRANSIT MODE

NOTE:

Transit mode can only be canceled. Once transit mode has been canceled, it cannot be activated again. To cancel transit mode, refer to [BCS-68, "Description"](#).

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[BCM]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000011216947

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

| Direct Diagnostic Mode | Description |
|------------------------|--|
| ECU Identification | The BCM part number is displayed. |
| Self Diagnostic Result | The BCM self diagnostic results are displayed. |
| Data Monitor | The BCM input/output data is displayed in real time. |
| Active Test | The BCM activates outputs to test components. |
| Work support | The settings for BCM functions can be changed. |
| Configuration | <ul style="list-style-type: none"> The vehicle specification can be read and saved. The vehicle specification can be written when replacing BCM. |
| CAN Diag Support Mntr | The result of transmit/receive diagnosis of CAN communication is displayed. |

SYSTEM APPLICATION

BCM can perform the following functions:

| System | Sub System | Direct Diagnostic Mode | | | | | | |
|--------------------------------------|----------------------|------------------------|------------------------|--------------|-------------|--------------|---------------|-----------------------|
| | | ECU Identification | Self Diagnostic Result | Data Monitor | Active Test | Work support | Configuration | CAN Diag Support Mntr |
| Door lock | DOOR LOCK | | x | x | x | x | | |
| Rear window defogger | REAR DEFOGGER | | | x | x | x | | |
| Warning chime | BUZZER | | | x | x | | | |
| Interior room lamp timer | INT LAMP | | | x | x | x | | |
| Exterior lamp | HEADLAMP | | | x | x | x | | |
| Wiper and washer | WIPER | | | x | x | x | | |
| Turn signal and hazard warning lamps | FLASHER | | | x | x | x | | |
| Air conditioner | AIR CONDITIONER | | | x | | | | |
| Intelligent Key system | INTELLIGENT KEY | | x | x | x | x | | |
| Combination switch | COMB SW | | | x | | | | |
| BCM | BCM | x | x | | | x | x | x |
| Immobilizer | IMMU | | x | x | x | | | |
| Interior room lamp battery saver | BATTERY SAVER | | | x | x | | | |
| Back door open | TRUNK | | | x | | | | |
| Vehicle security system | THEFT ALM | | | x | x | x | | |
| RAP system | RETAINED PWR | | | x | | | | |
| Signal buffer system | SIGNAL BUFFER | | | x | x | | | |
| TPMS | AIR PRESSURE MONITOR | | x | x | x | | | |

FREEZE FRAME DATA (FFD)

DIAGNOSIS SYSTEM (BCM)

[BCM]

< SYSTEM DESCRIPTION >

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

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

NOTE:

*: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position, and any of the following conditions are met:

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

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

DOOR LOCK

DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)

INFOID:0000000011216948

SELF DIAGNOSTIC RESULT

Refer to [BCS-52, "DTC Index"](#).

DIAGNOSIS SYSTEM (BCM)

[BCM]

< SYSTEM DESCRIPTION >

DATA MONITOR

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

ACTIVE TEST

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

WORK SUPPORT

| Support Item | Setting | Description |
|-------------------------|---------|---|
| DOOR LOCK-UNLOCK SET | On* | Automatic door locks function ON. |
| | Off | Automatic door locks function OFF. |
| AUTO UNLOCK TYPE | MODE2 | Driver door only unlocks automatically. |
| | MODE1* | All doors unlock automatically. |
| AUTO LOCK FUNCTION | MODE3 | This mode is not used. |
| | MODE2 | Doors lock automatically when shifted out of P (park). |
| | MODE1* | Doors lock automatically when vehicle speed reaches 24 km/h (15 mph). |
| AUTO UNLOCK FUNCTION | Off | — |
| | MODE3 | This mode is not used. |
| | MODE2 | Doors unlock automatically when shifted into P (park). |
| | MODE1* | Doors unlock automatically when ignition is switched from ON to OFF. |
| SIGNATURE LIGHT SETTING | Off | — |
| | On* | Signature light setting ON. |
| | Off | Signature light setting OFF. |

* : Initial setting

REAR DEFOGGER

REAR DEFOGGER : CONSULT Function (BCM - REAR DEFOGGER)

INFOID:000000011216949

DATA MONITOR

| Monitor Item [Unit] | Description |
|----------------------|---|
| PUSH SW [On/Off] | Indicates condition of push-button ignition switch. |
| REAR DEF SW [On/Off] | Indicates condition of rear window defogger switch. |

ACTIVE TEST

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[BCM]

| Test Item | Description |
|---------------|---|
| REAR DEFOGGER | This test is able to check rear window defogger operation [Off/On]. |

WORK SUPPORT

| Support Item | Setting | Description |
|-----------------|---------|--|
| SET R-DEF TIMER | MODE3 | Rear defogger turns OFF after 1 minute. |
| | MODE2 | Rear defogger remains ON until turned OFF. |
| | MODE1* | Rear defogger turns OFF after 15 minutes. |

* : Initial setting

BUZZER

BUZZER : CONSULT Function (BCM - BUZZER)

INFOID:000000011216950

DATA MONITOR

| Monitor Item [Unit] | Description |
|-----------------------|---|
| PUSH SW [On/Off] | Indicates condition of push-button ignition switch. |
| UNLK SEN -DR [On/Off] | Indicates condition of door unlock sensor. |
| VEH SPEED 1 [km/h] | Indicates vehicle speed signal received from ABS on CAN communication line. |
| TAIL LAMP SW [On/Off] | Indicates condition of combination switch. |
| FR FOG SW [On/Off] | Indicates condition of front fog lamp switch. |
| DOOR SW-DR [On/Off] | Indicates condition of front door switch LH. |
| CDL LOCK SW [On/Off] | Indicates condition of lock signal from door lock and unlock switch. |

ACTIVE TEST

| Test Item | Description |
|---------------------|--|
| SEAT BELT WARN TEST | This test is able to check seat belt warning chime operation [On/Off]. |
| LIGHT WARN ALM | This test is able to check light warning chime operation [On/Off]. |
| REVERSE WARNING | This test is able to check reverse warning chime operation [On/Off]. |

INT LAMP

INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:000000011216951

DATA MONITOR

| Monitor Item [Unit] | Description |
|-----------------------|---|
| REQ SW -DR [On/Off] | Indicates condition of door request switch LH. |
| REQ SW -AS [On/Off] | Indicates condition of door request switch RH. |
| REQ SW -RR [On/Off] | Indicates condition of rear door request switch RH. |
| REQ SW -RL [On/Off] | Indicates condition of rear door request switch LH. |
| PUSH SW [On/Off] | Indicates condition of push-button ignition switch. |
| UNLK SEN -DR [On/Off] | Indicates condition of door unlock sensor. |
| DOOR SW-DR [On/Off] | Indicates condition of front door switch LH. |
| DOOR SW-AS [On/Off] | Indicates condition of front door switch RH. |
| DOOR SW-RR [On/Off] | Indicates condition of rear door switch RH. |
| DOOR SW-RL [On/Off] | Indicates condition of rear door switch LH. |
| DOOR SW-BK [On/Off] | Indicates condition of back door switch. |

DIAGNOSIS SYSTEM (BCM)

[BCM]

< SYSTEM DESCRIPTION >

| Monitor Item [Unit] | Description |
|------------------------|--|
| CDL LOCK SW [On/Off] | Indicates condition of lock signal from door lock and unlock switch. |
| CDL UNLOCK SW [On/Off] | Indicates condition of unlock signal from door lock and unlock switch. |
| KEY CYL LK-SW [On/Off] | Indicates condition of lock signal from door key cylinder switch. |
| KEY CYL UN-SW [On/Off] | Indicates condition of unlock signal from door key cylinder switch. |
| TRNK/KAT MNTR [On/Off] | Indicates condition of luggage room lamp switch. |
| RKE-LOCK [On/Off] | Indicates condition of lock signal from Intelligent Key. |
| RKE-UNLOCK [On/Off] | Indicates condition of unlock signal from Intelligent Key. |

ACTIVE TEST

| Test Item | Description |
|----------------|---|
| INT LAMP | This test is able to check interior room lamp operation [On/Off]. |
| STEP LAMP TEST | This test is able to check step lamp operation [On/Off]. |

WORK SUPPORT

NOTE:

The items listed below are the only applicable Work Support items for this vehicle. If other items are displayed on CONSULT, do not use or change the setting for these other items.

| Support Item | Setting | Description |
|---------------------------|---------|---|
| SCENARIO LIGHTING SETTING | On | NOTE: Do not use this function since interior room lamp control is changed. |
| | Off* | |
| FOG LAMP OVERRIDE | On* | Fog lamp override function ON. |
| | Off | Fog lamp override function OFF. |

* : Initial setting

HEADLAMP

HEADLAMP : CONSULT Function (BCM - HEADLAMP)

INFOID:0000000011216952

DATA MONITOR

| Monitor Item [Unit] | Description |
|-------------------------------------|---|
| PUSH SW [On/Off] | Indicates condition of push-button ignition switch. |
| ENGINE STATE [Stop/Stall/Crank/Run] | Indicates engine status received from ECM on CAN communication line. |
| VEH SPEED 1 [km/h] | Indicates vehicle speed signal received from ABS on CAN communication line. |
| TURN SIGNAL R [On/Off] | Indicates condition of combination switch. |
| TURN SIGNAL L [On/Off] | |
| TAIL LAMP SW [On/Off] | |
| HI BEAM SW [On/Off] | |
| HEAD LAMP SW 1 [On/Off] | |
| HEAD LAMP SW 2 [On/Off] | |
| PASSING SW [On/Off] | |
| AUTO LIGHT SW [On/Off] | |
| FR FOG SW [On/Off] | |
| DOOR SW-DR [On/Off] | |
| DOOR SW-AS [On/Off] | Indicates condition of front door switch RH. |
| DOOR SW-RR [On/Off] | Indicates condition of rear door switch RH. |
| DOOR SW-RL [On/Off] | Indicates condition of rear door switch LH. |

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DIAGNOSIS SYSTEM (BCM)

[BCM]

< SYSTEM DESCRIPTION >

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

ACTIVE TEST

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

WORK SUPPORT

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

* : Initial setting

WIPER

WIPER : CONSULT Function (BCM - WIPER)

INFOID:000000011216953

DATA MONITOR

| Monitor Item [Unit] | Description |
|------------------------|--|
| PUSH SW [On/Off] | Indicates condition of push-button ignition switch. |
| VEH SPEED 1 [km/h] | Indicates vehicle speed signal received from ABS on CAN communication line. |
| FR WIPER HI [On/Off] | Indicates condition of wiper operation of combination switch. |
| FR WIPER LOW [On/Off] | |
| FR WASHER SW [On/Off] | |
| FR WIPER INT [On/Off] | |
| FR WIPER STOP [On/Off] | Indicates front wiper auto stop signal received from IPDM E/R on CAN communication line. |

DIAGNOSIS SYSTEM (BCM)

[BCM]

< SYSTEM DESCRIPTION >

| Monitor Item [Unit] | Description |
|------------------------|--|
| INT VOLUME [1 - 7] | Indicates condition of intermittent wiper operation of combination switch. |
| RR WIPER ON [On/Off] | Indicates condition of rear wiper operation of combination switch. |
| RR WIPER INT [On/Off] | |
| RR WASHER SW [On/Off] | |
| RR WIPER STOP [On/Off] | Indicates rear wiper motor auto stop input from rear wiper motor. |

ACTIVE TEST

| Test Item | Description |
|-----------|---|
| FR WIPER | This test is able to check front wiper operation [Hi/Lo/INT/Off]. |
| RR WIPER | This test is able to check rear wiper operation [On/Off]. |

WORK SUPPORT

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

* : Initial setting

FLASHER

FLASHER : CONSULT Function (BCM - FLASHER)

INFOID:0000000011216954

DATA MONITOR

| Monitor Item [Unit] | Description |
|------------------------|--|
| REQ SW -DR [On/Off] | Indicates condition of door request switch LH. |
| REQ SW -AS [On/Off] | Indicates condition of door request switch RH. |
| PUSH SW [On/Off] | Indicates condition of push-button ignition switch. |
| TURN SIGNAL R [On/Off] | Indicates condition of turn signal function of combination switch. |
| TURN SIGNAL L [On/Off] | |
| HAZARD SW [On/Off] | Indicates condition of hazard switch. |
| RKE-LOCK [On/Off] | Indicates condition of lock signal from Intelligent Key. |
| RKE-UNLOCK [On/Off] | Indicates condition of unlock signal from Intelligent Key. |
| RKE-PANIC [On/Off] | Indicates condition of panic alarm signal from Intelligent Key. |

ACTIVE TEST

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

WORK SUPPORT

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

* : Initial setting

AIR CONDITIONER

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[BCM]

AIR CONDITIONER : CONSULT Function (BCM - AIR CONDITIONER)

INFOID:000000011216955

DATA MONITOR

| Monitor Item [Unit] | Description |
|----------------------|------------------------------------|
| FAN ON SIG [On/Off] | Indicates condition of fan switch. |
| AIR COND SW [On/Off] | Indicates condition of A/C switch. |

INTELLIGENT KEY

INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)

INFOID:000000011216956

SELF DIAGNOSTIC RESULT

Refer to [BCS-52. "DTC Index"](#).

DATA MONITOR

| Monitor Item [Unit] | Main | Description |
|--|------|--|
| REQ SW -DR [On/Off] | × | Indicates condition of door request switch LH. |
| REQ SW -AS [On/Off] | × | Indicates condition of door request switch RH. |
| REQ SW -BD/TR [On/Off] | × | Indicates condition of back door request switch. |
| PUSH SW [On/Off] | | Indicates condition of push-button ignition switch. |
| SHIFTLOCK SOLENOID PWR SUPPLY [On/Off] | × | Indicates condition of power supply to shiftlock solenoid. |
| BRAKE SW 1 [On/Off] | × | Indicates condition of brake switch. |
| BRAKE SW 2 [On/Off] | | Indicates condition of brake switch. |
| DETE/CANCL SW [On/Off] | × | Indicates condition of P (park) position. |
| SFT PN/N SW [On/Off] | × | Indicates condition of P (park) or N (neutral) position. |
| UNLK SEN -DR [On/Off] | × | Indicates condition of door unlock sensor. |
| PUSH SW -IPDM [On/Off] | | Indicates condition of push-button ignition switch received from IPDM E/R on CAN communication line. |
| IGN RLY1 -F/B [On/Off] | | Indicates condition of ignition relay 1 received from IPDM E/R on CAN communication line. |
| DETE SW -IPDM [On/Off] | | Indicates condition of park position switch received from TCM on CAN communication line. |
| SFT PN -IPDM [On/Off] | | Indicates condition of P (park) or N (neutral) position from TCM on CAN communication line. |
| SFT P -MET [On/Off] | | Indicates condition of P (park) position from TCM on CAN communication line. |
| SFT N -MET [On/Off] | | Indicates condition of N (neutral) position from IPDM E/R on CAN communication line. |
| ENGINE STATE [Stop/Start/Crank/Run] | × | Indicates condition of engine state from ECM on CAN communication line. |
| VEH SPEED 1 [mph/km/h] | × | Indicates condition of vehicle speed signal received from ABS on CAN communication line. |
| VEH SPEED 2 [mph/km/h] | × | Indicates condition of vehicle speed signal received from combination meter on CAN communication line. |
| DOOR STAT -DR [LOCK/READY/UNLK] | × | Indicates condition of driver side door status. |
| DOOR STAT -AS [LOCK/READY/UNLK] | × | Indicates condition of passenger side door status. |
| DOOR STAT -RR [LOCK/READY/UNLK] | × | Indicates condition of rear right side door status. |
| DOOR STAT -RL [LOCK/READY/UNLK] | × | Indicates condition of rear left side door status. |
| BK DOOR STATE [LOCK/READY/UNLK] | × | Indicates condition of back door status. |
| ID OK FLAG [Set/Reset] | | Indicates condition of Intelligent Key ID. |
| PRMT ENG STRT [Set/Reset] | | Indicates condition of engine start possibility. |

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[BCM]

| Monitor Item [Unit] | Main | Description |
|---|------|--|
| PRMT RKE STRT [Set/Reset] | | Indicates condition of engine start possibility from Intelligent Key. |
| I-KEY OK FLAG [Key ON/Key OFF] | × | Indicates condition of Intelligent Key OK flag. |
| PRBT ENG STRT [Set/Reset] | | Indicates condition of engine start prohibit. |
| ID AUTHENTICATION CANCEL TIMER [under a stop] | | Indicates condition of Intelligent Key ID authentication. |
| ACC BATTERY SAVER [under a stop] | | Indicates condition of battery saver. |
| CRNK PRBT TMR [On/Off] | | Indicates condition of crank prohibit timer. |
| AUT CRNK TMR [On/Off] | | Indicates condition of automatic engine crank timer from Intelligent Key. |
| CRANKING TME [sec] | | Indicates condition of engine cranking time from Intelligent Key. |
| ST RLY -REQ | | Indicates condition of starter relay. |
| IGN RLY 1 -REQ | | Indicates condition of ignition 1 relay. |
| IGN RLY 2 -REQ | | Indicates condition of ignition 2 relay. |
| DETE SW PWR [On/Off] | | Indicates condition of park position switch voltage. |
| ACC RLY -REQ [On/Off] | | Indicates condition of accessory relay control request. |
| RKE OPE COUN1 [0-19] | × | When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing. |
| RKE OPE COUN2 [0-19] | × | When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing. |
| TRNK/HAT MNTR [On/Off] | | Indicates condition of luggage room lamp switch. |
| RKE-LOCK [On/Off] | | Indicates condition of lock signal from Intelligent Key. |
| RKE-UNLOCK [On/Off] | | Indicates condition of unlock signal from Intelligent Key. |
| RKE-TR/BD [On/Off] | | Indicates condition of back door open signal from Intelligent Key. |
| RKE-PANIC [On/Off] | | Indicates condition of panic signal from Intelligent Key. |
| RKE-MODE CHG [On/Off] | | Indicates condition of mode change signal from Intelligent Key. |
| RKE PBD | | Indicates condition of power back door signal from Intelligent Key. |

