

SECTION WCS

WARNING CHIME SYSTEM

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

CONTENTS

| | | | |
|--|----|--|----|
| BASIC INSPECTION | 3 | PARKING BRAKE RELEASE WARNING CHIME : System Description | 10 |
| DIAGNOSIS AND REPAIR WORKFLOW | 3 | PARKING BRAKE RELEASE WARNING CHIME : Component Parts Location | 11 |
| Work Flow | 3 | PARKING BRAKE RELEASE WARNING CHIME : Component Description | 11 |
| SYSTEM DESCRIPTION | 4 | DIAGNOSIS SYSTEM (METER) | 13 |
| WARNING CHIME SYSTEM | 4 | Diagnosis Description | 13 |
| WARNING CHIME SYSTEM | 4 | CONSULT Function (METER/M&A) | 13 |
| WARNING CHIME SYSTEM : System Diagram | 4 | DIAGNOSIS SYSTEM (BCM) | 16 |
| WARNING CHIME SYSTEM : System Description | 4 | BUZZER | 16 |
| WARNING CHIME SYSTEM : Component Parts Location | 5 | BUZZER : CONSULT Function (BCM - BUZZER)... | 16 |
| WARNING CHIME SYSTEM : Component De- scription | 5 | DTC/CIRCUIT DIAGNOSIS | 17 |
| LIGHT REMINDER WARNING CHIME | 6 | POWER SUPPLY AND GROUND CIRCUIT | 17 |
| LIGHT REMINDER WARNING CHIME : System Diagram | 6 | COMBINATION METER | 17 |
| LIGHT REMINDER WARNING CHIME : System Description | 6 | COMBINATION METER : Diagnosis Procedure | 17 |
| LIGHT REMINDER WARNING CHIME : Compo- nent Parts Location | 7 | BCM (BODY CONTROL MODULE) | 17 |
| LIGHT REMINDER WARNING CHIME : Compo- nent Description | 7 | BCM (BODY CONTROL MODULE) : Diagnosis Procedure | 18 |
| SEAT BELT WARNING CHIME | 8 | METER BUZZER CIRCUIT | 19 |
| SEAT BELT WARNING CHIME : System Diagram | 8 | Description | 19 |
| SEAT BELT WARNING CHIME : System Descrip- tion | 8 | Component Function Check | 19 |
| SEAT BELT WARNING CHIME : Component Parts Location | 9 | Diagnosis Procedure | 19 |
| SEAT BELT WARNING CHIME : Component De- scription | 9 | SEAT BELT BUCKLE SWITCH SIGNAL CIR- CUIT | 20 |
| PARKING BRAKE RELEASE WARNING CHIME | 10 | Description | 20 |
| PARKING BRAKE RELEASE WARNING CHIME : System Diagram | 10 | Component Function Check | 20 |
| | | Diagnosis Procedure | 20 |
| | | Component Inspection | 21 |
| | | ECU DIAGNOSIS INFORMATION | 22 |
| | | COMBINATION METER | 22 |
| | | Reference Value | 22 |

WCS

| | | | |
|--|-----------|--|-----------|
| Fail Safe | 25 | Description | 58 |
| DTC Index | 26 | Diagnosis Procedure | 58 |
| BCM (BODY CONTROL MODULE) | 27 | THE LIGHT REMINDER WARNING DOES | |
| Reference Value | 27 | NOT SOUND | 59 |
| Terminal Layout | 31 | Description | 59 |
| Physical Values | 32 | Diagnosis Procedure | 59 |
| Fail Safe | 47 | THE SEAT BELT WARNING CONTINUES | |
| DTC Inspection Priority Chart | 48 | SOUNDING, OR DOES NOT SOUND | 60 |
| DTC Index | 49 | Description | 60 |
| WIRING DIAGRAM | 52 | Diagnosis Procedure | 60 |
| WARNING CHIME SYSTEM | 52 | PRECAUTION | 61 |
| Wiring Diagram | 52 | PRECAUTIONS | 61 |
| SYMPTOM DIAGNOSIS | 58 | Precaution for Supplemental Restraint System | |
| THE PARKING BRAKE RELEASE WARNING | | (SRS) "AIR BAG" and "SEAT BELT PRE-TEN- | |
| CONTINUES SOUNDING, OR DOES NOT | | SIONER" | 61 |
| SOUND | 58 | | |

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000007251294

DETAILED FLOW

1.OBTAIN INFORMATION ABOUT SYMPTOM

Interview the customer to obtain as much information as possible about the conditions and environment under which the malfunction occurred.

>> GO TO 2

2.CHECK SYMPTOM

- Check the symptom based on the information obtained from the customer.
- Check to see if any other malfunctions are present.

>> GO TO 3

3.CHECK CONSULT SELF-DIAGNOSIS RESULTS

Connect CONSULT and perform "SELF-DIAGNOSIS". Refer to [MWI-29, "CONSULT Function \(METER/M&A\)"](#).

Are self-diagnosis results normal?

YES >> GO TO 4

NO >> Repair or replace the malfunctioning parts, GO TO 5

4.NARROW DOWN MALFUNCTIONING PARTS THROUGH SYMPTOM DIAGNOSIS

Perform symptom diagnosis and repair or replace the identified malfunctioning parts.

>> GO TO 5

5.FINAL CHECK

Check that the warning buzzer in the combination meter operates normally.

Does it operate normally?

YES >> Inspection End.

NO >> GO TO 1

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WARNING CHIME SYSTEM

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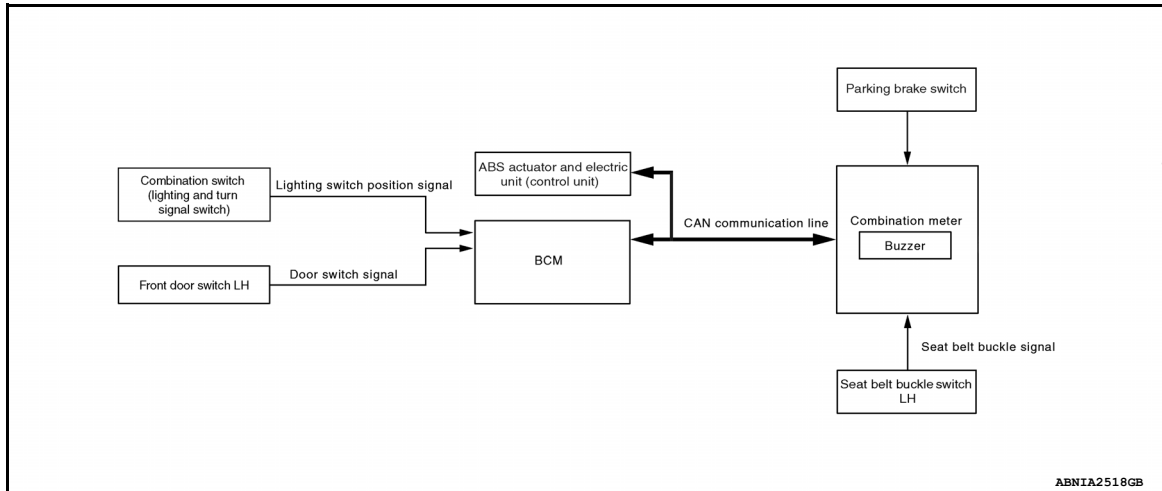
SYSTEM DESCRIPTION

WARNING CHIME SYSTEM

WARNING CHIME SYSTEM

WARNING CHIME SYSTEM : System Diagram

INFOID:000000007251295

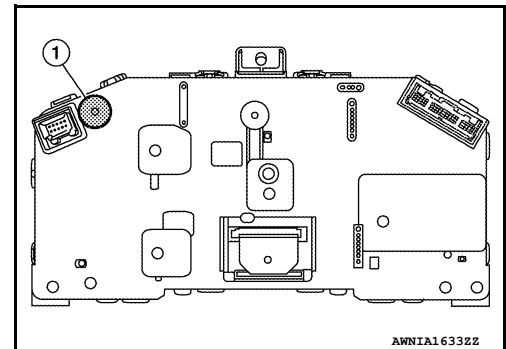


WARNING CHIME SYSTEM : System Description

INFOID:000000007251296

COMBINATION METER

- The buzzer (1) for warning chime system is installed in the combination meter.
- The buzzer sounds when the combination meter receives a buzzer output signal from each unit.



BCM

BCM receives signals from various units and transmits a buzzer output signal to the combination meter with CAN communication line if it judges that the warning buzzer should be activated.

BCM warning function list

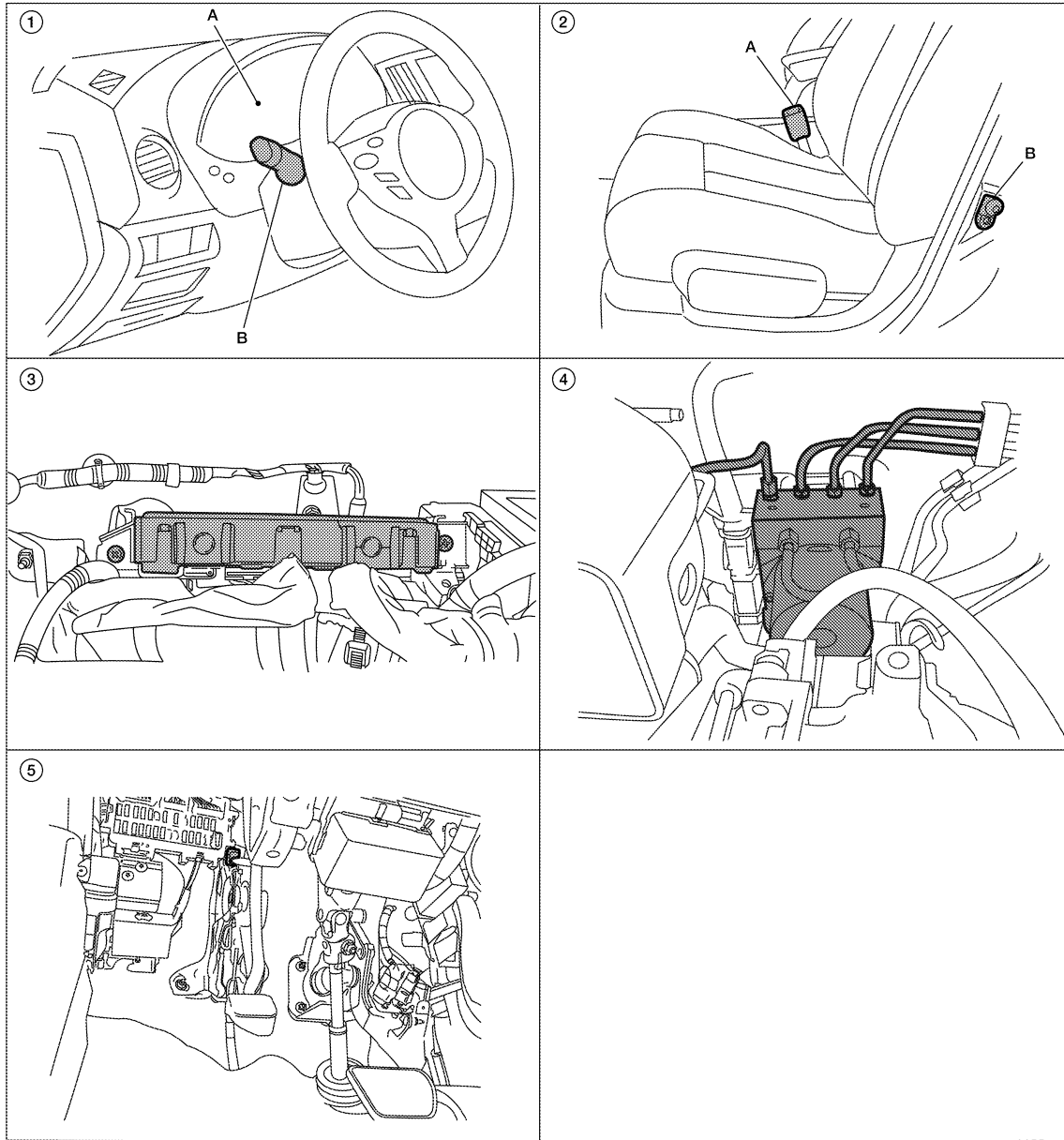
| Warning functions | Signal name |
|------------------------------|---|
| Light reminder warning chime | <ul style="list-style-type: none"> • Lighting switch position signal • Door switch signal |
| Seat belt warning chime | Seat belt buckle switch signal |

WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

WARNING CHIME SYSTEM : Component Parts Location

INFOID:000000007251297



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|--|--|---|
| <p>1. A. Combination meter M24 B. Combination switch (lighting and turn signal switch) M28</p> <p>4. ABS actuator and electric unit (control unit) E26</p> | <p>2. A. Seat belt buckle switch LH B202 B. Front door switch LH B8</p> <p>5. Parking brake switch E35 [view with instrument panel lower cover (LH) removed]</p> | <p>3. BCM M16, M17, M18, M19 (view with instrument panel removed)</p> |
|--|--|---|

ALNIA1155ZZ

WARNING CHIME SYSTEM : Component Description

INFOID:000000007251298

| Unit | Description |
|-------------------|--|
| Combination meter | <ul style="list-style-type: none"> Judges whether the parking brake is released using the vehicle speed signal and the parking brake switch signal, and sounds the buzzer if necessary. Receives the seat belt buckle switch signal from the seat belt buckle switch and transmits it to BCM with CAN communication line. Receives a buzzer output signal from BCM with CAN communication line. |
| BCM | Transmits signals provided by various units to the combination meter with CAN communication line. |

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WARNING CHIME SYSTEM

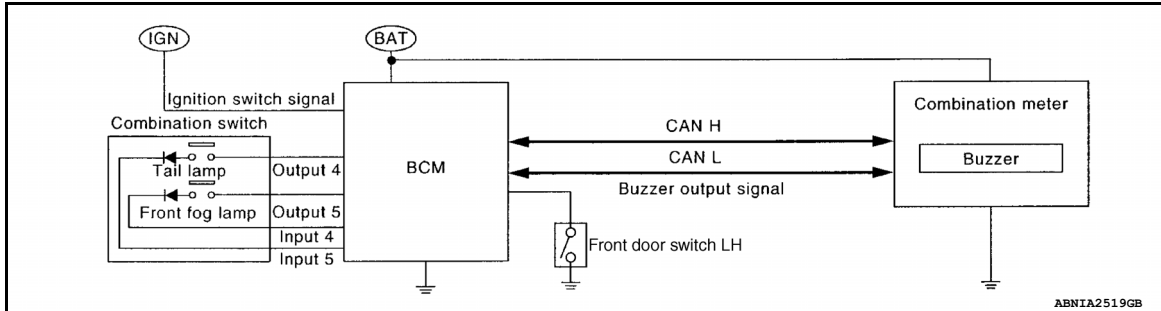
< SYSTEM DESCRIPTION >

| Unit | Description |
|--|--|
| ABS actuator and electric unit (control unit) | Transmits the vehicle speed signal to combination meter with CAN communication line. |
| Seat belt buckle switch LH | Transmits a seat belt buckle switch signal to the combination meter. |
| Combination switch (lighting and turn signal switch) | Transmits the lighting switch position signal to BCM. |
| Front door switch LH | Transmits the door switch signal to BCM. |
| Parking brake switch | Transmits parking brake signal to combination meter. |

LIGHT REMINDER WARNING CHIME

LIGHT REMINDER WARNING CHIME : System Diagram

INFOID:000000007251299



ABNIA2519GB

LIGHT REMINDER WARNING CHIME : System Description

INFOID:000000007251300

DESCRIPTION

With ignition switch in OFF or ACC position, driver door open, and lighting switch in 1ST or 2ND position, the light warning chime will sound.

- BCM detects ignition switch in OFF or ACC position, front door switch LH ON, and lighting switch in 1ST or 2ND position and then transmits buzzer output signal (light reminder warning chime) to combination meter with CAN communication line.
- When combination meter receives buzzer output signal (light reminder warning chime), it sounds the buzzer.

WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled

- Lighting switch is at 1st or 2nd position
- Ignition switch is at OFF or ACC
- Front door switch LH is ON

WARNING CANCEL CONDITIONS

Warning is canceled if any of the following conditions is fulfilled.

