

SECTION **WCS**

WARNING CHIME SYSTEM

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

CONTENTS

| | | | |
|--|----|---|----|
| PRECAUTION | 3 | PARKING BRAKE RELEASE WARNING CHIME : System Diagram | 12 |
| PRECAUTIONS | 3 | PARKING BRAKE RELEASE WARNING CHIME : System Description | 12 |
| Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TEN- SIONER" | 3 | DIAGNOSIS SYSTEM (COMBINATION METER) | 14 |
| SYSTEM DESCRIPTION | 4 | CONSULT-III Function | 14 |
| COMPONENT PARTS | 4 | DIAGNOSIS SYSTEM (BCM) | 19 |
| Component Parts Location | 4 | COMMON ITEM | 19 |
| Component Description | 4 | COMMON ITEM : CONSULT-III Function (BCM - COMMON ITEM) | 19 |
| Combination Meter | 5 | BUZZER | 20 |
| SYSTEM | 6 | BUZZER : CONSULT-III Function (BCM - BUZZ- ER) | 20 |
| WARNING CHIME SYSTEM | 6 | ECU DIAGNOSIS INFORMATION | 22 |
| WARNING CHIME SYSTEM : System Diagram | 6 | COMBINATION METER | 22 |
| WARNING CHIME SYSTEM : System Description | 6 | Reference Value | 22 |
| WARNING CHIME SYSTEM : Fail-Safe | 7 | Fail-Safe | 29 |
| LIGHT REMINDER WARNING CHIME | 8 | DTC Index | 30 |
| LIGHT REMINDER WARNING CHIME : System Diagram | 8 | BCM | 31 |
| LIGHT REMINDER WARNING CHIME : System Description | 8 | List of ECU Reference | 31 |
| FRONT FOG LIGHT REMINDER WARNING CHIME | 9 | WIRING DIAGRAM | 32 |
| FRONT FOG LIGHT REMINDER WARNING CHIME : System Diagram | 9 | WARNING CHIME SYSTEM | 32 |
| FRONT FOG LIGHT REMINDER WARNING CHIME : System Description | 10 | Wiring Diagram | 32 |
| SEAT BELT WARNING CHIME | 10 | BASIC INSPECTION | 38 |
| SEAT BELT WARNING CHIME : System Diagram | 10 | DIAGNOSIS AND REPAIR WORKFLOW | 38 |
| SEAT BELT WARNING CHIME : System Descrip- tion | 11 | Work Flow | 38 |
| PARKING BRAKE RELEASE WARNING CHIME | 12 | DTC/CIRCUIT DIAGNOSIS | 40 |
| | | POWER SUPPLY AND GROUND CIRCUIT | 40 |
| | | COMBINATION METER | 40 |

| | | | |
|---|----|--|----|
| COMBINATION METER : Diagnosis Procedure ... | 40 | SYMPTOM DIAGNOSIS | 45 |
| METER BUZZER CIRCUIT | 41 | THE LIGHT REMINDER WARNING DOES | |
| Component Function Check | 41 | NOT SOUND | 45 |
| Diagnosis Procedure | 41 | Description | 45 |
| | | Diagnosis Procedure | 45 |
| SEAT BELT BUCKLE SWITCH SIGNAL CIR- | | THE PARKING BRAKE RELEASE WARNING | |
| CUIT | 42 | CONTINUES SOUNDING, OR DOES NOT | |
| Component Function Check | 42 | SOUND | 46 |
| Diagnosis Procedure | 42 | Description | 46 |
| Component Inspection | 43 | Diagnosis Procedure | 46 |
| PARKING BRAKE SWITCH SIGNAL CIR- | | THE SEAT BELT WARNING CONTINUES | |
| CUIT | 44 | SOUNDING, OR DOES NOT SOUND | 47 |
| Diagnosis Procedure | 44 | Description | 47 |
| Component Inspection | 44 | Diagnosis Procedure | 47 |

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

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

WARNING:

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

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

WARNING:

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

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WCS

COMPONENT PARTS

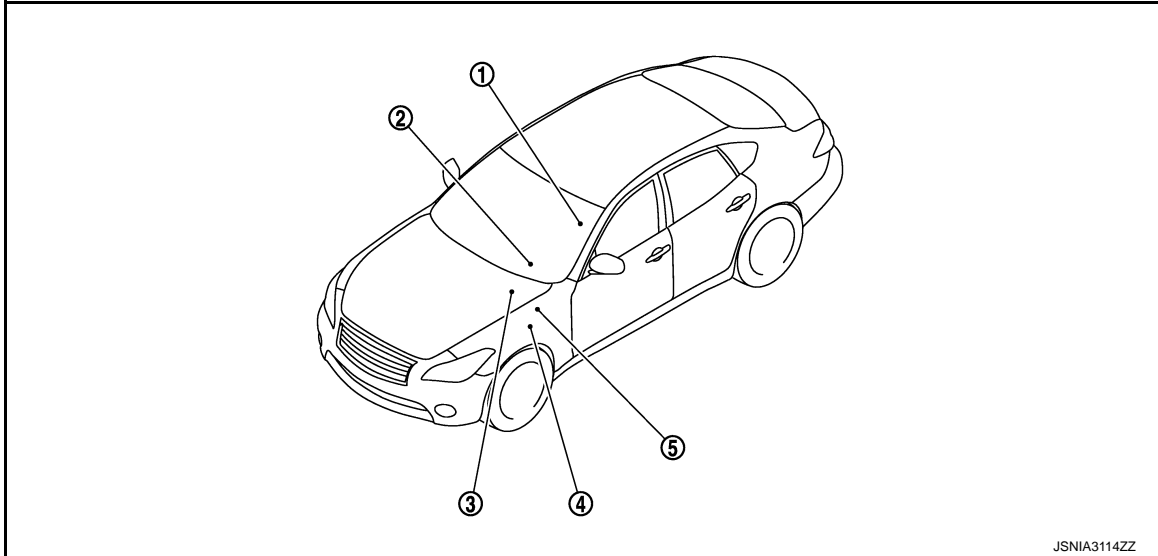
< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

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- | | | |
|--|--|---|
| 1. Seat belt buckle switch (driver side) | 2. Combination meter | 3. ABS actuator and electric unit (control unit) Refer to BRC-10, "Component Parts Location" . |
| 4. Parking brake switch | 5. BCM Refer to BCS-4, "BODY CONTROL SYSTEM : Component Parts Location" . | |

Component Description

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| Unit | Description |
|---|--|
| Combination meter | <ul style="list-style-type: none"> Receives a buzzer output signal from the BCM with CAN communication line and sounds the buzzer. Judges whether the parking brake is released from the vehicle speed signal received from the ABS actuator and electric unit (control unit) with CAN communication line and the parking brake switch signal from the parking brake switch, and sounds the buzzer if necessary. |
| BCM | Based on the signals received from various units and switches, transmits the buzzer output signal to the combination meter via CAN communication. |
| ABS actuator and electric unit (control unit) | Transmits the vehicle speed signal to the combination meter via CAN communication. |
| Parking brake switch | Transmits the parking brake switch signal to the combination meter. |
| Seat belt buckle switch (driver side) | Transmits the seat belt buckle switch signal (driver side) to the combination meter. |

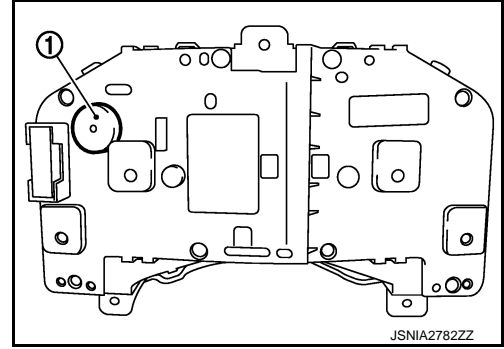
COMPONENT PARTS

< SYSTEM DESCRIPTION >

Combination Meter

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The buzzer (1) for the warning chime system is integrated in the combination meter.



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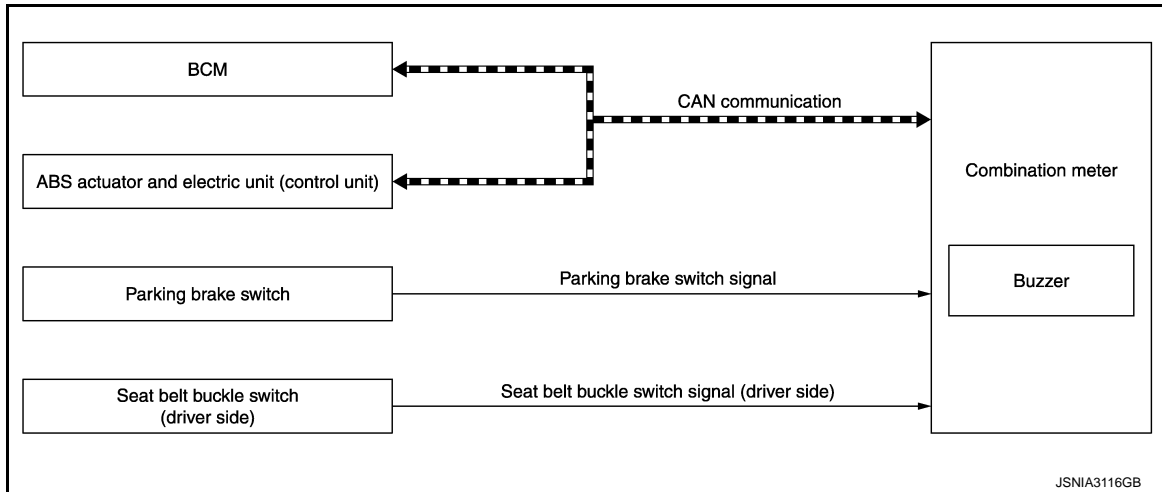
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SYSTEM

WARNING CHIME SYSTEM

WARNING CHIME SYSTEM : System Diagram

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WARNING CHIME SYSTEM : System Description

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COMBINATION METER

The combination meter sounds the alarm buzzer installed in the combination meter when receiving the buzzer output signal transmitted from each unit.

BCM

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

WARNING CHIME FUNCTION LIST

| Warning functions | Out line | Warning judgment unit | Refer to |
|--|--|-----------------------|--|
| Light reminder warning chime | The warning chime sounds when the ignition switch is in OFF or ACC position with the combination switch (lighting switch) in the 1st or 2nd position and the driver side door open. | BCM | WCS-8. "LIGHT RE-MINDER WARNING CHIME : System Description" |
| Front fog light reminder warning chime | The warning chime sounds when the ignition switch is turned to LOCK, OFF or ACC position from ON position, with combination switch (lighting switch) is in AUTO position and the front fog lamp switch in ON position. | BCM | WCS-10. "FRONT FOG LIGHT RE-MINDER WARNING CHIME : System Description" |

SYSTEM

< SYSTEM DESCRIPTION >

| Warning functions | Out line | Warning judgment unit | Refer to |
|-------------------------------------|---|-----------------------|--|
| Seat belt warning chime | The warning chime sounds when the driver seat belt is unfastened with the ignition switch in ON position. | BCM | WCS-11. "SEAT BELT WARNING CHIME : System Description" |
| Parking brake release warning chime | The warning chime sounds when the ignition switch is in ON position with the parking brake in operation and the vehicle speed 7 km/h (4.3 MPH) or more. | Combination meter | WCS-12. "PARKING BRAKE RELEASE WARNING CHIME : System Description" |

WARNING CHIME SYSTEM : Fail-Safe

INFOID:000000006109259

FAIL-SAFE

The combination meter activates the fail-safe control if CAN communication with each unit is malfunctioning.

| Function | Specifications | |
|----------------------------------|---|--|
| Speedometer | Reset to zero by suspending communication. | |
| Tachometer | | |
| Engine coolant temperature gauge | | |
| Illumination control | When suspending communication, changes to nighttime mode. | |
| Information display | Odo/trip meter | An indicated value is maintained at communications blackout. |
| | Shift position indicator | The display turns OFF by suspending communication. |
| | Door open warning | The display turns OFF by suspending communication. |
| | Trunk open warning | |
| Buzzer | The buzzer turns OFF by suspending communication. | |

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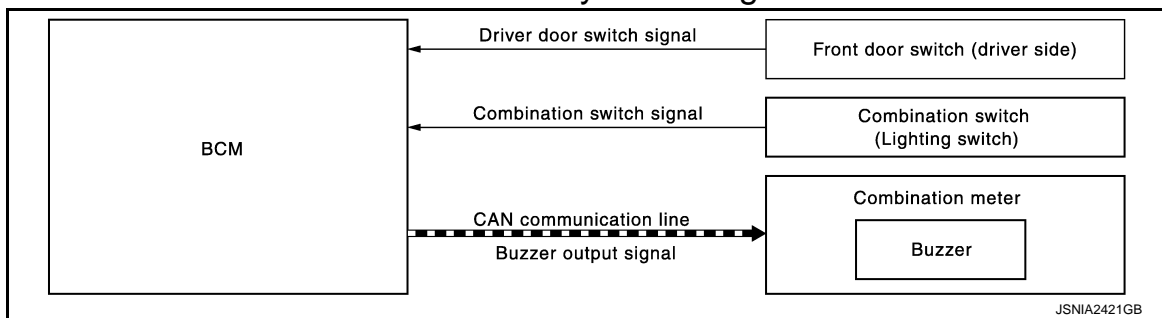
SYSTEM

< SYSTEM DESCRIPTION >

| Function | Specifications |
|--------------------------------|---|
| ABS warning lamp | The lamp turns ON by suspending communication. |
| VDC warning lamp | |
| VDC OFF indicator lamp | |
| Brake warning lamp | |
| IBA OFF indicator lamp | |
| AWD warning lamp | |
| Malfunction indicator lamp | |
| CRUISE warning lamp | |
| Low tire pressure warning lamp | The lamp blinking caused by suspending communication. |
| AFS OFF indicator lamp | |
| High beam indicator lamp | The lamp turns OFF by suspending communication. |
| Turn signal indicator lamp | |
| Front fog lamp indicator lamp | |
| Tail lamp indicator lamp | |
| A/T CHECK indicator lamp | |
| 4WAS warning lamp | |
| Lane departure warning lamp | |
| LDP ON indicator lamp | |
| Oil pressure warning lamp | |
| ECO drive indicator | |
| BSI ON indicator | |
| BSW/BSI warning lamp | |