ACTIVE TEST

| Test Item | Description |
|----------------------------|--|
| INTELLIGENT KEY LINK (CAN) | This test is able to check Intelligent Key identification number [Off/ID No1/ID No2/ID No3/ID No4/ID No5]. |
| INT LAMP | This test is able to check interior room lamp operation [On/Off]. |
| FLASHER | This test is able to check hazard lamp operation [LH/RH/Off]. |
| HORN | This test is able to check horn operation [On]. |
| BATTERY SAVER | This test is able to check battery saver operation [On/Off]. |
| TRUNK/BACK DOOR | This test is able to check back door actuator operation [Open]. |
| OUTSIDE BUZZER | This test is able to check Intelligent Key warning buzzer operation [On/Off]. |
| INSIDE BUZZER | This test is able to check combination meter warning chime operation [Take Out/Knob/Key/Off]. |
| INDICATOR | This test is able to check combination meter warning lamp operation [KEY ON/KEY IND/Off]. |
| IGN CONT2 | This test is able to check ignition relay-2 control operation [On/Off]. |
| ENGINE SW ILLUMI | This test is able to check push-button ignition switch START indicator operation [On/Off]. |
| PUSH SWITCH INDICATOR | This test is able to check push-button ignition switch indicator operation [On/Off]. |
| ACC CONT | This test is able to check accessory relay control operation [On/Off]. |
| IGN CONT1 | This test is able to check ignition relay-1 control operation [On/Off]. |
| ST CONT LOW | This test is able to check starter control relay operation [On/Off]. |
| IGNITION RELAY | This test is able to check ignition relay operation [On/Off]. |

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[BCM]

| Test Item | Description |
|-------------------------|--|
| REVERSE LAMP TEST | This test is able to check reverse lamp illumination operation [On/Off]. |
| DOOR HANDLE LAMP TEST | This test is able to check door handle lamp illumination operation [On/Off]. |
| TRUNK/LUGGAGE LAMP TEST | This test is able to check cargo lamp illumination operation [On/Off]. |
| KEYFOB PW TEST | This test is able to check power window operation using the Intelligent Key [P/W up/down OFF/Send P/W down ON/Send P/W up ON]. |
| SHIFTLOCK SOLENOID TEST | This test is able to check shift lock solenoid operation [On/Off]. |
| DR SEAT LAMP TEST | This test is able to check driver seat lamp illumination operation [On/Off]. |
| AS SEAT LAMP TEST | This test is able to check passenger seat lamp illumination operation [On/Off]. |
| SHIFT SPOT LAMP TEST | This test is able to check shift spot lamp illumination operation [On/Off]. |

WORK SUPPORT

| Support Item | Setting | Description |
|--------------------------------|---------|---|
| IGN/ACC BATTERY SAVER | On* | Battery saver function ON. |
| | Off | Battery saver function OFF. |
| REMOTE ENGINE STARTER | On* | Remote engine start function ON. |
| | Off | Remote engine start function OFF. |
| ANSWERBACK I-KEY LOCK UNLOCK | BUZZER* | Buzzer reminder function by door lock/unlock request switch ON. |
| | HORN | Horn chirp reminder function by door lock request switch ON. |
| | Off | No reminder function by door lock/unlock request switch. |
| | INVALID | This mode is not used. |
| ANSWERBACK KEYLESS LOCK UNLOCK | On* | Buzzer or horn chirp reminder when doors are locked/unlocked with Intelligent Key. |
| | Off | No buzzer or horn chirp reminder when doors are locked/unlocked with Intelligent Key. |
| ANSWER BACK | On* | Horn chirp reminder when doors are locked with Intelligent Key. |
| | Off | No horn chirp reminder when doors are locked with Intelligent Key. |
| RETRACTABLE MIRROR SET | On | Retractable mirror set ON. |
| | Off* | Retractable mirror set OFF. |
| LOCK/UNLOCK BY I-KEY | On* | Door lock/unlock function from Intelligent Key ON. |
| | Off | Door lock/unlock function from Intelligent Key OFF. |
| ENGINE START BY I-KEY | On* | Engine start function from Intelligent Key ON. |
| | Off | Engine start function from Intelligent Key OFF. |
| TRUNK/GLASS HATCH OPEN | On* | Buzzer reminder function by back door request switch ON. |
| | Off | Buzzer reminder function by back door request switch OFF. |
| CONFIRM KEY FOB ID | — | Intelligent Key ID code can be checked. |
| SHORT CRANKING OUTPUT | Start | 70 msec |
| | | 100 msec |
| | | 200 msec |
| End | — | |
| INSIDE ANT DIAGNOSIS | — | This function allows inside key antenna self-diagnosis. |

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[BCM]

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

*: Initial Setting

COMB SW

COMB SW : CONSULT Function (BCM - COMB SW)

INFOID:000000011216957

DATA MONITOR

| Monitor Item [Unit] | Description |
|-------------------------|---|
| FR WIPER HI [On/Off] | Indicates condition of wiper operation of combination switch. |
| FR WIPER LOW [On/Off] | |
| FR WASHER SW [On/Off] | |
| FR WIPER INT [On/Off] | |
| INT VOLUME [1 - 7] | Indicates condition of intermittent wiper operation of combination switch. |
| RR WIPER ON [On/Off] | Indicates condition of rear wiper operation of combination switch. |
| RR WIPER INT [On/Off] | |
| RR WASHER SW [On/Off] | |
| TURN SIGNAL R [On/Off] | Indicates condition of right turn signal operation of combination switch. |
| TURN SIGNAL L [On/Off] | Indicates condition of left turn signal operation of combination switch. |
| TAIL LAMP SW [On/Off] | Indicates condition of tail lamp switch operation of combination switch. |
| HI BEAM SW [On/Off] | Indicates condition of high beam switch operation of combination switch. |
| HEAD LAMP SW 1 [On/Off] | Indicates condition of head lamp switch 1 operation of combination switch. |
| HEAD LAMP SW 2 [On/Off] | Indicates condition of head lamp switch 2 operation of combination switch. |
| PASSING SW [On/Off] | Indicates condition of passing switch operation of combination switch. |
| AUTO LIGHT SW [On/Off] | Indicates condition of auto light switch operation of combination switch. |
| FR FOG SW [On/Off] | Indicates condition of front fog lamp switch operation of combination switch. |

BCM

BCM : CONSULT Function (BCM - BCM)

INFOID:000000011216958

ECU IDENTIFICATION

The BCM part number is displayed.

SELF DIAGNOSTIC RESULT

Refer to [BCS-52. "DTC Index"](#).

WORK SUPPORT

| Support Item | Setting | Description |
|---------------------|---------|---|
| RESET SETTING VALUE | Reset | Returns BCM to initial value in factory shipment. |
| | Cancel | Cancels the reset function. |

CONFIGURATION

Refer to [BCS-65. "CONFIGURATION \(BCM\) : Description"](#).

DIAGNOSIS SYSTEM (BCM)

[BCM]

< SYSTEM DESCRIPTION >

CAN DIAG SUPPORT MNTR

Refer to [LAN-18. "CAN Diagnostic Support Monitor"](#).

IMMU

IMMU : CONSULT Function (BCM - IMMU)

INFOID:000000011216959

SELF DIAGNOSTIC RESULT

Refer to [BCS-52. "DTC Index"](#).

DATA MONITOR

| Monitor Item [Unit] | Description |
|---------------------------|--|
| CONFIRM ID ALL [Yet/DONE] | Switches to DONE when an Intelligent Key is registered. |
| CONFIRM ID4 [Yet/DONE] | |
| CONFIRM ID3 [Yet/DONE] | |
| CONFIRM ID2 [Yet/DONE] | |
| CONFIRM ID1 [Yet/DONE] | |
| TP 4 [Yet/DONE] | DONE indicates the number of the Intelligent Key ID which has been registered. |
| TP 3 [Yet/DONE] | |
| TP 2 [Yet/DONE] | |
| TP 1 [Yet/DONE] | |
| PUSH SW [On/Off] | Indicates condition of push-button ignition switch. |

ACTIVE TEST

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

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:000000011216960

DATA MONITOR

| Monitor Item [Unit] | Description |
|------------------------|--|
| REQ SW -DR [On/Off] | Indicates condition of door request switch LH. |
| REQ SW -AS [On/Off] | Indicates condition of door request switch RH. |
| REQ SW -RR [On/Off] | Indicates condition of rear door request switch LH. |
| REQ SW -RL [On/Off] | Indicates condition of rear door request switch RH. |
| PUSH SW [On/Off] | Indicates condition of push-button ignition switch. |
| UNLK SEN -DR [On/Off] | Indicates condition of door unlock sensor. |
| DOOR SW-DR [On/Off] | Indicates condition of front door switch LH. |
| DOOR SW-AS [On/Off] | Indicates condition of front door switch RH. |
| DOOR SW-RR [On/Off] | Indicates condition of rear door switch RH. |
| DOOR SW-RL [On/Off] | Indicates condition of rear door switch LH. |
| DOOR SW-BK [On/Off] | Indicates condition of back door switch. |
| CDL LOCK SW [On/Off] | Indicates condition of lock signal from door lock and unlock switch. |
| CDL UNLOCK SW [On/Off] | Indicates condition of unlock signal from door lock and unlock switch. |
| KEY CYL LK-SW [On/Off] | Indicates condition of lock signal from door key cylinder switch. |
| KEY CYL UN-SW [On/Off] | Indicates condition of unlock signal from door key cylinder switch. |
| TRNK/HAT MNTR [On/Off] | Indicates condition of luggage room lamp switch. |

DIAGNOSIS SYSTEM (BCM)

[BCM]

< SYSTEM DESCRIPTION >

| Monitor Item [Unit] | Description |
|---------------------|--|
| RKE-LOCK [On/Off] | Indicates condition of lock signal from Intelligent Key. |
| RKE-UNLOCK [On/Off] | Indicates condition of unlock signal from Intelligent Key. |

ACTIVE TEST

| Test item | Description |
|---------------|--|
| BATTERY SAVER | This test is able to check battery saver operation [On/Off]. |

TRUNK

TRUNK : CONSULT Function (BCM - TRUNK)

INFOID:0000000011216961

DATA MONITOR

| Monitor Item [Unit] | Description |
|------------------------|---|
| PUSH SW [On/Off] | Indicates condition of push-button ignition switch. |
| UNLK SEN -DR [On/Off] | Indicates condition of door unlock sensor. |
| VEH SPEED 1 [km/h] | Indicates vehicle speed signal received from ABS on CAN communication line. |
| TR CANCEL SW [On/Off] | Indicates condition of trunk cancel switch. |
| TR/BD OPEN SW [On/Off] | Indicates condition of back door opener switch. |
| RKE-TR/BD [On/Off] | Indicates condition of back door open signal from Intelligent Key. |
| TRNK/HAT MNTR [On/Off] | Indicates condition of luggage room lamp switch. |

THEFT ALM

THEFT ALM : CONSULT Function (BCM - THEFT ALM)

INFOID:0000000011216962

DATA MONITOR

| Monitor Item | Description |
|------------------------|--|
| REQ SW -DR [On/Off] | Indicates condition of door request switch LH. |
| REQ SW -AS [On/Off] | Indicates condition of door request switch RH. |
| REQ SW -RR [On/Off] | Indicates condition of rear door request switch RH. |
| REQ SW -RL [On/Off] | Indicates condition of rear door request switch LH. |
| REQ SW-BD/TR [On/Off] | Indicates condition of back door request switch. |
| PUSH SW [On/Off] | Indicates condition of push-button ignition switch. |
| UNLK SEN -DR [On/Off] | Indicates condition of door unlock sensor. |
| DOOR SW-DR [On/Off] | Indicates condition of front door switch LH. |
| DOOR SW-AS [On/Off] | Indicates condition of front door switch RH. |
| DOOR SW-RR [On/Off] | Indicates condition of rear door switch RH. |
| DOOR SW-RL [On/Off] | Indicates condition of rear door switch LH. |
| DOOR SW-BK [On/Off] | Indicates condition of back door switch. |
| CDL LOCK SW [On/Off] | Indicates condition of lock signal from door lock and unlock switch. |
| CDL UNLOCK SW [On/Off] | Indicates condition of unlock signal from door lock and unlock switch. |
| KEY CYL LK-SW [On/Off] | Indicates condition of lock signal from door key cylinder switch. |
| KEY CYL UN-SW [On/Off] | Indicates condition of unlock signal from door key cylinder switch. |
| TRNK/HAT MNTR [On/Off] | Indicates condition of luggage room lamp switch. |
| TR/BD OPEN SW [On/Off] | Indicates condition of back door opener switch. |
| RKE-LOCK [On/Off] | Indicates condition of lock signal from Intelligent Key. |

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DIAGNOSIS SYSTEM (BCM)

[BCM]

< SYSTEM DESCRIPTION >

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

ACTIVE TEST

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

WORK SUPPORT

| Support Item | Setting | Description |
|--------------------|---------|---------------------|
| SECURITY ALARM SET | On* | Security alarm ON. |
| | Off | Security alarm OFF. |

* : Initial setting

RETAINED PWR

RETAINED PWR : CONSULT Function (BCM - RETAINED PWR)

INFOID:0000000011216963

DATA MONITOR

| Monitor Item [Unit] | Description |
|---------------------|--|
| DOOR SW-DR [On/Off] | Indicates condition of front door switch LH. |
| DOOR SW-AS [On/Off] | Indicates condition of front door switch RH. |

SIGNAL BUFFER

SIGNAL BUFFER : CONSULT Function (BCM - SIGNAL BUFFER)

INFOID:0000000011216964

DATA MONITOR

| Monitor Item [Unit] | Description |
|---------------------|---|
| PUSH SW [On/Off] | Indicates condition of the push-button ignition switch. |

AIR PRESSURE MONITOR

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

INFOID:0000000011216965

NOTE:

The Signal Tech II Tool [— (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs
- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

SELF DIAGNOSTIC RESULT

NOTE:

Before performing Self Diagnostic Result, be sure to register the transmitter ID or the actual malfunction may be different from that displayed on CONSULT.

Refer to [BCS-52, "DTC Index"](#).