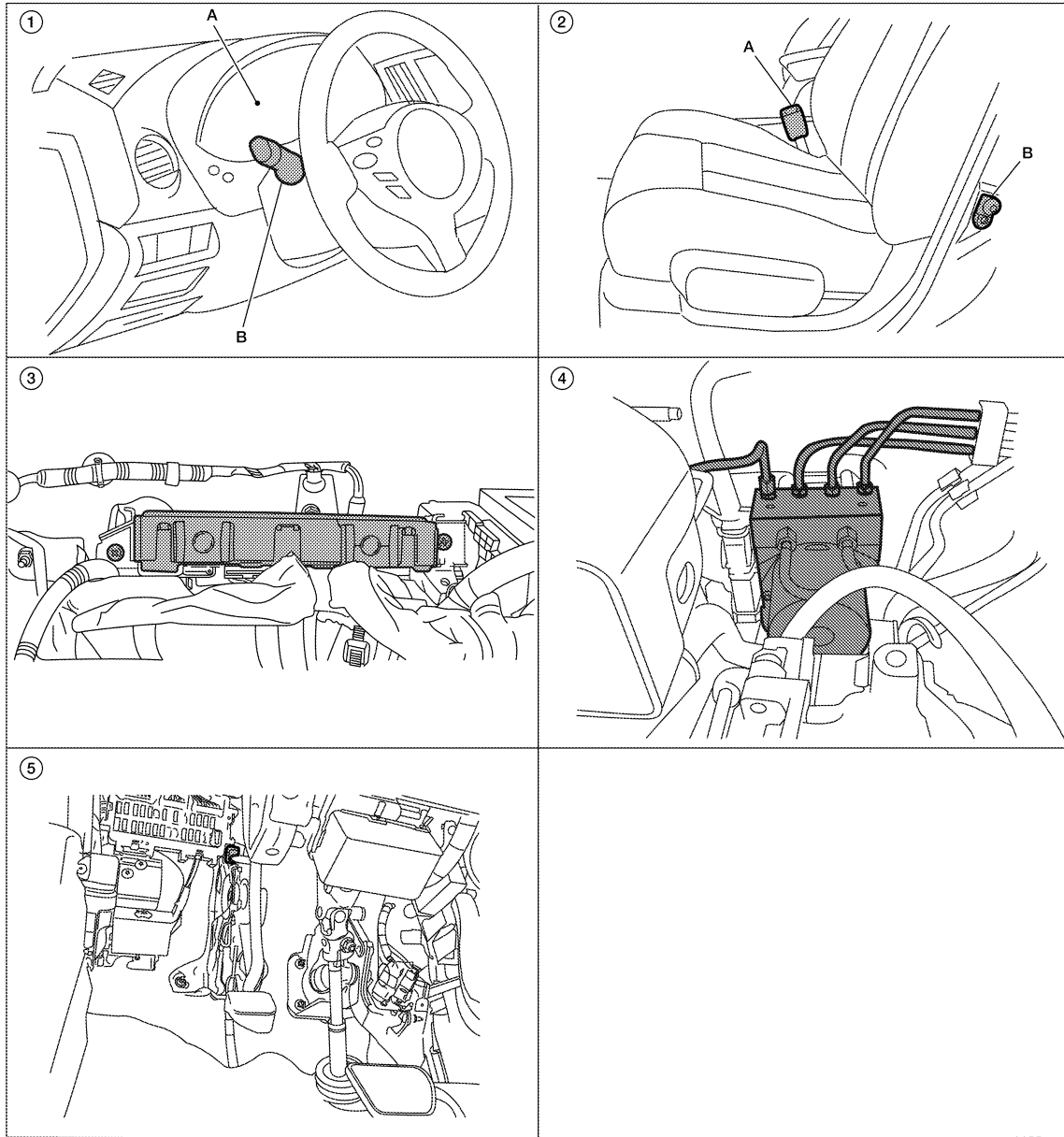
- Lighting switch OFF
- Ignition switch ON
- Front door switch LH is OFF

WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

LIGHT REMINDER WARNING CHIME : Component Parts Location

INFOID:000000007251301



- | | | |
|--|--|---|
| <p>1. A. Combination meter M24 B. Combination switch (lighting and turn signal switch) M28</p> | <p>2. A. Seat belt buckle switch LH B202 B. Front door switch LH B8</p> | <p>3. BCM M16, M17, M18, M19 (view with instrument panel removed)</p> |
| <p>4. ABS actuator and electric unit (control unit) E26</p> | <p>5. Parking brake switch E35 [view with instrument panel lower cover (LH) removed]</p> | |

ALNIA1155ZZ

LIGHT REMINDER WARNING CHIME : Component Description

INFOID:000000007251302

| Unit | Description |
|--|--|
| Combination meter | Receives a buzzer output signal from BCM via CAN communication line and sounds the buzzer. |
| BCM | Judges the light warning conditions from the signals provided by various switches and transmits a buzzer output signal to the combination meter via CAN communication line if necessary. |
| Combination switch (lighting and turn signal switch) | Transmits the lighting switch position signal to BCM. |
| Front door switch LH | Transmits the door switch signal to BCM. |

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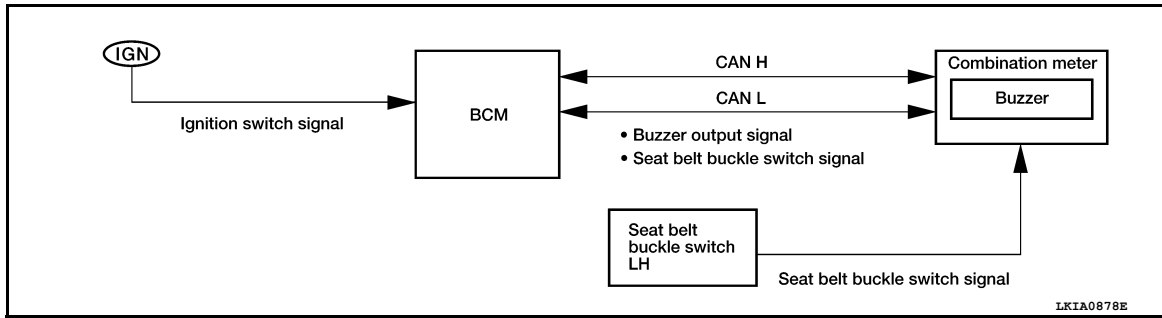
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WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

SEAT BELT WARNING CHIME

SEAT BELT WARNING CHIME : System Diagram



SEAT BELT WARNING CHIME : System Description

INFOID:000000007251304

DESCRIPTION

With ignition switch turned ON and driver seat belt unfastened, seat belt warning chime will sound for approximately 6 seconds.

- BCM receives seat belt buckle switch signal from combination meter with CAN communication line.
- BCM detects ignition switch turned ON and seat belt buckle switch LH ON and then transmits buzzer output signal (seat belt warning chime) to combination meter with CAN communication line.
- When combination meter receives buzzer output signal (seat belt warning chime), it sounds the buzzer.

WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled

- Ignition switch OFF→ON
- Seat buckle switch LH is ON (driver seat belt not fastened)

WARNING CANCEL CONDITIONS

Cancels the warning if any of the following conditions is fulfilled.

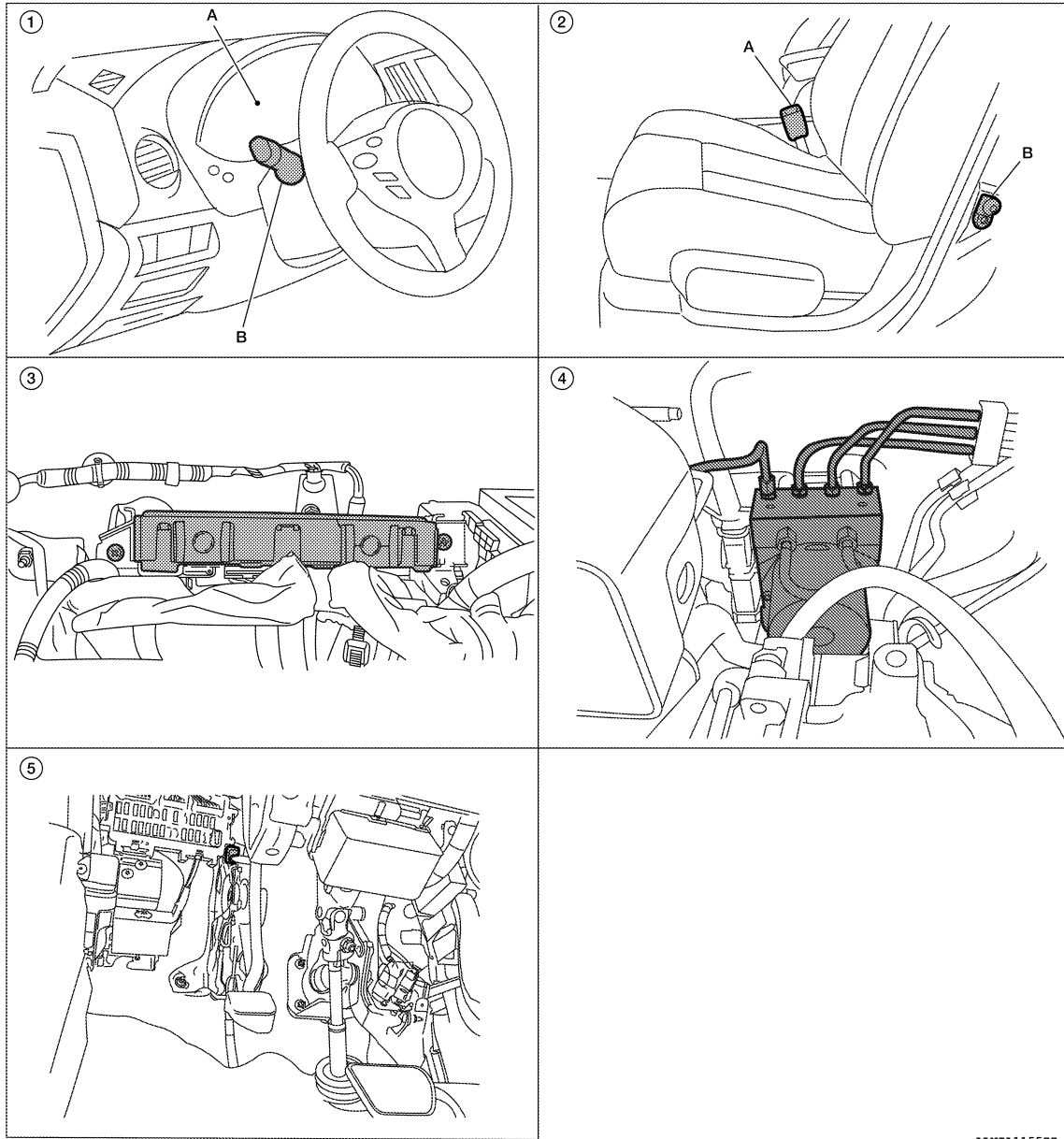
- Ignition switch OFF
- Seat buckle switch LH is OFF (driver seat belt fastened)
- 90 seconds have passed since the start of the warning

WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

SEAT BELT WARNING CHIME : Component Parts Location

INFOID:000000007251305



1. A. Combination meter M24
B. Combination switch (lighting and turn signal switch) M28
2. A. Seat belt buckle switch LH B202
B. Front door switch LH B8
3. BCM M16, M17, M18, M19 (view with instrument panel removed)
4. ABS actuator and electric unit (control unit) E26
5. Parking brake switch E35 [view with instrument panel lower cover (LH) removed]

ALNIA1155ZZ

SEAT BELT WARNING CHIME : Component Description

INFOID:000000007251306

| Unit | Description |
|----------------------------|--|
| Combination meter | <ul style="list-style-type: none"> Receives the seat belt buckle switch signal from the seat belt buckle switch and transmits it to BCM via CAN communication line. Receives a buzzer output signal from BCM via CAN communication line and sounds the buzzer. |
| BCM | Judges the seat belt warning condition from the seat belt buckle switch signal received from the combination meter and transmits a buzzer output signal to the combination meter via CAN communication line if necessary. |
| Seat belt buckle switch LH | Transmits seat belt buckle switch signal to combination meter. |

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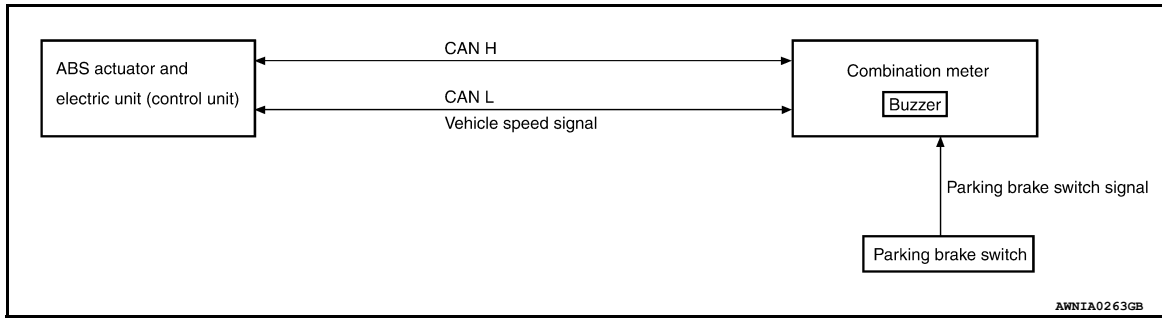
WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

PARKING BRAKE RELEASE WARNING CHIME

PARKING BRAKE RELEASE WARNING CHIME : System Diagram

INFOID:000000007251307



AWNIA.0263GB

PARKING BRAKE RELEASE WARNING CHIME : System Description

INFOID:000000007251308

DESCRIPTION

- The combination meter receives the vehicle speed signal from the ABS actuator and electric unit (control unit) via CAN communication line.
- The combination meter judges whether the parking brake is released using the parking brake switch signal from the parking brake switch, and sounds the warning buzzer if necessary.

WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled

- Vehicle speed is approximately 7 km/h (4.3 MPH) or higher
- Parking brake switch ON

WARNING CANCEL CONDITIONS

Warning is canceled if any of the following conditions is fulfilled.

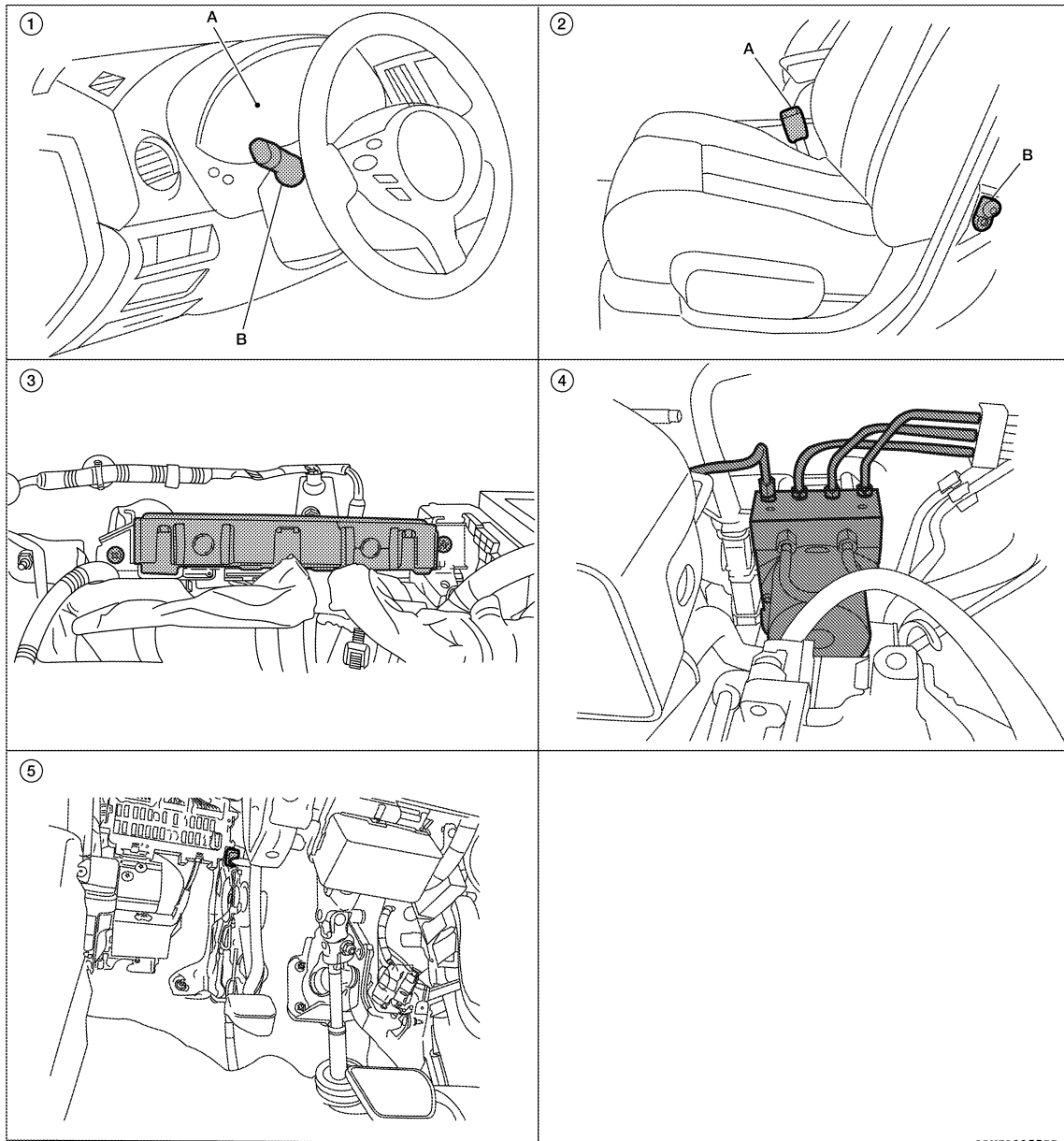
- Vehicle speed is approximately 3 km/h (1.9 MPH) or less
- Parking brake switch OFF

WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

PARKING BRAKE RELEASE WARNING CHIME : Component Parts Location

INFOID:000000007251309



- | | | |
|--|--|---|
| <p>1. A. Combination meter M24 B. Combination switch (lighting and turn signal switch) M28</p> <p>4. ABS actuator and electric unit (control unit) E26</p> | <p>2. A. Seat belt buckle switch LH B202 B. Front door switch LH B8</p> <p>5. Parking brake switch E35 [view with instrument panel lower cover (LH) removed]</p> | <p>3. BCM M16, M17, M18, M19 (view with instrument panel removed)</p> |
|--|--|---|

ALNIA1155Z

PARKING BRAKE RELEASE WARNING CHIME : Component Description

INFOID:000000007251310

| Unit | Description |
|-------------------|---|
| Combination meter | <ul style="list-style-type: none"> Judges whether the parking brake is released using the parking brake switch signal from the parking brake switch, and sounds the buzzer if necessary. Receives a vehicle speed signal from ABS actuator and electric unit (control unit) via CAN communication line. |

A
B
C
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F
G
H
I
J
K
L
M
O
P

WCS

WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

| Unit | Description |
|--|---|
| ABS actuator and electric unit (control unit) | Transmits the vehicle speed signal to combination meter via CAN communication line. |
| Parking brake switch | Transmits parking brake switch signal to the combination meter. |

DIAGNOSIS SYSTEM (METER)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (METER)

Diagnosis Description

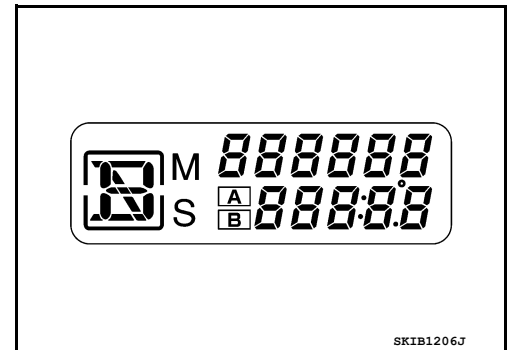
INFOID:000000007805673

SELF-DIAGNOSIS MODE

- Odo/trip meter and information display segment operation can be checked in self-diagnosis mode.
- Meters/gauges can be checked in self-diagnosis mode.

OPERATION PROCEDURE

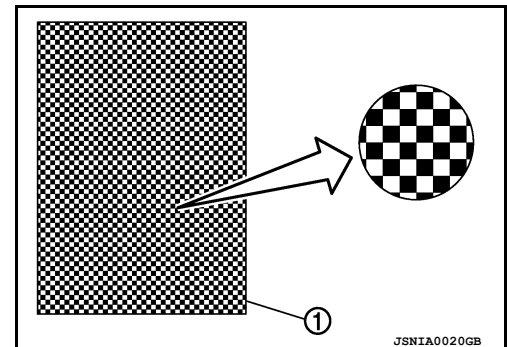
1. Turn the ignition switch OFF.
2. While pushing the odo/trip meter switch, turn the ignition switch ON again.
3. Push the odo/trip meter switch at least 3 times within 7 seconds after the ignition switch is turned ON.
4. The unified meter control unit is turned to self-diagnosis mode.
 - All the segments on the odo/trip meter illuminate.



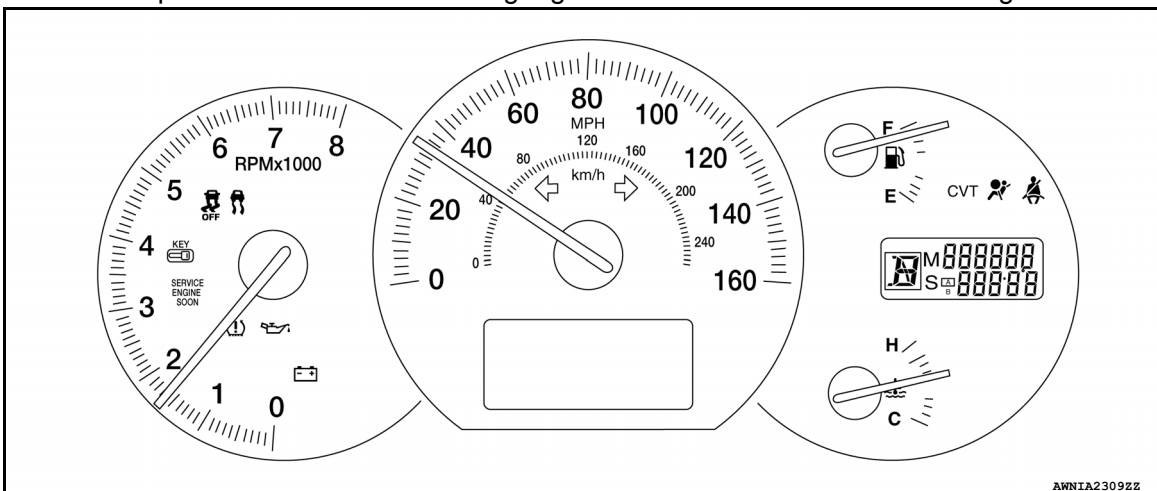
- Dots in all segments of information display LCD (1) flash alternately.

NOTE:

If any of the segments are not displayed, replace the combination meter. Refer to [MWI-121, "Removal and Installation"](#).



5. Push the odo/trip meter switch. Each meter/gauge should indicate as shown in the figure.



CONSULT Function (METER/M&A)

INFOID:000000007805674

CONSULT can display each diagnostic item using the diagnostic test modes shown following.

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B
C
D
E
F
G
H
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J
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L
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WCS

O
P

DIAGNOSIS SYSTEM (METER)

< SYSTEM DESCRIPTION >

| METER/M&A diagnosis mode | Description |
|--------------------------|--|
| SELF DIAGNOSTIC RESULT | Displays combination meter self-diagnosis results. |
| DATA MONITOR | Displays combination meter input/output data in real time. |
| CAN DIAG SUPPORT MNTR | The result of transmit/receive diagnosis of CAN communication can be read. |

SELF-DIAG RESULTS

Display Item List

Refer to [MWI-51, "DTC Index"](#).

DATA MONITOR

Display Item List

X: Applicable

| Display item [Unit] | MAIN SIGNALS | SELECTION FROM MENU | Description |
|------------------------------|--------------|---------------------|---|
| SPEED METER [km/h] or [mph] | X | X | Displays the value of vehicle speed signal. |
| SPEED OUTPUT [km/h] or [mph] | X | X | Displays the value of vehicle speed signal, which is transmitted to each unit with CAN communication. |
| ODO OUTPUT | | X | Displays the value, which is calculated by vehicle speed signal. |
| TACHO METER [rpm] | X | X | Displays the value of engine speed signal, which is input from ECM. |
| FUEL METER [lit.] | X | X | Displays the value, which processes a resistance signal from fuel gauge. |
| W TEMP METER [°C] or [°F] | X | X | Displays the value of engine coolant temperature signal, which is input from ECM. |
| ABS W/L [ON/OFF] | | X | Displays [ON/OFF] condition of ABS warning lamp. |
| VDC/TCS IND [ON/OFF] | | X | Displays [ON/OFF] condition of VDC/TCS OFF indicator lamp. |
| SLIP IND [ON/OFF] | | X | Displays [ON/OFF] condition of SLIP indicator lamp. |
| BRAKE W/L [ON/OFF] | | X | Displays [ON/OFF] condition of brake warning lamp.* |
| DOOR W/L [ON/OFF] | | X | Displays [ON/OFF] condition of door warning lamp. |
| TRUNK/GLAS-H [ON/OFF] | | X | Displays [ON/OFF] condition of trunk warning lamp. |
| HI-BEAM IND [ON/OFF] | | X | Displays [ON/OFF] condition of high beam indicator. |
| TURN IND [ON/OFF] | | X | Displays [ON/OFF] condition of turn indicator. |
| LIGHT IND [ON/OFF] | | X | Displays [ON/OFF] condition of light indicator. |
| OIL W/L [ON/OFF] | | X | Displays [ON/OFF] condition of oil pressure warning lamp. |
| MIL [ON/OFF] | | X | Displays [ON/OFF] condition of malfunction indicator lamp. |
| CRUISE IND [ON/OFF] | | X | Displays [ON/OFF] condition of CRUISE indicator. |
| CVT IND [ON/OFF] | | X | Displays [ON/OFF] condition of CVT warning lamp. |
| FUEL W/L [ON/OFF] | | X | Displays [ON/OFF] condition of low-fuel warning lamp. |
| WASHER W/L [ON/OFF] | | X | Displays [ON/OFF] condition of low washer fluid warning lamp. |
| AIR PRES W/L [ON/OFF] | | X | Displays [ON/OFF] condition of tire pressure warning lamp. |
| KEY G/Y W/L [ON/OFF] | | X | Displays [ON/OFF] condition of key warning lamp. |
| LCD | | X | Displays the value of Intelligent Key system message indication. |
| SHIFT IND [P, R, N, D, L] | | X | Displays [P, R, N, D, L] range position of CVT. |
| M RANGE SW [ON/OFF] | | X | Displays [ON/OFF] condition of manual mode range switch. |
| NM RANGE SW [ON/OFF] | | X | Displays [ON/OFF] condition of except for manual mode range switch. |
| ST SFT UP SW [ON/OFF] | | X | Displays [ON/OFF] condition of steering shift-up switch. |
| ST SFT DWN SW [ON/OFF] | | X | Displays [ON/OFF] condition of steering shift-down switch. |
| AT SFT UP SW [ON/OFF] | | X | Displays [ON/OFF] condition of CVT shift-up switch. |

DIAGNOSIS SYSTEM (METER)

< SYSTEM DESCRIPTION >

| Display item [Unit] | MAIN SIGNALS | SELECTION FROM MENU | Description |
|-------------------------|--------------|---------------------|--|
| AT SFT DWN SW [ON/OFF] | | X | Displays [ON/OFF] condition of CVT shift-down switch. |
| PKB SW [ON/OFF] | | X | Displays [ON/OFF] condition of parking brake switch. |
| BRAKE OIL SW [ON/OFF] | | X | Displays [ON/OFF] condition of brake fluid level switch. |
| MODE A SW [ON/OFF] | | X | Displays [ON/OFF] condition of mode switch A. |
| MODE B SW [ON/OFF] | | X | Displays [ON/OFF] condition of mode switch B. |
| DISTANCE [km] or [mile] | | X | Displays the value, which is calculated by vehicle speed signal, fuel gauge and fuel consumption from ECM. |
| OUTSIDE TEMP [°C] | | X | Displays the ambient air temperature, which is input from ambient sensor. |
| FUEL LOW SIG [ON/FF] | | X | Displays [ON/OFF] condition of low-fuel warning signal. |
| BUZZER [ON/OFF] | X | X | Displays [ON/OFF] condition of buzzer. |

NOTE:

Some items are not available due to vehicle specification.

*: The monitor will indicate "OFF" even though the brake warning lamp is on if either of the following conditions exist.

- The parking brake is engaged
- The brake fluid level is low

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D
E
F
G
H
I
J
K
L
M
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P

WCS

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

BUZZER

BUZZER : CONSULT Function (BCM - BUZZER)

INFOID:000000007805678

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 |
| KEY SW -SLOT [On/Off] | Indicates condition of key slot |
| 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 |

ACTIVE TEST

| Test Item | Description |
|---------------------|--|
| IGN KEY WARN ALM | This test is able to check key warning chime operation [On/Off]. |
| SEAT BELT WARN TEST | This test is able to check seat belt warning chime operation [On/Off]. |
| ID REGIST WARNING | This test is able to check ID regist warning chime operation [On/Off]. |
| LIGHT WARN ALM | This test is able to check light warning chime operation [On/Off]. |

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT COMBINATION METER

COMBINATION METER : Diagnosis Procedure

INFOID:000000007805699

Regarding Wiring Diagram information, refer to [MWI-86, "Wiring Diagram"](#).

1. CHECK FUSES

Check for blown combination meter fuses.

| Unit | Power source | Fuse No. |
|-------------------|-----------------------------|----------|
| Combination meter | Battery | 11 |
| | Ignition switch ON or START | 4 |

Is the inspection result normal?

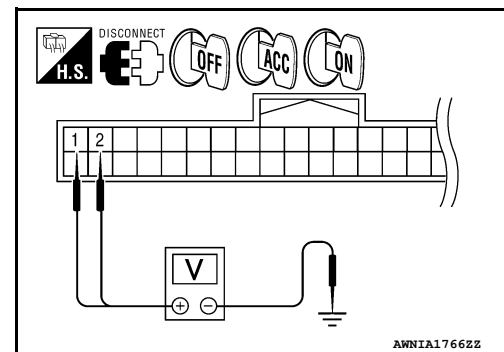
YES >> GO TO 2

NO >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.

2. POWER SUPPLY CIRCUIT CHECK

1. Disconnect combination meter connector.
2. Check voltage between combination meter harness connector M24 terminals 1, 2, and ground.

| Terminals | | (-) | Ignition switch position | | |
|-----------|----------|--------|--------------------------|-----------------|-----------------|
| (+) | | | OFF | ON | START |
| Connector | Terminal | Ground | Battery voltage | Battery voltage | Battery voltage |
| M24 | 1 | | 0V | Battery voltage | Battery voltage |
| | 2 | | | | |



Is the inspection result normal?

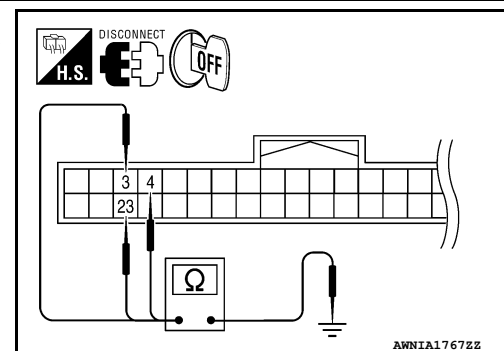
YES >> GO TO 3

NO >> Check harness for open between combination meter and fuse.

3. GROUND CIRCUIT CHECK

1. Turn ignition switch OFF.
2. Check continuity between combination meter harness connector terminals 3, 4, 23 and ground.

| Terminals | | (-) | Continuity |
|-----------|----------|--------|------------|
| (+) | | | |
| Connector | Terminal | Ground | Yes |
| M24 | 3 | | |
| | 4 | | |
| | 23 | | |



Is the inspection result normal?

YES >> Inspection End.

NO >> Check ground harness.

BCM (BODY CONTROL MODULE)

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WCS

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

BCM (BODY CONTROL MODULE) : Diagnosis Procedure

INFOID:000000007805701

Regarding Wiring Diagram information, refer to [BCS-68. "Wiring Diagram"](#).

1. CHECK FUSE AND FUSIBLE LINK

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

| Terminal No. | Signal name | Fuse and fusible link No. |
|--------------|----------------------|---------------------------|
| 1 | Battery power supply | H |
| 11 | | 10 |
| 24 | | 7 |

Is the fuse or fusible link blown?

