

SECTION **WCS**

WARNING CHIME SYSTEM

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

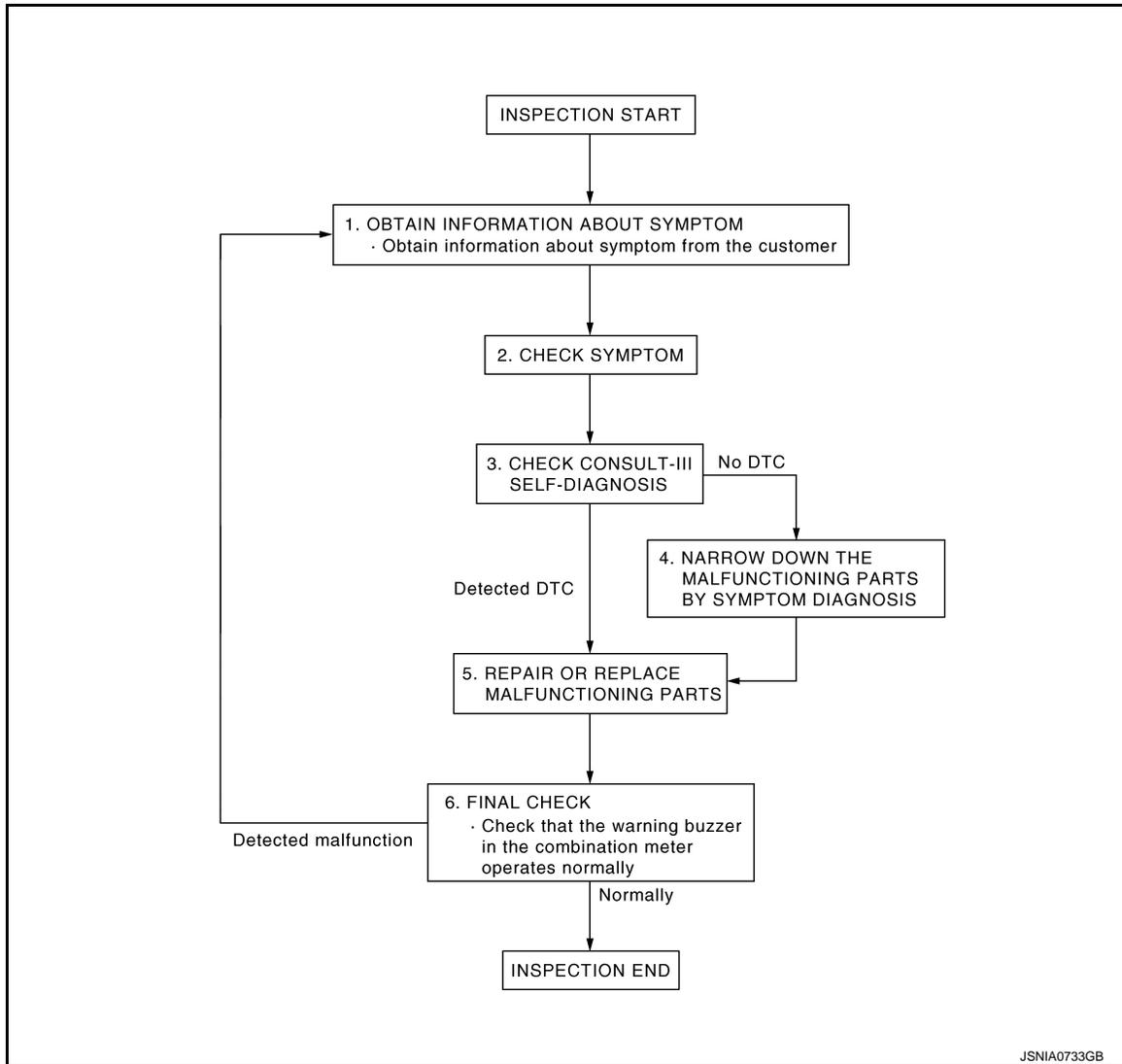
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000001834485

OVERALL SEQUENCE



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 that any other malfunctions are present.

>> GO TO 3.

3. CHECK CONSULT-III SELF-DIAGNOSIS RESULTS

Connect CONSULT-III and perform self-diagnosis. Refer to [WCS-13, "CONSULT-III Function \(METER/M&A\)"](#).