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[BCM]

DATA MONITOR

| Monitor Item [Unit] | Description |
|---|---|
| AIR PRESS FL [kPa, kg/cm ² or Psi] | Indicates air pressure of front LH tire. |
| AIR PRESS FR [kPa, kg/cm ² or Psi] | Indicates air pressure of front RH tire. |
| AIR PRESS RR [kPa, kg/cm ² or Psi] | Indicates air pressure of rear RH tire. |
| AIR PRESS RL [kPa, kg/cm ² or Psi] | Indicates air pressure of rear LH tire. |
| ID REGST FL1 [Done/Yet] | Indicates ID registration status of front LH transmitter. |
| ID REGST FR1 [Done/Yet] | Indicates ID registration status of front RH transmitter. |
| ID REGST RR1 [Done/Yet] | Indicates ID registration status of rear RH transmitter. |
| ID REGST RL1 [Done/Yet] | Indicates ID registration status of rear LH transmitter. |
| WARNING LAMP [Off/On] | Indicates condition of low tire pressure warning lamp in combination meter. |
| BUZZER [Off/On] | Indicates condition of buzzer in combination meter. |

ACTIVE TEST

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

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ECU DIAGNOSIS INFORMATION

BCM

Reference Value

INFOID:0000000011216966

NOTE:

The Signal Tech II Tool [— (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs
- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

VALUES ON THE DIAGNOSIS TOOL

| Monitor Item | Condition | Value/Status |
|-------------------|---|-------------------------------|
| ACC BATTERY SAVER | When battery saver is OFF | Under a stop |
| ACC RLY -REQ | When BCM is not requesting accessory relay activation. | Off |
| | When BCM is requesting accessory relay activation. | On |
| AIR COND SW | A/C switch OFF | Off |
| | A/C switch ON | On |
| AIR PRESS FL | Front left tire air pressure value | kPa, kg/cm ² , psi |
| AIR PRESS FR | Front right tire air pressure value | kPa, kg/cm ² , psi |
| AIR PRESS RL | Rear left tire air pressure value | kPa, kg/cm ² , psi |
| AIR PRESS RR | Rear right tire air pressure value | kPa, kg/cm ² , psi |
| AS SEAT LAMP TEST | Passenger seat lamp ON | On |
| | Passenger seat lamp OFF | Off |
| AUTO CRNK TMR | When the remote engine start timer is OFF. | Off |
| | When the remote engine start timer is ON. | On |
| AUTO LIGHT SW | Lighting switch OFF | Off |
| | Lighting switch AUTO | On |
| BK DOOR STATE | Back door LOCK status | LOCK |
| | Back door UNLOCK status | UNLK |
| | Wait with selective UNLOCK operation (5 seconds) | READY |
| BRAKE SW 1 | When the brake pedal is released | On |
| | When the brake pedal is depressed | Off |
| BRAKE SW 2 | Brake pedal released | Off |
| | Brake pedal depressed | On |
| BUZZER | Buzzer in combination meter OFF | Off |
| | Buzzer in combination meter ON | On |
| CDL LOCK SW | Door lock/unlock switch does not operate | Off |
| | Press door lock/unlock switch to the LOCK side | On |
| CDL UNLOCK SW | Door lock/unlock switch does not operate | Off |
| | Press door lock/unlock switch to the UNLOCK side | On |
| CONFRM ID ALL | The key ID does not match any key ID registered to BCM. | Yet |
| | The key ID matches any key ID registered to BCM. | DONE |

BCM

< ECU DIAGNOSIS INFORMATION >

[BCM]

| Monitor Item | Condition | Value/Status | |
|-------------------|--|--------------|-----|
| CONFIRM ID4 | The key ID does not match the fourth key ID registered to BCM. | Yet | A |
| | The key ID matches the fourth key ID registered to BCM. | DONE | |
| CONFIRM ID3 | The key ID does not match the third key ID registered to BCM. | Yet | B |
| | The key ID matches the third key ID registered to BCM. | DONE | |
| CONFIRM ID2 | The key ID does not match the second key ID registered to BCM. | Yet | C |
| | The key ID matches the second key ID registered to BCM. | DONE | |
| CONFIRM ID1 | The key ID does not match the first key ID registered to BCM. | Yet | D |
| | The key ID matches the first key ID registered to BCM. | DONE | |
| CRANKING TME | Engine start timer duration. | sec | |
| CRNK PRBT TME | Engine start prohibit timer duration. | sec | |
| CRNK PRBT TMR | When the engine start prohibit timer is OFF. | Off | E |
| | When the engine start prohibit timer is ON. | On | |
| DETE SW -IPDM | When selector lever is in P position | Off | F |
| | When selector lever is in any position other than P | On | |
| DETE SW PWR | When BCM is not supplying power to park position switch. | Off | G |
| | When BCM is supplying power to park position switch. | On | |
| DETE/CANCL SW | When selector lever is in P position | Off | H |
| | When selector lever is in any position other than P | On | |
| DOOR STAT-AS | Passenger door LOCK status | LOCK | I |
| | Passenger door UNLOCK status | UNLK | |
| | Wait with selective UNLOCK operation (5 seconds) | READY | |
| DOOR STAT-DR | Driver door LOCK status | LOCK | J |
| | Driver door UNLOCK status | UNLK | |
| | Wait with selective UNLOCK operation (5 seconds) | READY | |
| DOOR STAT-RL | Rear left door LOCK status | LOCK | K |
| | Rear left door UNLOCK status | UNLK | |
| | Wait with selective UNLOCK operation (5 seconds) | READY | |
| DOOR STAT-RR | Rear right door LOCK status | LOCK | L |
| | Rear right door UNLOCK status | UNLK | |
| | Wait with selective UNLOCK operation (5 seconds) | READY | |
| DOOR SW-AS | Front door RH closed | Off | BCS |
| | Front door RH opened | On | |
| DOOR SW-BK | Back door closed | Off | N |
| | Back door opened | On | |
| DOOR SW-DR | Front door LH closed | Off | O |
| | Front door LH opened | On | |
| DOOR SW-RL | Rear door LH closed | Off | P |
| | Rear door LH opened | On | |
| DOOR SW-RR | Rear door RH closed | Off | |
| | Rear door RH opened | On | |
| DR SEAT LAMP TEST | Driver seat lamp ON | On | |
| | Driver seat lamp OFF | Off | |

BCM

< ECU DIAGNOSIS INFORMATION >

[BCM]

| Monitor Item | Condition | Value/Status |
|--------------------------------|---|--------------|
| ENGINE STATE | Engine stopped | Stop |
| | While the engine stalls | Stall |
| | At engine cranking | Crank |
| | Engine running | Run |
| FAN ON SIG | Blower motor fan switch OFF | Off |
| | Blower motor fan switch ON | On |
| FR FOG SW | Front fog lamp switch OFF | Off |
| | Front fog lamp switch ON | On |
| FR WASHER SW | Front washer switch OFF | Off |
| | Front washer switch ON | On |
| FR WIPER LOW | Front wiper switch OFF | Off |
| | Front wiper switch LO | On |
| FR WIPER HI | Front wiper switch OFF | Off |
| | Front wiper switch HI | On |
| FR WIPER INT | Front wiper switch OFF | Off |
| | Front wiper switch INT | On |
| FR WIPER STOP | Any position other than front wiper stop position | Off |
| | Front wiper stop position | On |
| HAZARD SW | When hazard switch is not pressed | Off |
| | When hazard switch is pressed | On |
| HEAD LAMP SW 1 | Headlamp switch OFF | Off |
| | Headlamp switch 1st | On |
| HEAD LAMP SW 2 | Headlamp switch OFF | Off |
| | Headlamp switch 1st | On |
| HI BEAM SW | High beam switch OFF | Off |
| | High beam switch HI | On |
| ID AUTHENTICATION CANCEL TIMER | When I-Key authentication is OFF. | Under a stop |
| ID OK FLAG | Ignition switch ACC or ON | Reset |
| | Ignition switch OFF | Set |
| ID REGST FL1 | ID registration of front left tire incomplete | YET |
| | ID registration of front left tire complete | DONE |
| ID REGST FR1 | ID registration of front right tire incomplete | YET |
| | ID registration of front right tire complete | DONE |
| ID REGST RL1 | ID registration of rear left tire incomplete | YET |
| | ID registration of rear left tire complete | DONE |
| ID REGST RR1 | ID registration of rear right tire incomplete | YET |
| | ID registration of rear right tire complete | DONE |
| IGN RLY1 F/B | Ignition switch OFF or ACC | Off |
| | Ignition switch ON | On |
| IGN RLY 1 -REQ | Ignition switch OFF or ACC | Off |
| | Ignition switch ON | On |
| IGN RLY 2 -REQ | Ignition switch OFF or ACC | Off |
| | Ignition switch ON | On |
| INT VOLUME | Wiper intermittent dial is in dial position 1 - 7 | 1 - 7 |

BCM

< ECU DIAGNOSIS INFORMATION >

[BCM]

| Monitor Item | Condition | Value/Status | |
|-----------------|--|--------------|-----|
| I-KEY OK FLAG | I-Key OFF | Key OFF | A |
| | I-Key ON | Key ON | |
| KEY CYL LK-SW | Door key cylinder LOCK position | Off | B |
| | Door key cylinder other than LOCK position | On | |
| KEY CYL UN-SW | Door key cylinder UNLOCK position | Off | C |
| | Door key cylinder other than UNLOCK position | On | |
| OPTI SEN (DTCT) | Bright outside the vehicle | Close to 5V | D |
| | Dark outside the vehicle | Close to 0V | |
| OPTI SEN (FILT) | Bright outside the vehicle | Close to 5V | E |
| | Dark outside the vehicle | Close to 0V | |
| PASSING SW | Other than lighting switch PASS | Off | F |
| | Lighting switch PASS | On | |
| PRBT ENG STRT | When the engine start is prohibited | Reset | G |
| | When the engine start is permitted | Set | |
| PRMT ENG STRT | When the engine start is prohibited | Reset | H |
| | When the engine start is permitted | Set | |
| PRMT RKE STRT | When the engine start is prohibited | Reset | I |
| | When the engine start is permitted | Set | |
| PUSH SW | Return ignition switch to LOCK position | Off | J |
| | Press ignition switch | On | |
| PUSH SW-IPDM | When engine switch (push switch) is not pressed | Off | K |
| | When engine switch (push switch) is pressed | On | |
| REAR DEF SW | Rear window defogger switch OFF | Off | L |
| | Rear window defogger switch ON | On | |
| RR WASHER SW | Rear washer switch OFF | Off | |
| | Rear washer switch ON | On | |
| RR WIPER INT | Rear wiper switch OFF | Off | |
| | Rear wiper switch INT | On | |
| RR WIPER ON | Rear wiper switch OFF | Off | |
| | Rear wiper switch ON | On | |
| RR WIPER STOP | Any position other than rear wiper stop position | Off | BCS |
| | Rear wiper stop position | On | |
| REQ SW-AS | When passenger door request switch is not pressed | Off | N |
| | When passenger door request switch is pressed | On | |
| REQ SW-BD/TR | When back door request switch is not pressed | Off | O |
| | When back door request switch is pressed | On | |
| REQ SW-DR | When driver door request switch is not pressed | Off | P |
| | When driver door request switch is pressed | On | |
| REQ SW -RL | When rear door request switch LH is not pressed | Off | |
| | When rear door request switch LH is pressed | On | |
| REQ SW -RR | When rear door request switch RH is not pressed | Off | |
| | When rear door request switch RH is pressed | On | |
| RKE-LOCK | When LOCK button of Intelligent Key is not pressed | Off | |
| | When LOCK button of Intelligent Key is pressed | On | |

BCM

< ECU DIAGNOSIS INFORMATION >

[BCM]

| Monitor Item | Condition | Value/Status |
|----------------------------------|---|--------------|
| RKE-MODE CHG | When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously | Off |
| | When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously | On |
| RKE OPE COUN1 | Operation frequency of Intelligent Key | 0-19 |
| RKE OPE COUN2 | Operation frequency of Intelligent Key | 0-19 |
| RKE-PANIC | When PANIC button of Intelligent Key is not pressed | Off |
| | When PANIC button of Intelligent Key is pressed | On |
| RKE PBD | When POWER BACK DOOR OPEN button of Intelligent Key is not pressed | Off |
| | When POWER BACK DOOR OPEN button of Intelligent Key is pressed | On |
| RKE-TR/BD | When BACK DOOR OPEN button of Intelligent Key is not pressed | Off |
| | When BACK DOOR OPEN button of Intelligent Key is pressed | On |
| RKE-UNLOCK | When UNLOCK button of Intelligent Key is not pressed | Off |
| | When UNLOCK button of Intelligent Key is pressed | On |
| SFT N-MET | When selector lever is in any position other than N | Off |
| | When selector lever is in N position | On |
| SFT P-MET | When selector lever is in any position other than P | Off |
| | When selector lever is in P position | On |
| SFT PN -IPDM | When selector lever is in any position other than P or N | Off |
| | When selector lever is in P or N position | On |
| SFT PN/N SW | When selector lever is in any position other than P or N | Off |
| | When selector lever is in P or N position | On |
| SHIFTLOCK SOLE-NOID POWER SUPPLY | When BCM is not supplying power to shift lock. | Off |
| | When BCM is supplying power to shift lock. | On |
| SHIFT SPOT LAMP TEST | Shift spot lamp ON | On |
| | Shift spot lamp OFF | Off |
| ST RLY -REQ | Ignition switch OFF or ACC | Off |
| | Ignition switch ON | On |
| TAIL LAMP SW | Other than lighting switch 1ST and 2ND | Off |
| | Lighting switch 1ST or 2ND | On |
| TP 4 | The ID of fourth key is not registered to BCM | Yet |
| | The ID of fourth key is registered to BCM | DONE |
| TP 3 | The ID of third key is not registered to BCM | Yet |
| | The ID of third key is registered to BCM | DONE |
| 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 |
| TRNK/HAT MNTR | Back door closed | Off |
| | Back door opened | On |
| TR/BD OPEN SW | Back door opener switch OFF | Off |
| | While the back door opener switch is turned ON | On |
| TR CANCEL SW | When trunk cancel switch is pressed | On |
| | When trunk cancel switch is not pressed | Off |

BCM

< ECU DIAGNOSIS INFORMATION >

[BCM]

| Monitor Item | Condition | Value/Status | |
|---------------|---|--------------|---|
| TURN SIGNAL L | Turn signal switch OFF | Off | A |
| | Turn signal switch LH | On | |
| TURN SIGNAL R | Turn signal switch OFF | Off | B |
| | Turn signal switch RH | On | |
| UNLK SEN-DR | Driver door UNLOCK status | Off | C |
| | Driver door LOCK status | On | |
| VEH SPEED 1 | While driving, equivalent to speedometer reading | mph, km/h | |
| VEH SPEED 2 | While driving, equivalent to speedometer reading | mph, km/h | D |
| WARNING LAMP | Low tire pressure warning lamp in combination meter OFF | Off | |
| | Low tire pressure warning lamp in combination meter ON | On | E |

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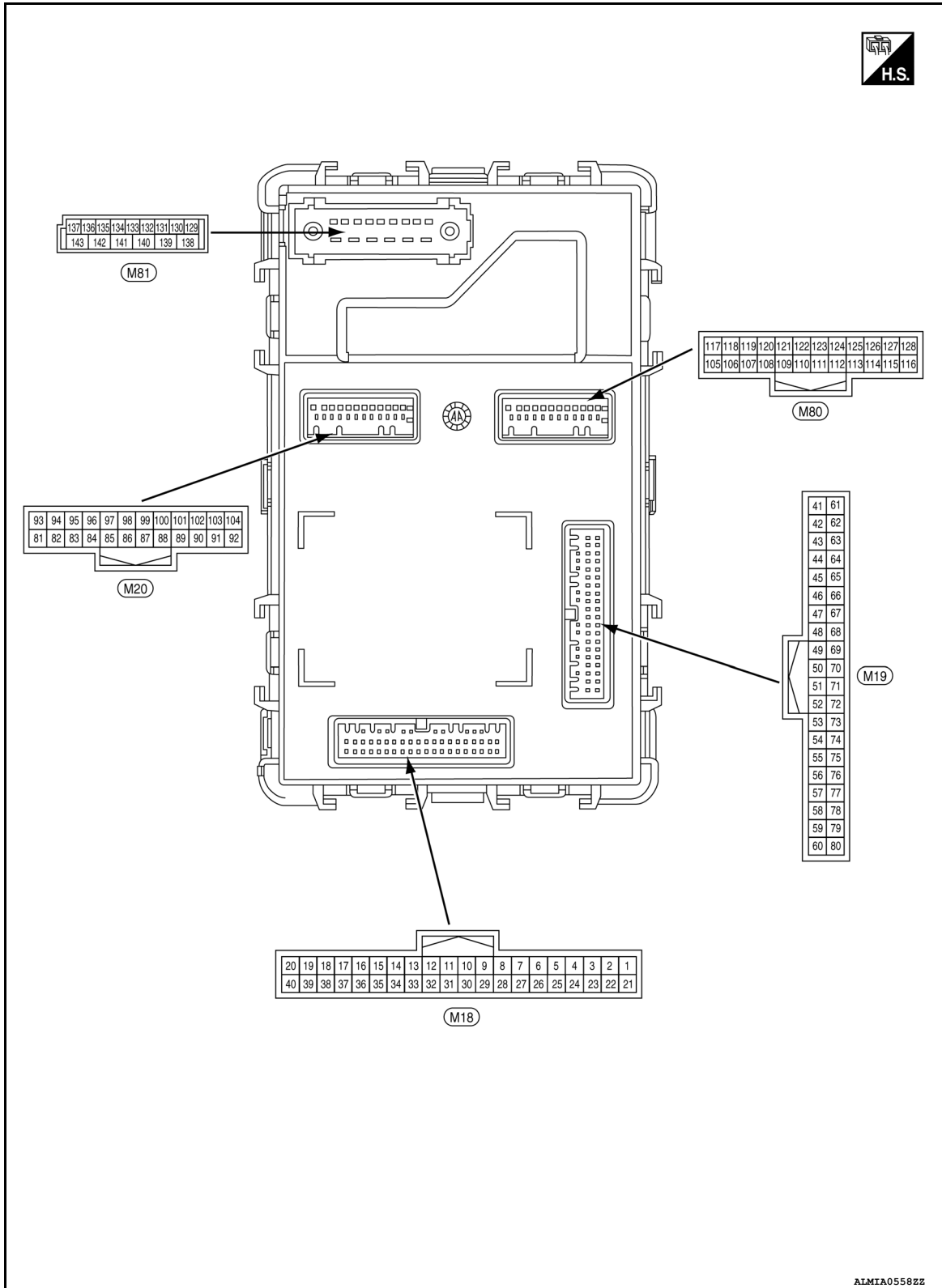
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TERMINAL LAYOUT