LIGHT REMINDER WARNING CHIME

LIGHT REMINDER WARNING CHIME : System Diagram



LIGHT REMINDER WARNING CHIME : System Description

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WARNING CHIME OPERATION CONDITIONS

If all of the following conditions are fulfilled.

| Operation conditions | |
|--------------------------------------|---|
| Ignition switch | OFF or ACC position |
| Combination switch (Lighting switch) | 1st or 2nd position |
| Driver side door | Open [front door switch (driver side) ON] |

WARNING CHIME CANCEL CONDITIONS

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

SYSTEM

< SYSTEM DESCRIPTION >


| Operation conditions | |
|--------------------------------------|---|
| Ignition switch | ON |
| Combination switch (Lighting switch) | OFF or AUTO position |
| Driver side door | Close [front door switch (driver side) OFF] |

SIGNAL PATH

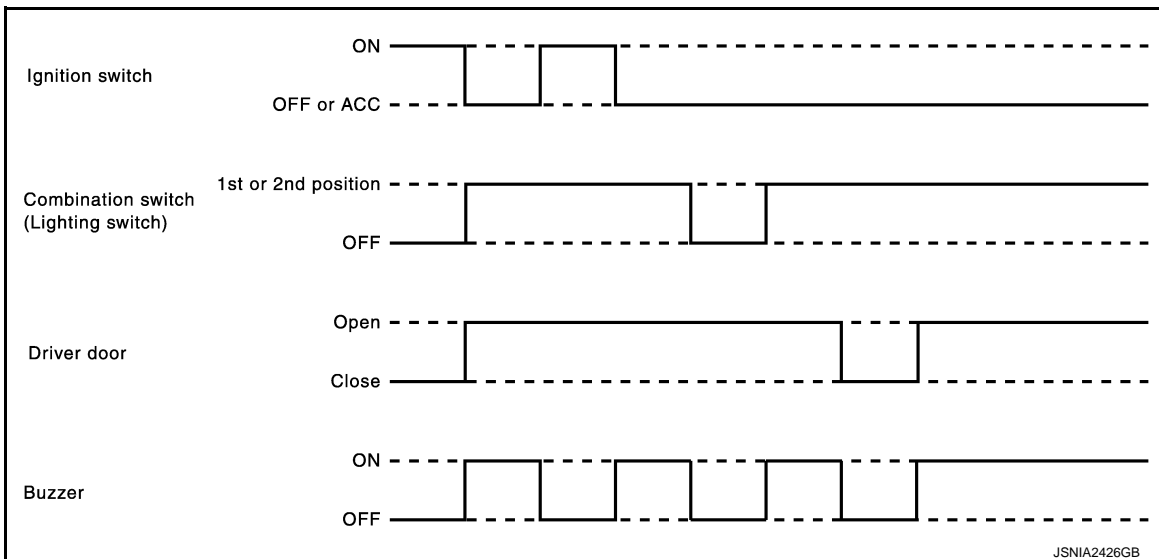
1. BCM requires warning chime output to combination meter when it judges light reminder warning chime is necessary from signals below.

| Signal name | Signal path |
|---------------------------|--|
| Ignition switch signal | — |
| Combination switch signal | Combination switch (Lighting switch) → BCM |
| Driver door switch signal | Front door switch (driver side) → BCM |

2. Combination meter sounds integrated buzzer, following the warning chime output requirement (below signal) from BCM.

| Signal name | Signal path |
|----------------------|---|
| Buzzer output signal | BCM  → Combination meter |

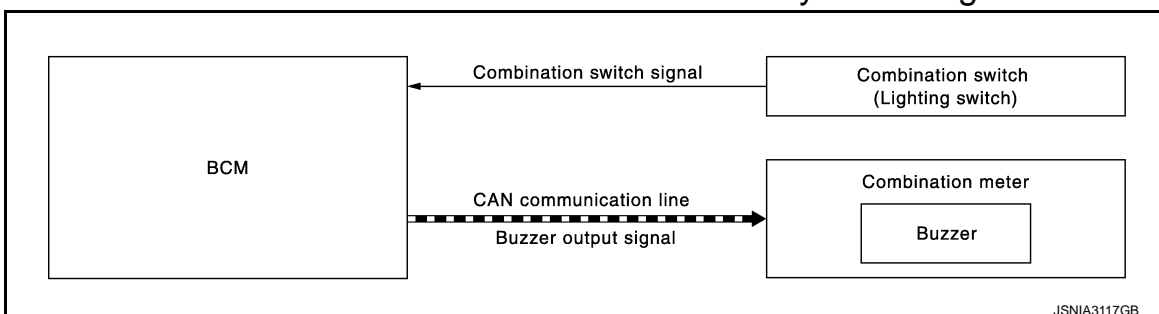
TIMING CHART



FRONT FOG LIGHT REMINDER WARNING CHIME

FRONT FOG LIGHT REMINDER WARNING CHIME : System Diagram

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SYSTEM

< SYSTEM DESCRIPTION >

FRONT FOG LIGHT REMINDER WARNING CHIME : System Description INFOID:000000006071429

WARNING CHIME OPERATION CONDITIONS

Warning chime sounds during 2 seconds when the ignition switch is in LOCK, OFF or ACC position, if all of below operation conditions is met.


| Operation conditions | |
|--------------------------------------|---|
| Ignition switch | ON position |
| Combination switch (Lighting switch) | AUTO position and front fog lamp switch ON position |

SIGNAL PATH

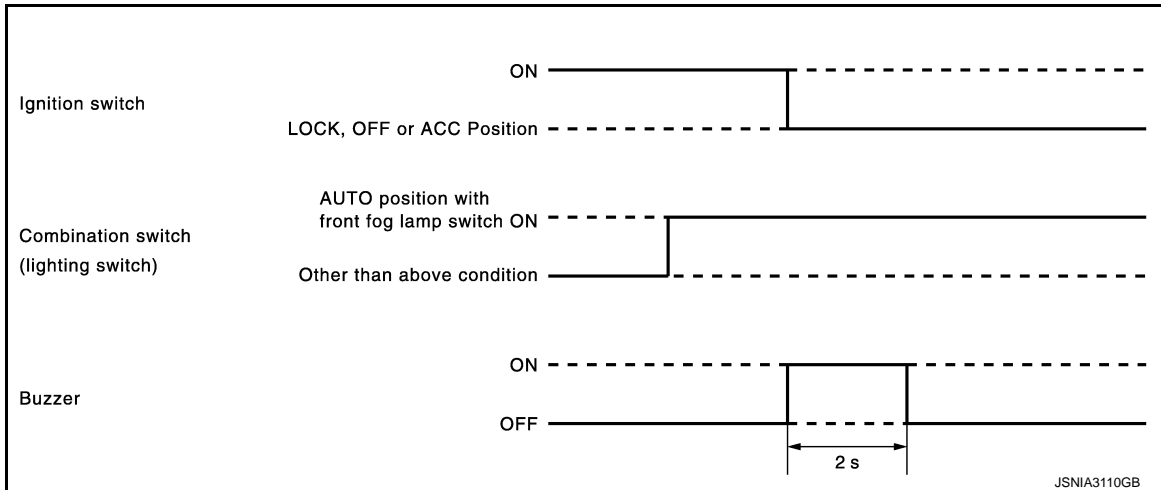
1. BCM requires warning chime output to combination meter when it judges front fog light reminder warning chime is necessary from signals below.

| Signal name | Signal path |
|---------------------------|--|
| Ignition switch signal | — |
| Combination switch signal | Combination switch (Lighting switch) → BCM |

2. Combination meter sounds integrated buzzer, following the warning chime output requirement (below signal) from BCM.

| Signal name | Signal path |
|----------------------|--|
| Buzzer output signal | BCM  Combination meter |

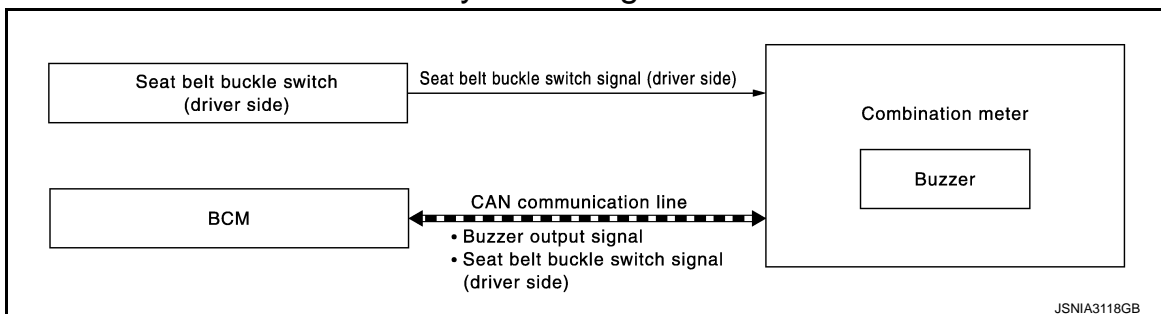
TIMING CHART



SEAT BELT WARNING CHIME

SEAT BELT WARNING CHIME : System Diagram

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< SYSTEM DESCRIPTION >

SEAT BELT WARNING CHIME : System Description

INFOID:000000006071433

WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled.

| Operation conditions | |
|----------------------|---|
| Ignition switch | ON |
| Driver seat belt | Unfastened [seat belt buckle switch (driver side) ON] |

WARNING CANCEL CONDITIONS

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

| Operation conditions | |
|--|--|
| Ignition switch | OFF |
| Seat belt (driver side) | Fastened (driver side seat belt buckle switch OFF) |
| 6 seconds after the start of warning sound | |

SIGNAL PATH

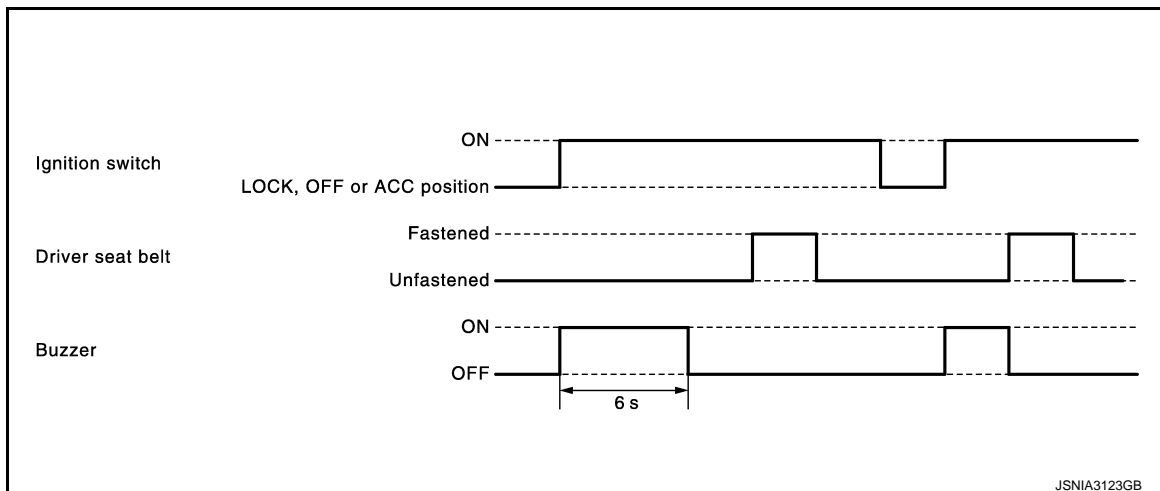
1. BCM requires warning chime output to combination meter when it judges seat belt warning chime is necessary from signals below.

| Signal name | Signal path |
|--|--|
| Ignition switch signal | — |
| Seat belt buckle switch signal (driver side) | Seat belt buckle switch (driver side) → Combination meter CAN → BCM |

2. Combination meter sounds integrated buzzer, following the warning chime output requirement (below signal) from BCM.

| Signal name | Signal path |
|----------------------|-------------------------------|
| Buzzer output signal | BCM → CAN → Combination meter |

TIMING CHART



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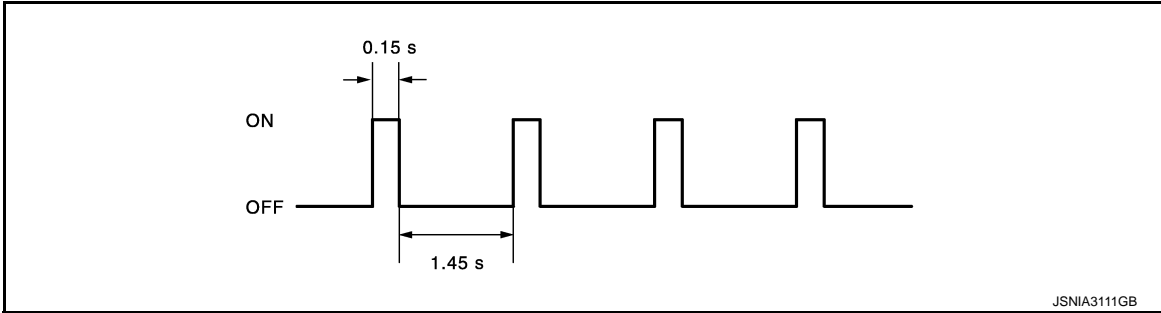
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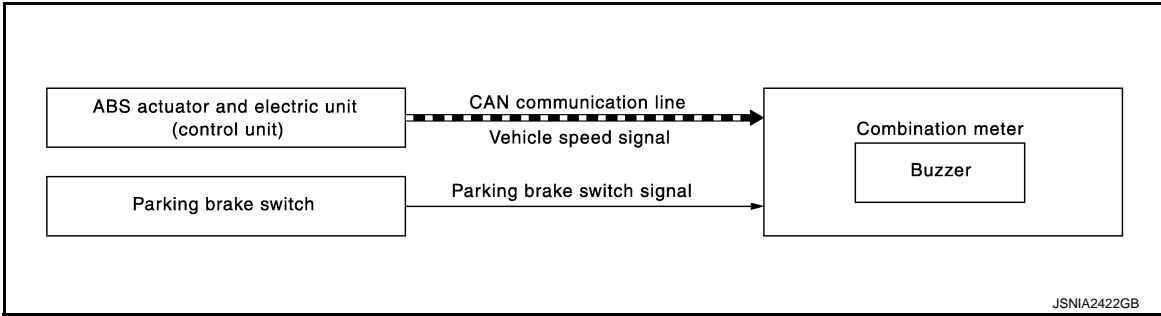
SOUND SPECIFICATION