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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 repair or replace 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.

WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

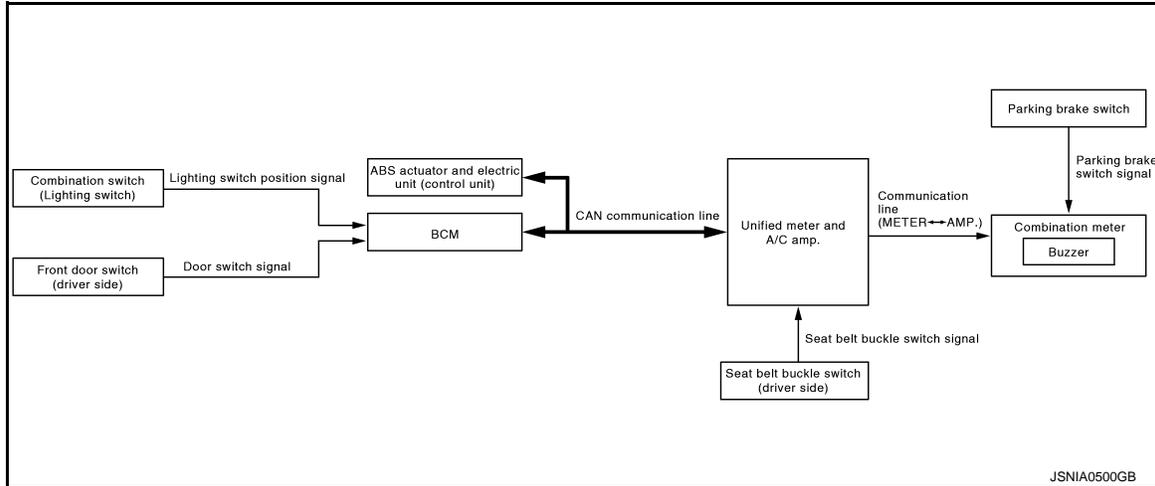
SYSTEM DESCRIPTION

WARNING CHIME SYSTEM

WARNING CHIME SYSTEM

WARNING CHIME SYSTEM : System Diagram

INFOID:000000001834486



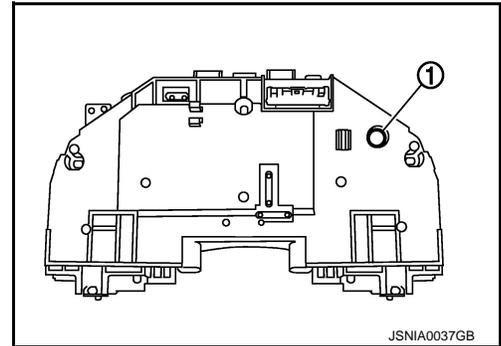
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WARNING CHIME SYSTEM : System Description

INFOID:000000001834487

COMBINATION METER

- The buzzer (1) for warning chime system is installed in the combination meter.
- The buzzer sounds when the combination meter receives buzzer output signal from each unit through unified meter and A/C amp.



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UNIFIED METER AND A/C AMP.

The unified meter and A/C amp. transmits the buzzer output signal received from BCM with CAN communication line to the combination meter.