PHYSICAL VALUES

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|----------------------------|------------------|--|--|
| (+) | (-) | Signal name | Input/ Output | | |
| 1 (G) | Ground | Engine start switch | Input | Push-button ignition switch | Pressed 0V |
| | | | | Not pressed Battery voltage | |
| 3 (W) | Ground | Auto light power supply 5V | Output | Push-button ignition switch | OFF 0V |
| | | | | ACC or ON 5V | |
| 4 (G) | Ground | Auto light signal | Input | Push-button ignition switch ON | When outside of the vehicle is bright Close to 5V |
| | | | | When outside of the vehicle is dark Close to 0V | |
| 10 (W) | Ground | Combination switch input 5 | Input | Combination switch (Wiper intermittent dial 4) | OFF 0V |
| | | | | TURN RH | |
| | | | | HEADLAMP 1 | |
| | | | | HI BEAM | |
| | | | | TAIL LAMP | |
| 1.0V | | | | | |
| 11 (BG) | Ground | Combination switch input 4 | Input | Combination switch (Wiper intermittent dial 4) | OFF 0V |
| | | | | TURN LH | |
| | | | | PASSING | |
| | | | | HEADLAMP 2 | |
| | | | | FR FOG | |
| 1.0V | | | | | |
| 12 (R) | Ground | Combination switch input 3 | Input | Combination switch (Wiper intermittent dial 4) | OFF 0V |
| | | | | FR WIPER LOW | |
| | | | | FR WIPER INT/AUTO | |
| | | | | AUTO LIGHT | |
| | | | | 1.0V | |
| 13 (G) | Ground | Combination switch input 2 | Input | Combination switch (Wiper intermittent dial 4) | |
| | | | | FR WASHER | |
| | | | | RR WASHER | |
| | | | | INT VOLUME 3 | |
| | | | | RR WIPER ON | |
| 1.0V | | | | | |

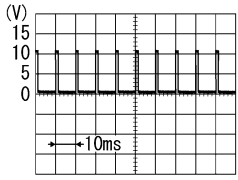
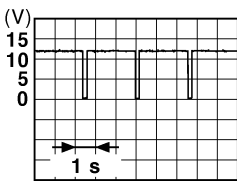
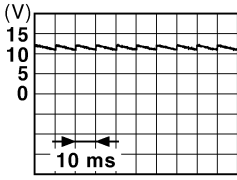
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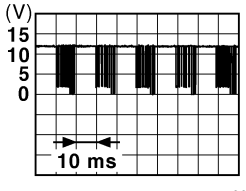
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| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|-------------------------------------|------------------|--|---|---|
| (+) | (-) | Signal name | Input/ Output | | | |
| 14 (P) | Ground | Combination switch input 1 | Input | Combination switch (Wiper intermittent dial 4) | OFF | 0V |
| | | | | | FR WIPER HI |  |
| | | | | | INT VOLUME 1 | |
| | | | | | RR WIPER INT | |
| | | | | | INT VOLUME 2 | |
| 17 (R) | Ground | Auto light reference ground | Input | Push-button ignition switch ON | 0V | |
| 18 (V) | Ground | Security indicator | Output | ON | 0V | |
| | | | | Security indicator Blinking |  | |
| 20 (W) | Ground | Shift P | Input | Selector lever | OFF | Battery voltage |
| | | | | | P position | 0V |
| | | | | Any position other than P | Battery voltage | |
| 25 (W) | Ground | Brake switch fuse | Input | — | Battery voltage | |
| 26 (L) | Ground | Shorting input | Input | Push-button ignition switch OFF | Battery voltage | |
| 27 (G) | Ground | Brake switch lamp | Input | Stop lamp switch | OFF (brake pedal is not depressed) | 0V |
| | | | | | ON (brake pedal is de- pressed) | Battery voltage |
| 30 (P) | Ground | Driver door lock sta- tus | Input | Front door LH | LOCK status |  |
| | | | | | UNLOCK status | 0V |
| 32 (Y) | Ground | Rear window defog- ger ON signal | Input | Rear window de- fogger switch | OFF | 5V |
| | | | | | ON | 0V |

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< ECU DIAGNOSIS INFORMATION >

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| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|----------------------------|------------------|--|--|--|
| (+) | (-) | Signal name | Input/ Output | | | |
| 36 (W) | Ground | Hazard switch | Input | Hazard switch | Pressed | 0 V |
| | | | | | Not pressed |  1.1V |
| 39 (G) | Ground | Shift N/P | Input | Selector lever | P or N position | Battery voltage |
| | | | | | Except P and N positions | 0V |
| 45 (BR) | Ground | Shift spot lamp | Output | Push-button ignition switch | ON | Battery voltage |
| | | | | | OFF | 0V |
| 46 (P) | Ground | Passenger seat lamp out | Output | Map lamp switch RH | Pressed | Battery voltage |
| | | | | | Not pressed | 0V |
| 47 (BG) | Ground | Driver seat lamp out | Output | Map lamp switch LH | Pressed | Battery voltage |
| | | | | | Not pressed | 0V |
| 48 (P) | Ground | High side start switch LED | Output | Push-button ignition switch illumination | ON | 5.5V |
| | | | | | OFF | 0V |
| 52 (W) | Ground | Audio dongle | Input/ Output | Push-button ignition switch OFF | | 5V |
| 54 (W) | Ground | Power window link | Input/ Output | Push-button ignition switch | ON |  10.2V |
| | | | | | OFF or ACC | 0V |
| 59 (P) | Ground | CAN low | Input/ Output | — | | — |
| 60 (L) | Ground | CAN high | Input/ Output | — | | — |
| 61 (BG) | Ground | Rear defogger relay output | Output | Rear window defogger | Active | Battery voltage |
| | | | | | Not activated | 0V |
| 62 (W) | Ground | Starter relay output | Output | Push-button ignition switch ON | When selector lever is in P or N position and the brake is depressed | Battery voltage |
| | | | | | When selector lever is in P or N position and the brake is not depressed | 0V |
| 64 (P) | Ground | Buzzer output | Output | Outside warning buzzer | Sounding | 0V |
| | | | | | Not sounding | Battery voltage |
| 66 (W) | Ground | Blower fan relay output | Output | Push-button ignition switch | OFF or ACC | 0V |
| | | | | | ON | Battery voltage |

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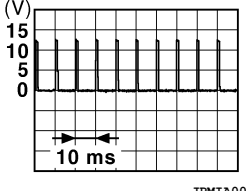
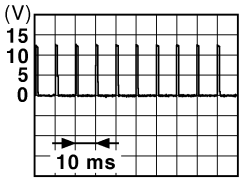
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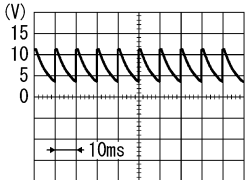
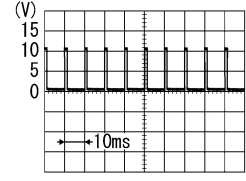
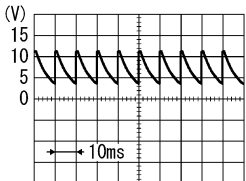
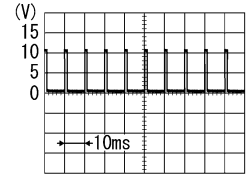
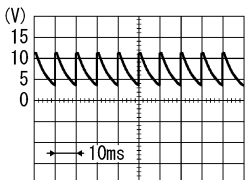
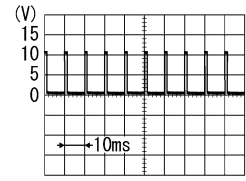
< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|---|------------------|-------------------------------------|---|---|
| | | Signal name | Input/ Output | | | |
| (+) | (-) | | | | | |
| 67 (G) | Ground | Ignition electrical re- lay output 2 | Output | Push-button igni- tion switch | OFF or ACC | 0V |
| | | | | | ON | Battery voltage |
| 68 ¹ (L) | Ground | Dimmer signal output | Output | Push-button igni- tion switch ON | Either of the following condi- tions: • Lighting switch OFF • The area around the ve- hicle is bright (Shine a light on the optical sen- sor) | 0V |
| | | | | | The area around the vehi- cle is dark (Block the light from the optical sensor) | Battery voltage |
| 68 ² (R) | Ground | Dimmer signal output | Output | Push-button igni- tion switch ON | Either of the following condi- tions: • Lighting switch OFF • The area around the ve- hicle is bright (Shine a light on the optical sen- sor) | 0V |
| | | | | | The area around the vehi- cle is dark (Block the light from the optical sensor) | Battery voltage |
| 69 (G) | Ground | CVT device output | Output | — | | Battery voltage |
| 70 (P) | Ground | IPDM E/R ignition output 1 | Output | Push-button igni- tion switch | OFF or ACC | Battery voltage |
| | | | | | ON | 0V |
| 71 (R) | Ground | Driver request switch | Input | Front door LH re- quest switch | ON (pressed) | 0V |
| | | | | | OFF (not pressed) |  <p style="text-align: center;">1.0V JPMIA0016GB</p> |
| 72 (G) | Ground | Passenger request switch | Input | Front door RH re- quest switch | ON (pressed) | 0V |
| | | | | | OFF (not pressed) |  <p style="text-align: center;">1.0V JPMIA0016GB</p> |

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< ECU DIAGNOSIS INFORMATION >

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

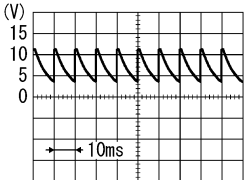
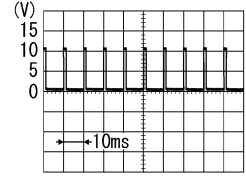
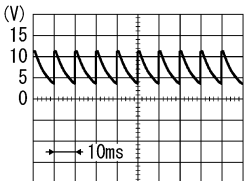
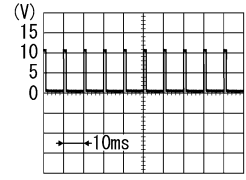
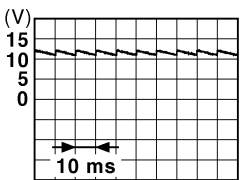
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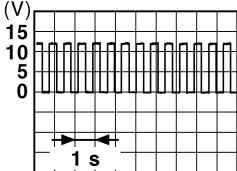
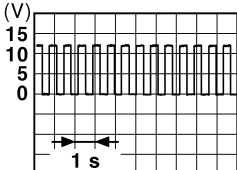
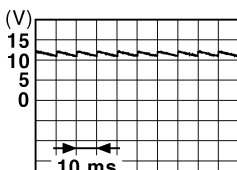
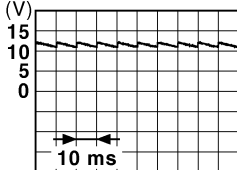
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| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|-------------------------------------|------------------|--|---|--|
| (+) | (-) | Signal name | Input/ Output | | | |
| 78 (G) | Ground | Combination switch output 2 | Output | Combination switch (Wiper intermittent dial 4) | OFF |  <small>PKIB4960J</small> 7.0 – 8.0V |
| | | | | | FR WIPER HI |  <small>PKIB4958J</small> 1.2V |
| | | | | | FR WIPER INT/AUTO | |
| | | | | | PASSING | |
| HEADLAMP 1 | | | | | | |
| 79 (W) | Ground | Combination switch output 1 | Output | Combination switch (Wiper intermittent dial 4) | OFF |  <small>PKIB4960J</small> 7.0 – 8.0V |
| | | | | | FR WASHER |  <small>PKIB4958J</small> 1.2V |
| | | | | | FR WIPER LOW | |
| | | | | | TURN LH | |
| TURN RH | | | | | | |
| 80 (R) | Ground | Trunk/back door open switch | Output | Back door | Open (back door actuator is activated) | Battery voltage |
| | | | | Close (back door actuator is not activated) | | 0V |
| 81 (L) | Ground | Rear wiper battery fuse | Input | Push-button ignition switch OFF | | Battery voltage |
| 82 (W) | Ground | Left rear door switch | Input | Rear door LH switch | OFF (when rear door LH closes) |  <small>JPMIA0011GB</small> 11.8V |
| | | | | | ON (when rear door LH opens) | 0V |
| 83 (BG) | Ground | Trunk/back door re- quest switch | Input | Back door re- quest switch | ON (pressed) | 0V |
| | | | | | OFF (not pressed) | Battery voltage |

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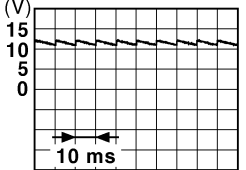
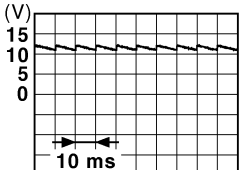
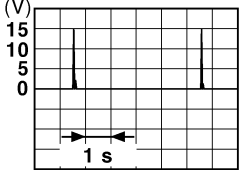
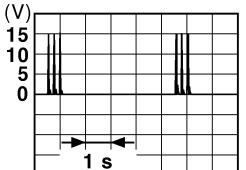
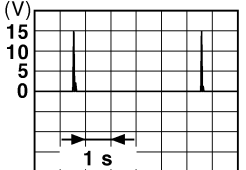
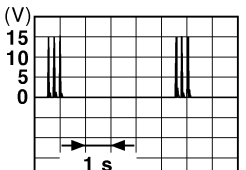
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< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|-----------------------------|------------------|--|---|
| | | Signal name | Input/ Output | | |
| (+) | (-) | | | | |
| 84 (BR) | Ground | Rear wiper autostop switch | Input | Push-button ignition switch ON | Battery voltage |
| | | | | Any position other than rear wiper stop position | 0V |
| 85 (BG) | Ground | Luggage room lamp | Output | Luggage room lamp | ON |
| | | | | | OFF |
| 89 (LG) | Ground | Reverse lamp output | Output | Push-button ignition switch ON |  6.5V |
| | | | | Any position other than R | 0V |
| 91 (BR) | Ground | Trunk/back door open signal | Output | Back door open switch | OFF |
| | | | | | ON |
| 92 (R) | Ground | Right rear flasher | Output | Push-button ignition switch ON | Turn signal switch OFF |
| | | | | | Turn signal switch RH  6.5V |
| 93 (R) | Ground | Right rear door switch | Input | Rear door RH switch | OFF (when rear door RH closes) |
| | | | | | ON (when rear door RH opens)  11.8V |
| 94 (G) | Ground | Passenger door switch | Input | Front door RH switch | OFF (when front door RH closes) |
| | | | | | ON (when front door RH opens)  11.8V |
| 95 (V) | Ground | Rear wiper output | Output | Rear wiper | OFF (stopped) |
| | | | | | ON (activated) |

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| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|-------------------------------------|------------------|--|--|
| (+) | (-) | Signal name | Input/ Output | | |
| 96 (BG) | Ground | Driver door switch | Input | Front door LH switch |  <p>JPMIA0011GB 11.8V</p> |
| | | | | ON (front door LH OPEN) | 0V |
| 97 (W) | Ground | Trunk/back door switch | Input | Back door switch |  <p>JPMIA0011GB 11.8V</p> |
| | | | | ON (back door is open) | 0V |
| 99 (P) | Ground | Inside key antenna (luggage room) B | Output | Push-button ignition switch OFF |  <p>JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the passenger compartment |  <p>JMKIA0063GB</p> |
| 100 (W) | Ground | Inside key antenna (luggage room) A | Output | Push-button ignition switch OFF |  <p>JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the passenger compartment |  <p>JMKIA0063GB</p> |

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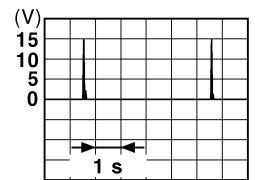
< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|--|------------------|--|---|
| (+) | (-) | Signal name | Input/ Output | | |
| 101 (R) | Ground | Outside key antenna (rear bumper) B | Output | | |
| | | | | When Intelligent Key is not in the antenna detection area | When Intelligent Key is not in the antenna detection area |
| 102 (G) | Ground | Outside key antenna (rear bumper) A | Output | When the back door request switch is operated with push-button ignition switch OFF | When Intelligent Key is in the antenna detection area |
| | | | | When Intelligent Key is not in the antenna detection area | When Intelligent Key is not in the antenna detection area |
| 103 (BG) | Ground | Left rear flasher | Output | Push-button ignition switch ON | Turn signal switch OFF |
| | | | | Turn signal switch LH | Turn signal switch LH |
| 105 (LG) | Ground | Right front flasher | Output | Push-button ignition switch ON | Turn signal switch OFF |
| | | | | Turn signal switch RH | Turn signal switch RH |

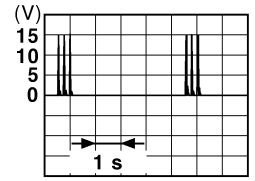
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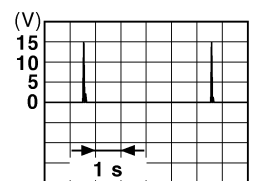
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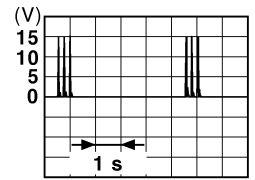
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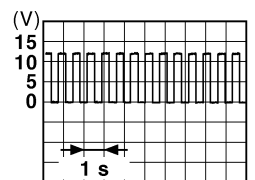
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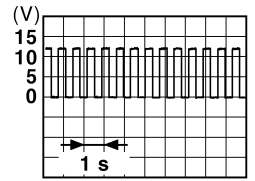
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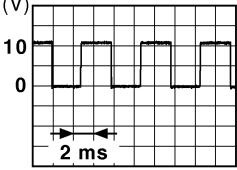
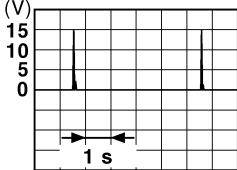
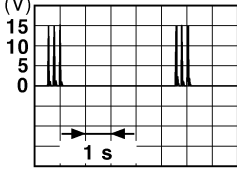
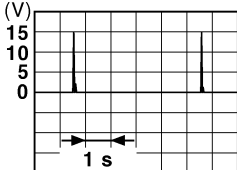
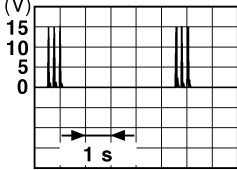