PARKING BRAKE RELEASE WARNING CHIME

PARKING BRAKE RELEASE WARNING CHIME : System Diagram

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PARKING BRAKE RELEASE WARNING CHIME : System Description

INFOID:000000006039611

WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled.

| Operation conditions | |
|----------------------|--|
| Ignition switch | ON |
| Parking brake | During the operation (parking brake switch ON) |
| Vehicle speed | Approximately 7 km/h (4.3 MPH) or more |

WARNING CANCEL CONDITIONS

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

| Operation conditions | |
|----------------------|--|
| Ignition switch | OFF |
| Parking brake | Release condition (parking brake switch OFF) |
| Vehicle speed | Approximately 3 km/h (1.9 MPH) or less |

SIGNAL PATH

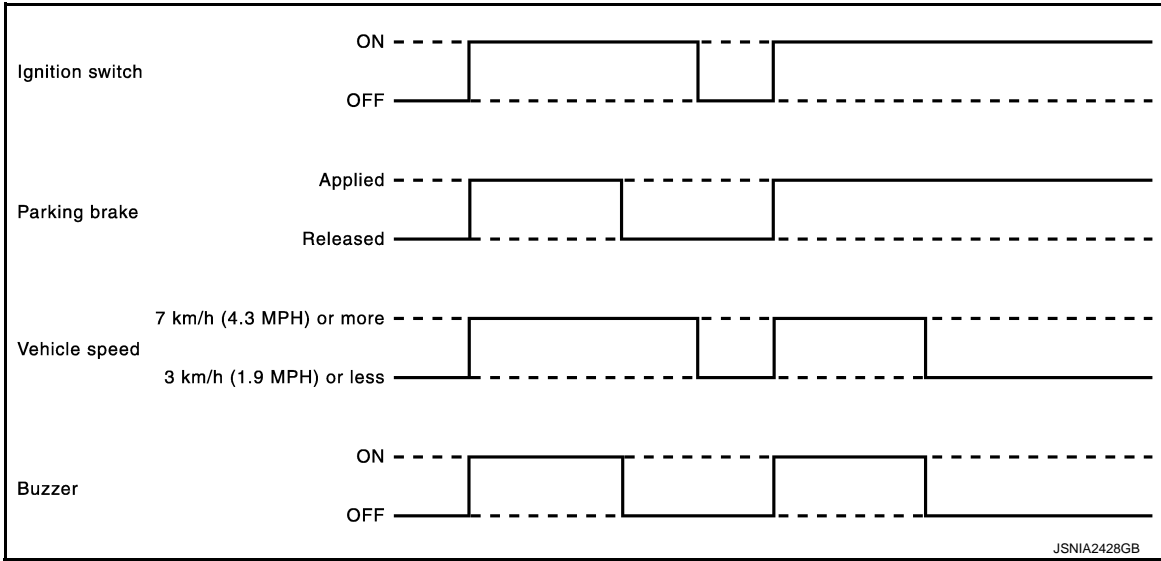
Combination meter sounds integrated buzzer when it judges that parking brake release warning chime is necessary from signals below.

| Signal name | Signal path |
|-----------------------------|--|
| Ignition switch signal | — |
| Parking brake switch signal | Parking brake switch → Combination meter |
| Vehicle speed signal | ABS actuator and electric unit (control unit) ^{CAN} → Combination meter |

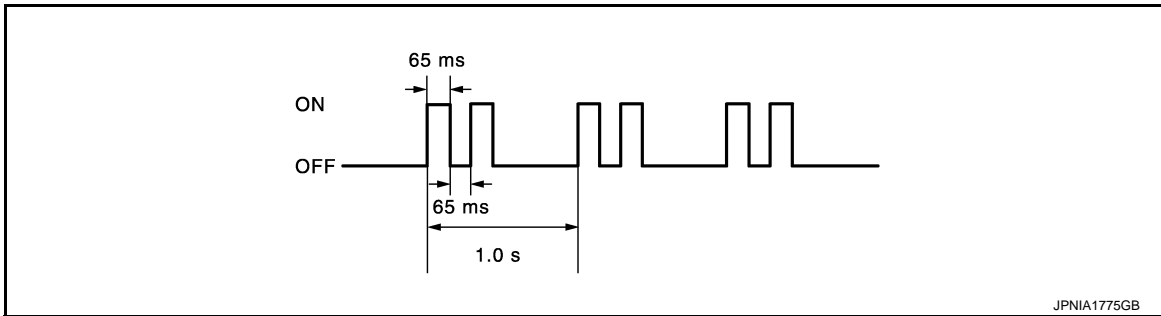
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TIMING CHART



SOUND SPECIFICATION



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DIAGNOSIS SYSTEM (COMBINATION METER)

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DIAGNOSIS SYSTEM (COMBINATION METER)

CONSULT-III Function

INFOID:000000006113008

CONSULT-III APPLICATION ITEMS

CONSULT-III can perform the following diagnosis modes via CAN communication and the combination meter.

| System | Diagnosis mode | Description |
|-----------|------------------------|--|
| METER/M&A | Self Diagnostic Result | The combination meter checks the conditions and displays memorized errors. |
| | Data Monitor | Displays the combination meter input/output data in real time. |
| | Special function | Lighting history of the warning lamp and indicator lamp can be checked. |

SELF DIAG RESULT

Refer to [MWI-43, "DTC Index"](#).

DATA MONITOR

Display Item List

X: Applicable

| Display item [Unit] | MAIN SIGNALS | Description |
|-----------------------------|--------------|--|
| SPEED METER [km/h] | X | Value of vehicle speed signal received from ABS actuator and electric unit (control unit) via CAN communication. NOTE: 655.35 is displayed when the malfunction signal is received. |
| SPEED OUTPUT [km/h] | X | Vehicle speed signal value transmitted to other units via CAN communication. NOTE: 655.35 is displayed when the malfunction signal is received. |
| ODO OUTPUT [km/h or mph] | | Odometer signal value transmitted to other units via CAN communication. |
| TACHO METER [rpm] | X | Value of the engine speed signal received from ECM via CAN communication. NOTE: 8191.875 is displayed when the malfunction signal is received. |
| FUEL METER [L] | X | Fuel level indicated on combination meter. |
| W TEMP METER [°C] | X | Value of engine coolant temperature signal is received from ECM via CAN communication. NOTE: 215 is displayed when the malfunction signal is input. |
| ABS W/L [On/Off] | | Status of ABS warning lamp detected from ABS warning lamp signal is received from ABS actuator and electric unit (control unit) via CAN communication. |
| VDC/TCS IND [On/Off] | | Status of VDC OFF indicator lamp detected from VDC OFF indicator lamp signal is received from ABS actuator and electric unit (control unit) via CAN communication. |
| SLIP IND [On/Off] | | Status of VDC warning lamp detected from VDC warning lamp signal received from ABS actuator and electric unit (control unit) via CAN communication. |
| BRAKE W/L [On/Off] | | Status of brake warning lamp detected from brake warning lamp signal is received from ABS actuator and electric unit (control unit) via CAN communication. NOTE: Displays "Off" if the brake warning lamp is illuminated when the valve check starts, the parking brake switch is turned ON or the brake fluid level switch is turned ON. |
| DOOR W/L [On/Off] | | Status of door open warning detected from door switch signal received from BCM via CAN communication. |
| TRUNK/GLAS-H [On/Off] | | Status of trunk open warning detected from trunk switch signal received from BCM via CAN communication. |
| HI-BEAM IND [On/Off] | | Status of high beam indicator lamp detected from high beam request signal is received from BCM via CAN communication. |

DIAGNOSIS SYSTEM (COMBINATION METER)

< SYSTEM DESCRIPTION >

| Display item [Unit] | MAIN SIGNALS | Description |
|--|--------------|---|
| TURN IND [On/Off] | | Status of turn indicator lamp detected from turn indicator signal is received from BCM via CAN communication. |
| FR FOG IND [On/Off] | | Status of front fog light indicator lamp detected from front fog light request signal is received from BCM via CAN communication. |
| LIGHT IND [On/Off] | | Status of light indicator lamp detected from position light request signal is received from BCM via CAN communication. |
| OIL W/L [On/Off] | | <ul style="list-style-type: none"> • Status of oil pressure warning lamp detected from oil pressure switch signal is received from BCM via CAN communication. (VQ37VHR engine models) • Status of oil pressure warning lamp detected from oil pressure warning lamp signal is received from ECM via CAN communication. (VK56VD engine models) |
| MIL [On/Off] | | Status of malfunction indicator lamp detected from malfunctioning indicator lamp signal is received from ECM via CAN communication. |
| GLOW IND [Off] | | This item is displayed, but cannot be monitored. |
| CRUISE IND [On/Off] | | <ul style="list-style-type: none"> • Status of CRUISE indicator detected from ASCD status signal is received from ECM via CAN communication. (ASCD models) • Status of CRUISE indicator detected from meter display signal is received from ADAS control unit via CAN communication. (ICC models) |
| SET IND [On/Off] | | <ul style="list-style-type: none"> • Status of SET indicator detected from ASCD status signal is received from ECM via CAN communication. (ASCD models) • Status of SET indicator detected from meter display signal is received from ADAS control unit via CAN communication. (ICC models) |
| CRUISE W/L [On/Off] | | Status of ICC warning lamp detected from ICC warning lamp signal is received from ADAS control unit via CAN communication. |
| BA W/L [On/Off] | | Status of IBA OFF indicator lamp judged from IBA OFF indicator lamp signal received from ADAS control unit with CAN communication line. |
| ATC/T-AMT W/L [On/Off] | | Status of A/T CHECK warning lamp judged from A/T CHECK indicator lamp signal received from TCM with CAN communication line. |
| 4WD W/L [On/Off] | | Status of AWD warning lamp judged from AWD warning lamp signal received from AWD control unit with CAN communication line. |
| FUEL W/L [On/Off] | | Low fuel warning status detected by the identified fuel level. |
| WASHER W/L [On/Off] | | Status of low washer fluid warning judged from washer level switch input to combination meter. |
| AIR PRES W/L [On/Off] | | Status of low tire pressure warning lamp judged from low tire pressure warning lamp signal received from BCM with CAN communication line. |
| KEY G/Y W/L [On/Off] | | Status of Intelligent Key system malfunction detected from Intelligent Key warning display signal is received from BCM via CAN communication. |
| AFS OFF IND [On/Off] | | Status of AFS OFF indicator lamp judged from AFS OFF indicator lamp signal received from AFS control unit with CAN communication line. |
| 4WAS/RAS W/L [On/Off] | | Status of 4WAS warning lamp judged from 4WAS warning lamp signal received from 4WAS main control unit with CAN communication line. |
| LANE W/L [On/Off] | | Status of lane departure warning lamp judged from lane departure warning lamp signal received from ADAS control unit with CAN communication line. |
| LDP IND [On/Off] | | Status of LDP ON indicator lamp judged from LDP ON indicator lamp signal received from ADAS control unit with CAN communication line. |
| LCD [B&P N, B&P I, ID NG, ROTAT, SFT P, INSRT, BATT, NO KY, OUTKY, LK WN] | | Displays status of Intelligent Key system warning judged from meter display signal received from BCM with CAN communication line. |
| ACC TARGET [On/Off] | | Status of vehicle ahead detection indicator judged from meter display signal received from ADAS control unit with CAN communication line. |
| ACC DISTANCE [Off, Short, Middle, Long] | | Status of set distance indicator judged from meter display signal received from ADAS control unit with CAN communication line. |

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DIAGNOSIS SYSTEM (COMBINATION METER)

< SYSTEM DESCRIPTION >

| Display item [Unit] | MAIN SIGNALS | Description |
|---|--------------|---|
| ACC OWN VHL [On/Off] | | Status of own vehicle indicator judged from meter display signal received from ADAS control unit with CAN communication line. |
| ACC SET SPEED [On/Off] | | Status of set vehicle speed indicator judged from meter display signal received from ADAS control unit with CAN communication line. |
| ACC UNIT [km/h/Off] | | Status of display unit judged from meter display signal received from ADAS control unit with CAN communication line. |
| SHIFT IND [P, R, N, D, M1, M2, M3, M4, M5, M6, M7] | | Status of shift position indicator judged from shift position signal received from TCM with CAN communication line. |
| ECO DRIVE IND G [On/Off] | | Status of ECO drive indicator (green) judged from ECO drive indicator control signal received from ECM with CAN communication line. |
| ECO DRIVE IND O [On/Off] | | Status of ECO drive indicator (orange) judged from ECO drive indicator control signal received from ECM with CAN communication line. |
| BSW IND [On/Off] | | Status of BSI ON indicator (green) judged from BSI ON indicator signal received from ADAS control unit with CAN communication line. |
| BSW W/L [On/Off] | | Status of BSW/BSI warning lamp (yellow) judged from BSW/BSI warning lamp signal received from ADAS control unit with CAN communication line. |
| DRIVE MODE STATS [SNOW, SN-EC, ECO, EC-ST, STD, ST-SP, SPORT, ERROR] | | Status of drive mode select switch. |
| M RANGE SW [On/Off] | | Status of manual mode switch. |
| NM RANGE SW [On/Off] | | Status of non-manual mode switch. |
| AT SFT UP SW [On/Off] | | Status of manual mode shift up switch. |
| AT SFT DWN SW [On/Off] | | Status of manual mode shift down switch. |
| ST SFT UP SW [On/Off] | | Status of paddle shifter shift up switch. |
| ST SFT DWN SW [On/Off] | | Status of paddle shifter shift down switch. |
| PKB SW [On/Off] | | Status of parking brake switch. |
| BUCKLE SW [On/Off] | | Status of seat belt buckle switch (driver side). |
| BRAKE OIL SW [On/Off] | | Status of brake fluid level switch. |
| ENTER SW [On/Off] | | Status of  (ENTER) switch. |
| SELECT SW [On/Off] | | Status of  (SELECT) switch. |
| DISTANCE [km] | | Value of distance to empty calculated by combination meter. |
| OUTSIDE TEMP [°C or °F] | | Ambient temperature value converted from ambient sensor signal received from ambient sensor. NOTE: This may not match with the temperature value indicated on the information display. (Because the information display value is a corrected value from the ambient sensor input value.) |

DIAGNOSIS SYSTEM (COMBINATION METER)

< SYSTEM DESCRIPTION >

| Display item [Unit] | MAIN SIGNALS | Description |
|--------------------------|--------------|---|
| FUEL LOW SIG [On/Off] | | Status of fuel level low warning signal to output to AV control unit via CAN communication. |
| BUZZER [On/Off] | X | Buzzer status (in the combination meter) is detected from the buzzer output signal received from each unit via CAN communication and the warning output condition of the combination meter. |

NOTE:

Some items are not available according to vehicle specification.