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

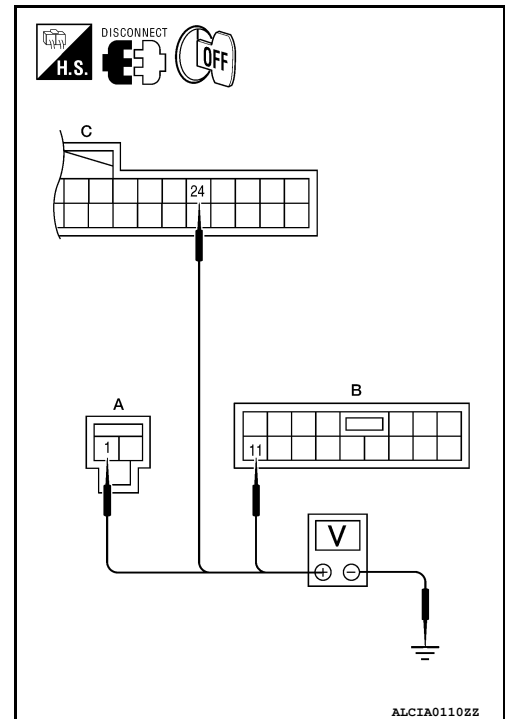
2. CHECK POWER SUPPLY CIRCUIT

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

| Terminals | | Voltage (Approx.) |
|-----------|----------|---------------------------|
| (+) | (-) | |
| BCM | | Ground Battery voltage |
| Connector | Terminal | |
| M16 (A) | 1 | |
| M17 (B) | 11 | |
| M18 (C) | 24 | |

Is the measurement normal?

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



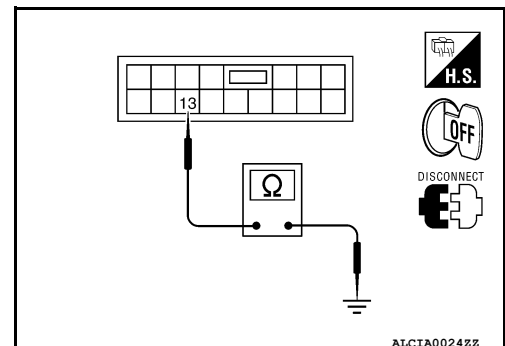
3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | | |
| M17 | 13 | | Yes |

Does continuity exist?

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



METER BUZZER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

METER BUZZER CIRCUIT

Description

INFOID:000000007251316

- The buzzer for warning chime system is installed in the combination meter.
- The combination meter sounds the alarm buzzer based on the signals transmitted from various units.

Component Function Check

INFOID:000000007251317

1. CHECK OPERATION OF METER BUZZER

1. Select "BUZZER" of "BCM" on CONSULT.
2. Perform "LIGHT WARN ALM" of "ACTIVE TEST".

Does meter buzzer activate?

- YES >> Inspection End.
NO >> Replace combination meter. Refer to [MWI-121, "Removal and Installation"](#).

Diagnosis Procedure

INFOID:000000007251318

1. CHECK POWER SUPPLY OF COMBINATION METER

Check power supply of combination meter. Refer to [MWI-37, "COMBINATION METER : Diagnosis Procedure"](#).

Is the inspection result normal?

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

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WCS

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

Description

INFOID:000000007251319

Transmits a seat belt buckle switch signal to the combination meter.

Component Function Check

INFOID:000000007251320

1. CHECK COMBINATION METER INPUT SIGNAL

1. Start engine.
2. Monitor seat belt warning lamp while fastening and unfastening the driver seat belt.

Seat belt warning lamp

When seat belt is fastened : OFF

When seat belt is unfastened : ON

Is the inspection result normal?

YES >> Inspection End.

NO >> Refer to [WCS-20, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000007251321

Regarding Wiring Diagram information, refer to [WCS-52, "Wiring Diagram"](#).

1. CHECK COMBINATION METER INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between combination meter harness connector M24 terminal 35 and ground.

35 - Ground

When driver seat belt is fastened : Approx. 12V

When driver seat belt is unfastened : Approx. 0V

Is the inspection result normal?

YES >> Replace combination meter. Refer to [MWI-121, "Removal and Installation"](#).

NO >> GO TO 2

2. CHECK SEAT BELT BUCKLE SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect combination meter and seat belt buckle switch LH.
3. Check continuity between combination meter harness connector M24 terminal 35 and seat belt buckle switch LH harness connector B202 terminal 1.

35 - 1 : Continuity should exist.

4. Check harness continuity between combination meter harness connector M24 terminal 35 and ground.

35 - Ground : Continuity should not exist.

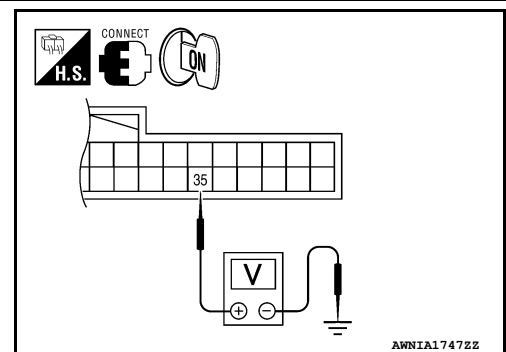
Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK SEAT BELT BUCKLE SWITCH GROUND CIRCUIT

Check harness continuity between seat belt buckle switch LH harness connector B202 terminal 2 and ground.



SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

2 - Ground : Continuity should exist.

Is the inspection result normal?

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

Component Inspection

INFOID:000000007251322

1. CHECK SEAT BELT BUCKLE SWITCH

1. Turn ignition switch OFF.
2. Disconnect the seat belt buckle switch LH connector.
3. Check continuity between the seat belt buckle LH terminals 1 and 2.

1- 2

When seat belt is fastened : Continuity should not exist.

When seat belt is unfastened : Continuity should exist.

Is the inspection result normal?

- YES >> Inspection End.
NO >> Replace the seat belt buckle switch LH.

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WCS

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

COMBINATION METER

Reference Value

INFOID:000000007806144

VALUES ON THE DIAGNOSIS TOOL

| Monitor Item | Condition | Value/Status |
|-------------------------------------|--------------------------------|--|
| SPEED METER [km/h or mph] | While driving | Displays the value of the vehicle speed signal. |
| SPEED OUTPUT [km/h or mph] | While driving | Displays the value of the vehicle speed signal which is transmitted to each unit with CAN communication. |
| ODO OUTPUT [kilometers or miles] | — | Equivalent to odometer reading in combination meter |
| TACHO METER [rpm] | While driving | Displays the value of engine speed signal which is input from the ECM. |
| FUEL METER [L] | — | Displays the value processed from a resistance signal from the fuel gauge. |
| W TEMP METER [°C] or [°F] | — | Displays the value of the engine coolant temperature signal which is input from the ECM. |
| ABS W/L | ABS warning lamp ON | ON |
| | ABS warning lamp OFF | OFF |
| VDC/TCS IND | VDC OFF indicator lamp ON | ON |
| | VDC OFF indicator lamp OFF | OFF |
| SLIP IND | SLIP Indicator lamp ON | ON |
| | SLIP indicator lamp OFF | OFF |
| BRAKE W/L* | Brake warning lamp ON | ON |
| | Brake warning lamp OFF | OFF |
| DOOR W/L | Door warning lamp ON | ON |
| | Door warning lamp OFF | OFF |
| TRUNK/GLAS-H | Trunk warning lamp ON | ON |
| | Trunk warning lamp OFF | OFF |
| HI-BEAM IND | High-beam indicator lamp ON | ON |
| | High-beam indicator lamp OFF | OFF |
| TURN IND | Turn signal indicator lamp ON | ON |
| | Turn signal indicator lamp OFF | OFF |
| LIGHT IND | Light indicator lamp ON | ON |
| | Light indicator lamp OFF | OFF |
| OIL W/L | Oil pressure warning lamp ON | ON |
| | Oil pressure warning lamp OFF | OFF |
| MIL | Malfunction indicator lamp ON | ON |
| | Malfunction indicator lamp OFF | OFF |
| CRUISE IND | CRUISE indicator ON | ON |
| | CRUISE indicator OFF | OFF |
| CVT IND | CVT warning lamp ON | ON |
| | CVT warning lamp OFF | OFF |

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status | |
|-----------------------------------|---|---|-----|
| FUEL W/L | Low-fuel warning lamp ON | ON | A |
| | Low-fuel warning lamp OFF | OFF | |
| WASHER W/L | Low washer fluid warning lamp ON | ON | B |
| | Low washer fluid warning lamp OFF | OFF | |
| AIR PRES W/L | Low tire pressure warning lamp ON | ON | C |
| | Low tire pressure warning lamp OFF | OFF | |
| KEY G/Y W/L | Key warning lamp ON | ON | D |
| | Key warning lamp OFF | OFF | |
| LCD | Intelligent Key information received | Displays the value of Intelligent Key system message indication. | |
| SHIFT IND | Range position indicator P display | P | E |
| | Range position indicator R display | R | |
| | Range position indicator N display | N | F |
| | Range position indicator D display | D | |
| | Range position indicator L display | L | |
| M RANGE SW | Manual mode range switch ON | ON | G |
| | Manual mode range switch OFF | OFF | |
| NM RANGE SW | Except for manual mode range switch ON | ON | H |
| | Except for manual mode range switch OFF | OFF | |
| ST SFT UP SW | Steering shift-up switch ON | ON | I |
| | Steering shift-up switch OFF | OFF | |
| ST SFT DWN SW | Steering shift-down switch ON | ON | J |
| | Steering shift-down switch OFF | OFF | |
| AT SFT UP SW | CVT shift-up switch ON | ON | K |
| | CVT shift-up switch OFF | OFF | |
| AT SFT DWN SW | CVT shift-down switch ON | ON | L |
| | CVT shift-down switch OFF | OFF | |
| PKB SW | Parking brake switch ON | ON | M |
| | Parking brake switch OFF | OFF | |
| BRAKE OIL SW | Brake fluid level switch ON | ON | |
| | Brake fluid level switch OFF | OFF | |
| MODE A SW | Mode A switch ON | ON | |
| | Mode A switch OFF | OFF | |
| MODE B SW | Mode B switch ON | ON | WCS |
| | Mode B switch OFF | OFF | |
| DISTANCE [kilometers or miles] | — | Displays the value which is calculated by vehicle speed signal, fuel gauge and fuel consumption from ECM. | O |
| OUTSIDE TEMP [°C] or [°F] | — | Displays the ambient air temperature which is input from the ambient sensor. | P |
| FUEL LOW SIG | Low fuel warning displayed | ON | |
| | Low fuel warning not displayed | OFF | |
| BUZZER | Buzzer ON | ON | |
| | Buzzer OFF | OFF | |

NOTE:

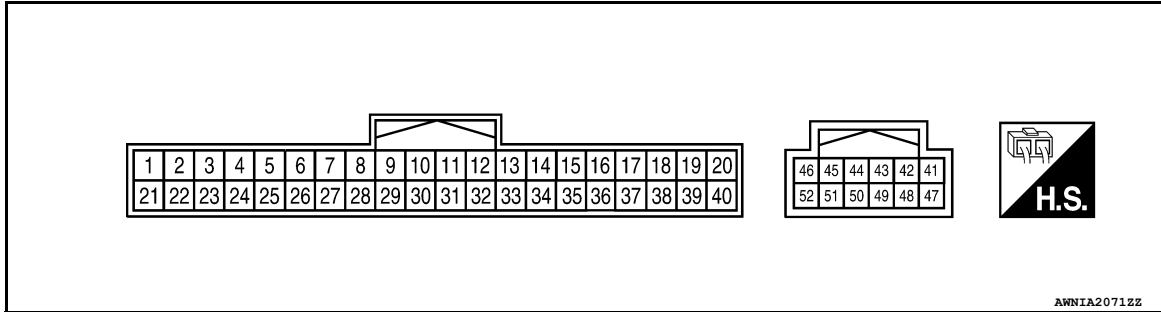
* The monitor will indicate "OFF" even though the brake warning lamp is on if either of the following conditions exist:

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

- The parking brake is engaged
- The brake fluid level is low

TERMINAL LAYOUT

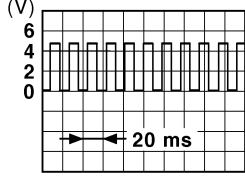


PHYSICAL VALUES

| Terminal | Wire color | Item | Condition | | Reference value (V) (Approx.) |
|----------|------------|---------------------------------------|-----------------|--|--|
| | | | Ignition switch | Operation or condition | |
| 1 | W/L | Battery power supply | — | — | Battery voltage |
| 2 | O | Ignition switch ON or START | ON | — | Battery voltage |
| 3 | B | Ground (Power) | — | — | 0 |
| 4 | B | Ground (Illumination) | | | |
| 5 | B | Illumination output | — | — | Refer to INL-9, "System Description" . |
| 10 | O/L | Mode switch ground | ON | — | 0 |
| 11 | L/R | Mode switch A | ON | Switch pressed | 0 |
| | | | | Switch released | 5 |
| 12 | B/R | Mode switch B | ON | Switch pressed | 0 |
| | | | | Switch released | 5 |
| 15 | BR/W | Air bag warning lamp input | ON | Air bag warning lamp ON | 3 |
| | | | | Air bag warning lamp OFF | 0 |
| 21 | L | CAN-H | — | — | — |
| 22 | P | CAN-L | — | — | — |
| 23 | B | Ground (Circuit) | — | — | 0 |
| 24 | B/W | Fuel level sensor ground | ON | — | 0 |
| 25 | BR | Generator | ON | Generator voltage low | 0 |
| | | | | Generator voltage normal | Battery voltage |
| 26 | G/R | Parking brake switch | ON | Parking brake depressed | 0 |
| | | | | Parking brake released | Battery voltage |
| 27 | V | Brake fluid level switch | ON | Brake fluid level low | 0 |
| | | | | Brake fluid level normal | Battery voltage |
| 28 | L/O | Security indicator input | OFF | Security indicator ON | 0 |
| | | | | Security indicator OFF | Battery voltage |
| 29 | R | Washer fluid level switch | ON | Washer fluid level low | 0 |
| | | | | Washer fluid level normal | Battery voltage |
| 30 | L/B | Vehicle speed signal output (2-pulse) | ON | Speedometer operated [When vehicle speed is approx. 20 km/h (12 MPH)] | 240 Hz |

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

| Terminal | Wire color | Item | Condition | | Reference value (V) (Approx.) |
|----------|------------|---------------------------------------|-----------------|---|--|
| | | | Ignition switch | Operation or condition | |
| 31 | V/W | Vehicle speed signal output (8-pulse) | ON | Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)] | NOTE: Maximum voltage may be 12V due to specifications (connected units).  <small>PKIC0643E</small> |
| 34 | G/B | Fuel level sensor signal | — | — | Refer to MWI-15, "FUEL GAUGE : System Description" . |
| 35 | W/B | Seat belt buckle switch LH | ON | Unfastened (ON) | 0 |
| | | | | Fastened (OFF) | Battery voltage |
| 36 | L/W | Seat belt buckle switch RH | ON | Unfastened (ON) | 0 |
| | | | | Fastened (OFF) | Battery voltage |
| 37 | G | Not M range | ON | Manual mode switch OFF | 0 |
| | | | | Manual mode switch ON | Battery voltage |
| 38 | BR | CVT shift down | ON | <ul style="list-style-type: none"> • Manual mode switch ON • Shift down operation | 0 |
| | | | | Other than above | Battery voltage |
| 39 | W | CVT shift up | ON | <ul style="list-style-type: none"> • Manual mode switch ON • Shift up operation | 0 |
| | | | | Other than above | Battery voltage |
| 40 | LG/R | M range | ON | Manual mode switch OFF | Battery voltage |
| | | | | Manual mode switch ON | 0 |
| 49 | G | Paddle shifter signal (shift down) | ON | Shift down operation | 0 |
| | | | | Switch released | Battery voltage |
| 50 | O | Paddle shifter signal (shift up) | ON | Shift up operation | 0 |
| | | | | Switch released | Battery voltage |

Fail Safe

INFOID:000000007806145

The combination meter performs a fail-safe operation for the functions listed below when communication is lost.

| Function | | Specifications |
|----------------------------------|--------------------|--|
| Speedometer | | Zero indication. |
| Tachometer | | |
| Fuel gauge | | |
| Engine coolant temperature gauge | | |
| Illumination control | Meter illumination | Change to nighttime mode when communication is lost. |
| Segment LCD | Odometer | Freeze current indication. |
| | CVT position | Display turns off. |
| Buzzer | | Buzzer turns off. |

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

| | Function | Specifications |
|--------------------------------|---|--|
| Warning lamp/indicator lamp | ABS warning lamp | Lamp turns on when communication is lost. |
| | Brake warning lamp | |
| | TCS/VDC OFF indicator lamp | |
| | SLIP indicator lamp | |
| | Malfunction indicator lamp | |
| | CVT warning lamp | |
| | Oil pressure warning lamp | Lamp turns off when communication is lost. |
| | Master warning lamp | |
| | Air bag warning lamp | |
| | High beam indicator | |
| | Turn signal indicator lamp | |
| | CRUISE indicator lamp | |
| | Intelligent Key system warning lamp | Lamp turns off when disconnected. |
| | Driver and passenger seat belt warning lamp | |
| | Charge warning lamp | |
| | Security indicator lamp | |
| Low tire pressure warning lamp | Lamp will flash every second for 1 minute and then stay on continuously thereafter. | |

DTC Index

INFOID:000000007806146

| CONSULT display | Malfunction | Reference page |
|----------------------------|--|------------------------|
| CAN COMM CIRCUIT [U1000] | When combination meter is not transmitting or receiving CAN communication signal for 2 seconds or more. | MWI-32 |
| CONTROL UNIT (CAN) [U1010] | When detecting error during the initial diagnosis of the CAN controller of combination meter. | MWI-33 |
| VEHICLE SPEED [B2205] | The abnormal vehicle speed signal is input from the ABS actuator and electric unit (control unit) for 2 seconds or more. | MWI-34 |
| ENGINE SPEED [B2267] | If ECM continuously transmits abnormal engine speed signals for 2 seconds or more. | MWI-35 |
| WATER TEMP [B2268] | If ECM continuously transmits abnormal engine coolant temperature signals for 60 seconds or more. | MWI-36 |

NOTE:

“TIME” indicates the following.