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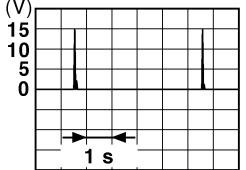
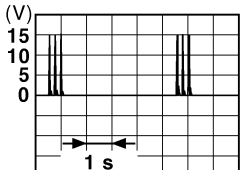
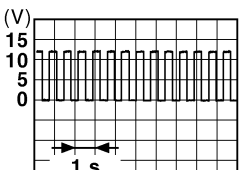
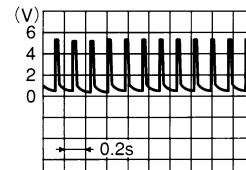
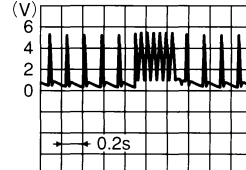
< ECU DIAGNOSIS INFORMATION >

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

BCM

< ECU DIAGNOSIS INFORMATION >

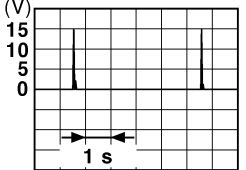
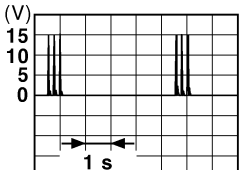
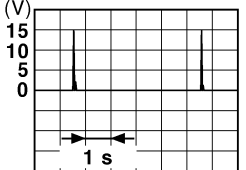
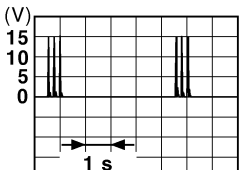
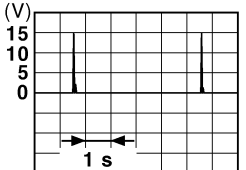
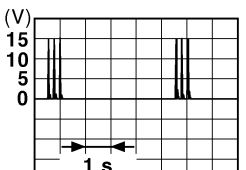
[BCM]

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|--------------------------------------|------------------|--|---|
| (+) | (-) | Signal name | Input/ Output | | |
| 116 (W) | Ground | Inside key antenna (console) A | Output | Push-button ignition switch OFF |  <p style="text-align: right; font-size: small;">JMKIA0062GB</p> |
| | | | | Push-button ignition switch ON |  <p style="text-align: right; font-size: small;">JMKIA0063GB</p> |
| 117 (SB) | Ground | Left front flasher | Output | Turn signal switch OFF | 0V |
| | | | | Turn signal switch LH |  <p style="text-align: right; font-size: small;">PKID0926E</p> |
| 119 (R) | Ground | Remote keyless entry receiver signal | Input/ Output | Standby state |  <p style="text-align: right; font-size: small;">OCC3881D</p> |
| | | | | When receiving the signal from the transmitter |  <p style="text-align: right; font-size: small;">OCC3880D</p> |

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< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|---|------------------|--|---|
| (+) | (-) | Signal name | Input/ Output | | |
| 121 (G) | Ground | Outside key antenna (driver side) B | Output | When the front door LH request switch is operated with push-button ignition switch OFF | <p>When Intelligent Key is in the antenna detection area</p>  <p style="text-align: right; font-size: small;">JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the antenna detection area |  <p style="text-align: right; font-size: small;">JMKIA0063GB</p> |
| 122 (GR) | Ground | Outside key antenna (driver side) A | Output | When the front door LH request switch is operated with push-button ignition switch OFF | <p>When Intelligent Key is in the antenna detection area</p>  <p style="text-align: right; font-size: small;">JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the antenna detection area |  <p style="text-align: right; font-size: small;">JMKIA0063GB</p> |
| 123 (W) | Ground | Inside key antenna (instrument center) A | Output | Push-button ignition switch OFF | <p>When Intelligent Key is in the passenger compartment</p>  <p style="text-align: right; font-size: small;">JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the passenger compartment |  <p style="text-align: right; font-size: small;">JMKIA0063GB</p> |

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|---|------------------|---|--|
| (+) | (-) | Signal name | Input/ Output | | |
| 124 (G) | Ground | Inside key antenna (instrument center) B | Output | Push-button ignition switch OFF | |
| | | | | When Intelligent Key is not in the passenger compartment | |
| 126 (P) | Ground | NATS antenna amp. B | Input/ Output | During waiting | Intelligent Key backside is contacted to push-button ignition switch, turn ignition switch ON. Just after pressing push-button ignition switch, pointer of analog volt meter should move. |
| 127 (BG) | Ground | NATS antenna amp. A | Input/ Output | During waiting | Intelligent Key backside is contacted to push-button ignition switch, turn ignition switch ON. Just after pressing push-button ignition switch pointer of analog volt meter should move. |
| 128 (R) | Ground | Inside key antenna (console) B | Output | Push-button ignition switch OFF | |
| | | | | When Intelligent Key is not in the passenger compartment | |
| 129 (SB) | Ground | Battery saver output | Output | After passing the interior room lamp battery saver operation time Any other time after passing the interior room lamp battery saver operation time | 0V Battery voltage |
| 130 (LG) | Ground | Passenger door unlock | Output | Front door RH | UNLOCK (actuator is activated) Battery voltage |
| | | | | Other than UNLOCK (actuator is not activated) | 0V |
| 131 (W) | Ground | BCM battery fuse | Input | Push-button ignition switch OFF | Battery voltage |

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< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|------------------------------------|------------------|---------------------------------|---|--------------------|
| (+) | (-) | Signal name | Input/ Output | | | |
| 132 (BR) | Ground | Rear door lock | Output | All doors | LOCK (actuator is activated) | Battery voltage |
| | | | | | Other than LOCK (actuator is not activated) | 0V |
| 133 (Y) | Ground | Rear door unlock | Output | Rear door RH and rear door LH | UNLOCK (actuator is activated) | Battery voltage |
| | | | | | Other than UNLOCK (actuator is not activated) | 0V |
| 134 (GR) | Ground | Ground 2 | — | Push-button ignition switch ON | | 0V |
| 135 (L) | Ground | Driver and passenger door lock | Output | All doors | LOCK (actuator is activated) | Battery voltage |
| | | | | | Other than LOCK (actuator is not activated) | 0V |
| 136 (LG) | Ground | Room lamp control | Output | Interior room lamp | OFF | Battery voltage |
| | | | | | ON | 0V |
| 137 (V) | Ground | Driver and passenger door unlock | Output | Front door LH | UNLOCK (actuator is activated) | Battery voltage |
| | | | | | Other than UNLOCK (actuator is not activated) | 0V |
| 138 (V) | Ground | Rear door battery | Input | Push-button ignition switch OFF | | Battery voltage |
| 139 (L) | Ground | Fusible link battery power | Input | Push-button ignition switch OFF | | Battery voltage |
| 140 (BR) | Ground | Power window ignition power supply | Output | Push-button ignition switch ON | | Battery voltage |
| 141 (Y) | Ground | Power window battery power supply | Output | Push-button ignition switch OFF | | Battery voltage |
| 142 (Y) | Ground | Front door battery | Input | Push-button ignition switch OFF | | Battery voltage |
| 143 (GR) | Ground | Ground 1 | — | Push-button ignition switch ON | | 0V |

1: With navigation system

2: With display audio

Fail Safe

INFOID:0000000011216967

| Display contents of CONSULT | Fail-safe | Cancellation |
|-----------------------------|-------------------------|---|
| B2192: ID DISCORD BCM-ECM | Inhibit engine cranking | Erase DTC |
| B2193: CHAIN OF BCM-ECM | Inhibit engine cranking | Erase DTC |
| B2195: ANTI-SCANNING | Inhibit engine cranking | Ignition switch ON → OFF |
| B2560: STARTER CONT RELAY | Inhibit engine cranking | 500 ms after the following CAN signal communication status has become consistent: • Starter control relay signal • Starter relay status signal |
| B2562: LO VOLTAGE | Inhibit engine cranking | 100 ms after the power supply voltage increases to more than 8.8 V |
| B2608: STARTER RELAY | Inhibit engine cranking | 500 ms after the following signal communication status becomes consistent: • Starter motor relay control signal • Starter relay status signal (CAN) |

< ECU DIAGNOSIS INFORMATION >

| Display contents of CONSULT | Fail-safe | Cancellation |
|-----------------------------|-------------------------|--|
| B260A: IGNITION RELAY | Inhibit engine cranking | 500 ms after the following conditions are fulfilled: <ul style="list-style-type: none"> IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal) |
| B261E: VEHICLE TYPE | Inhibit engine cranking | BCM initialization |

DTC Inspection Priority Chart

INFOID:0000000011216968

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

| Priority | DTC |
|----------|--|
| 1 | <ul style="list-style-type: none"> B2562: LOW VOLTAGE |
| 2 | <ul style="list-style-type: none"> U1000: CAN COMM CIRCUIT 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 UNIT B2198: NATS ANTENNA AMP |
| 4 | <ul style="list-style-type: none"> B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP SW B2605: PNP SW B2608: STARTER RELAY B260A: IGNITION RELAY B261A: PUSH-BTN IGN SW B261B: RES ENG RUN B261E: VEHICLE TYPE B26F1: IGNITION RELAY B26F2: IGNITION RELAY B26F3: STARTER CONTROL RELAY B26F4: STARTER CONTROL RELAY B26F6: BCM B26F7: BCM B26FD: SHIFT LOCK SOLENOID B26FE: HOOD SWITCH B26FF: INTELLIGENT TUNER C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG |

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< ECU DIAGNOSIS INFORMATION >

| Priority | DTC |
|----------|--|
| 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 • C1730: FLAT TIRE FL • C1731: FLAT TIRE FR • C1732: FLAT TIRE RR • C1733: FLAT TIRE RL • C1734: CONTROL UNIT • C1761: TEMPERATURE DATA FL • C1762: TEMPERATURE DATA FR • C1763: TEMPERATURE DATA RR • C1764: TEMPERATURE DATA RL • C1769: CONFIG SETTING • C1770: G SENSOR FL • C1771: G SENSOR FR • C1772: G SENSOR RL • C1773: G SENSOR RR |
| 6 | <ul style="list-style-type: none"> • B2621: INSIDE ANTENNA • B2622: INSIDE ANTENNA • B2623: INSIDE ANTENNA |
| 7 | B259A: ROOM LAMP FUSE |

DTC Index

INFOID:000000011216969

NOTE:

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

| CONSULT display | Fail-safe | Intelligent Key warning lamp ON | Tire pressure monitor warning lamp ON | Reference page |
|---|-----------|---------------------------------|---------------------------------------|--|
| No DTC is detected. Further testing may be required. | — | — | — | — |
| U1000: CAN COMM CIRCUIT | — | — | — | BCS-69, "DTC Description" |
| U1010: CONTROL UNIT (CAN) | — | — | — | BCS-70, "DTC Description" |
| U0415: VEHICLE SPEED SIG | — | — | — | BCS-71, "DTC Description" |
| B2192: ID DISCORD BCM-ECM | × | — | — | SEC-94, "DTC Description" |
| B2193: CHAIN OF BCM-ECM | × | — | — | SEC-96, "DTC Description" |
| B2195: ANTI SCANNING | × | — | — | SEC-98, "DTC Description" |
| B2196: DONGLE UNIT | — | — | — | SEC-100, "DTC Description" |
| B2198: NATS ANTENNA AMP. | — | — | — | SEC-102, "DTC Description" |
| B2555: STOP LAMP | — | — | — | SEC-104, "DTC Description" |
| B2556: PUSH-BTN IGN SW | — | × | — | SEC-107, "DTC Description" |

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< ECU DIAGNOSIS INFORMATION >

[BCM]

| CONSULT display | Fail-safe | Intelligent Key warning lamp ON | Tire pressure monitor warning lamp ON | Reference page | |
|--------------------------------------|-----------|---------------------------------|---------------------------------------|--|-----|
| B2557: VEHICLE SPEED | — | × | — | SEC-109, "DTC Description" | A |
| B2560: STARTER CONT RELAY | × | × | — | SEC-111, "DTC Description" | B |
| B2562: LOW VOLTAGE | × | — | — | BCS-72, "DTC Description" | |
| B259A: ROOM LAMP FUSE | — | — | — | BCS-73, "DTC Description" | C |
| B2601: SHIFT POSITION | — | × | — | SEC-112, "DTC Description" | |
| B2602: SHIFT POSITION | — | × | — | SEC-115, "DTC Description" | |
| B2603: SHIFT POSI STATUS | — | × | — | SEC-118, "DTC Description" | D |
| B2604: PNP SW | — | × | — | SEC-122, "DTC Description" | |
| B2605: PNP SW | — | × | — | SEC-125, "DTC Description" | |
| B2608: STARTER RELAY | × | × | — | SEC-128, "DTC Description" | E |
| B260A: IGNITION RELAY | × | × | — | PCS-65, "DTC Description" | |
| B261A: PUSH-BTN IGN SW | — | × | — | PCS-67, "DTC Description" | F |
| B261B: RES ENG RUN | — | — | — | DLK-152, "DTC Description" | |
| B261E: VEHICLE TYPE | × | × (Turn ON for 15 seconds) | — | SEC-130, "DTC Description" | G |
| B2621: INSIDE ANTENNA | — | — | — | DLK-153, "DTC Description" | |
| B2622: INSIDE ANTENNA | — | — | — | DLK-156, "DTC Description" | |
| B2623: INSIDE ANTENNA | — | — | — | DLK-159, "DTC Description" | H |
| B26F1: IGNITION RELAY | — | — | — | PCS-70, "DTC Description" | |
| B26F2: IGNITION RELAY | — | — | — | PCS-72, "DTC Description" | I |
| B26F3: STARTER CONTROL RELAY | — | — | — | SEC-132, "DTC Description" | |
| B26F4: STARTER CONTROL RELAY | — | — | — | SEC-133, "DTC Description" | |
| B26F6: BCM | — | — | — | PCS-74, "DTC Description" | J |
| B26F7: BCM | — | — | — | SEC-134, "DTC Description" | |
| B26FD: SHIFT LOCK SOLENOID | — | — | — | DLK-162, "DTC Description" | |
| B26FE: HOOD SWITCH | — | — | — | DLK-165, "DTC Description" | K |
| B26FF: REMOTE KEYLESS ENTRY RECEIVER | — | — | — | DLK-168, "DTC Description" | L |
| C1704: LOW PRESSURE FL | — | — | × | WT-30, "DTC Description" | BCS |
| C1705: LOW PRESSURE FR | — | — | × | | |
| C1706: LOW PRESSURE RR | — | — | × | | |
| C1707: LOW PRESSURE RL | — | — | × | | |
| C1708: [NO DATA] FL | — | — | × | WT-32, "DTC Description" | N |
| C1709: [NO DATA] FR | — | — | × | | |
| C1710: [NO DATA] RR | — | — | × | | |
| C1711: [NO DATA] RL | — | — | × | | |
| C1716: [PRESSDATA ERR] FL | — | — | × | WT-36, "DTC Description" | O |
| C1717: [PRESSDATA ERR] FR | — | — | × | | |
| C1718: [PRESSDATA ERR] RR | — | — | × | | |
| C1719: [PRESSDATA ERR] RL | — | — | × | | |
| C1729: VHCL SPEED SIG ERR | — | — | × | WT-38, "DTC Description" | P |

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< ECU DIAGNOSIS INFORMATION >