SPECIAL FUNCTION

Special menu

| Display item | Description |
|----------------|---|
| W/L ON HISTORY | Lighting history of warning lamp and indicator lamp can be checked. |

W/L ON HISTORY

- Stores histories when warning/indicator lamp is turned on.
- “W/L ON HISTORY” indicates the “TIME” when the warning/ indicator lamp is turned on.
- The “TIME” above is:
 - 0: The condition that the warning/indicator lamp has been turned on 1 or more times after starting the engine and waiting for 30 seconds.
 - 1 - 39: The number of times the engine was restarted after the 0 condition.
 - NO W/L ON HISTORY: Stores NO (0) turning on history of warning/indicator lamp.

NOTE:

- W/L ON HISTORY is not stored for approximately 30 seconds after the engine starts.
- Brake warning lamp does not store any history when the parking brake is applied or the brake fluid level gets low.

Display Item

| Display item | Description |
|---------------|--|
| ABS W/L | Lighting history of ABS warning lamp. |
| VDC/TCS IND | Lighting history of VDC OFF indicator lamp. |
| SLIP IND | Lighting history of VDC warning lamp. |
| BRAKE W/L | Lighting history of brake warning lamp. |
| DOOR W/L | Lighting history of door open warning. |
| TRUNK/GLAS-H | Lighting history of trunk open warning. |
| OIL W/L | Lighting history of oil pressure warning lamp. |
| C-ENG W/L | Lighting history of malfunction indicator lamp. |
| C-ENG2 W/L | This item is displayed, but cannot be monitored. |
| CRUISE IND | Lighting history of CRUISE indicator. |
| SET IND | Lighting history of SET indicator. |
| CRUISE W/L | Lighting history of ICC warning lamp. |
| BA W/L | Lighting history of IBA OFF indicator lamp. |
| O/D OFF IND | This item is displayed, but cannot be monitored. |
| ATC/T-AMT W/L | Lighting history of A/T CHECK warning lamp. |
| ATF TEMP W/L | This item is displayed, but cannot be monitored. |
| CVT IND | This item is displayed, but cannot be monitored. |
| SPORT IND | This item is displayed, but cannot be monitored. |
| 4WD W/L | Lighting history of AWD warning lamp. |
| FUEL W/L | Lighting history of low fuel level warning. |

DIAGNOSIS SYSTEM (COMBINATION METER)

< SYSTEM DESCRIPTION >

| Display item | Description |
|----------------|---|
| WASHER W/L | Lighting history of low washer fluid warning. |
| AIR PRES W/L | Lighting history of low tire pressure warning lamp. |
| KEY G/Y W/L | Lighting history of Intelligent Key system malfunction. |
| KEY R W/L | This item is displayed, but cannot be monitored. |
| KEY KNOB W/L | This item is displayed, but cannot be monitored. |
| EPS W/L | This item is displayed, but cannot be monitored. |
| e-4WD | This item is displayed, but cannot be monitored. |
| AFS OFF IND | Lighting history of AFS OFF indicator lamp. |
| 4WAS/RAS W/L | Lighting history of 4WAS warning lamp. |
| HDC W/L | This item is displayed, but cannot be monitored. |
| SYS FAIL W/L | This item is displayed, but cannot be monitored. |
| SFT POSI W/L | This item is displayed, but cannot be monitored. |
| HV BAT W/L | This item is displayed, but cannot be monitored. |
| HEV BRAKE W/L | This item is displayed, but cannot be monitored. |
| SFT OPER W/L | This item is displayed, but cannot be monitored. |
| LANE W/L | Lighting history of lane departure warning lamp. |
| CHAGE W/L | This item is displayed, but cannot be monitored. |
| OIL LEV LOW | This item is displayed, but cannot be monitored. |
| DPF W/L | This item is displayed, but cannot be monitored. |
| TRAILER IND | This item is displayed, but cannot be monitored. |
| RUN FLAT W/L | This item is displayed, but cannot be monitored. |
| E-SUS W/L | This item is displayed, but cannot be monitored. |
| LAUNCH CNT W/L | This item is displayed, but cannot be monitored. |
| BSW W/L | Lighting history of BSW/BSI warning lamp (yellow). |
| FILTER W/L | This item is displayed, but cannot be monitored. |
| BRAKE PAD W/L | This item is displayed, but cannot be monitored. |

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:000000006113019

APPLICATION ITEM

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

| Diagnosis mode | Function Description |
|--------------------------|---|
| Work Support | Changes the setting for each system function. |
| Self Diagnostic Result | Displays the diagnosis results judged by BCM. |
| CAN Diag Support Monitor | Monitors the reception status of CAN communication viewed from BCM. Refer to CONSULT-III operation manual. |
| Data Monitor | The BCM input/output signals are displayed. |
| Active Test | The signals used to activate each device are forcibly supplied from BCM. |
| Ecu Identification | The BCM part number is displayed. |
| Configuration | <ul style="list-style-type: none"> • Read and save the vehicle specification. • Write the vehicle specification when replacing BCM. |

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

x: Applicable item

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

*: This item is not used.

FREEZE FRAME DATA (FFD)

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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

| CONSULT screen item | Indication/Unit | Description | |
|---------------------|---|---|--|
| Vehicle Speed | km/h | Vehicle speed of the moment a particular DTC is detected | |
| Odo/Trip Meter | km | Total mileage (Odometer value) of the moment a particular DTC is detected | |
| Vehicle Condition | SLEEP>LOCK | Power position status of the moment a particular DTC is detected | While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK") |
| | SLEEP>OFF | | While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".) |
| | LOCK>ACC | | While turning power supply position from "LOCK" to "ACC" |
| | ACC>ON | | While turning power supply position from "ACC" to "IGN" |
| | RUN>ACC | | While turning power supply position from "RUN" to "ACC" (Vehicle is stopping and selector lever is except P position.) |
| | CRANK>RUN | | While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it) |
| | RUN>URGENT | | While turning power supply position from "RUN" to "ACC" (Emergency stop operation) |
| | ACC>OFF | | While turning power supply position from "ACC" to "OFF" |
| | OFF>LOCK | | While turning power supply position from "OFF" to "LOCK" |
| | OFF>ACC | | While turning power supply position from "OFF" to "ACC" |
| | ON>CRANK | | While turning power supply position from "IGN" to "CRANKING" |
| | OFF>SLEEP | | While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode |
| | LOCK>SLEEP | | While turning BCM status from normal mode (Power supply position is "LOCK".) to low power consumption mode |
| | LOCK | | Power supply position is "LOCK" (Ignition switch OFF with steering is locked.) |
| | OFF | | Power supply position is "OFF" (Ignition switch OFF with steering is unlocked.) |
| | ACC | | Power supply position is "ACC" (Ignition switch ACC) |
| | ON | | Power supply position is "IGN" (Ignition switch ON with engine stopped) |
| ENGINE RUN | Power supply position is "RUN" (Ignition switch ON with engine running) | | |
| CRANKING | Power supply position is "CRANKING" (At engine cranking) | | |
| IGN Counter | 0 - 39 | <p>The number of times that ignition switch is turned ON after DTC is detected</p> <ul style="list-style-type: none"> • The number is 0 when a malfunction is detected now. • The number increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. • The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. | |

BUZZER

BUZZER : CONSULT-III Function (BCM - BUZZER)

INFOID:000000006039614

CONSULT-III APPLICATION ITEMS

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

DATA MONITOR

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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

ACTIVE TEST

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

WCS

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

COMBINATION METER

Reference Value

INFOID:000000006106599

VALUES ON THE DIAGNOSIS TOOL

| Monitor Item | Condition | | Value/Status |
|-----------------------------|-----------------------|-----------------------------------|--|
| SPEED METER [km/h] | Ignition switch ON | While driving | Input value of vehicle speed signal (CAN communication signal) NOTE: 655.35 is displayed when the malfunction signal is received |
| SPEED OUTPUT [km/h] | Ignition switch ON | While driving | Output value of vehicle speed signal (CAN communication signal) NOTE: 655.35 is displayed when the malfunction signal is received |
| ODO OUTPUT [km/h or mph] | Ignition switch ON | — | Output value of odometer signal (CAN communication signal) |
| TACHO METER [rpm] | Ignition switch ON | Engine running | Input value of engine speed signal (CAN communication signal) NOTE: 8191.875 is displayed when the malfunction signal is received |
| FUEL METER [L] | Ignition switch ON | — | Input value of fuel level sensor signal |
| W TEMP METER [°C] | Ignition switch ON | — | Input value of engine coolant temperature signal (CAN communication signal) NOTE: 215 is displayed when the malfunction signal is input |
| ABS W/L | Ignition switch ON | ABS warning lamp ON | On |
| | | ABS warning lamp OFF | Off |
| VDC/TCS IND | Ignition switch ON | VDC OFF indicator lamp ON | On |
| | | VDC OFF indicator lamp OFF | Off |
| SLIP IND | Ignition switch ON | VDC warning lamp ON | On |
| | | VDC warning lamp OFF | Off |
| BRAKE W/L | Ignition switch ON | Brake warning lamp ON | On |
| | | Brake warning lamp OFF | Off |
| DOOR W/L | Ignition switch ON | Door open warning ON | On |
| | | Door open warning OFF | Off |
| TRUNK/GLAS-H | Ignition switch ON | Trunk open warning ON | On |
| | | Trunk open warning OFF | Off |
| HI-BEAM IND | Ignition switch ON | High-beam indicator lamp ON | On |
| | | High-beam indicator lamp OFF | Off |
| TURN IND | Ignition switch ON | Turn signal indicator lamp ON | On |
| | | Turn signal indicator lamp OFF | Off |
| FR FOG IND | Ignition switch ON | Front fog lamp indicator lamp ON | On |
| | | Front fog lamp indicator lamp OFF | Off |

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | | Value/Status | |
|---------------|--------------------|--|--------------|-----|
| LIGHT IND | Ignition switch ON | Light indicator lamp ON | On | A |
| | | Tail lamp indicator lamp OFF | Off | |
| OIL W/L | Ignition switch ON | Oil pressure warning lamp ON | On | B |
| | | Oil pressure warning lamp OFF | Off | |
| MIL | Ignition switch ON | Malfunction indicator lamp ON | On | C |
| | | Malfunction indicator lamp OFF | Off | |
| GLOW IND | Ignition switch ON | NOTE: This item is displayed, but cannot be monitored. | Off | D |
| CRUISE IND | Ignition switch ON | CRUISE indicator ON | On | |
| | | CRUISE indicator OFF | Off | |
| SET IND | Ignition switch ON | SET indicator ON | On | E |
| | | SET indicator OFF | Off | |
| CRUISE W/L | Ignition switch ON | CRUISE warning lamp ON | On | F |
| | | CRUISE warning lamp OFF | Off | |
| BA W/L | Ignition switch ON | IBA OFF indicator lamp ON | On | G |
| | | IBA OFF indicator lamp OFF | Off | |
| ATC/T-AMT W/L | Ignition switch ON | A/T check warning lamp ON | On | |
| | | A/T check warning lamp OFF | Off | H |
| 4WD W/L | Ignition switch ON | AWD warning lamp ON | On | |
| | | AWD warning lamp OFF | Off | |
| FUEL W/L | Ignition switch ON | During low fuel warning indication | On | I |
| | | Other than the above | Off | |
| WASHER W/L | Ignition switch ON | During low washer fluid warning indication | On | J |
| | | Other than the above | Off | |
| AIR PRES W/L | Ignition switch ON | Low tire pressure warning lamp ON | On | |
| | | Low tire pressure warning lamp OFF | Off | K |
| KEY G/Y W/L | Ignition switch ON | During Intelligent Key system malfunction indication | On | |
| | | Other than the above | Off | L |
| AFS OFF IND | Ignition switch ON | AFS OFF indicator lamp ON | On | |
| | | AFS OFF indicator lamp OFF | Off | M |
| 4WAS/RAS W/L | Ignition switch ON | 4WAS warning lamp ON | On | |
| | | 4WAS warning lamp OFF | Off | |
| LANE W/L | Ignition switch ON | Lane departure warning lamp ON | On | WCS |
| | | Lane departure warning lamp OFF | Off | |
| LDP IND | Ignition switch ON | LDP ON indicator lamp ON | On | O |
| | | LDP ON indicator lamp OFF | Off | |