- 0: Indicates that a malfunction is detected at present.
- 1-63: Indicates that a malfunction was detected in the past. (Displays number of ignition switch OFF → ON cycles after malfunction is detected. Self-diagnosis result is erased when “63” is exceeded.)

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000007806147

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 |
|----------------|---|----------------------------------|
| FR WIPER HI | Other than front wiper switch HI | OFF |
| | Front wiper switch HI | ON |
| FR WIPER LOW | Other than front wiper switch LO | OFF |
| | Front wiper switch LO | ON |
| FR WASHER SW | Front washer switch OFF | OFF |
| | Front washer switch ON | ON |
| FR WIPER INT | Other than front wiper switch INT | OFF |
| | Front wiper switch INT | ON |
| FR WIPER STOP | Front wiper is not in STOP position | OFF |
| | Front wiper is in STOP position | ON |
| INT VOLUME | Wiper intermittent dial is in a dial position 1 - 7 | Wiper intermittent dial position |
| TURN SIGNAL R | Other than turn signal switch RH | OFF |
| | Turn signal switch RH | ON |
| TURN SIGNAL L | Other than turn signal switch LH | OFF |
| | Turn signal switch LH | ON |
| TAIL LAMP SW | Other than lighting switch 1ST and 2ND | OFF |
| | Lighting switch 1ST or 2ND | ON |
| HI BEAM SW | Other than lighting switch HI | OFF |
| | Lighting switch HI | ON |
| HEAD LAMP SW 1 | Other than lighting switch 2ND | OFF |
| | Lighting switch 2ND | ON |
| HEAD LAMP SW 2 | Other than lighting switch 2ND | OFF |
| | Lighting switch 2ND | ON |
| PASSING SW | Other than lighting switch PASS | OFF |
| | Lighting switch PASS | ON |
| AUTO LIGHT SW | Other than lighting switch AUTO | OFF |
| | Lighting switch AUTO | ON |
| FR FOG SW | Front fog lamp switch OFF | OFF |
| | Front fog lamp switch ON | ON |
| DOOR SW-DR | Driver door closed | OFF |
| | Driver door opened | ON |
| DOOR SW-AS | Passenger door closed | OFF |
| | Passenger door opened | ON |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status |
|----------------|---|--------------|
| DOOR SW-RR | Rear door RH closed | OFF |
| | Rear door RH opened | ON |
| DOOR SW-RL | Rear door LH closed | OFF |
| | Rear door LH opened | ON |
| CDL LOCK SW | Other than power door lock switch LOCK | OFF |
| | Power door lock switch LOCK | ON |
| CDL UNLOCK SW | Other than power door lock switch UNLOCK | OFF |
| | Power door lock switch UNLOCK | ON |
| KEY CYL LK-SW | Other than driver door key cylinder LOCK position | OFF |
| | Driver door key cylinder LOCK position | ON |
| KEY CYL UN-SW | Other than driver door key cylinder UNLOCK position | OFF |
| | Driver door key cylinder UNLOCK position | ON |
| HAZARD SW | When hazard switch is not pressed | OFF |
| | When hazard switch is pressed | ON |
| REAR DEF SW | When rear window defogger switch is pressed | ON |
| TR CANCEL SW | Trunk lid opener cancel switch OFF | OFF |
| | Trunk lid opener cancel switch ON | ON |
| TR/BD OPEN SW | Trunk lid opener switch OFF | OFF |
| | While the trunk lid opener switch is turned ON | ON |
| TRNK/HAT MNTR | Trunk lid closed | OFF |
| | Trunk lid opened | ON |
| RKE-LOCK | When LOCK button of Intelligent Key is not pressed | OFF |
| | When LOCK button of Intelligent Key is pressed | ON |
| RKE-UNLOCK | When UNLOCK button of Intelligent Key is not pressed | OFF |
| | When UNLOCK button of Intelligent Key is pressed | ON |
| RKE-TR/BD | When TRUNK OPEN button of Intelligent Key is not pressed | OFF |
| | When TRUNK OPEN button of Intelligent Key is pressed | ON |
| RKE-PANIC | When PANIC button of Intelligent Key is not pressed | OFF |
| | When PANIC button of Intelligent Key is pressed | ON |
| RKE-P/W OPEN | When UNLOCK button of Intelligent Key is not pressed and held | OFF |
| | When UNLOCK button of Intelligent Key is pressed and held | ON |
| RKE-MODE CHG | When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously | OFF |
| | When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously | ON |
| OPTICAL SENSOR | When outside of the vehicle is bright | Close to 5 V |
| | When outside of the vehicle is dark | Close to 0 V |
| REQ SW -DR | When front door request switch is not pressed (driver side) | OFF |
| | When front door request switch is pressed (driver side) | ON |
| REQ SW -AS | When front door request switch is not pressed (passenger side) | OFF |
| | When front door request switch is pressed (passenger side) | ON |
| REQ SW -RL | When rear door request switch is not pressed (driver side) | OFF |
| | When rear door request switch is pressed (driver side) | ON |
| REQ SW -RR | When rear door request switch is not pressed (passenger side) | OFF |
| | When rear door request switch is pressed (passenger side) | ON |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status | |
|----------------|--|-----------------------------------|-----|
| REQ SW -BD/TR | When trunk request switch is not pressed | OFF | A |
| | When trunk request switch is pressed | ON | |
| PUSH SW | When engine switch (push switch) is not pressed | OFF | B |
| | When engine switch (push switch) is pressed | ON | |
| IGN RLY 2 -F/B | Ignition switch OFF or ACC | OFF | C |
| | Ignition switch ON | ON | |
| ACC RLY -F/B | Ignition switch OFF | OFF | D |
| | Ignition switch ACC or ON | ON | |
| BRAKE SW 1 | When the brake pedal is not depressed | ON | E |
| | When the brake pedal is depressed | OFF | |
| DETE/CANCL SW | When selector lever is in P position | OFF | F |
| | When selector lever is in any position other than P | ON | |
| SFT PN/N SW | When selector lever is in any position other than P or N | OFF | G |
| | When selector lever is in P or N position | ON | |
| UNLK SEN -DR | Driver door UNLOCK status | OFF | H |
| | Driver door LOCK status | ON | |
| PUSH SW -IPDM | When engine switch (push switch) is not pressed | OFF | I |
| | When engine switch (push switch) is pressed | ON | |
| IGN RLY1 -F/B | Ignition switch OFF or ACC | OFF | J |
| | Ignition switch ON | ON | |
| DETE SW -IPDM | When selector lever is in P position | OFF | K |
| | When selector lever is in any position other than P | ON | |
| SFT PN -IPDM | When selector lever is in any position other than P or N | OFF | L |
| | When selector lever is in P or N position | ON | |
| SFT P -MET | When selector lever is in any position other than P | OFF | M |
| | When selector lever is in P position | ON | |
| SFT N -MET | When selector lever is in any position other than N | OFF | |
| | When selector lever is in N position | ON | |
| ENGINE STATE | Engine stopped | STOP | |
| | While the engine stalls | STALL | |
| | At engine cranking | CRANK | |
| | Engine running | RUN | |
| VEH SPEED 1 | While driving | Equivalent to speedometer reading | |
| VEH SPEED 2 | While driving | Equivalent to speedometer reading | WCS |
| DOOR STAT-DR | Driver door LOCK status | LOCK | |
| | Wait with selective UNLOCK operation (5 seconds) | READY | |
| | Driver door UNLOCK status | UNLK | O |
| DOOR STAT-AS | Passenger door LOCK status | LOCK | |
| | Wait with selective UNLOCK operation (5 seconds) | READY | |
| | Passenger door UNLOCK status | UNLK | P |
| ID OK FLAG | Ignition switch ACC or ON | RESET | |
| | Ignition switch OFF | SET | |
| PRMT ENG STRT | When the engine start is prohibited | RESET | |
| | When the engine start is permitted | SET | |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status |
|----------------|---|--|
| KEY SW -SLOT | When Intelligent Key is not inserted into key slot | OFF |
| | When Intelligent Key is inserted into key slot | ON |
| RKE OPE COUN1 | During the operation of Intelligent Key | Operation frequency of Intelligent Key |
| CONFIRM ID ALL | The key ID that the key slot receives does not accord with any key ID registered to BCM. | YET |
| | The key ID that the key slot receives accords with any key ID registered to BCM. | DONE |
| CONFIRM ID4 | The key ID that the key slot receives does not accord with the fourth key ID registered to BCM. | YET |
| | The key ID that the key slot receives accords with the fourth key ID registered to BCM. | DONE |
| CONFIRM ID3 | The key ID that the key slot receives does not accord with the third key ID registered to BCM. | YET |
| | The key ID that the key slot receives accords with the third key ID registered to BCM. | DONE |
| CONFIRM ID2 | The key ID that the key slot receives does not accord with the second key ID registered to BCM. | YET |
| | The key ID that the key slot receives accords with the second key ID registered to BCM. | DONE |
| CONFIRM ID1 | The key ID that the key slot receives does not accord with the first key ID registered to BCM. | YET |
| | The key ID that the key slot receives accords with the first key ID registered to BCM. | DONE |
| 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 |
| AIR PRESS FL | Ignition switch ON (only when the signal from the transmitter is received) | Air pressure of front LH tire |
| AIR PRESS FR | Ignition switch ON (only when the signal from the transmitter is received) | Air pressure of front RH tire |
| AIR PRESS RR | Ignition switch ON (only when the signal from the transmitter is received) | Air pressure of rear RH tire |
| AIR PRESS RL | Ignition switch ON (only when the signal from the transmitter is received) | Air pressure of rear LH tire |
| ID REGST FL1 | When ID of front LH tire transmitter is registered | DONE |
| | When ID of front LH tire transmitter is not registered | YET |
| ID REGST FR1 | When ID of front RH tire transmitter is registered | DONE |
| | When ID of front RH tire transmitter is not registered | YET |
| ID REGST RR1 | When ID of rear RH tire transmitter is registered | DONE |
| | When ID of rear RH tire transmitter is not registered | YET |
| ID REGST RL1 | When ID of rear LH tire transmitter is registered | DONE |
| | When ID of rear LH tire transmitter is not registered | YET |
| WARNING LAMP | Tire pressure indicator OFF | OFF |
| | Tire pressure indicator ON | ON |

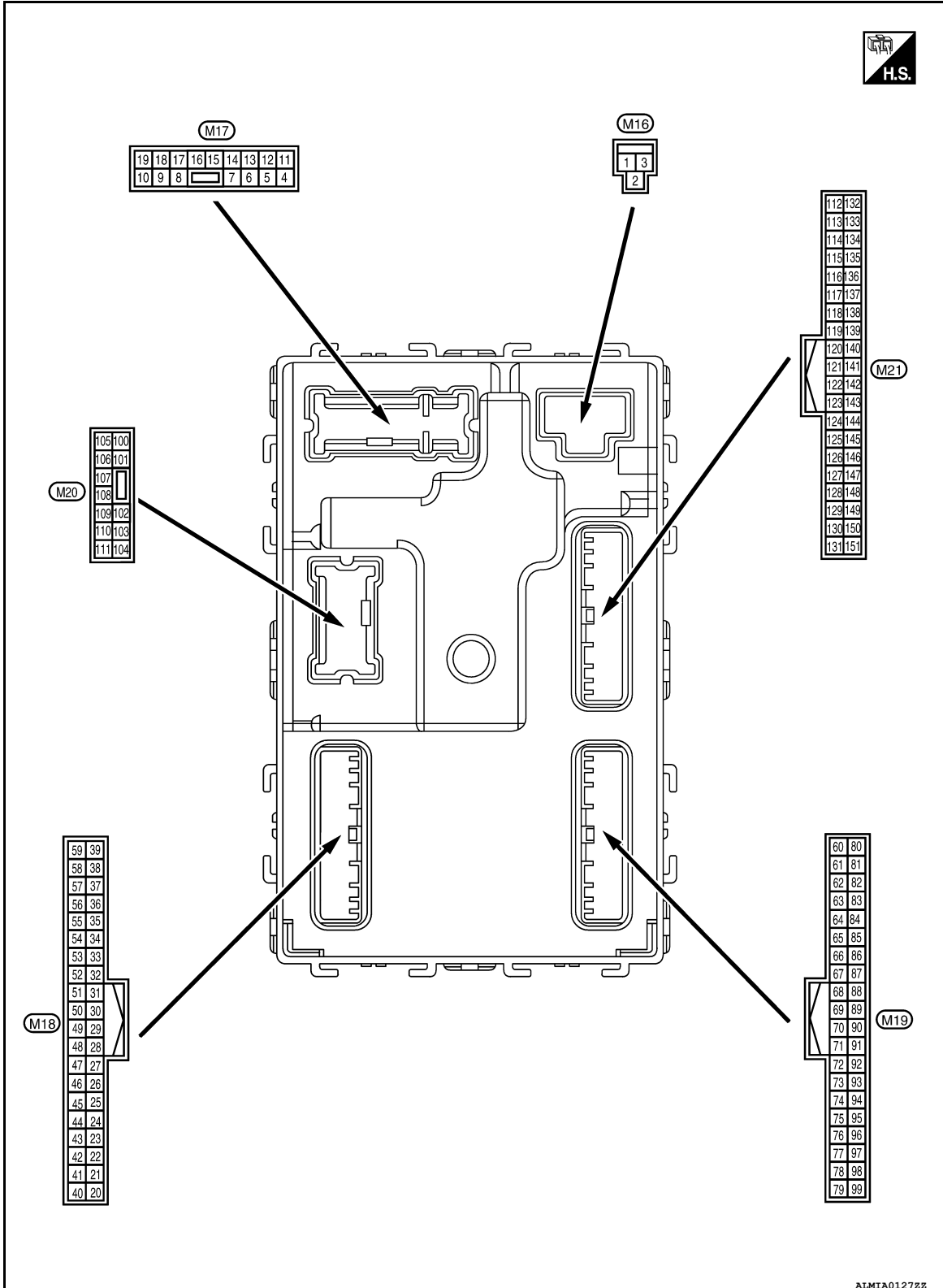
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status |
|--------------|---|--------------|
| BUZZER | Tire pressure warning alarm is not sounding | OFF |
| | Tire pressure warning alarm is sounding | ON |

Terminal Layout

INFOID:000000007806148



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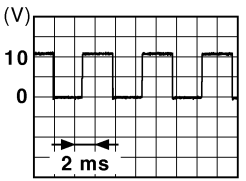
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Physical Values