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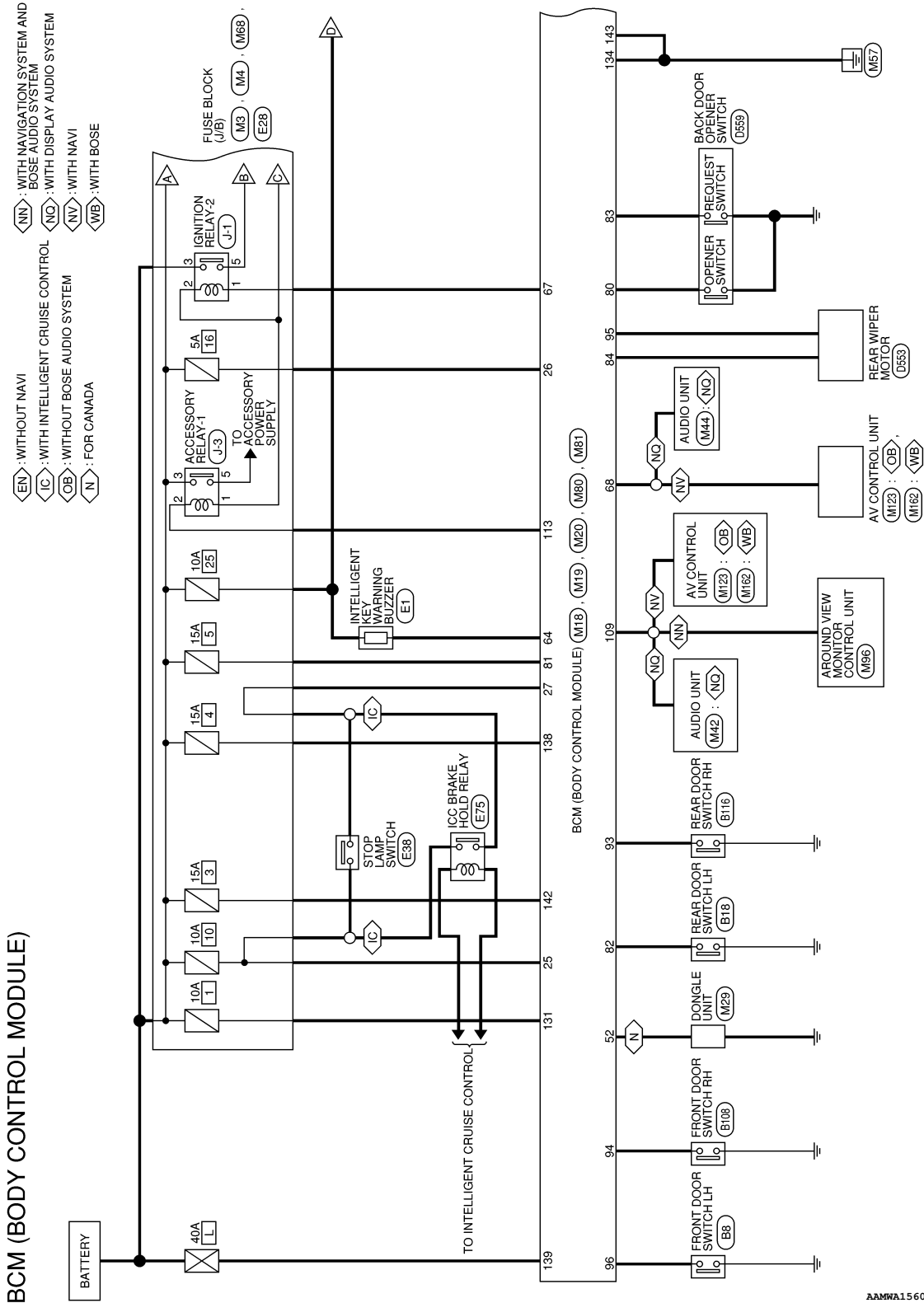
| CONSULT display | Fail-safe | Intelligent Key warning lamp ON | Tire pressure monitor warning lamp ON | Reference page |
|----------------------------|-----------|---------------------------------|---------------------------------------|--|
| C1730: FLAT TIRE FL | — | — | × | WT-40. "DTC Description" |
| C1731: FLAT TIRE FR | — | — | × | |
| C1732: FLAT TIRE RR | — | — | × | |
| C1733: FLAT TIRE RL | — | — | × | |
| C1734: CONTROL UNIT | — | — | × | WT-42. "DTC Description" |
| C1761: TEMPERATURE DATA FL | — | — | — | WT-46. "DTC Description" |
| C1762: TEMPERATURE DATA FR | — | — | — | |
| C1763: TEMPERATURE DATA RL | — | — | — | |
| C1764: TEMPERATURE DATA RR | — | — | — | |
| C1769: CONFIG SETTING | — | — | — | WT-48. "DTC Description" |
| C1770: G SENSOR FAIL FL | — | — | — | WT-50. "DTC Description" |
| C1771: G SENSOR FAIL FR | — | — | — | |
| C1772: G SENSOR FAIL RR | — | — | — | |
| C1773: G SENSOR FAIL RL | — | — | — | |

WIRING DIAGRAM

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Wiring Diagram

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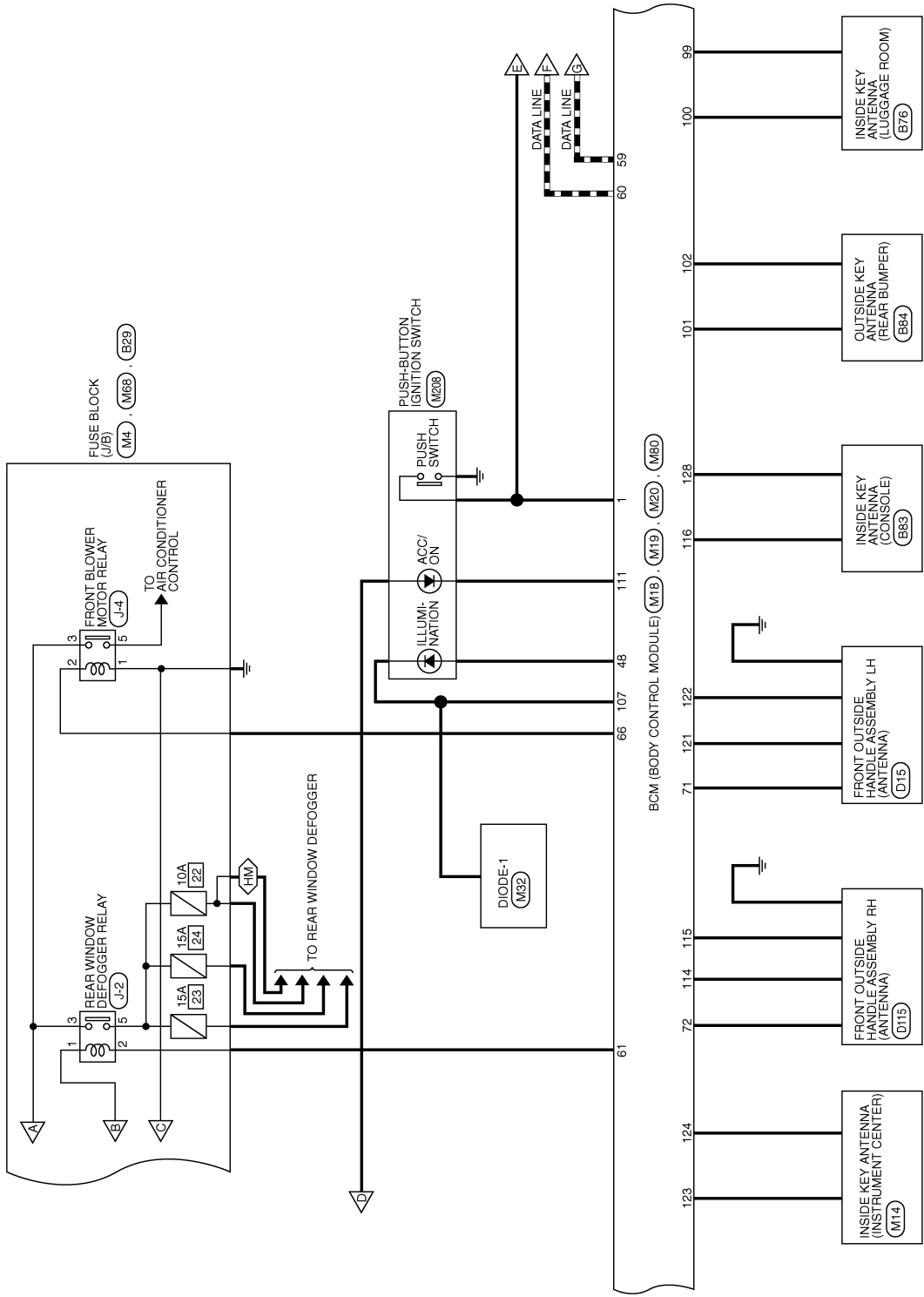


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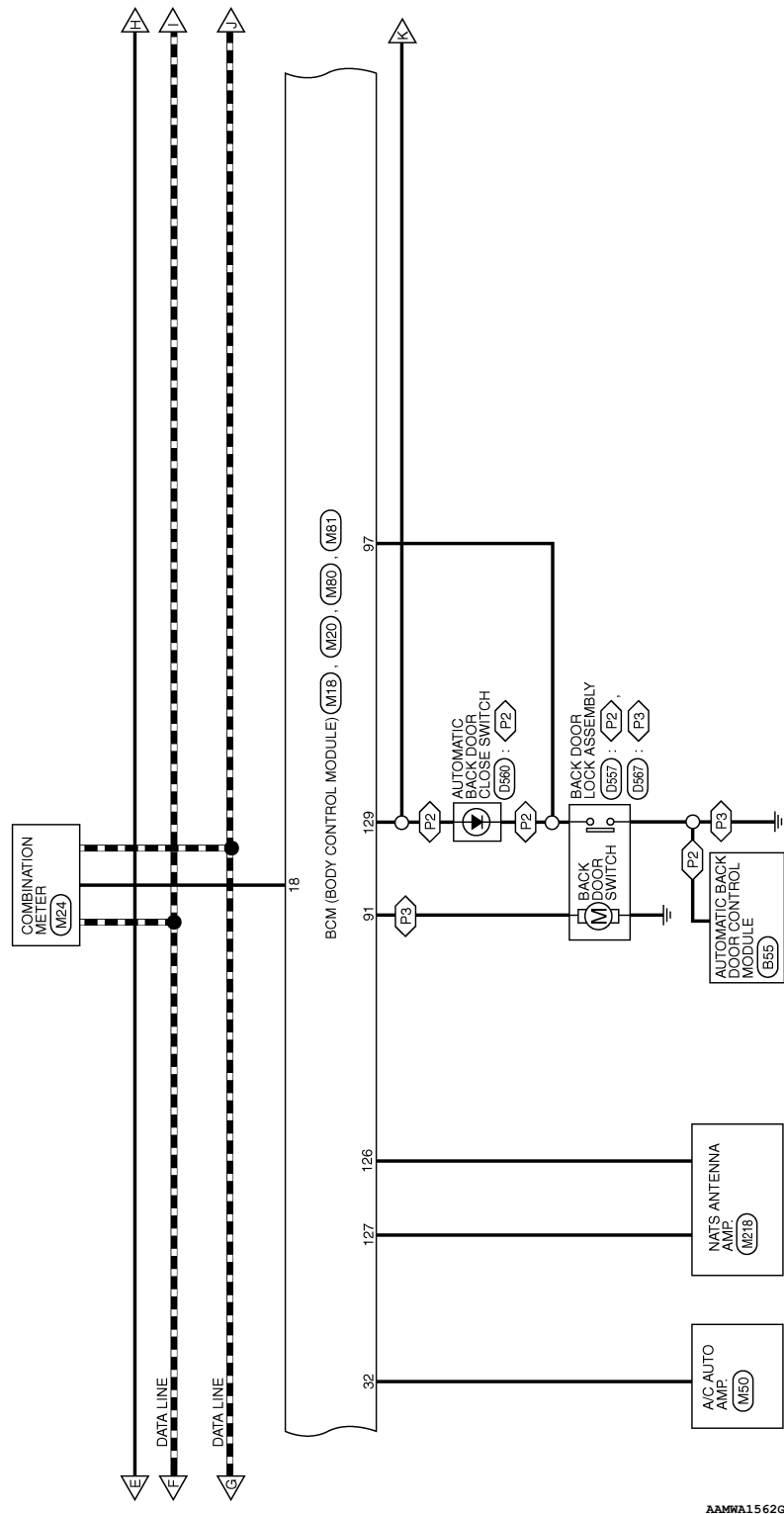
AAMWA1560GB