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | | Value/Status |
|---------------|----------------------|---|---------------------------------|
| LCD | Ignition switch ON | During engine start information indication | B&P I |
| | Ignition switch ACC | During engine start information indication | B&P N |
| | Ignition switch LOCK | During key ID warning indication | ID NG |
| | Ignition switch LOCK | During steering lock information indication | ROTAT |
| | Ignition switch LOCK | During P position warning indication | SFT P |
| | Ignition switch LOCK | During Intelligent Key insert information indication | INSRT |
| | Ignition switch LOCK | During Intelligent Key low battery warning indication | BATT |
| | Ignition switch ON | During take away warning indication | NO KY |
| | Ignition switch LOCK | During key warning indication | OUTKY |
| | Ignition switch ON | During ACC warning indication | LK WN |
| ACC TARGET | Ignition switch ON | During vehicle ahead detection indicator indication | On |
| | | Other than the above | Off |
| ACC DISTANCE | Ignition switch ON | When following distance set to "LONG" | LONG |
| | | When following distance set to "MIDDLE" | MID |
| | | When following distance set to "SHORT" | SHORT |
| | | Set distance indicator not displayed | Off |
| ACC OWN VHL | Ignition switch ON | During own vehicle indicator indication | On |
| | | Other than the above | Off |
| ACC SET SPEED | Ignition switch ON | During set vehicle speed indicator not displayed | Off |
| | | During set vehicle speed indicator displayed | Indicates the set vehicle speed |
| ACC UNIT | Ignition switch ON | Set vehicle speed indicator unit display ON | On |
| | | Set vehicle speed indicator unit display OFF | Off |

COMBINATION METER



< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | | Value/Status | |
|------------------|--------------------|---|--------------|---|
| SHIFT IND | Ignition switch ON | During the indication of "P" by shift position indicator | P | A |
| | | During the indication of "R" by shift position indicator | R | B |
| | | During the indication of "N" by shift position indicator | N | C |
| | | During the indication of "D" by shift position indicator | D | D |
| | | During the indication of "M1" by shift position indicator | M1 | E |
| | | During the indication of "M2" by shift position indicator | M2 | F |
| | | During the indication of "M3" by shift position indicator | M3 | G |
| | | During the indication of "M4" by shift position indicator | M4 | H |
| | | During the indication of "M5" by shift position indicator | M5 | I |
| | | During the indication of "M6" by shift position indicator | M6 | J |
| | | During the indication of "M7" by shift position indicator | M7 | K |
| ECO DRIVE IND G | Ignition switch ON | ECO drive indicator (green) ON | On | L |
| | | ECO drive indicator (green) OFF | Off | M |
| ECO DRIVE IND O | Ignition switch ON | ECO drive indicator (orange) ON | On | |
| | | ECO drive indicator (orange) OFF | Off | |
| BSW IND | Ignition switch ON | BSI ON indicator (green) ON | On | |
| | | BSI ON indicator (green) OFF | Off | |
| BSW W/L | Ignition switch ON | BSW/BSI warning lamp (yellow) ON | On | |
| | | BSW/BSI warning lamp (yellow) OFF | Off | |
| DRIVE MODE STATS | Ignition switch ON | Drive mode select switch in SNOW position | SNOW | |
| | | Drive mode select switch in between SNOW and ECO position | SN-EC | |
| | | Drive mode select switch in ECO position | ECO | |
| | | Drive mode select switch in between ECO and ● (STANDARD mode) | EC-ST | |
| | | Drive mode select switch ● (STANDARD mode) position | STD | |
| | | Drive mode select switch in between ● (STANDARD mode) and SPORT | ST-SP | |
| | | Drive mode select switch in SPORT position | SPORT | |
| | | Reception of an abnormal signal other than those above | ERROR | |
| M RANGE SW | Ignition switch ON | Selector lever in manual mode position | On | |
| | | Other than the above | Off | |
| NM RANGE SW | Ignition switch ON | Selector lever in manual mode position | Off | |
| | | Other than the above | On | |
| AT SFT UP SW | Ignition switch ON | Selector lever in + position | On | |
| | | Other than the above | Off | |

WCS

COMBINATION METER

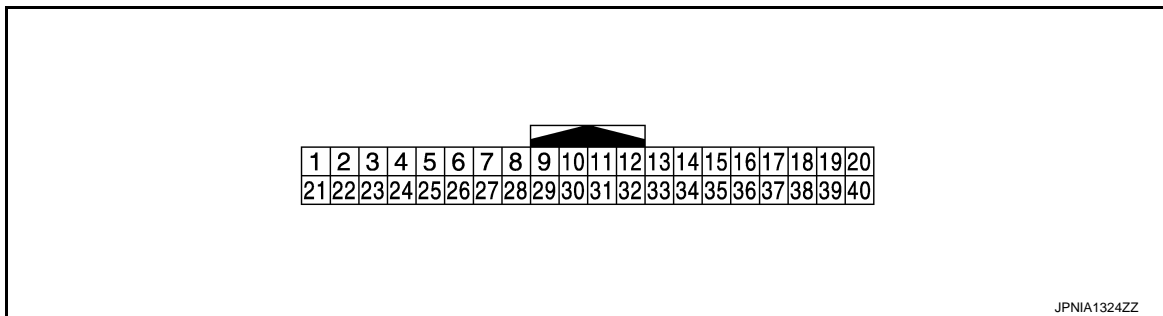
< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | | Value/Status |
|-------------------------|--------------------|--|---|
| AT SFT DWN SW | Ignition switch ON | Selector lever in – position | On |
| | | Other than the above | Off |
| ST SFT UP SW | Ignition switch ON | Paddle shifter in + position | On |
| | | Other than the above | Off |
| ST SFT DWN SW | Ignition switch ON | Paddle shifter in – position | On |
| | | Other than the above | Off |
| PKB SW | Ignition switch ON | Parking brake switch ON | On |
| | | Parking brake switch OFF | Off |
| BUCKLE SW | Ignition switch ON | Driver seat belt not fastened | On |
| | | Driver seat belt fastened | Off |
| BRAKE OIL SW | Ignition switch ON | Brake fluid level switch ON | On |
| | | Brake fluid level switch OFF | Off |
| ENTER SW | Ignition switch ON | When  switch (enter switch) is pressed | On |
| | | Other than above | Off |
| SELECT SW | Ignition switch ON | When  switch (select switch) is pressed | On |
| | | Other than above | Off |
| DISTANCE [km] | Ignition switch ON | — | Distance to empty calculated by combination meter |
| OUTSIDE TEMP [°C or °F] | Ignition switch ON | — | Input value of ambient sensor signal (CAN communication signal) NOTE: This may not match the indicated value on the information display. |
| FUEL LOW SIG | Ignition switch ON | During low fuel warning indication | On |
| | | Other than above | Off |
| BUZZER | Ignition switch ON | Buzzer ON | On |
| | | Buzzer OFF | Off |

NOTE:

Some items are not available according to vehicle specification.

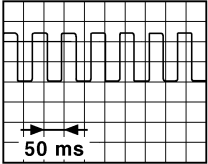
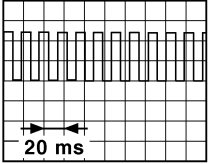
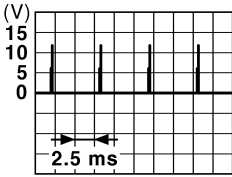
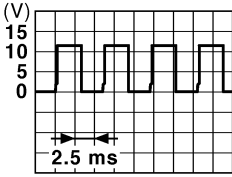
TERMINAL LAYOUT



PHYSICAL VALUES

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >




| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|----------|-----------------------------------|------------------|---------------------------|--|---|
| + | - | Signal name | Input/ Output | | | |
| 1 (W) | Ground | Battery power supply | Input | Ignition switch OFF | — | Battery voltage |
| 2 (BG) | Ground | Ignition signal | Input | Ignition switch ON | — | Battery voltage |
| 3 (GR) | Ground | Vehicle speed signal (2-pulse) | Output | Ignition switch ON | Speedometer operated [When vehicle speed is ap- prox. 40 km/h (25 MPH)] | NOTE: The maximum voltage varies de- pending on the specification (destination unit).  <small>JSNIA0015GB</small> |
| 4 (R) | Ground | Vehicle speed signal (8-pulse) | Output | Ignition switch ON | Speedometer operated [When vehicle speed is ap- prox. 40 km/h (25 MPH)] | NOTE: The maximum voltage varies de- pending on the specification (destination unit).  <small>JSNIA0012GB</small> |
| 5 (B) | Ground | Illumination control signal | Output | Ignition switch ON | <ul style="list-style-type: none"> • Lighting switch 1ST posi- tion • When meter illumination is maximum |  <small>JPNIA1687GB</small> |
| | | | | | <ul style="list-style-type: none"> • Lighting switch 1ST posi- tion • When meter illumination is step 11 |  <small>JPNIA1686GB</small> |
| | | | | | <ul style="list-style-type: none"> • Lighting switch 1ST posi- tion • When meter illumination is minimum | 12 V |
| 7 (SB) | 6 (B) | Enter switch signal | Input | Ignition switch ON | When <input type="checkbox"/> switch (enter switch) is pressed | 0 V |
| | | | | | Other than the above | 5 V |

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WCS

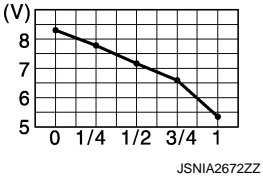
COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|----------|--|------------------|--------------------------|--|--------------------|
| + | - | Signal name | Input/ Output | | | |
| 8 (LG) | 6 (B) | Select switch signal | Input | Ignition switch ON | When  switch (select switch) is pressed | 0 V |
| | | | | | Other than the above | 5 V |
| 9 (G) | 6 (B) | Illumination control switch signal (+) | Input | Ignition switch ON | When  switch [illumination control switch (+)] is pressed | 0 V |
| | | | | | Other than the above | 5 V |
| 10 (GR) | 6 (B) | Illumination control switch signal (-) | Input | Ignition switch ON | When  switch [illumination control switch (-)] is pressed | 0 V |
| | | | | | Other than the above | 5 V |
| 11 (L) | 6 (B) | Trip reset switch signal | Input | Ignition switch ON | When trip reset switch is pressed | 0 V |
| | | | | | Other than the above | 5 V |
| 12 (B) | Ground | Ground | — | Ignition switch ON | — | 0 V |
| 14 (L) | — | CAN-H | — | — | — | — |
| 15 (P) | — | CAN-L | — | — | — | — |
| 16 (R) | Ground | Air bag signal | Input | Ignition switch ON | Air bag warning lamp ON | 3 V |
| | | | | | Air bag warning lamp OFF | 0 V |
| 23 (B) | Ground | Ground | — | Ignition switch ON | — | 0 V |
| 25 (W) | Ground | Alternator signal | Input | Ignition switch ON | Charge warning lamp ON | 2 V |
| | | | | | Charge warning lamp OFF | Battery voltage |
| 26 (V) | Ground | Parking brake switch signal | Input | Ignition switch ON | Parking brake applied | 0 V |
| | | | | | Parking brake released | 12 V |
| 27 (V) | Ground | Brake fluid level switch signal | Input | Ignition switch ON | Brake fluid level is normal | 12 V |
| | | | | | The brake fluid level is lower than the low level | 0 V |
| 28 (G) | Ground | Security signal | Input | Ignition switch ON | Security indicator lamp ON | 0 V |
| | | | | | Security indicator lamp OFF | 12 V |
| 29 (L) | Ground | Washer level switch signal | Input | Ignition switch ON | Washer level switch ON | 0 V |
| | | | | | Washer level switch OFF | 5 V |
| 32 (G) | Ground | Paddle shifter shift down signal | Input | Ignition switch ON | Paddle shifter shift down operation | 0 V |
| | | | | | Other than the above | 12 V |
| 33 (BG) | Ground | Paddle shifter shift up signal | Input | Ignition switch ON | Paddle shifter shift up operation | 0 V |
| | | | | | Other than the above | 12 V |

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|-----------|--|------------------|---------------------|---|
| + | - | Signal name | Input/ Output | | |
| 34 (G) | 24 (B) | Fuel level sensor signal | Input | Ignition switch ON | —  |
| 35 (W) | Ground | Seat belt buckle switch signal (driver side) | Input | Ignition switch ON | When driver seat belt is fastened 12 V |
| | | | | Ignition switch OFF | When driver seat belt is unfastened 0 V |
| 36 (G) | Ground | Passenger seat belt warning signal | Input | Ignition switch ON | <ul style="list-style-type: none"> • When driver seat belt is fastened • When getting in the passenger seat • When passenger seat belt is fastened 12 V |
| | | | | Ignition switch OFF | <ul style="list-style-type: none"> • When driver seat belt is fastened • When getting in the passenger seat • When passenger seat belt is unfastened 0 V |
| 37 (G) | Ground | Non-manual mode signal | Input | Ignition switch ON | Selector manual mode position 12 V |
| | | | | Ignition switch OFF | Other than the above 0 V |
| 38 (V) | Ground | Manual mode shift down signal | Input | Ignition switch ON | Selector lever shift down operation 0 V |
| | | | | Ignition switch OFF | Other than the above 12 V |
| 39 (L) | Ground | Manual mode shift up signal | Input | Ignition switch ON | Selector lever shift up operation 0 V |
| | | | | Ignition switch OFF | Other than the above 12 V |
| 40 (W) | Ground | Manual mode signal | Input | Ignition switch ON | Selector manual mode position 0 V |
| | | | | Ignition switch OFF | Other than the above 12 V |

Fail-Safe

INFOID:000000006106600

FAIL-SAFE

The combination meter activates the fail-safe control if CAN communication with each unit is malfunctioning.

| Function | Specifications |
|----------------------------------|---|
| Speedometer | Reset to zero by suspending communication. |
| Tachometer | |
| Engine coolant temperature gauge | |
| Illumination control | When suspending communication, changes to nighttime mode. |