INFOID:000000007806149

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|---|------------------|--|---|--|
| (+) | (-) | Signal name | Input/ Output | | | |
| 1 (W/B) | Ground | Battery power supply | Input | Ignition switch OFF | | Battery voltage |
| 2 (R/Y) | Ground | Battery power supply output | Output | Ignition switch OFF | | Battery voltage |
| 3 (L/W) | Ground | Ignition power supply output | Output | Ignition switch ON | | Battery voltage |
| 4 (P/W) | Ground | Interior room lamp power supply | Output | After passing the interior room lamp battery saver operation time | | 0V |
| | | | | Any other time after passing the interior room lamp battery saver operation time | | Battery voltage |
| 5 (G) | Ground | Front door RH UNLOCK | Output | Front door RH | UNLOCK (actuator is activated) | Battery voltage |
| | | | | | Other than UNLOCK (actuator is not activated) | 0V |
| 7 (R/W) | Ground | Step lamp | Output | Step lamp | ON | 0V |
| | | | | | OFF | Battery voltage |
| 8 (V) | Ground | All doors LOCK | Output | All doors | LOCK (actuator is activated) | Battery voltage |
| | | | | | Other than LOCK (actuator is not activated) | 0V |
| 9 (L) | Ground | Front door LH UNLOCK | Output | Front door LH | UNLOCK (actuator is activated) | Battery voltage |
| | | | | | Other than UNLOCK (actuator is not activated) | 0V |
| 10 (G) | Ground | Rear door RH and rear door LH UNLOCK | Output | Rear door RH and rear door LH | UNLOCK (actuator is activated) | Battery voltage |
| | | | | | Other than UNLOCK (actuator is not activated) | 0V |
| 11 (Y/R) | Ground | Battery power supply | Input | Ignition switch OFF | | Battery voltage |
| 13 (B) | Ground | Ground | — | Ignition switch ON | | 0V |
| 14 (GR/W) | Ground | Engine switch (push switch) illumination ground | Input | Tail lamp | OFF | 0V |
| | | | | | ON | <p>NOTE: When the illumination brightening/dimming level is in the neutral position</p>  <p style="text-align: right; font-size: small;">JSNIA0010GB</p> |
| 15 (Y/L) | Ground | ACC indicator lamp | Output | Ignition switch | OFF | Battery voltage |
| | | | | | ACC or ON | 0V |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

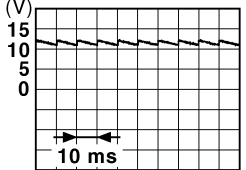
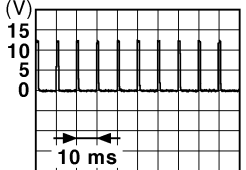

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|---|------------------|--|---------------------------------------|-----------------|
| (+) | (-) | Signal name | Input/ Output | | | |
| 17 (G/B) | Ground | Turn signal (RH) | Output | Turn signal switch OFF | 0V | |
| | | | | Turn signal switch ON | Turn signal switch RH | |
| 18 (G/Y) | Ground | Turn signal (LH) | Output | Turn signal switch OFF | 0V | |
| | | | | Turn signal switch ON | Turn signal switch LH | |
| 19 (Y) | Ground | Room lamp timer control | Output | Interior room lamp | OFF | Battery voltage |
| | | | | ON | 0V | |
| 21 (P/B) | Ground | Optical sensor signal | Input | Ignition switch ON | When outside of the vehicle is bright | Close to 5V |
| | | | | When outside of the vehicle is dark | Close to 0V | |
| 24 (R/W) | Ground | Stop lamp switch 1 | Input | — | Battery voltage | |
| 26 (O/L) | Ground | Stop lamp switch 2 | Input | Stop lamp switch | OFF (brake pedal is released) | 0V |
| | | | | ON (brake pedal is depressed) | Battery voltage | |
| 27 (O) | Ground | Front door lock assembly LH (unlock sensor) | Input | Front door LH | LOCK status | |
| | | | | UNLOCK status | 0V | |
| 29 (Y) | Ground | Key slot switch | Input | When Intelligent Key is inserted into key slot | Battery voltage | |
| | | | | When Intelligent Key is not inserted into key slot | 0V | |
| 31 (G) | Ground | Rear window defogger feedback signal | Input | Rear window defogger switch | OFF | 0V |
| | | | | ON | Battery voltage | |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|--|------------------|--|--|---|
| (+) | (-) | Signal name | Input/ Output | | | |
| 32 (R/B) | Ground | Front door RH switch | Input | Front door RH switch | OFF (when front door RH closes) |  <p style="text-align: center;">11.8 V</p> |
| | | | | | ON (when front door RH opens) | 0V |
| 37 (O) | Ground | Trunk lid opener cancel switch | Input | Trunk lid opener cancel switch | CANCEL |  <p style="text-align: center;">1.1V</p> |
| | | | | | ON | 0V |
| 38 (GR/W) | Ground | Rear window defogger ON signal | Input | Rear window defogger switch | OFF | 5V |
| | | | | | ON | 0V |
| 40 (Y/G) | Ground | Power window serial link | Input/ Output | Ignition switch ON |  <p style="text-align: center;">10.2V</p> | |
| | | | | Ignition switch OFF or ACC | 0V | |
| 41 (W) | Ground | Engine switch (push switch) illumination | Output | Engine switch (push switch) illumination | ON | 5.5V |
| | | | | | OFF | 0V |
| 42 (R) | Ground | LOCK indicator lamp | Output | LOCK indicator lamp | ON | 0V |
| | | | | | OFF | Battery voltage |
| 45 (P) | Ground | Receiver & sensor ground | Input | Ignition switch ON | | 0V |
| 46 (V/W) | Ground | Receiver & sensor power supply output | Output | Ignition switch | OFF | 0V |
| | | | | | ACC or ON | 5.0V |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

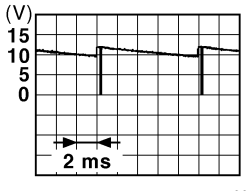
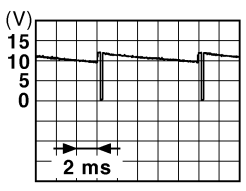
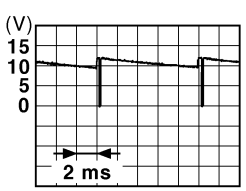
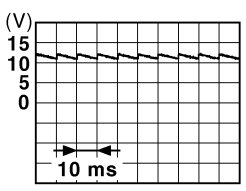
| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|-----------------------|---|------------------|---|---|--|
| (+) | (-) | Signal name | Input/ Output | | | |
| 47 ¹ (G/O) | Ground | Tire pressure receiver signal | Input/ Output | Ignition switch ON | <p style="text-align: right;">OCC3881D</p> | |
| | | | | When receiving the signal from the transmitter | <p style="text-align: right;">OCC3880D</p> | |
| 48 (R/G) | Ground | Selector lever transmission range switch signal | Input | Selector lever | P or N position 12.0V | |
| | | | | | Except P and N positions 0V | |
| 49 (L/O) | Ground | Security indicator signal | Output | Security indicator | ON 0V | |
| | | | | Blinking | <p style="text-align: right;">JPM1A0014GB</p> <p style="text-align: center;">11.3V</p> | |
| 50 (LG/B) | Ground | Combination switch OUTPUT 5 | Input | Combination switch (Wiper intermittent dial 4) | All switch OFF 0V | |
| | | | | | Lighting switch 1ST | <p style="text-align: right;">JPM1A0031GB</p> <p style="text-align: center;">10.7V</p> |
| | | | | | Lighting switch high-beam | |
| | | | | | Lighting switch 2ND | |
| | Turn signal switch RH | | | | | |
| 51 (L/W) | Ground | Combination switch OUTPUT 1 | Input | Combination switch | All switch OFF (Wiper intermittent dial 4) 0V | |
| | | | | | Front wiper switch HI (Wiper intermittent dial 4) | <p style="text-align: right;">JPM1A0032GB</p> <p style="text-align: center;">10.7V</p> |
| | | | | Any of the conditions below with all switch OFF | <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7 | |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|---|------------------|---|---|---|
| (+) | (-) | Signal name | Input/ Output | | | |
| 52 (G/B) | Ground | Combination switch OUTPUT 2 | Input | Combination switch | All switch OFF (Wiper intermittent dial 4) | 0V |
| | | | | | Front washer switch ON (Wiper intermittent dial 4) |  |
| | | | | | Any of the conditions below with all switch OFF | |
| | | | | | <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 | |
| | | | | | 10.7V | |
| 53 (LG/ R) | Ground | Combination switch OUTPUT 3 | Input | Combination switch (Wiper intermit- tent dial 4) | All switch OFF | 0V |
| | | | | | Front wiper switch INT |  |
| | | | | | Front wiper switch LO | |
| | | | | | Lighting switch AUTO | |
| | | | | | 10.7V | |
| 54 (G/Y) | Ground | Combination switch OUTPUT 4 | Input | Combination switch (Wiper intermit- tent dial 4) | All switch OFF | 0V |
| | | | | | Front fog lamp switch ON |  |
| | | | | | Lighting switch 2ND | |
| | | | | | Lighting switch flash-to- pass | |
| | | | | | 10.7V | |
| 57 ¹ (W) | Ground | Tire pressure warn- ing check switch | Input | — | 5V | |
| 58 (SB) | Ground | Front door LH switch | Input | Front door LH switch | OFF (front door LH CLOSE) |  |
| | | | | | ON (front door LH OPEN) | |
| 59 (G/R) | Ground | Rear window defog- ger relay | Output | Rear window de- fogger | Active | Battery voltage |
| | | | | Not activated | 0V | |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|-------------------------------------|------------------|--|---|
| (+) | (-) | Signal name | Input/ Output | | |
| 60 (B/R) | Ground | Front console antenna 2 (-) | Output | Ignition switch OFF | <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> |
| 61 (W/R) | Ground | Center console antenna 2 (+) | Output | Ignition switch OFF | <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> |
| 62 (V) | Ground | Front outside handle RH antenna (-) | Output | When the front door RH request switch is operated with ignition switch OFF | <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> |

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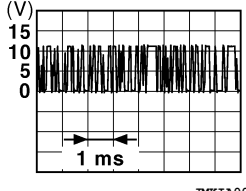
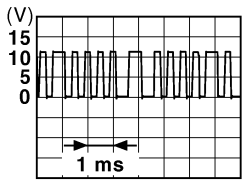
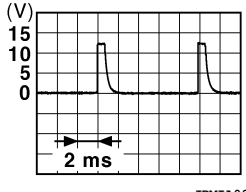
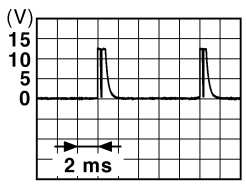
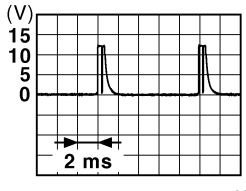
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|--|------------------|--|--------------------|
| (+) | (-) | Signal name | Input/ Output | | |
| 63 (P) | Ground | Front outside handle RH antenna (+) | Output | When Intelligent Key is in the antenna detection area | |
| | | | | When the front door RH request switch is operat- ed with ignition switch OFF | |
| 64 (V) | Ground | Front outside handle LH antenna (-) | Output | When Intelligent Key is in the antenna detection area | |
| | | | | When the front door LH request switch is operat- ed with ignition switch OFF | |
| 65 (P) | Ground | Front outside handle LH antenna (+) | Output | When Intelligent Key is in the antenna detection area | |
| | | | | When the front door LH request switch is operat- ed with ignition switch OFF | |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

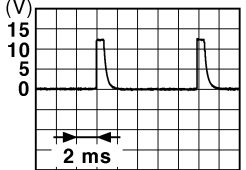
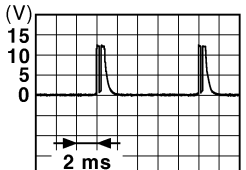

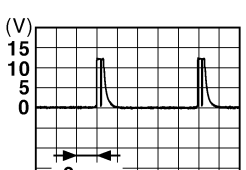
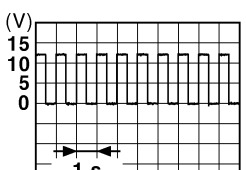
| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|---|------------------|---|--|---|
| | | Signal name | Input/ Output | | | |
| (+) | (-) | | | | | |
| 68 (G/O) | Ground | NATS antenna amp (built in key slot) | Input/ Output | During waiting | Ignition switch is pressed while inserting the Intelli- gent Key into the key slot. | Just after pressing ignition switch. Pointer of tester should move. |
| 69 (O) | Ground | NATS antenna amp (built in key slot) | Input/ Output | During waiting | Ignition switch is pressed while inserting the Intelli- gent Key into the key slot. | Just after pressing ignition switch. Pointer of tester should move. |
| 70 (R/B) | Ground | Ignition relay-2 con- trol | Output | Ignition switch | OFF or ACC | 0V |
| | | | | | ON | Battery voltage |
| 71 (L/O) | Ground | Remote keyless entry receiver signal | Input/ Output | During waiting | |  <p style="text-align: right; font-size: small;">JMK1A0064GB</p> |
| | | | | When operating either button on Intelligent Key | |  <p style="text-align: right; font-size: small;">JMK1A0065GB</p> |
| 75 (R/Y) | Ground | Combination switch INPUT 5 | Output | Combination switch | All switch OFF (Wiper intermittent dial 4) |  <p style="text-align: right; font-size: small;">JPM1A0041GB</p> <p style="text-align: center;">1.4V</p> |
| | | | | | Front fog lamp switch ON (Wiper intermittent dial 4) |  <p style="text-align: right; font-size: small;">JPM1A0037GB</p> <p style="text-align: center;">1.3V</p> |
| | | | | | Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7 |  <p style="text-align: right; font-size: small;">JPM1A0040GB</p> <p style="text-align: center;">1.3V</p> |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|-------------------------------|------------------|----------------------------|--|
| (+) | (-) | Signal name | Input/ Output | | |
| 76 (R/G) | Ground | Combination switch INPUT 3 | Output | Combination switch | All switch OFF (Wiper intermittent dial 4)  1.4V |
| | | | | | Lighting switch high-beam (Wiper intermittent dial 4)  1.3V |
| | | | | | Lighting switch 2ND (Wiper intermittent dial 4)  1.3V |
| | | | | | Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3  1.3V |
| 78 (P) | Ground | CAN-L | Input/ Output | — | — |
| 79 (L) | Ground | CAN-H | Input/ Output | — | — |
| 80 (R/L) | Ground | Key slot illumination | Output | Key slot illumina- tion | OFF 0V |
| | | | | | Blinking  6.5V |
| 81 (LG) | Ground | ON indicator lamp | Output | Ignition switch | ON Battery voltage |
| | | | | | OFF or ACC 0V |
| | | | | ON | Battery voltage |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

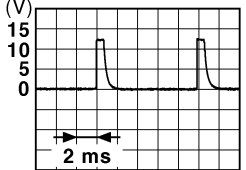

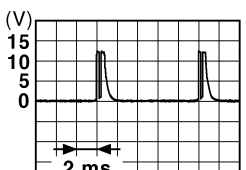
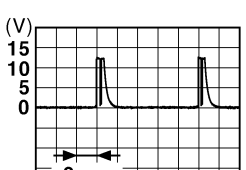
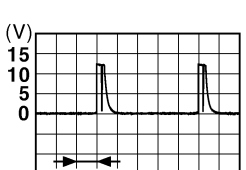
| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|--|------------------|------------------------------|---------------------------|--------------------|
| (+) | (-) | Signal name | Input/ Output | | | |
| 83 (L) | Ground | ACC relay control | Output | Ignition switch | OFF | 0V |
| | | | | | ACC or ON | Battery voltage |
| 84 (Y/R) | Ground | CVT shift selector | Output | — | | Battery voltage |
| 87 (G/B) | Ground | Selector lever P position switch | Input | Selector lever | P position | 0V |
| | | | | | Any position other than P | Battery voltage |
| 88 (R) | Ground | Front door RH request switch | Input | Front door RH request switch | ON (pressed) | 0V |
| | | | | | OFF (not pressed) | |
| 89 (R) | Ground | Front door LH request switch | Input | Front door LH request switch | ON (pressed) | 0V |
| | | | | | OFF (not pressed) | |
| 90 (Y) | Ground | Blower fan motor relay control | Output | Ignition switch | OFF or ACC | 0V |
| | | | | | ON | Battery voltage |
| 91 (L/R) | Ground | Remote keyless entry receiver power supply | Output | Ignition switch OFF | | Battery voltage |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|-------------------------------|------------------|--|--|
| (+) | (-) | Signal name | Input/ Output | | |
| 95 (R/W) | Ground | Combination switch INPUT 1 | Output | Combination switch (Wiper intermittent dial 4) | All switch OFF <div style="text-align: right;">  <p>1.4V</p> </div> |
| | | | | | Turn signal switch LH <div style="text-align: right;">  <p>1.3V</p> </div> |
| | | | | | Turn signal switch RH <div style="text-align: right;">  <p>1.3V</p> </div> |
| | | | | | Front wiper switch LO <div style="text-align: right;">  <p>1.3V</p> </div> |
| | | | | | Front washer switch ON <div style="text-align: right;">  <p>1.3V</p> </div> |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