HM WITH HEATED MIRRORS



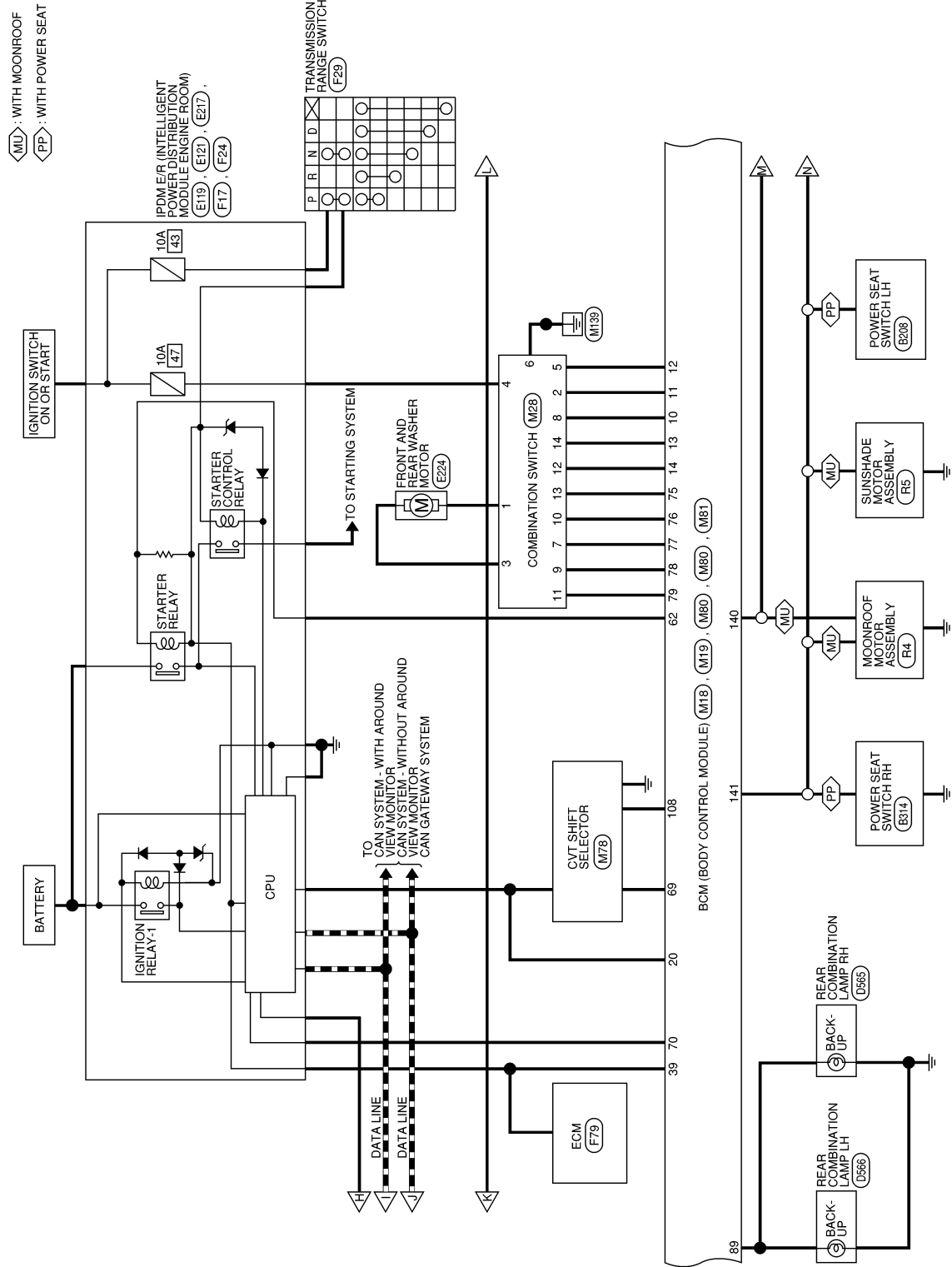
AAMWA1561GB

◊P2◊ : WITH AUTOMATIC BACK DOOR
 ◊P3◊ : WITHOUT AUTOMATIC BACK DOOR

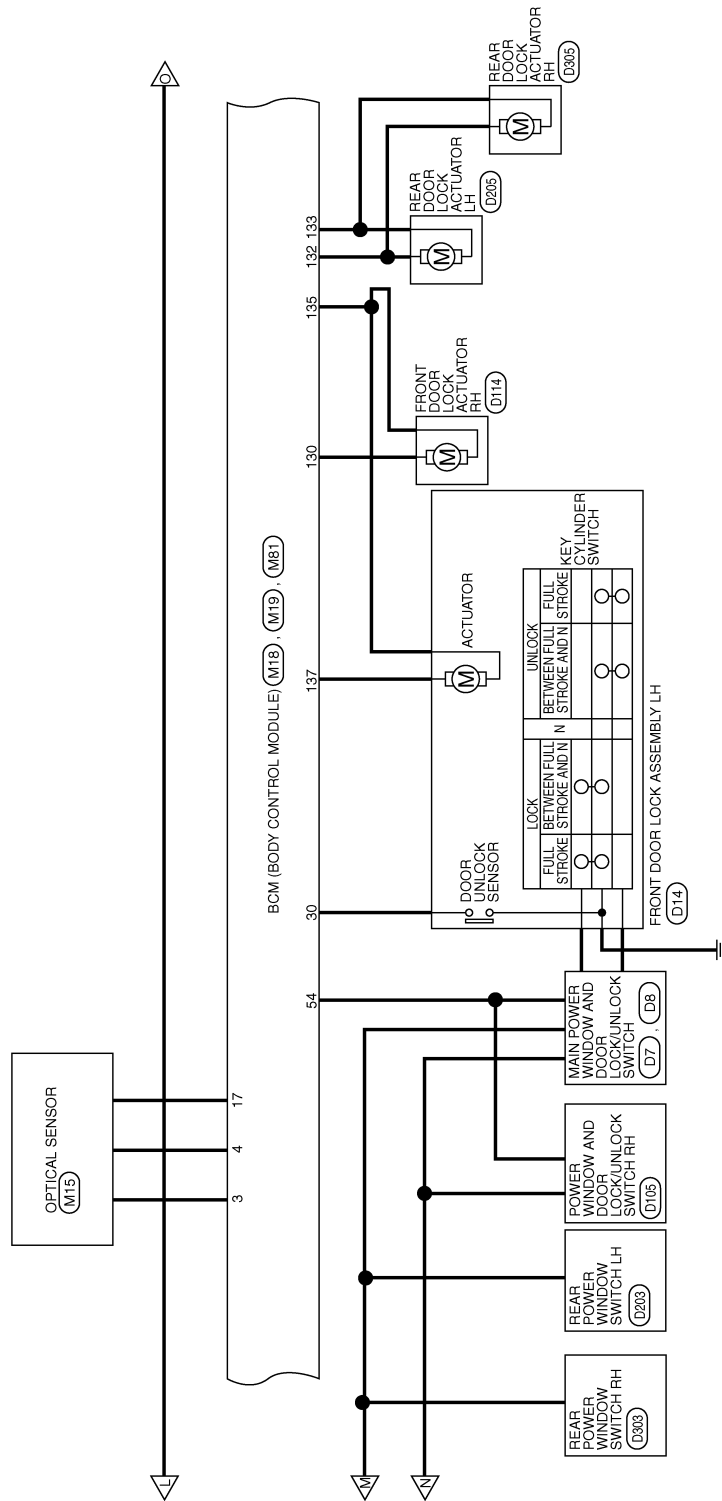


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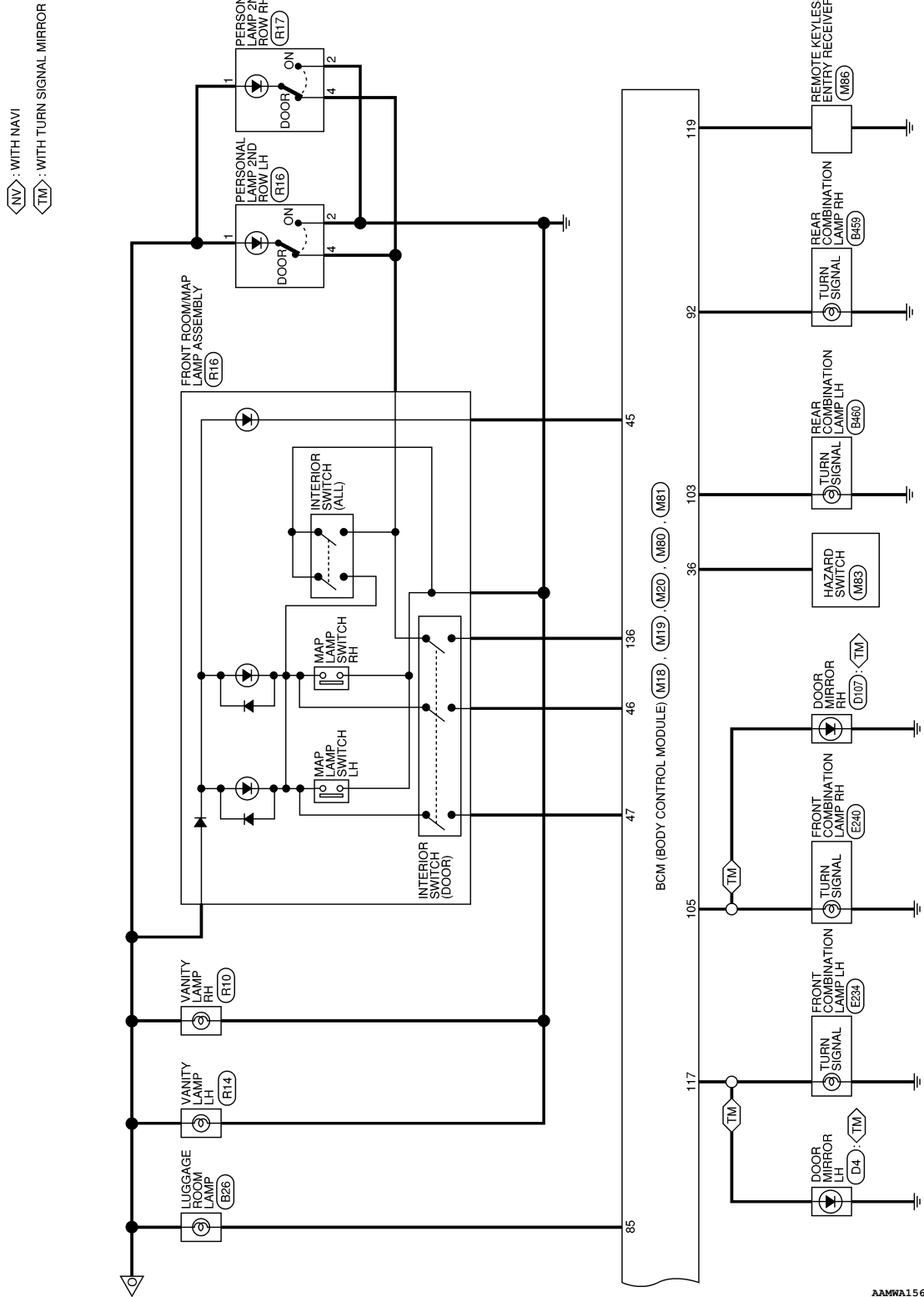


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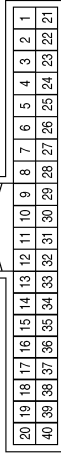
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AAMWA1565GB

BCM (BODY CONTROL MODULE) CONNECTORS

| | |
|-----------------|---------------------------|
| Connector No. | M18 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | GREEN |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|----------------------|
| 1 | G | ENG START SW NO ESCL |
| 2 | - | - |
| 3 | W | AVL POWER SUPPLY 5V |
| 4 | G | A/L SIGNAL |
| 5 | - | - |
| 6 | - | - |
| 7 | - | - |
| 8 | - | - |
| 9 | - | - |
| 10 | W | COMBI SW IN 5 |
| 11 | BG | COMBI SW IN 4 |
| 12 | R | COMBI SW IN 3 |
| 13 | G | COMBI SW IN 2 |
| 14 | P | COMBI SW IN 1 |
| 15 | - | - |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|---------------------|
| 16 | - | - |
| 17 | R | GND RF A/L |
| 18 | V | SECURITY INDICATOR |
| 19 | - | - |
| 20 | W | SHIFT P |
| 21 | - | - |
| 22 | - | - |
| 23 | - | - |
| 24 | - | - |
| 25 | W | BRAKE SW FUSE |
| 26 | L | SHORTING INPUT |
| 27 | G | BRAKE SW LAMP |
| 28 | - | - |
| 29 | - | - |
| 30 | P | DR DOOR LOCK STATUS |
| 31 | - | - |
| 32 | Y | REAR DEFOGGER SW |
| 33 | - | - |
| 34 | - | - |
| 35 | - | - |
| 36 | W | HAZARD SW |
| 37 | - | - |
| 38 | - | - |
| 39 | G | SHIFT N/P |
| 40 | - | - |

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AAMIA3128GB

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|-----------------|---------------------------|
| Connector No. | M19 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | BLACK |



| | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 60 | 59 | 58 | 57 | 56 | 55 | 54 | 53 | 52 | 51 | 50 | 49 | 48 | 47 | 46 | 45 | 44 | 43 | 42 | 41 |
| 80 | 79 | 78 | 77 | 76 | 75 | 74 | 73 | 72 | 71 | 70 | 69 | 68 | 67 | 66 | 65 | 64 | 63 | 62 | 61 |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|------------------------|
| 41 | - | - |
| 42 | - | - |
| 43 | - | - |
| 44 | - | - |
| 45 | BR | SHIFT SPOT LAMP |
| 46 | P | AS SEAT LAMP OUT |
| 47 | BG | DR SEAT LAMP OUT |
| 48 | P | HIGH SIDE START SW LED |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------------------|
| 49 | - | - |
| 50 | - | - |
| 51 | - | - |
| 52 | W | AUDIO DONGLE |
| 53 | - | - |
| 54 | W | PW LIN |
| 55 | - | - |
| 56 | - | - |
| 57 | - | - |
| 58 | - | - |
| 59 | P | CAN-L |
| 60 | L | CAN-H |
| 61 | BG | REAR DEFOGGER RELAY OUT |
| 62 | W | STARTER RELAY OUT |
| 63 | - | - |
| 64 | P | BUZZER OUT |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|------------------------------------|
| 65 | - | - |
| 66 | W | BLOWER FAN RELAY OUT |
| 67 | G | IGN ELEC RELAY OUT 2 |
| 68 | L | MR OUTPUT (WITH NAVIGATION SYSTEM) |
| 68 | R | MR OUTPUT (WITH DISPLAY AUDIO) |
| 69 | G | AT DEVICE OUT |
| 70 | P | IGN USM OUT 1 |
| 71 | R | DR REQUEST SW |
| 72 | G | AS REQUEST SW |
| 73 | - | - |
| 74 | - | - |
| 75 | BG | COMBI SW OUT 5 |
| 76 | P | COMBI SW OUT 4 |
| 77 | R | COMBI SW OUT 3 |
| 78 | G | COMBI SW OUT 2 |
| 79 | W | COMBI SW OUT 1 |
| 80 | R | BACK DOOR OPEN SW |

| | |
|-----------------|---------------------------|
| Connector No. | M20 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | GRAY |



| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|
| 32 | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 |
| 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 95 | 94 | 93 |

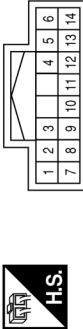
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|---------------------|
| 81 | L | BAT REAR WIPER FUSE |
| 82 | W | RL DOOR SW |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|----------------------|
| 83 | BG | BACK DOOR REQUEST SW |
| 84 | BR | R WIPER AUTOSTOP SW |
| 85 | BG | TRUNK LAMP CONT |
| 86 | - | - |
| 87 | - | - |
| 88 | - | - |
| 89 | LG | REVERSE LAMP OUT |
| 90 | - | - |
| 91 | BR | BACK DOOR OPEN OUT |
| 92 | R | RR FLASHER |
| 93 | R | RR DOOR SW |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-----------------|
| 94 | G | AS DOOR SW |
| 95 | V | REAR WIPER OUT |
| 96 | BG | DR DOOR SW |
| 97 | W | BACK DOOR SW |
| 98 | - | - |
| 99 | P | ROOM ANT 3 B |
| 100 | W | ROOM ANT 3 A |
| 101 | R | BACK DOOR ANT B |
| 102 | G | BACK DOOR ANT A |
| 103 | BG | RL FLASHER |
| 104 | - | - |

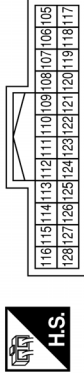
AAMIA31296B

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|-----------------|--------------------|
| Connector No. | M28 |
| Connector Name | COMBINATION SWITCH |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | LG | - |
| 2 | BG | - |
| 3 | Y | - |
| 4 | Y | - |
| 5 | R | - |
| 6 | GR | - |
| 7 | R | - |
| 8 | W | - |
| 9 | G | - |
| 10 | P | - |
| 11 | W | - |
| 12 | P | - |
| 13 | BG | - |
| 14 | G | - |

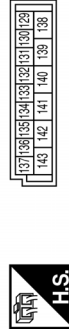
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| Connector No. | M80 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | BLACK |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------------------|
| 105 | LG | FR SR FR FLASHER |
| 106 | - | - |
| 107 | W | LOW SIDE START SW LED |
| 108 | G | SHIFT LOCK SOLENOID OUT |
| 109 | G | REVERSE SIGNAL |
| 110 | - | - |
| 111 | LG | ACC LED |
| 112 | - | - |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|---------------|
| 113 | L | ACC RELAY OUT |
| 114 | W | AS DOOR ANT A |
| 115 | BG | AS DOOR ANT B |
| 116 | W | ROOM ANT 2 A |
| 117 | SB | FL SL FLASHER |
| 118 | - | - |
| 119 | R | RF NIMOCO |
| 120 | - | - |
| 121 | G | DR DOOR ANT B |
| 122 | GR | DR DOOR ANT A |
| 123 | W | ROOM ANT 1 A |
| 124 | G | ROOM ANT 1 B |
| 125 | - | - |
| 126 | P | IMMO ANT B |
| 127 | BG | IMMO ANT A |
| 128 | R | ROOM ANT 2 B |

| | |
|-----------------|---------------------------|
| Connector No. | M81 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------------|
| 129 | SB | BATTERY SAVER OUT |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|---------------------------|
| 130 | LG | SUPER LOCK/DOOR UNLOCK AS |
| 131 | W | BAT BCM FUSE |
| 132 | BR | DOOR LOCK AS/RR/RL |
| 133 | Y | DOOR UNLOCK AS/RR/RL |
| 134 | GR | GND2 |
| 135 | L | DOOR LOCK DR/AS/FL |
| 136 | LG | ROOM LAMP CONT |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|----------------------|
| 137 | V | DOOR UNLOCK DR/AS/FL |
| 138 | V | BAT REAR DOOR |
| 139 | L | BAT POWER F/L |
| 140 | BR | P/W POWER SUPPLY IGN |
| 141 | Y | P/W POWER SUPPLY BAT |
| 142 | Y | BAT FRONT DOOR |
| 143 | GR | GND 1 |

A B C D E F G H I J K L N O P

BCS

BASIC INSPECTION

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM)

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT (BCM) : Description

INFOID:000000011216971

BEFORE REPLACEMENT

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

NOTE:

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

AFTER REPLACEMENT

CAUTION:

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

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

INFOID:000000011216972

1. SAVING VEHICLE SPECIFICATION

CONSULT

Enter "Re/Programming, Configuration" and perform "Before Replace ECU" to save or print current vehicle specification.

NOTE:

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

>> GO TO 2.

2. REPLACE BCM

Replace BCM. Refer to [BCS-82. "Removal and Installation"](#).

>> GO TO 3.

3. WRITING VEHICLE SPECIFICATION

CONSULT

1. Enter "Re/Programming, Configuration".
2. If "Before Replace ECU" operation was performed, automatically an "Operation Log Selection" screen will be displayed. Select the applicable file from the "Saved Data List" and press "Confirm" to write vehicle specification. Refer to [BCS-65. "CONFIGURATION \(BCM\) : Work Procedure"](#).
3. If "Before Replace ECU" operation was not performed, select "After Replace ECU" or "Manual Configuration" to write vehicle specification. Refer to [BCS-65. "CONFIGURATION \(BCM\) : Work Procedure"](#).

>> GO TO 4.

4. INITIALIZE BCM (NATS)

Perform BCM initialization. (NATS)

>> GO TO 5.

5. REGISTER INTELLIGENT KEYS

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

>> GO TO 6.

6. INITIALIZE TPMS

Perform TPMS initialization. Refer to [WT-28, "Work Procedure"](#).

>> Work End.

CONFIGURATION (BCM)

CONFIGURATION (BCM) : Description

INFOID:000000011216973

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

| Function | Description |
|--------------------------|--|
| "Before Replace ECU" | <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 manual selection. |
| "Select Saved Data List" | Writes the vehicle configuration with saved data. |

CAUTION:

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

CONFIGURATION (BCM) : Work Procedure

INFOID:000000011216974

1. WRITING MODE SELECTION

 CONSULT

Select "Reprogramming, Configuration" of BCM.

When writing saved data >> GO TO 2.

When writing manually >> GO TO 3.

2. PERFORM "SAVED DATA LIST"

 CONSULT

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

>> Work End.

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

 CONSULT

1. Select "After Replace ECU" or "Manual Configuration".
2. Identify the correct model and configuration list. Refer to [BCS-66, "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.

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INSPECTION AND ADJUSTMENT

[BCM]

< BASIC INSPECTION >

4. Select "Next".

CAUTION:

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

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

>> GO TO 4.

4. OPERATION CHECK

Confirm that each function controlled by BCM operates normally.

>> Work End.

CONFIGURATION (BCM) : Configuration List

INFOID:000000001167797

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 | |
| DONGLE | WITH ⇔ WITHOUT | <ul style="list-style-type: none"> • WITH: For Canada models • WITHOUT: Except for Canada models |
| CAN ERR DETECT HPCM or VCM | WITH ⇔ WITHOUT | <ul style="list-style-type: none"> • WITH: Hybrid models • WITHOUT: Gasoline engine and diesel engine models |
| CAN ERR DETECT ABD | WITH ⇔ WITHOUT | <ul style="list-style-type: none"> • WITH: Power back door • WITHOUT: Telematics not applied |
| CAN ERR DETECT TELEMATICS | WITH ⇔ WITHOUT | <ul style="list-style-type: none"> • WITH: Telematics applied • WITHOUT: Telematics not applied |
| KEY FOB FREQUENCY TYPE | MODE2 ⇔ MODE3 | <ul style="list-style-type: none"> • MODE2: With Intelligent Key system • MODE3: Without Intelligent Key system |
| KEYFOB TYPE | ENST/LCK/UNLCK/PBD ⇔ ENST/LCK/ UNLCK/ALRM ⇔ ENST/LCK/UNLCK/ BD/ALRM ⇔ LCK/UNLCK/ALRM ⇔ LCK/UNLCK/PBD ⇔ LCK/UNLCK | <ul style="list-style-type: none"> • ENST/LCK/UNLCK/PBD: 4 button (w/engine start) • ENST/LCK/UNLCK/ALRM: 4 button (w/engine start) • ENST/LCK/UNLCK/BD/ALRM: 5 button (w/engine start) • LCK/UNLCK/ALRM: 3 button (w/o engine start) • LCK/UNLCK/PBD: 3 button (w/o engine start) • LCK/UNLCK: 2 button (w/o engine start) |
| TRANSMISSION | AT with ABS | <ul style="list-style-type: none"> • AT with ABS: Automatic transmission with ABS models |
| AUTO CRANK TIME | MODE1 ⇔ MODE3 | <ul style="list-style-type: none"> • MODE1: VQ35DE engine models |

SHIPPING MODE CANCEL OPERATION

< BASIC INSPECTION >

[BCM]

SHIPPING MODE CANCEL OPERATION

Work Procedure

INFOID:000000011772782

1. SHIPPING MODE CANCEL OPERATION

1. Turn ignition switch OFF.
2. Press in (turn on) the extended storage switch. Refer to [PG-81, "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 warning message is not displayed in combination meter or display.