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

| Function | | Specifications |
|-----------------------------|--------------------------------|--|
| Information display | Odo/trip meter | An indicated value is maintained at communications blackout. |
| | Shift position indicator | The display turns OFF by suspending communication. |
| | Door open warning | The display turns OFF by suspending communication. |
| | Trunk open warning | |
| Buzzer | | The buzzer turns OFF by suspending communication. |
| Warning lamp/indicator lamp | ABS warning lamp | The lamp turns ON by suspending communication. |
| | VDC warning lamp | |
| | VDC OFF indicator lamp | |
| | Brake warning lamp | |
| | IBA OFF indicator lamp | |
| | AWD warning lamp | |
| | Malfunction indicator lamp | |
| | CRUISE warning lamp | |
| | Low tire pressure warning lamp | The lamp blinking caused by suspending communication. |
| | AFS OFF indicator lamp | |
| | High beam indicator lamp | The lamp turns OFF by suspending communication. |
| | Turn signal indicator lamp | |
| | Front fog lamp indicator lamp | |
| | Tail lamp indicator lamp | |
| | A/T CHECK indicator lamp | |
| | 4WAS warning lamp | |
| | Lane departure warning lamp | |
| | LDP ON indicator lamp | |
| | Oil pressure warning lamp | |
| | ECO drive indicator | |
| BSI ON indicator | | |
| BSW/BSI warning lamp | | |

DTC Index

INFOID:000000006106601

| Display contents of CONSULT-III | Diagnostic item is detected when... | Refer to |
|---------------------------------|--|--|
| CAN COMM CIRCUIT [U1000] | When combination meter is not transmitting or receiving CAN communication signal for 2 seconds or more. | MWI-65. "Diagnosis Procedure" |
| CONTROL UNIT (CAN) [U1010] | When detecting error during the initial diagnosis of the CAN controller of combination meter. | MWI-66. "Diagnosis Procedure" |
| 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-67. "Diagnosis Procedure" |
| ENGINE SPEED [B2267] | If ECM continuously transmits abnormal engine speed signals for 2 seconds or more. | MWI-68. "Diagnosis Procedure" |
| WATER TEMP [B2268] | If ECM continuously transmits abnormal engine coolant temperature signals for 60 seconds or more. | MWI-69. "Diagnosis Procedure" |

BCM

< ECU DIAGNOSIS INFORMATION >

BCM

List of ECU Reference

INFOID:000000006106581

| ECU | Reference |
|-----|---|
| BCM | BCS-32. "Reference Value" |
| | BCS-52. "Fail-safe" |
| | BCS-54. "DTC Inspection Priority Chart" |
| | BCS-55. "DTC Index" |

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WCS

WARNING CHIME SYSTEM

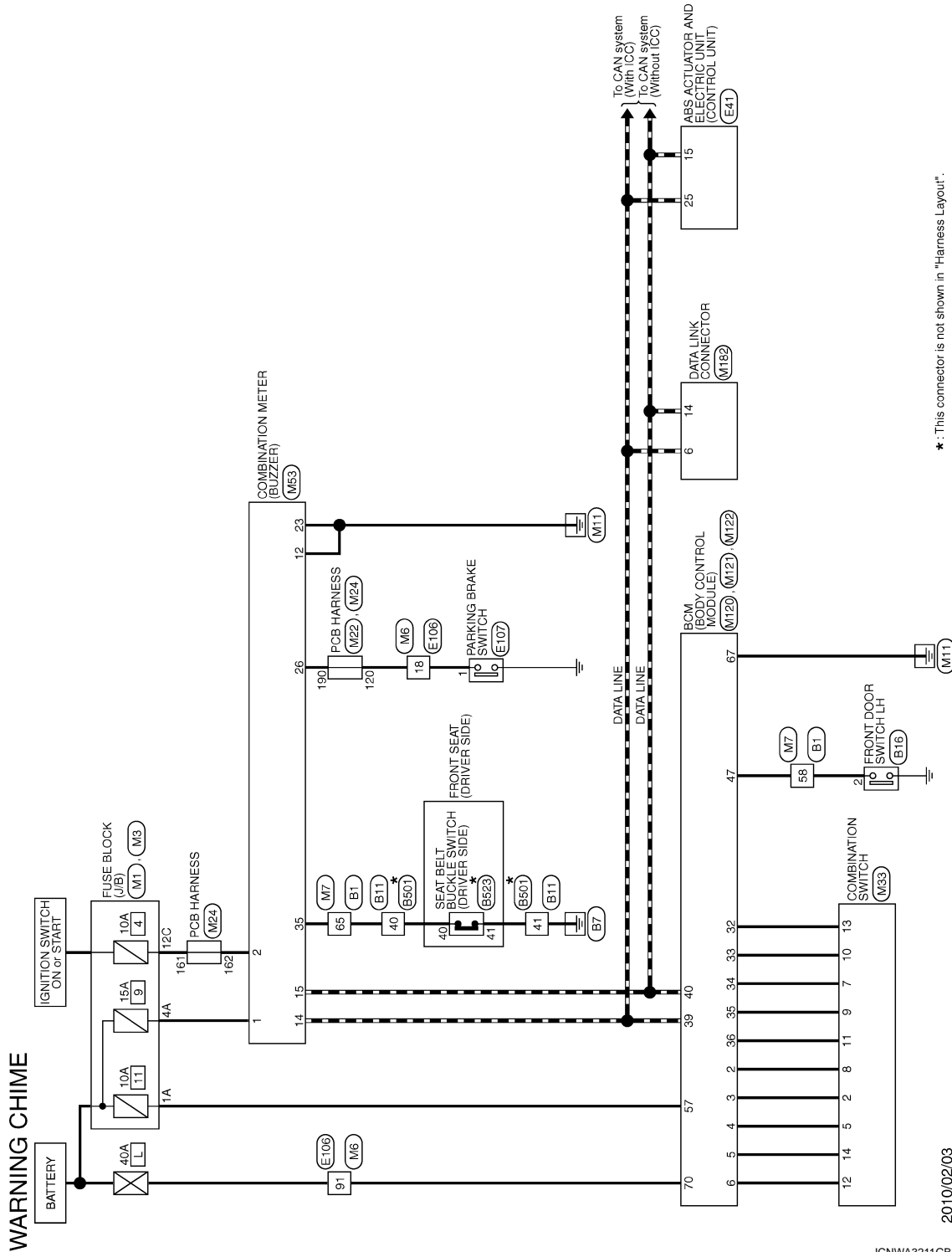
< WIRING DIAGRAM >

WIRING DIAGRAM

WARNING CHIME SYSTEM

Wiring Diagram

INFOID:000000006106582



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

2010/02/03

JCNWA3211GB

WARNING CHIME SYSTEM

< WIRING DIAGRAM >

WARNING CHIME

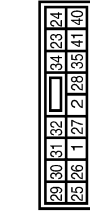
| | |
|----------------|-----------------|
| Connector No. | B1 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH00PW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|--|
| 1 | R | - |
| 2 | W | - |
| 4 | LG | - |
| 5 | P | - |
| 6 | V | - |
| 7 | GR | - |
| 8 | Y | - |
| 9 | LG | - |
| 10 | V | - |
| 11 | GR | - [With Climate controlled seat] - [With heated seat] |
| 12 | P | - [With Climate controlled seat] |
| 13 | BR | - [With heated seat] |
| 14 | R | - |
| 15 | O | - |
| 16 | V | - |
| 17 | B | - |
| 18 | R | - |
| 19 | W | - |
| 20 | R | - |
| 21 | B | - |
| 22 | LG | - |
| 23 | V | - |
| 24 | Y | - |
| 25 | G | - |
| 26 | GR | - |
| 27 | SB | - |
| 28 | P | - [With Pre-crash seat belt system] |
| 28 | L/O | - [Without Pre-crash seat belt system] |
| 29 | L | - [With Pre-crash seat belt system] |
| 29 | W/L | - [Without Pre-crash seat belt system] |
| 30 | SHIELD | - |
| 32 | L | - |
| 33 | R | - |
| 34 | L | - |
| 35 | R | - |
| 36 | G | - |

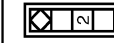
| | | |
|----|--------|---|
| 37 | SB | - |
| 40 | SHIELD | - |
| 41 | GR/V | - |
| 42 | W/L | - |
| 45 | W | - |
| 47 | O | - |
| 48 | Y | - |
| 49 | BR | - |
| 50 | SB | - |
| 51 | V | - |
| 52 | LG | - |
| 53 | G | - |
| 56 | P | - |
| 57 | BR | - |
| 58 | LG | - |
| 59 | Y | - |
| 60 | W | - |
| 61 | B | - |
| 62 | LG | - |
| 63 | BR | - [With ICC and 4WAS system] - [Without ICC and 4WAS system] |
| 63 | V | - |
| 65 | O | - |
| 66 | BR | - |
| 67 | V | - |
| 68 | LG | - |
| 69 | GR | - |
| 70 | R | - |
| 72 | L | - |
| 73 | P | - |
| 74 | L | - |
| 75 | P | - |
| 76 | Y | - |
| 77 | R | - |
| 78 | W | - |
| 79 | G | - |
| 81 | LG | - |
| 82 | BR | - |
| 83 | SB | - |
| 84 | Y | - |
| 85 | W | - |
| 86 | R | - |
| 87 | G | - |
| 88 | GR | - |
| 91 | SB | - |
| 92 | G | - |
| 96 | Y | - |
| 97 | O | - |
| 98 | SB | - |
| 99 | LG | - |

| | |
|----------------|--------------|
| Connector No. | B11 |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16FW-CS |



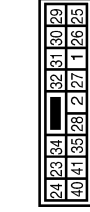
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | SB | - |
| 2 | B | - |
| 23 | L | - |
| 24 | P | - |
| 25 | BR | - |
| 26 | W | - |
| 27 | L | - |
| 28 | P | - |
| 29 | O | - |
| 30 | V | - |
| 31 | BR | - |
| 32 | LG | - |
| 35 | LG | - |
| 40 | O | - |
| 41 | B | - |

| | |
|----------------|----------------------|
| Connector No. | B16 |
| Connector Name | FRONT DOOR SWITCH LH |
| Connector Type | A03FW |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | LG | - |

| | |
|----------------|--------------|
| Connector No. | B501 |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16MH-CS |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | R | - |
| 2 | B | - |
| 23 | P | - |
| 24 | P/L | - |
| 25 | G/O | - |
| 26 | L/O | - |
| 27 | V | - |
| 28 | V/W | - |
| 29 | L | - |
| 30 | BR | - |
| 31 | BR/W | - |
| 32 | W/L | - |
| 35 | W/Y | - |
| 40 | W/G | - |
| 41 | GR | - |

| | |
|----------------|-------------------------|
| Connector No. | B523 |
| Connector Name | SEAT BELT BUCKLE SWITCH |
| Connector Type | A03MW-P-B |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 35 | W/Y | - |
| 40 | W/G | - |
| 41 | GR | - |

JCNWA3212GB

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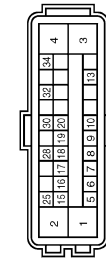
WCS

WARNING CHIME SYSTEM

< WIRING DIAGRAM >

WARNING CHIME

| | |
|----------------|---|
| Connector No. | E41 |
| Connector Name | ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) |
| Connector Type | SAE30FB-SJZ4-U |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | B/W | ECU(GND) |
| 2 | B | MOTOR(GND) |
| 3 | Y | SOLENOID(POWER) |
| 4 | G | MOTOR(POWER) |
| 5 | SB | STOP LAMP SW |
| 6 | Y | CANM2(-) |
| 7 | W | Rr-LH SENSIGNAL |
| 8 | G | Rr-LH SENSIGNAL |
| 9 | BR | Fr-RH SENSIGNAL |
| 10 | B | Fr-RH SENSIGNAL |
| 13 | LG | VAC SENSIGNAL |
| 15 | P | CAN-L |
| 16 | B | CANM2(+) |
| 17 | V | Rr-RH SENSIGNAL |
| 18 | BR | Rr-RH SENSIGNAL |
| 19 | SB | Ff-LH SENSIGNAL |
| 20 | O | Ff-LH SENSIGNAL |
| 25 | L | CAN-H |
| 28 | V | VAC SENSIGNAL |
| 30 | R | VDC OFF SW |
| 32 | SHIELD | VAC SENSIGNAL |
| 34 | G | IGN(POWER) |

| | |
|----------------|-----------------|
| Connector No. | E108 |
| Connector Name | WIPE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |



| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | P | |
| 2 | W | |
| 3 | SB | |
| 4 | LG | |
| 5 | O | |
| 7 | GR | |
| 8 | G | |
| 9 | Y | |
| 10 | BR | |
| 11 | SB | |
| 12 | V | |
| 13 | GR | |
| 14 | GR | |
| 15 | V | |
| 16 | Y | |
| 17 | GR | |
| 18 | V | |
| 20 | BR | |
| 21 | P | |
| 22 | L | |
| 23 | P | |
| 27 | SHIELD | |
| 28 | L/O | |
| 29 | W/L | |
| 31 | BR | |
| 32 | G | |
| 33 | O | |
| 34 | Y | |
| 40 | BR | |
| 41 | BR | |
| 42 | L | |
| 43 | P | |
| 44 | W | |
| 45 | L | |
| 46 | GR | |
| 47 | V | |
| 48 | G | |
| 49 | O | |
| 50 | LG | |
| 60 | W | |
| 61 | G | |
| 62 | Y | |
| 63 | BR | |
| 64 | B | |
| 65 | Y | |
| 66 | R | |
| 67 | SB | |
| 77 | O | |
| 78 | SB | |
| 80 | G | |
| 81 | R | |
| 82 | SB | |

| | | |
|-----|----|--|
| 83 | GR | |
| 84 | Y | |
| 85 | Y | |
| 86 | L | |
| 87 | V | |
| 88 | BR | |
| 89 | LG | |
| 90 | W | |
| 91 | W | |
| 92 | P | |
| 93 | LG | |
| 94 | BR | |
| 95 | W | |
| 96 | R | |
| 97 | R | |
| 98 | Y | |
| 99 | V | |
| 100 | V | |

| | |
|----------------|----------------------|
| Connector No. | E107 |
| Connector Name | PARKING BRAKE SWITCH |
| Connector Type | TE01FW-LC |



| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1 | V | |

| | |
|----------------|------------------|
| Connector No. | M1 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS30FW-M2 |



| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1A | R | |

| | | |
|----|---|--|
| 2A | W | |
| 3A | Y | |
| 4A | W | |
| 5A | V | |
| 6A | Y | |
| 8A | Y | |

| | |
|----------------|------------------|
| Connector No. | M3 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS12FW-CS |