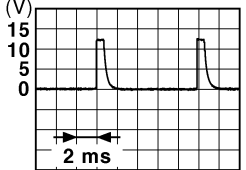

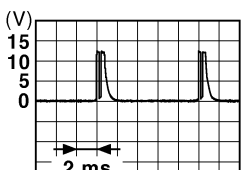
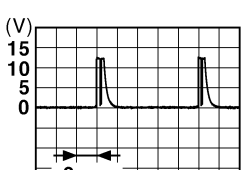
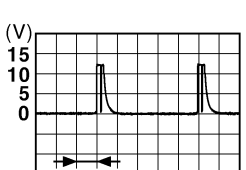
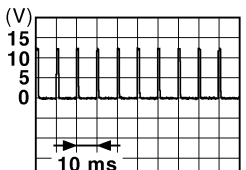
| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|-------------------------------|---------------------------------|---|---|
| (+) | (-) | Signal name | Input/ Output | | |
| 96 (P/B) | Ground | Combination switch INPUT 4 | Output Combination switch | All switch OFF (Wiper intermittent dial 4) | <p>1.4V</p> |
| | | | | Lighting switch AUTO (Wiper intermittent dial 4) | <p>1.3V</p> |
| | | | | Lighting switch 1ST (Wiper intermittent dial 4) | <p>1.3V</p> |
| | | | | Any of the conditions below with all switch OFF | <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 <p>1.3V</p> |

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WCS

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|-------------------------------|------------------|--|-------------------------------|--|
| (+) | (-) | Signal name | Input/ Output | | | |
| 97 (R/B) | Ground | Combination switch INPUT 2 | Output | Combination switch (Wiper intermittent dial 4) | All switch OFF |  <p style="text-align: right;">1.4V</p> |
| | | | | | Lighting switch flash-to-pass |  <p style="text-align: right;">1.3V</p> |
| | | | | | Lighting switch 2ND |  <p style="text-align: right;">1.3V</p> |
| | | | | | Front wiper switch INT |  <p style="text-align: right;">1.3V</p> |
| | | | | | Front wiper switch HI |  <p style="text-align: right;">1.3V</p> |
| 98 (G/O) | Ground | Hazard switch | Input | Hazard switch | Pressed | 0 V |
| | | | | | Not pressed |  <p style="text-align: right;">1.1V</p> |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

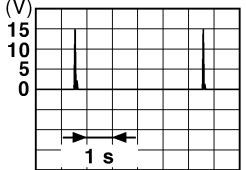
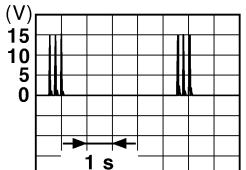
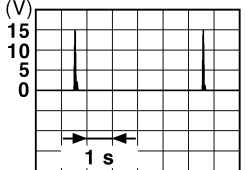
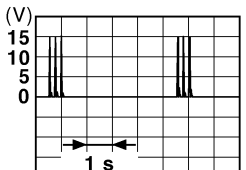
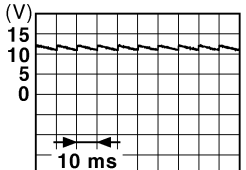
| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|--------------------------|------------------|---------------------|--|-----------------|
| (+) | (-) | Signal name | Input/ Output | | | |
| 103 (V) | Ground | Trunk lid opening. | Output | Trunk lid | Open (trunk lid opener actuator is activated) | Battery voltage |
| | | | | | Close (trunk lid opener actuator is not activated) | 0V |
| 110 (V/W) | Ground | Trunk room lamp | Output | Trunk room lamp | ON | 0V |
| | | | | | OFF | Battery voltage |
| 114 (B) | Ground | Trunk room antenna 1 (-) | Output | Ignition switch OFF | When Intelligent Key is in the passenger compartment | |
| | | | | | When Intelligent Key is not in the passenger compartment | |
| 115 (W) | Ground | Trunk room antenna 1 (+) | Output | Ignition switch OFF | When Intelligent Key is in the passenger compartment | |
| | | | | | When Intelligent Key is not in the passenger compartment | |

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WCS

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|-----------------------------------|------------------|--|--|
| (+) | (-) | Signal name | Input/ Output | | |
| 118 (L/O) | Ground | Rear bumper antenna (-) | Output | When the trunk lid request switch is operated with ignition switch OFF |  <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> |
| 119 (BR/W) | Ground | Rear bumper antenna (+) | Output | When the trunk lid request switch is operated with ignition switch OFF |  <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> |
| 127 (BR/W) | Ground | Ignition relay (IPDM E/R) control | Output | Ignition switch | OFF or ACC Battery voltage ON 0V |
| | | | | | |
| 130 (W) | Ground | Trunk room lamp switch | Input | Trunk room lamp switch |  <p style="text-align: right; font-size: small;">JPMIA0011GB</p> <p style="text-align: center;">11.8V</p> |
| | | | | OFF (trunk is closed) | 0V |
| 132 (R) | Ground | Starter motor relay control | Output | Ignition switch | ON Battery voltage When selector lever is in P or N position and the brake is depressed When selector lever is in P or N position and the brake is not depressed 0V |
| | | | | ON | 0V |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|-----------------------------|------------------|-----------------------------|------------------------|-----------------------|
| | | Signal name | Input/ Output | | | |
| (+) | (-) | | | | | |
| 140 (BR) | Ground | Engine switch (push switch) | Input | Engine switch (push switch) | Pressed Not pressed | 0V Battery voltage |
| | | | | 141 (BR) | Ground | Trunk request switch |
| 144 (GR) | Ground | Request switch buzzer | Output | | | |
| 147 (L/R) | Ground | Trunk lid opener switch | Input | Trunk lid opener switch | Pressed Not pressed | 0V Battery voltage |
| | | | | 148 (R/W) | Ground | Rear door RH switch |
| 149 (R/B) | Ground | Rear door LH switch | Input | | | |

1 : With low tire pressure monitoring system

Fail Safe

INFOID:000000007806150

| Display contents of CONSULT | Fail-safe | Cancellation |
|-----------------------------|-------------------------|--------------|
| B2190: NATS ANTENNA AMP | Inhibit engine cranking | Erase DTC |
| B2191: DIFFERENCE OF KEY | Inhibit engine cranking | Erase DTC |
| B2192: ID DISCORD BCM-ECM | Inhibit engine cranking | Erase DTC |
| B2193: CHAIN OF BCM-ECM | Inhibit engine cranking | Erase DTC |
| B2195: ANTI-SCANNING | Inhibit engine cranking | Erase DTC |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Display contents of CONSULT | Fail-safe | Cancellation |
|-----------------------------|---|--|
| 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) |
| B260F: ENG STATE SIG LOST | Maintains the power supply position attained at the time of DTC detection | When any of the following conditions is fulfilled <ul style="list-style-type: none"> • Power position changes to ACC • Receives engine status signal (CAN) |
| B2617: STARTER RELAY CIRC | Inhibit engine cranking | 1 second after the starter motor relay control inside BCM becomes normal |
| B2618: BCM | Inhibit engine cranking | 1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal |
| B26E1: ENG STATE NO RECIV | Inhibit engine cranking | When any of the following conditions are fulfilled <ul style="list-style-type: none"> • Power position changes to ACC • Receives engine status signal (CAN) |

DTC Inspection Priority Chart

INFOID:000000007806151

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: LO VOLTAGE |
| 2 | <ul style="list-style-type: none"> • U1000: CAN COMM CIRCUIT • U1010: CONTROL UNIT (CAN) |
| 3 | <ul style="list-style-type: none"> • B2190: NATS ANTENNA AMP • B2191: DIFFERENCE OF KEY • B2192: ID DISCORD BCM-ECM • B2193: CHAIN OF BCM-ECM |
| 4 | <ul style="list-style-type: none"> • B2553: IGNITION RELAY • B2555: STOP LAMP • B2556: PUSH-BTN IGN SW • B2557: VEHICLE SPEED • B2560: STARTER CONT RELAY • B2601: SHIFT POSITION • B2602: SHIFT POSITION • B2603: SHIFT POSI STATUS • B2604: PNP SWITCH • B2605: PNP SWITCH • B2608: STARTER RELAY • B260A: IGNITION RELAY • B260F: ENG STATE SIG LOST • B2614: ACC RELAY CIRC • B2615: BLOWER RELAY CIRC • B2616: IGN RELAY CIRC • B2617: STARTER RELAY CIRC • B2618: BCM • B261A: PUSH-BTN IGN SW • B26E1: ENG STATE NO RECIV • C1729: VHCL SPEED SIG ERR • U0415: VEHICLE SPEED SIG |

BCM (BODY CONTROL MODULE)

< 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 • C1712: [CHECKSUM ERR] FL • C1713: [CHECKSUM ERR] FR • C1714: [CHECKSUM ERR] RR • C1715: [CHECKSUM ERR] RL • C1716: [PRESSDATA ERR] FL • C1717: [PRESSDATA ERR] FR • C1718: [PRESSDATA ERR] RR • C1719: [PRESSDATA ERR] RL • C1720: [CODE ERR] FL • C1721: [CODE ERR] FR • C1722: [CODE ERR] RR • C1723: [CODE ERR] RL • C1724: [BATT VOLT LOW] FL • C1725: [BATT VOLT LOW] FR • C1726: [BATT VOLT LOW] RR • C1727: [BATT VOLT LOW] RL • C1734: CONTROL UNIT | A B C D E F G |
| 6 | <ul style="list-style-type: none"> • B2622: INSIDE ANTENNA • B2623: INSIDE ANTENNA | H |

DTC Index

INFOID:000000007806152

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 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch OFF → ON after returning to the normal condition if the malfunction is detected again.

| CONSULT display | Fail-safe | Intelligent Key warning lamp ON | Tire pressure monitor warning lamp ON | Reference page |
|--|-----------|---------------------------------|---------------------------------------|------------------------|
| No DTC is detected. further testing may be required. | — | — | — | — |
| U1000: CAN COMM CIRCUIT | — | — | — | BCS-32 |
| U1010: CONTROL UNIT (CAN) | — | — | — | BCS-33 |
| U0415: VEHICLE SPEED SIG | — | — | — | BCS-34 |
| B2190: NATS ANTENNA AMP | × | — | — | SEC-37 |
| B2191: DIFFERENCE OF KEY | × | — | — | SEC-40 |
| B2192: ID DISCORD BCM-ECM | × | — | — | SEC-41 |
| B2193: CHAIN OF BCM-ECM | × | — | — | SEC-42 |
| B2553: IGNITION RELAY | — | — | — | PCS-46 |
| B2555: STOP LAMP | — | — | — | SEC-43 |
| B2556: PUSH-BTN IGN SW | — | × | — | SEC-46 |
| B2557: VEHICLE SPEED | × | × | — | SEC-48 |
| B2560: STARTER CONT RELAY | × | × | — | SEC-49 |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| CONSULT display | Fail-safe | Intelligent Key warning lamp ON | Tire pressure monitor warning lamp ON | Reference page |
|---------------------------|-----------|------------------------------------|---|------------------------|
| B2562: LOW VOLTAGE | — | — | — | BCS-35 |
| B2601: SHIFT POSITION | × | × | — | SEC-50 |
| B2602: SHIFT POSITION | × | × | — | SEC-53 |
| B2603: SHIFT POSI STATUS | × | × | — | SEC-56 |
| B2604: PNP SWITCH | × | × | — | SEC-59 |
| B2605: PNP SWITCH | × | × | — | SEC-61 |
| B2608: STARTER RELAY | × | × | — | SEC-63 |
| B260A: IGNITION RELAY | × | × | — | PCS-48 |
| B260F: ENG STATE SIG LOST | × | × | — | SEC-65 |
| B2614: ACC RELAY CIRC | — | × | — | PCS-50 |
| B2615: BLOWER RELAY CIRC | — | × | — | PCS-53 |
| B2616: IGN RELAY CIRC | — | × | — | PCS-56 |
| B2617: STARTER RELAY CIRC | × | × | — | SEC-67 |
| B2618: BCM | × | × | — | PCS-59 |
| B261A: PUSH-BTN IGN SW | — | × | — | PCS-60 |
| B2622: INSIDE ANTENNA | — | — | — | DLK-56 |
| B2623: INSIDE ANTENNA | — | — | — | DLK-59 |
| B26E1: ENG STATE NO RES | × | × | — | SEC-66 |
| C1704: LOW PRESSURE FL | — | — | × | WT-43 |
| C1705: LOW PRESSURE FR | — | — | × | WT-43 |
| C1706: LOW PRESSURE RR | — | — | × | WT-43 |
| C1707: LOW PRESSURE RL | — | — | × | WT-43 |
| C1708: [NO DATA] FL | — | — | × | WT-13 |
| C1709: [NO DATA] FR | — | — | × | WT-13 |
| C1710: [NO DATA] RR | — | — | × | WT-13 |
| C1711: [NO DATA] RL | — | — | × | WT-13 |
| C1712: [CHECKSUM ERR] FL | — | — | × | WT-15 |
| C1713: [CHECKSUM ERR] FR | — | — | × | WT-15 |
| C1714: [CHECKSUM ERR] RR | — | — | × | WT-15 |
| C1715: [CHECKSUM ERR] RL | — | — | × | WT-15 |
| C1716: [PRESSDATA ERR] FL | — | — | × | WT-17 |
| C1717: [PRESSDATA ERR] FR | — | — | × | WT-17 |
| C1718: [PRESSDATA ERR] RR | — | — | × | WT-17 |
| C1719: [PRESSDATA ERR] RL | — | — | × | WT-17 |
| C1720: [CODE ERR] FL | — | — | × | WT-15 |
| C1721: [CODE ERR] FR | — | — | × | WT-15 |
| C1722: [CODE ERR] RR | — | — | × | WT-15 |
| C1723: [CODE ERR] RL | — | — | × | WT-15 |
| C1724: [BATT VOLT LOW] FL | — | — | × | WT-15 |
| C1725: [BATT VOLT LOW] FR | — | — | × | WT-15 |
| C1726: [BATT VOLT LOW] RR | — | — | × | WT-15 |
| C1727: [BATT VOLT LOW] RL | — | — | × | WT-15 |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| CONSULT display | Fail-safe | Intelligent Key warning lamp ON | Tire pressure monitor warning lamp ON | Reference page |
|---------------------------|-----------|---------------------------------|---------------------------------------|-----------------------|
| C1729: VHCL SPEED SIG ERR | — | — | × | WT-19 |
| C1734: CONTROL UNIT | — | — | × | WT-20 |