>> Work End.

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TRANSIT MODE CANCEL OPERATION

< BASIC INSPECTION >

[BCM]

TRANSIT MODE CANCEL OPERATION

Description

INFOID:000000011772784

1. TRANSIT MODE CANCEL OPERATION

1. Turn ignition switch OFF.
2. Do the following at the same time for 2 seconds:
 - Move front wiper switch to HI position (all the way down)
 - Move turn signal switch to left position (all the way down)

>> GO TO 2.

2. TRANSIT MODE CANCEL CHECK

1. Turn front wiper switch and turn signal switch OFF.
2. Turn ignition switch ON.
3. Check that turn signal indicators in combination meter do not turn ON.

>> Work End.

U1000 CAN COMM CIRCUIT

[BCM]

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

DTC Description

INFOID:0000000011216979

Description

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

DTC DETECTION LOGIC

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

POSSIBLE CAUSE

CAN communication system

FAIL-SAFE

—

Diagnosis Procedure

INFOID:0000000011216980

1. SELF DIAGNOSTIC RESULT

CONSULT

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

Is DTC "U1000" displayed?

YES >> Refer to [LAN-21. "Trouble Diagnosis Flow Chart"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-42. "Intermittent Incident"](#).

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

BCS

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

U1010 CONTROL UNIT (CAN)

DTC Description

INFOID:000000011216981

DTC DETECTION LOGIC

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

POSSIBLE CAUSE

- BCM

FAIL-SAFE

—

Diagnosis Procedure

INFOID:000000011216982

1. REPLACE BCM

When DTC U1010 is detected, replace BCM.

>> Replace BCM. Refer to [BCS-82. "Removal and Installation"](#).

U0415 VEHICLE SPEED SIG

[BCM]

< DTC/CIRCUIT DIAGNOSIS >

U0415 VEHICLE SPEED SIG

DTC Description

INFOID:0000000011216984

DTC DETECTION LOGIC

| DTC No. | CONSULT screen terms (Trouble diagnosis content) | DTC Detection Condition | |
|---------|---|-------------------------|-----------------------------|
| | | Diagnosis condition | When ignition switch is ON. |
| U1000 | VEHICLE SPEED (Vehicle speed) | Signal (terminal) | — |
| | | Threshold | — |
| | | Diagnosis delay time | 2 seconds or more |
| | | | |

POSSIBLE CAUSE

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

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1. DTC CONFIRMATION PROCEDURE

ⓂCONSULT

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

Is any DTC detected?

- YES >> Refer to [BCS-71, "Diagnosis Procedure"](#).
- NO-1 >> To check malfunction symptom before repair: Refer to [GI-42, "Intermittent Incident"](#).
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:0000000011216985

1. SELF DIAGNOSTIC RESULT

ⓂCONSULT

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

Is any DTC detected?

- YES >> Repair or replace the malfunctioning part.
- NO >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

BCS

B2562 LOW VOLTAGE

[BCM]

< DTC/CIRCUIT DIAGNOSIS >

B2562 LOW VOLTAGE

DTC Description

INFOID:000000011216986

DTC DETECTION LOGIC

| DTC No. | CONSULT screen terms (Trouble diagnosis content) | DTC Detection Condition | |
|---------|---|-------------------------|---|
| | | Diagnosis condition | When ignition switch is ON. |
| B2562 | LOW VOLTAGE (Low voltage) | Signal (terminal) | BCM power circuit (terminal 139 and 131 and ground) |
| | | Threshold | Less than 8.8V |
| | | Diagnosis delay time | 120 seconds or more |
| | | | |

POSSIBLE CAUSE

- Harness or connector (power supply circuit)
- BCM

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1. DTC CONFIRMATION PROCEDURE

Ⓢ CONSULT

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

Is any DTC detected?

- YES >> Refer to [BCS-72, "Diagnosis Procedure"](#).
- NO-1 >> To check malfunction symptom before repair: Refer to [GI-42, "Intermittent Incident"](#).
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:000000011216987

1. CHECK POWER SUPPLY CIRCUIT

Check BCM power supply circuit. Refer to [BCS-75, "Diagnosis Procedure"](#).

Is the circuit normal?

- YES >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).
- NO >> Repair the malfunctioning part.

B259A ROOM LAMP FUSE

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

B259A ROOM LAMP FUSE

DTC Description

INFOID:0000000011216988

DTC DETECTION LOGIC

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

POSSIBLE CAUSE

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

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1. DTC CONFIRMATION PROCEDURE

ⓂCONSULT

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

Is any DTC detected?

- YES >> Refer to [BCS-73, "Diagnosis Procedure"](#).
- NO-1 >> To check malfunction symptom before repair: Refer to [GI-42, "Intermittent Incident"](#).
- NO-2 >> Confirmation after repair: Inspection End.

Diagnosis Procedure

INFOID:0000000011216989

Regarding Wiring Diagram information, refer to [BCS-55, "Wiring Diagram"](#).

1. CHECK FUSE

Check that the following fuse is not blown.

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

Is the fuse or fusible link blown?

- YES >> Replace the blown fuse after repairing the affected circuit.
- NO >> GO TO 2.

2. CHECK BAT BCM FUSE CIRCUIT

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

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B259A ROOM LAMP FUSE

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

| BCM | | Ground | Voltage (Approx.) |
|-----------|----------|--------|----------------------|
| Connector | Terminal | | |
| M81 | 131 | — | Battery voltage |

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

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

3. CHECK BATTERY SAVER OUTPUT CIRCUIT FOR SHORT TO GROUND

1. Turn ignition OFF.
2. Check continuity between BCM connector M81 terminal 129 and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | | |
| M81 | 129 | — | No |

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

NO >> Repair or replace harness or connectors.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000011216990

Regarding Wiring Diagram information, refer to [BCS-55. "Wiring Diagram"](#).

1. CHECK FUSE AND FUSIBLE LINK

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

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

Is the fuse or fusible link blown?

- YES >> Replace the blown fuse or fusible link after repairing the affected circuit.
NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

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

| BCM | | Ground | Voltage (Approx.) |
|-----------|----------|--------|-------------------|
| Connector | Terminal | | |
| M81 | 131 | — | Battery voltage |
| | 139 | | |

Is the inspection result normal?

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

3. CHECK GROUND CIRCUIT

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

| BCM | | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | | |
| M81 | 134 | — | Yes |
| | 143 | | |

Is the inspection result normal?

- YES >> Inspection End.
NO >> Repair or replace harness or connectors.

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COMBINATION SWITCH INPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

COMBINATION SWITCH INPUT CIRCUIT

Diagnosis Procedure

INFOID:000000011216991

Regarding Wiring Diagram information, refer to [BCS-55. "Wiring Diagram"](#).

1. CHECK INPUT 1 - 5 SYSTEM CIRCUIT FOR OPEN

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

| Combination switch signal | BCM | | Combination switch | | Continuity |
|---------------------------|-----------|----------|--------------------|----------|------------|
| | Connector | Terminal | Connector | Terminal | |
| INPUT 1 | M19 | 79 | M28 | 11 | Yes |
| INPUT 2 | | 78 | | 9 | |
| INPUT 3 | | 77 | | 7 | |
| INPUT 4 | | 76 | | 10 | |
| INPUT 5 | | 75 | | 13 | |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connectors.

2. CHECK INPUT 1 - 5 SYSTEM CIRCUIT FOR SHORT

Check continuity between BCM connector M19 and ground.

| Combination switch signal | BCM | | Ground | Continuity |
|---------------------------|-----------|----------|--------|------------|
| | Connector | Terminal | | |
| INPUT 1 | M19 | 79 | Ground | No |
| INPUT 2 | | 78 | | |
| INPUT 3 | | 77 | | |
| INPUT 4 | | 76 | | |
| INPUT 5 | | 75 | | |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3. CHECK BCM OUTPUT VOLTAGE

1. Connect BCM connector M19 and combination switch connector.
2. Turn ignition switch ON.
3. Check voltage between BCM connector M19 and ground.

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

COMBINATION SWITCH INPUT CIRCUIT

[BCM]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace the combination switch. Refer to [BCS-83, "Removal and Installation"](#).

NO >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

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COMBINATION SWITCH OUTPUT CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BCM]

COMBINATION SWITCH OUTPUT CIRCUIT

Diagnosis Procedure

INFOID:000000011216992

Regarding Wiring Diagram information, refer to [BCS-55. "Wiring Diagram"](#).

1. CHECK OUTPUT 1 - 5 SYSTEM CIRCUIT FOR OPEN

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

| Combination switch signal | BCM | | Combination switch | | Continuity |
|---------------------------|-----------|----------|--------------------|----------|------------|
| | Connector | Terminal | Connector | Terminal | |
| OUTPUT 1 | M18 | 14 | M28 | 12 | Yes |
| OUTPUT 2 | | 13 | | 14 | |
| OUTPUT 3 | | 12 | | 5 | |
| OUTPUT 4 | | 11 | | 2 | |
| OUTPUT 5 | | 10 | | 8 | |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connectors.

2. CHECK OUTPUT 1 - 5 SYSTEM CIRCUIT FOR SHORT

Check continuity between BCM connector M18 and ground.

| Combination switch signal | BCM | | Ground | Continuity |
|---------------------------|-----------|----------|--------|------------|
| | Connector | Terminal | | |
| OUTPUT 1 | M18 | 14 | Ground | No |
| OUTPUT 2 | | 13 | | |
| OUTPUT 3 | | 12 | | |
| OUTPUT 4 | | 11 | | |
| OUTPUT 5 | | 10 | | |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3. CHECK BCM INPUT VOLTAGE

1. Connect BCM connector M18 and combination switch connector.
2. Turn ignition switch ON.
3. Check voltage between BCM connector M18 and ground.

| Combination switch signal | BCM | | Ground | Voltage |
|---------------------------|-----------|----------|--------|--|
| | Connector | Terminal | | |
| OUTPUT 1 | M18 | 14 | — | Refer to BCS-30. "Reference Value" . |
| OUTPUT 2 | | 13 | | |
| OUTPUT 3 | | 12 | | |
| OUTPUT 4 | | 11 | | |
| OUTPUT 5 | | 10 | | |

COMBINATION SWITCH OUTPUT CIRCUIT

[BCM]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-82. "Removal and Installation"](#).

NO >> Replace the combination switch. Refer to [BCS-83. "Removal and Installation"](#).

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COMBINATION SWITCH SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[BCM]

SYMPTOM DIAGNOSIS

COMBINATION SWITCH SYSTEM SYMPTOMS

Symptom Table

INFOID:0000000011216993

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

Malfunction item: ×

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

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

| Malfunction combination | Malfunctioning part | Repair or replace |
|-------------------------|-------------------------------------|---|
| A | Combination switch INPUT 1 circuit | Inspect the combination switch input circuit applicable to the malfunctioning part. Refer to BCS-76, "Diagnosis Procedure" . |
| B | Combination switch INPUT 2 circuit | |
| C | Combination switch INPUT 3 circuit | |
| D | Combination switch INPUT 4 circuit | |
| E | Combination switch INPUT 5 circuit | |
| F | Combination switch OUTPUT 1 circuit | Inspect the combination switch output circuit applicable to the malfunctioning part. Refer to BCS-78, "Diagnosis Procedure" . |
| G | Combination switch OUTPUT 2 circuit | |
| H | Combination switch OUTPUT 3 circuit | |
| I | Combination switch OUTPUT 4 circuit | |
| J | Combination switch OUTPUT 5 circuit | |
| K | BCM | Replace BCM. Refer to BCS-82, "Removal and Installation" . |
| L | Combination switch | Replace the combination switch. Refer to BCS-83, "Removal and Installation" . |

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BCM]

NORMAL OPERATING CONDITION

Description

INFOID:000000011772785

SHIPPING MODE

- Shipping mode inhibits battery power consumption during transportation or storage of the vehicle. Vehicle is set to shipping mode before being shipped from the factory.
- When ignition switch is OFF, BCM operates shipping mode.
- BCM control function is limited in shipping mode. Remote keyless entry function does not operate in shipping mode.
- For shipping mode cancel operation, refer to [BCS-67, "Work Procedure"](#).

NOTE:

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

TRANSIT MODE

- BCM is in transit mode if turn signal indicators in combination meter illuminate for 1 minute when ignition switch is turned from OFF to ON.
- In this case, cancel operation must be performed.
- For transit mode cancel operation, refer to [BCS-68, "Description"](#).

NOTE:

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

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BCS

REMOVAL AND INSTALLATION

BCM

Removal and Installation

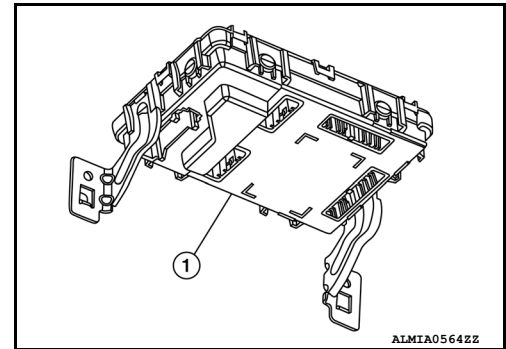
INFOID:000000011216994

CAUTION:

Before replacing the BCM, perform “READ CONFIGURATION” to save or print current vehicle specification. Refer to [BCS-64, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT \(BCM\) : Description"](#).

REMOVAL

1. Disconnect the negative battery terminal. Refer to [PG-86, "Removal and Installation"](#).
2. Remove the combination meter. Refer to [MWI-78, "Removal and Installation"](#).
3. Remove the BCM bolts.
4. Disconnect the harness connectors from the BCM (1) and remove.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- When replacing BCM, perform “WRITE CONFIGURATION”. Refer to [BCS-65, "CONFIGURATION \(BCM\) : Work Procedure"](#).
- When replacing BCM, perform the system initialization (NATS). Refer to [BCS-64, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT \(BCM\) : Work Procedure"](#).
- When replacing BCM, if new BCM does not come with key fobs attached, all existing key fobs must be re-registered. Refer to the CONSULT immobilizer mode and follow the on-screen instructions.

COMBINATION SWITCH

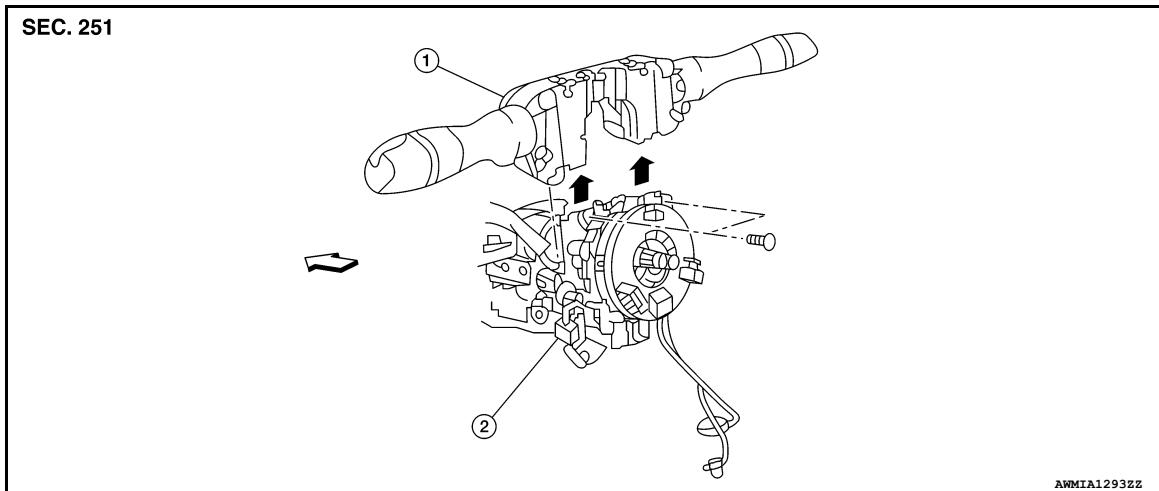
< REMOVAL AND INSTALLATION >

[BCM]

COMBINATION SWITCH

Exploded View

INFOID:000000011216995



1. Combination switch

2. Combination switch harness connector ← Front

Removal and Installation

INFOID:000000011216996

REMOVAL

1. Disconnect both the negative and positive battery terminals, then wait at least three minutes. Refer to [PG-86, "Exploded View"](#).
2. Remove the steering column covers. Refer to [ST-32, "Removal and Installation"](#).
3. Remove the combination switch screws.
4. Disconnect the harness connector from the combination switch and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- After the work is completed, make sure no system malfunction is detected by air bag warning lamp.
- In case a malfunction is detected by the air bag warning lamp, reset with the self-diagnosis function and delete the memory with CONSULT.
- If a malfunction is still detected after the above operation, perform self-diagnosis to repair malfunctions. Refer to [SRC-17, "SRS Final Check"](#).

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