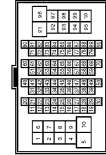
| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 6C | R | |
| 7C | B | |
| 9C | L | |
| 10C | LG | |
| 11C | LG | |
| 12C | BG | |

WARNING CHIME SYSTEM

< WIRING DIAGRAM >

WARNING CHIME

| | |
|----------------|-----------------|
| Connector No. | M6 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | W | - |
| 2 | W | - |
| 3 | SB | - |
| 4 | LG | - |
| 5 | W | - |
| 7 | BG | - |
| 8 | G | - |
| 9 | Y | - |
| 10 | W | - |
| 11 | R | - |
| 12 | V | - |
| 13 | LG | - |
| 14 | L | - |
| 15 | B | - |
| 16 | B | - |
| 17 | GR | - |
| 18 | V | - |
| 20 | SB | - |
| 21 | BR | - |
| 22 | L | - |
| 23 | P | - |
| 27 | SHIELD | - |
| 28 | V | - |
| 29 | SB | - |
| 31 | BG | - |
| 32 | P | - |
| 33 | R | - |
| 34 | BG | - |
| 40 | BR | - |
| 41 | BR | - |
| 42 | L | - |
| 43 | P | - |
| 44 | BR | - |
| 45 | Y | - |
| 46 | BG | - |
| 47 | V | - |
| 48 | G | - |
| 49 | BG | - |

| | |
|----------------|-----------------|
| Connector No. | M7 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | G | - |
| 2 | Y | - |
| 4 | BR | - |
| 5 | P | - |

| | | |
|-----|----|---|
| 50 | W | - |
| 60 | GR | - |
| 61 | B | - |
| 62 | LG | - |
| 63 | BR | - |
| 64 | L | - |
| 65 | R | - |
| 66 | P | - |
| 67 | L | - |
| 77 | B | - |
| 78 | V | - |
| 80 | G | - |
| 81 | L | - |
| 82 | B | - |
| 83 | BG | - |
| 84 | SB | - |
| 85 | Y | - |
| 86 | L | - |
| 87 | V | - |
| 88 | V | - |
| 89 | LG | - |
| 90 | BG | - |
| 91 | W | - |
| 92 | BG | - |
| 93 | G | - |
| 94 | Y | - |
| 95 | W | - |
| 96 | R | - |
| 97 | SB | - |
| 98 | R | - |
| 99 | W | - |
| 100 | L | - |

| | | |
|----|--------|----------------------------------|
| 6 | W | - |
| 7 | G | - |
| 8 | Y | - |
| 9 | G | - |
| 10 | V | - |
| 11 | V | - [With Climate controlled seat] |
| 11 | L | - [With heater seat] |
| 12 | P | - [With Climate controlled seat] |
| 12 | GR | - [With heater seat] |
| 13 | BR | - |
| 14 | GR | - |
| 15 | BG | - |
| 16 | V | - |
| 17 | BG | - [With ICC] |
| 17 | B | - [Without ICC] |
| 18 | L | - |
| 19 | W | - |
| 20 | R | - |
| 21 | B | - |
| 22 | LG | - |
| 23 | W | - |
| 24 | V | - |
| 25 | G | - |
| 26 | BR | - |
| 27 | SB | - |
| 28 | P | - |
| 29 | L | - |
| 30 | SHIELD | - |
| 32 | L | - |
| 33 | P | - |
| 34 | L | - |
| 35 | P | - |
| 36 | BG | - |
| 37 | SB | - |
| 40 | SHIELD | - |
| 41 | SB | - |
| 42 | V | - |
| 45 | W | - |
| 47 | L | - |
| 48 | LG | - |
| 49 | BR | - |
| 50 | V | - |
| 51 | V | - |
| 52 | P | - |
| 53 | BG | - |
| 56 | SB | - |
| 57 | P | - |
| 58 | LG | - |
| 59 | V | - |
| 60 | GR | - |
| 61 | B | - |
| 62 | LG | - |

| | | |
|----|----|---|
| 63 | BR | - |
| 65 | W | - |
| 66 | R | - |
| 67 | V | - |
| 68 | LG | - |
| 69 | SB | - |
| 70 | V | - |
| 72 | L | - |
| 73 | P | - |
| 74 | L | - |
| 75 | P | - |
| 76 | G | - |
| 77 | Y | - |
| 78 | SB | - |
| 79 | W | - |
| 81 | LG | - |
| 82 | BR | - |
| 83 | BG | - |
| 84 | B | - |
| 85 | W | - |
| 86 | G | - |
| 87 | R | - |
| 88 | G | - |
| 91 | W | - |
| 92 | G | - |
| 96 | W | - |
| 97 | BG | - |
| 98 | V | - |
| 99 | LG | - |

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WCS

WARNING CHIME SYSTEM

< WIRING DIAGRAM >

WARNING CHIME

| | |
|----------------|-------------|
| Connector No. | M22 |
| Connector Name | POB HARNESS |
| Connector Type | TH40FW-NH |



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 81 | L | - |
| 82 | P | - |
| 83 | B | - |
| 84 | B | - |
| 85 | B | - |
| 86 | B | - |
| 87 | B | - |
| 88 | B | - |
| 89 | Y | - |
| 91 | V | - |
| 92 | V | - |
| 93 | B | - |
| 94 | B | - |
| 95 | LG | - |
| 96 | BR | - |
| 97 | G | - |
| 98 | G | - |
| 99 | G | - |
| 100 | G | - |
| 101 | L | - |
| 102 | P | - |
| 103 | B | - |
| 104 | BR | - |
| 105 | R | - |
| 107 | Y | - |
| 108 | Y | - |
| 109 | BR | - |
| 110 | Y | - |
| 112 | B | - |
| 113 | P | - |
| 114 | L | - |
| 116 | B | - |
| 117 | B | - [With VK engine] |
| 117 | BG | - [With VQ engine] |
| 118 | B | - |
| 119 | G | - |
| 120 | V | - |

| | |
|----------------|-------------|
| Connector No. | M24 |
| Connector Name | POB HARNESS |
| Connector Type | TH40FW-NH |



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 161 | BG | - |
| 162 | BG | - |
| 163 | G | - |
| 164 | V | - |
| 165 | V | - |
| 166 | R | - |
| 167 | LG | - |
| 168 | R | - |
| 169 | R | - |
| 170 | B | - |
| 172 | B | - |
| 174 | W | - |
| 175 | B | - |
| 176 | L | - |
| 177 | P | - |
| 178 | Y | - |
| 179 | L | - |
| 180 | LG | - |
| 182 | BR | - |
| 183 | G | - |
| 184 | V | - |
| 185 | P | - [With BOSE system] |
| 185 | V | - [Without BOSE system] |
| 186 | R | - |
| 187 | L | - |
| 188 | Y | - |
| 189 | B | - |
| 190 | V | - |
| 191 | G | - |
| 192 | B | - |
| 193 | SB | - |
| 194 | BR | - |
| 198 | R | - |
| 199 | B | - |
| 200 | SB | - |

| | |
|----------------|--------------------|
| Connector No. | M33 |
| Connector Name | COMBINATION SWITCH |
| Connector Type | TH18FW-NH |



| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | W | FR WASHER (-) |
| 2 | SB | OUTPUT 4 |
| 5 | L | OUTPUT 3 |
| 6 | B | GND |
| 7 | V | INPUT 3 |
| 8 | BG | OUTPUT 5 |
| 9 | Y | INPUT 2 |
| 10 | R | INPUT 4 |
| 11 | LG | INPUT 1 |
| 12 | P | OUTPUT 1 |
| 13 | BR | INPUT 5 |
| 14 | G | OUTPUT 2 |

| | |
|----------------|-------------------|
| Connector No. | M35 |
| Connector Name | COMBINATION METER |
| Connector Type | TH40FW-NH |



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|--|
| 1 | W | BATTERY POWER SUPPLY |
| 2 | BG | IGNITION SIGNAL |
| 3 | GR | VEHICLE SPEED SIGNAL (2-PULSE) |
| 4 | R | VEHICLE SPEED SIGNAL (6-PULSE) |
| 5 | B | ILLUMINATION CONTROL SIGNAL |
| 6 | B | METER CONTROL SWITCH GROUND |
| 7 | SR | ENTER SWITCH SIGNAL |
| 8 | LG | SELECT SWITCH SIGNAL |
| 9 | G | ILLUMINATION CONTROL SWITCH SIGNAL (2) |
| 10 | GR | ILLUMINATION CONTROL SWITCH SIGNAL (3) |

| | | |
|----|----|--|
| 11 | L | TRIP RESET SWITCH SIGNAL |
| 12 | B | GROUND |
| 14 | L | CAN-H |
| 15 | P | CAN-L |
| 16 | B | AIR BAG SIGNAL |
| 23 | B | GROUND |
| 24 | B | FUEL LEVEL SENSOR GROUND |
| 25 | W | ALERTATOR SIGNAL |
| 26 | V | PARKING BRAKE SWITCH SIGNAL |
| 27 | V | BRAKE FLUID LEVEL SWITCH SIGNAL |
| 28 | G | SECURITY SIGNAL |
| 29 | L | WASHER LEVEL SWITCH SIGNAL |
| 32 | G | PADDLE SHIFTER SHIFT DOWN SIGNAL |
| 33 | BG | PADDLE SHIFTER SHIFT UP SIGNAL |
| 34 | G | FUEL LEVEL SENSOR SIGNAL |
| 35 | W | SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE) |
| 36 | G | PASSENGER SEAT BELT WARNING SIGNAL |
| 37 | G | NON-MANUAL MODE SIGNAL |
| 38 | V | MANUAL MODE SHIFT DOWN SIGNAL |
| 39 | L | MANUAL MODE SHIFT UP SIGNAL |
| 40 | W | MANUAL MODE SIGNAL |

WARNING CHIME SYSTEM

< WIRING DIAGRAM >

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WARNING CHIME

| | |
|----------------|---------------------------|
| Connector No. | M120 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH00FB-WH |



| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | G | RR WINDOW DEEG RLY CONT |
| 2 | BG | COMBI SW INPUT 5 |
| 3 | SB | COMBI SW INPUT 4 |
| 4 | L | COMBI SW INPUT 3 |
| 5 | G | COMBI SW INPUT 2 |
| 6 | P | COMBI SW INPUT 1 |
| 8 | V | POWER WINDOW SW COMM |
| 9 | P | STOP LAMP SW 1 |
| 11 | R | RAIN SENSOR SERIAL LINK |
| 14 | W | OPTICAL SENSOR |
| 16 | SB | DIMMER SIGNAL |
| 17 | Y | SENSOR PWR SPLY |
| 18 | B | RECEIVER / SENSOR GND |
| 19 | R | RECEIVER PWR SPLY |
| 20 | BR | KYLS ENT RECEIVER COMM |
| 21 | P | NATS ANT AMP |
| 22 | GR | KYLS ENT RECEIVER RSSI |
| 23 | G | SECURITY IND CONT |
| 24 | L | DOUBLE LINK |
| 25 | G | NATS ANT AMP |
| 26 | GR | I-KEY IDENTIFICATION |
| 28 | G | HAZARD SW |
| 30 | BG | TR LID OPNR SW |
| 31 | W | DR DOOR UNLOCK SENSOR |
| 32 | BR | COMBI SW OUTPUT 5 |
| 33 | R | COMBI SW OUTPUT 4 |
| 34 | V | COMBI SW OUTPUT 3 |
| 35 | Y | COMBI SW OUTPUT 2 |
| 36 | LG | COMBI SW OUTPUT 1 |
| 37 | R | P POSITION |
| 39 | L | CAN-H |
| 40 | P | CAN-L |

| | |
|----------------|---------------------------|
| Connector No. | M121 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA00FB-FHA6-SA |



| | | | | | | | | |
|----|----|----|----|----|----|----|----|----|
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 |
| 50 | 51 | 52 | 53 | 54 | 55 | | | |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 41 | W | TR KEY CYLINDER SW |
| 42 | R | TR ROOM LAMP SW |
| 44 | V | TR LID OP CANCEL SW |
| 45 | GR | PASSENGER DOOR SW |
| 46 | BR | REAR RH DOOR SW |
| 47 | LG | DRIVER DOOR SW |
| 48 | P | REAR LH DOOR SW |
| 49 | SB | TR ROOM LAMP CONT |
| 51 | BG | TR LID OPEN REQ SW |
| 53 | LG | TR LID OPEN OUTPUT |
| 55 | BR | RR DOOR UNLK OUTPUT |

| | |
|----------------|---------------------------|
| Connector No. | M122 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA00FW-FHA6-SA |



| | | | | | |
|----|----|----|----|----|----|
| 65 | 66 | 67 | 68 | 69 | 70 |
|----|----|----|----|----|----|

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 56 | R | INT ROOM LAMP PWR SPLY |
| 57 | R | BAT (FUSE) |
| 58 | L | AIR BAG |
| 59 | G | PASS DOOR UNLK OUTPUT |
| 60 | G | TURN SIG LH OUTPUT |
| 61 | V | TURN SIG RH OUTPUT |
| 62 | V | STEP LAMP CONT |
| 63 | L | ROOM LAMP TIMER CONT |
| 66 | V | ALL DOOR FL LID LOCK OUTPUT |
| 68 | LG | DR DOOR FL LID UNLK OUTPUT |
| 67 | B | GND |

| | | |
|----|----|-------------------|
| 68 | BG | PW PWR SPLY (IGN) |
| 69 | Y | PW PWR SPLY (BAT) |
| 70 | W | BAT (F/L) |

| | |
|----------------|---------------------|
| Connector No. | M122 |
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | BD16FW |



| | | | | | |
|----|----|----|----|----|---|
| 11 | 12 | 13 | 14 | 16 | |
| 3 | 4 | 5 | 6 | 7 | 8 |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3 | LG | - |
| 4 | B | - |
| 5 | B | - |
| 6 | L | - |
| 7 | V | - |
| 8 | LG | - |
| 11 | SD | - |
| 12 | P | - |
| 13 | L | - |
| 14 | P | - |
| 16 | W | - |