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WARNING CHIME SYSTEM

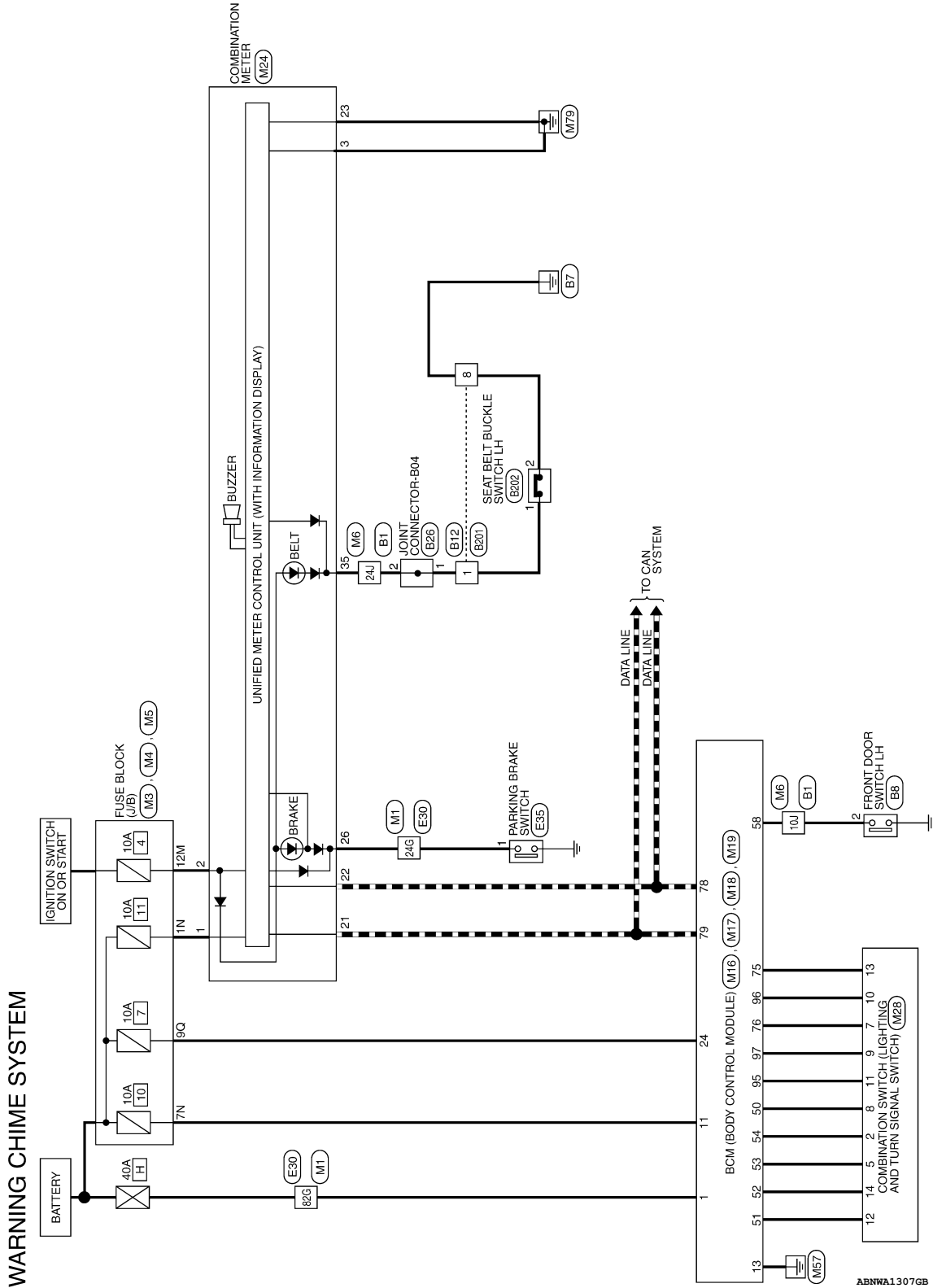
< WIRING DIAGRAM >

WIRING DIAGRAM

WARNING CHIME SYSTEM

Wiring Diagram

INFOID:000000007251332



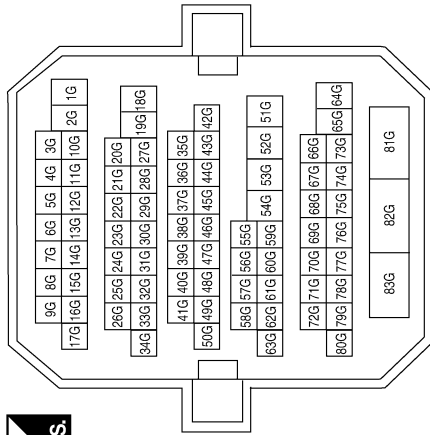
ABNWA1307GB

WARNING CHIME SYSTEM

< WIRING DIAGRAM >

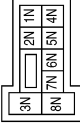
WARNING CHIME SYSTEM CONNECTORS

| | |
|-----------------|--------------|
| Connector No. | M1 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| | | |
|--------------|---------------|-------------|
| Terminal No. | Color of Wire | Signal Name |
| 24G | G/R | - |
| 82G | W/B | - |

| | |
|-----------------|------------------|
| Connector No. | M3 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |



| | | |
|--------------|---------------|-------------|
| Terminal No. | Color of Wire | Signal Name |
| 1N | W/L | - |
| 7N | Y/R | - |

| | |
|-----------------|------------------|
| Connector No. | M4 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |



| | | |
|--------------|---------------|-------------|
| Terminal No. | Color of Wire | Signal Name |
| 9Q | R/W | - |

| | |
|-----------------|------------------|
| Connector No. | M5 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |



| | | |
|--------------|---------------|-------------|
| Terminal No. | Color of Wire | Signal Name |
| 12M | O | - |

ABNIA241.6GB

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WARNING CHIME SYSTEM

< WIRING DIAGRAM >

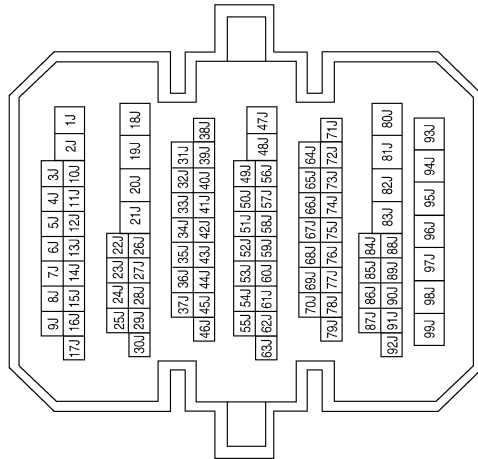
| | |
|-----------------|---------------------------|
| Connector No. | M16 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | BLACK |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | W/B | BATT (F/L) |

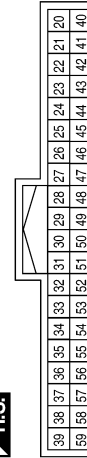
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 10J | SB | - |
| 24J | W/B | - |

| | |
|-----------------|--------------|
| Connector No. | M6 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |

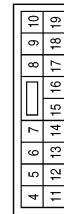


| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 24 | R/W | BRAKE SW 1 |
| 50 | LG/B | INPUT 5 |
| 51 | L/W | INPUT 1 |
| 52 | G/B | INPUT 2 |
| 53 | LG/R | INPUT 3 |
| 54 | G/Y | INPUT 4 |
| 58 | SB | DR DOOR SW |

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



| | |
|-----------------|---------------------------|
| Connector No. | M17 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | WHITE |



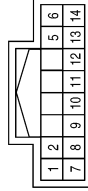
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 11 | Y/R | BAT BCM FUSE |
| 13 | B | GND1 |

ABNIA3781GB

WARNING CHIME SYSTEM

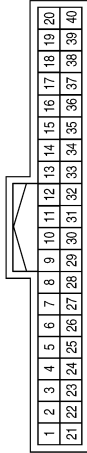
< WIRING DIAGRAM >

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



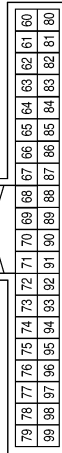
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | G/Y | OUTPUT 4 |
| 5 | LG/R | OUTPUT 3 |
| 7 | R/G | INPUT 3 |
| 8 | LG/B | OUTPUT 5 |
| 9 | R/B | INPUT 2 |
| 10 | P/B | INPUT 4 |
| 11 | R/W | INPUT 1 |
| 12 | L/W | OUTPUT 1 |
| 13 | R/Y | INPUT 5 |
| 14 | G/B | OUTPUT 2 |

| | |
|-----------------|-------------------|
| Connector No. | M24 |
| Connector Name | COMBINATION METER |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|---------------|
| 1 | W/L | BAT |
| 2 | O | IGN |
| 3 | B | GND (POWER) |
| 21 | L | CAN-H |
| 22 | P | CAN-L |
| 23 | B | GND (CIRCUIT) |
| 26 | G/R | PKB |
| 35 | W/B | DR BELT |

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



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 75 | R/Y | OUTPUT 5 |
| 76 | R/G | OUTPUT 3 |
| 78 | P | CAN-L |
| 79 | L | CAN-H |
| 95 | R/W | OUTPUT 1 |
| 96 | P/B | OUTPUT 4 |
| 97 | R/B | OUTPUT 2 |

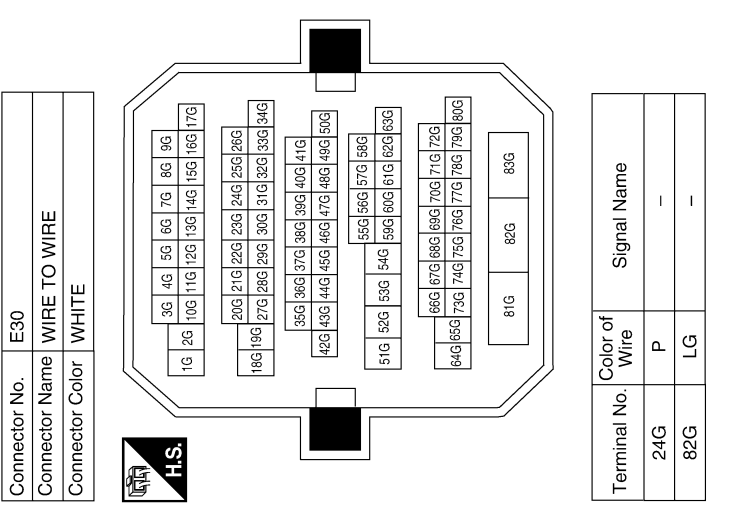
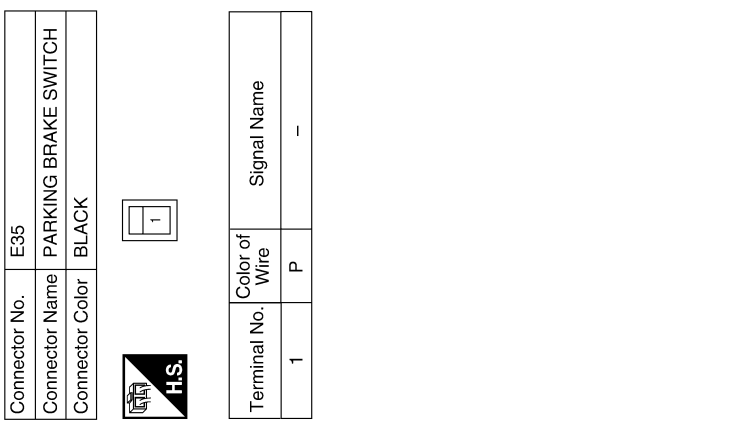
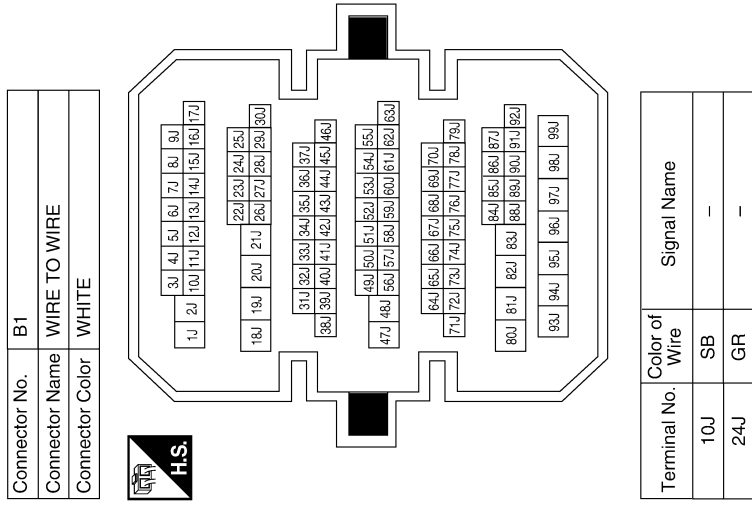
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WCS

WARNING CHIME SYSTEM

< WIRING DIAGRAM >

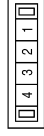


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WARNING CHIME SYSTEM

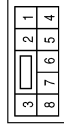
< WIRING DIAGRAM >

| | |
|-----------------|---------------------|
| Connector No. | B26 |
| Connector Name | JOINT CONNECTOR-B04 |
| Connector Color | WHITE |



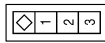
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | GR | - |
| 2 | GR | - |

| | |
|-----------------|--------------|
| Connector No. | B12 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



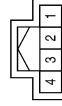
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | GR | - |
| 8 | BW | - |

| | |
|-----------------|----------------------|
| Connector No. | B8 |
| Connector Name | FRONT DOOR SWITCH LH |
| Connector Color | WHITE |



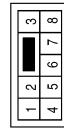
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2 | SB | - |

| | |
|-----------------|----------------------------|
| Connector No. | B202 |
| Connector Name | SEAT BELT BUCKLE SWITCH LH |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | L | - |
| 2 | B | - |

| | |
|-----------------|--------------|
| Connector No. | B201 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | L | - |
| 8 | B | - |

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WCS

THE PARKING BRAKE RELEASE WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

THE PARKING BRAKE RELEASE WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

Description

INFOID:000000007251333

- The parking brake warning buzzer sounds continuously during vehicle travel though the parking brake is released
- The parking brake warning buzzer does not sound at all even though driving the vehicle with the parking brake applied.

Diagnosis Procedure

INFOID:000000007251334

1. CHECK PARKING BRAKE WARNING LAMP

1. Start the engine.
2. Check the operation of the brake warning lamp by operating the parking brake.

Parking brake ON : ON
Parking brake OFF : OFF

Is the inspection result normal?

- YES >> Replace the combination meter. Refer to [MWI-121, "Removal and Installation"](#).
NO >> GO TO 2

2. CHECK PARKING BRAKE SWITCH SIGNAL CIRCUIT

Perform inspection of the parking brake switch signal circuit. Refer to [MWI-44, "Diagnosis Procedure"](#).

Is the inspection result normal?

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

3. CHECK PARKING BRAKE SWITCH UNIT

Perform a unit inspection for the parking brake switch. Refer to [MWI-44, "Component Inspection"](#).

Is the inspection result normal?

- YES >> Replace the combination meter. Refer to [MWI-121, "Removal and Installation"](#).
NO >> Replace the parking brake switch.

THE LIGHT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE LIGHT REMINDER WARNING DOES NOT SOUND

Description

INFOID:000000007251335

Light reminder warning does not sound even though headlamp is illuminated.

Diagnosis Procedure

INFOID:000000007251336

1. CHECK COMBINATION SWITCH (LIGHTING AND TURN SIGNAL SWITCH) OPERATION

Check that the headlamps operate normally by operating the combination switch (lighting and turn signal switch).

Do they operate normally?

YES >> GO TO 2

NO >> Refer to [EXL-6. "Work Flow"](#).

2. CHECK FRONT DOOR SWITCH LH SIGNAL CIRCUIT

Perform inspection of the front door switch LH signal circuit. Refer to [DLK-64. "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK FRONT DOOR SWITCH LH

Perform a unit inspection for the front door switch LH. Refer to [DLK-66. "Component Inspection"](#).

Is the inspection result normal?

YES >> Replace the BCM. Refer to [BCS-80. "Removal and Installation"](#).

NO >> Replace the front door switch LH.

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WCS

THE SEAT BELT WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE SEAT BELT WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

Description

INFOID:000000007251337

- Seat belt warning does not sound even though driver seat belt is not fastened.
- Seat belt warning sounds even though driver seat belt is fastened.

Diagnosis Procedure

INFOID:000000007251338

1. CHECK WARNING CHIME OPERATION

With the driver door open, turn lighting switch to 1st or 2nd position.

Does warning chime sound?

- YES >> GO TO 2
NO >> Replace combination meter. Refer to [MWI-121, "Removal and Installation"](#).

2. CHECK SEAT BELT WARNING LAMP

1. Turn ignition switch ON.
2. Check the operation of the seat belt warning lamp in the combination meter.

Seat belt fastened : OFF

Seat belt not fastened : ON

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-80, "Removal and Installation"](#).
NO >> GO TO 3

3. CHECK SEAT BELT BUCKLE SWITCH CIRCUIT

Perform inspection of the seat belt buckle switch circuit. Refer to [WCS-20, "Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> GO TO 4
NO >> Repair or replace harness.

4. CHECK SEAT BELT BUCKLE SWITCH UNIT

Perform a unit inspection for the seat belt buckle switch. Refer to [WCS-21, "Component Inspection"](#).

Is the inspection result normal?

- YES >> Replace the combination meter. Refer to [MWI-121, "Removal and Installation"](#).
NO >> Replace the seat belt buckle switch LH.

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000007251339

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

WARNING:

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

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

WARNING:

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

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