JCNWA3216GB



DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

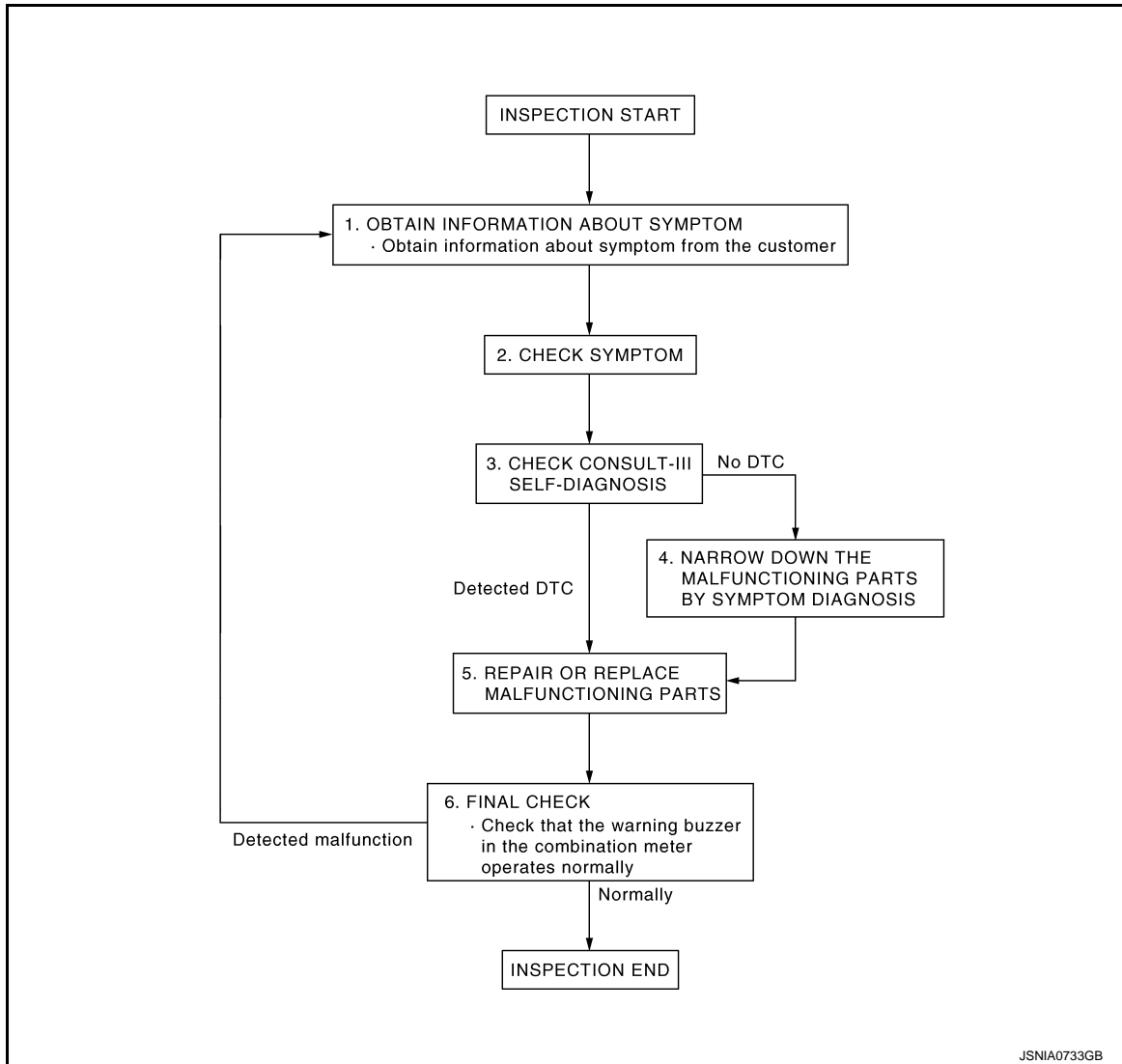
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000006106583

OVERALL SEQUENCE



JSNIA0733GB

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 if any other malfunctions are present.

>> GO TO 3.

3. CHECK CONSULT-III SELF-DIAGNOSIS RESULTS

Connect CONSULT-III and perform self-diagnosis. Refer to [MWI-43. "DTC Index"](#).

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

Are self-diagnosis results normal?

YES >> GO TO 4.

NO >> GO TO 5.

4.NARROW DOWN MALFUNCTIONING PARTS BY SYMPTOM DIAGNOSIS

Perform symptom diagnosis and narrow down the malfunctioning parts.

>> GO TO 5.

5.REPAIR OR REPLACE MALFUNCTIONING PARTS

Repair or replace malfunctioning parts.

NOTE:

If DTC is displayed, erase DTC after repairing or replacing malfunctioning parts.

>> GO TO 6.

6.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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WCS

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT COMBINATION METER

COMBINATION METER : Diagnosis Procedure

INFOID:000000006106603

1. CHECK FUSE

Check for blown fuses.

| Power source | Fuse No. |
|-----------------------------|----------|
| Battery | 9 |
| Ignition switch ON or START | 4 |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

2. CHECK POWER SUPPLY CIRCUIT

Check voltage between combination meter harness connector and ground.

| Terminals | | Ignition switch position | Voltage (Approx.) |
|-------------------|----------|--------------------------|-------------------|
| (+) | (-) | | |
| Combination meter | | OFF | Battery voltage |
| Connector | Terminal | | |
| M53 | 1 | | |
| | 2 | | |
| Ground | | ON | |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between combination meter and fuse.

3. CHECK GROUND CIRCUIT

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

| Combination meter | | Ground | Continuity |
|-------------------|----------|--------|------------|
| Connector | Terminal | | |
| M53 | 12 | | Existed |
| | 23 | | |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

METER BUZZER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

METER BUZZER CIRCUIT

Component Function Check

INFOID:000000006106585

1.CHECK OPERATION OF METER BUZZER

1. Select "BUZZER" of "BCM" on CONSULT-III.
2. Perform "LIGHT WARN ALM" of "Active Test".

Does meter buzzer beep?

- YES >> INSPECTION END
NO >> GO TO 2.

2.CHECK COMBINATION METER INPUT SIGNAL

Select the "Data Monitor" for the "METER/M&A" and check the "BUZZER" monitor value.

BUZZER
Under the condition of buzzer input : On
Except above : Off

Is the inspection result normal?

- YES >> Replace combination meter. Refer to [MWI-90. "Removal and Installation"](#).
NO >> Replace BCM. Refer to [BCS-79. "Removal and Installation"](#).

Diagnosis Procedure

INFOID:000000006106586

1.CHECK POWER SUPPLY OF COMBINATION METER

Check power supply of combination meter. Refer to [WCS-40. "COMBINATION METER : Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Repair power supply circuit of combination meter.

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WCS

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

Component Function Check

INFOID:000000006106596

1.CHECK COMBINATION METER INPUT SIGNAL

Select the "Data Monitor" for the "METER/M&A" and check the "BUCKLE SW" monitor value.

BUCKLE SW
When seat belt is fastened : Off
When seat belt is unfastened : On

>> INSPECTION END

Diagnosis Procedure

INFOID:000000006106597

1.CHECK COMBINATION METER INPUT SIGNAL

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

| Terminals | | Condition | Voltage (Approx.) |
|-------------------|----------|-------------------------------------|-------------------|
| (+) | (-) | | |
| Combination meter | | | |
| Connector | Terminal | When driver seat belt is fastened | 12 V |
| M53 | 35 | | |
| | | When driver seat belt is unfastened | 0 V |

Is the inspection result normal?

- YES >> Replace combination meter. Refer to [MWI-90. "Removal and Installation"](#).
NO >> GO TO 2.

2.CHECK SEAT BELT BUCKLE SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect combination meter connector and seat belt buckle switch (driver side) connector.
3. Check continuity between combination meter harness connector and seat belt buckle switch (driver side) harness connector.

| Combination meter | | Seat belt buckle switch (driver side) | | Continuity |
|-------------------|----------|---------------------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M53 | 35 | B523 | 40 | Existed |

4. Check harness continuity between combination meter harness connector and ground.

| Combination meter | | Ground | Continuity |
|-------------------|----------|--------|-------------|
| Connector | Terminal | | |
| M53 | 35 | | Not existed |

Is the inspection result normal?

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

3.CHECK SEAT BELT BUCKLE SWITCH GROUND CIRCUIT

Check harness continuity between seat belt buckle switch (driver side) harness connector and ground.

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

| Seat belt buckle switch (driver side) | | Ground | Continuity |
|---------------------------------------|----------|--------|------------|
| Connector | Terminal | | |
| B523 | 41 | | Existed |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

Component Inspection

INFOID:000000006106598

1. CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

1. Turn ignition switch OFF.
2. Disconnect the seat belt buckle switch (driver side) connector.
3. Check continuity between terminals.

| Terminal | | Condition | Continuity |
|----------|----|------------------------------|-------------|
| 40 | 41 | When seat belt is fastened | Not existed |
| | | When seat belt is unfastened | Existed |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat belt buckle (driver side). Refer to [SB-8, "SEAT BELT BUCKLE : Removal and Installation"](#).

WCS

PARKING BRAKE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

PARKING BRAKE SWITCH SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:000000006106587

1. CHECK COMBINATION METER INPUT SIGNAL

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

| (+) | | (-) | Condition | | Voltage (Approx.) |
|-------------------|----------|--------------------------------|--------------------|-------------------------------|-------------------|
| Combination meter | | Ground | | | |
| Connector | Terminal | | Ignition switch ON | When parking brake is applied | 0 V |
| M53 | 26 | When parking brake is released | | 12 V | |

Is the inspection result normal?

- YES >> INSPECTION END
NO >> GO TO 2.

2. CHECK PARKING BRAKE SWITCH SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect combination meter connector and parking brake switch connector.
3. Check continuity between combination meter harness connector and parking brake switch harness connector.

| Terminals | | | | Continuity |
|-------------------|----------|----------------------|----------|------------|
| Combination meter | | Parking brake switch | | |
| Connector | Terminal | Connector | Terminal | |
| M53 | 26 | E107 | 1 | Existed |

4. Check continuity between combination meter harness connector and ground.

| Terminals | | | Continuity |
|-------------------|----------|-------------|------------|
| Combination meter | | Ground | |
| Connector | Terminal | | |
| M53 | 26 | Not existed | |

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Repair harness or connector.

Component Inspection

INFOID:000000006106588

1. CHECK PARKING BRAKE SWITCH

Check parking brake switch. Refer to [BRC-123, "Component Inspection"](#).

Is the inspection result normal?

- YES >> INSPECTION END.
NO >> Replace parking brake switch. Refer to [PB-6, "Exploded View"](#).

THE LIGHT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

THE LIGHT REMINDER WARNING DOES NOT SOUND

Description

INFOID:000000006106589

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

Diagnosis Procedure

INFOID:000000006106590

1. CHECK COMBINATION SWITCH (LIGHTING SWITCH) OPERATION

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

Do they operate normally?

YES >> GO TO 2.

NO >> Refer to [EXL-106. "Symptom Table"](#).

2. CHECK DRIVER SIDE DOOR SWITCH SIGNAL CIRCUIT

Perform the check for the driver side door switch signal circuit. Refer to [DLK-72. "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK DRIVER SIDE DOOR SWITCH

Perform a unit check for the driver side door switch. Refer to [DLK-74. "Component Inspection"](#).

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-79. "Removal and Installation"](#).

NO >> Replace driver side door switch. Refer to [DLK-185. "Removal and Installation"](#).

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WCS

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

< SYMPTOM DIAGNOSIS >

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

Description

INFOID:000000006106591

- 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:000000006106592

1. CHECK PARKING BRAKE WARNING LAMP

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

When parking brake is applied : ON

When parking brake is released : OFF

Is the inspection result normal?

YES >> Replace combination meter. Refer to [MWI-90, "Removal and Installation"](#)

NO >> GO TO 2.

2. CHECK PARKING BRAKE SWITCH SIGNAL CIRCUIT

Perform check for the parking brake switch signal circuit. Refer to [WCS-44, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK PARKING BRAKE SWITCH

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

Is the inspection result normal?

YES >> Replace combination meter. Refer to [MWI-90, "Removal and Installation"](#)

NO >> Replace parking brake switch. Refer to [PB-6, "Exploded View"](#).

THE SEAT BELT WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE SEAT BELT WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

Description

INFOID:000000006109268

- Seat belt warning chime does not sound.
- Seat belt warning chime sounds continuously.

Diagnosis Procedure

INFOID:000000006109269

1. 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 >> GO TO 2.
NO >> GO TO 4.

2. CHECK BCM OUTPUT SIGNAL

Check if the seat belt warning chime is activated by performing BCM active test. Refer to [WCS-20, "BUZZER : CONSULT-III Function \(BCM - BUZZER\)"](#).

Is the inspection result normal?

- YES >> INSPECTION END
NO >> GO TO 3.

3. CHECK COMBINATION METER INPUT SIGNAL

Check if buzzer switches to proper condition (On/Off) on data monitor of combination meter. Refer to [WCS-14, "CONSULT-III Function"](#).

| | |
|-----------------------------|-------|
| Buzzer active condition | : On |
| Buzzer non-active condition | : Off |

Is the inspection result normal?

- YES >> Replace combination meter. Refer to [MWI-90, "Removal and Installation"](#).
NO >> Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).

4. CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE) CIRCUIT

Perform the check for the seat belt buckle switch (driver side) circuit. Refer to [WCS-42, "Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> GO TO 5.
NO >> Repair harness or connector.

5. CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

Perform a unit check for the seat belt buckle switch (driver side). Refer to [WCS-43, "Component Inspection"](#).

Is the inspection result normal?

- YES >> Replace combination meter. Refer to [MWI-90, "Removal and Installation"](#).
NO >> Replace seat belt buckle (driver side). Refer to [SB-8, "SEAT BELT BUCKLE : Removal and Installation"](#).

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WCS