BCM

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

BCM warning function list

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

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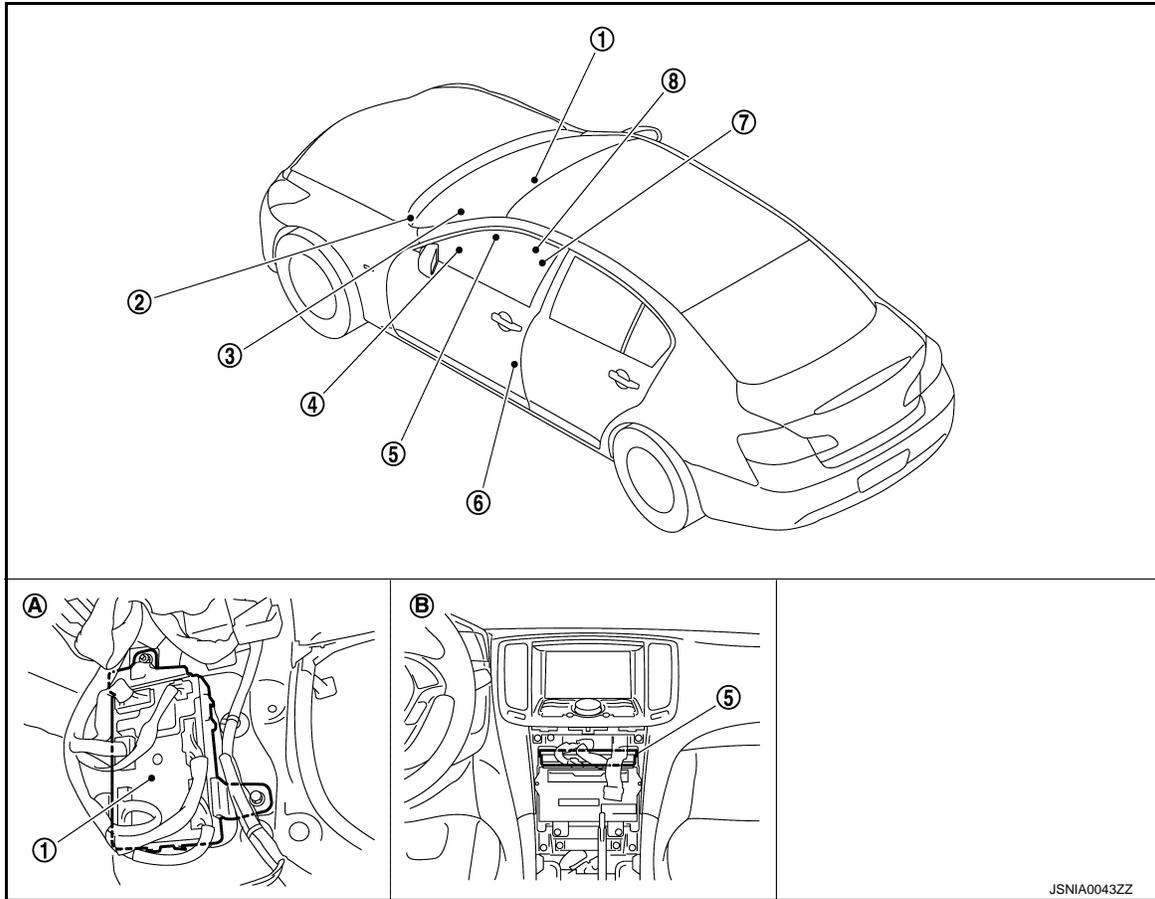
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WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

WARNING CHIME SYSTEM : Component Parts Location

INFOID:000000001834488



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|--|-------------------------------|------------------------------------|
| 1. BCM | 2. Parking brake switch (A/T) | 3. Combination meter |
| 4. Combination switch (Lighting switch) | 5. Unified meter and A/C amp. | 6. Front door switch (driver side) |
| 7. Seat belt buckle switch | 8. Parking brake switch (M/T) | |
| A. Dash side lower (passenger side) | B. Behind cluster lid C | |

WARNING CHIME SYSTEM : Component Description

INFOID:000000001834489

| Unit | Description |
|---|--|
| Combination meter | <ul style="list-style-type: none"> Receives a buzzer output signal from the unified meter and A/C amp. and sounds the buzzer. Judges whether the parking brake is released from the vehicle speed signal received from the unified meter and A/C amp. with CAN communication line and the parking brake switch signal from the parking brake switch, and sounds the buzzer if necessary. |
| Unified meter and A/C amp. | <ul style="list-style-type: none"> Receives the seat belt buckle switch signal from the seat belt buckle switch and transmits it to BCM with CAN communication line. Receives a buzzer output signal from BCM with CAN communication line and transmits it to the combination meter by means of communication line. |
| BCM | Transmits signals provided by various units to the unified meter and A/C amp. with CAN communication line. |
| ABS actuator and electric unit (control unit) | Transmits the vehicle speed signal to BCM with CAN communication line. |
| Seat belt buckle switch (driver side) | Transmits a seat belt buckle switch signal to the unified meter and A/C amp. |
| Combination switch (Lighting switch) | Transmits the lighting switch position signal to BCM. |

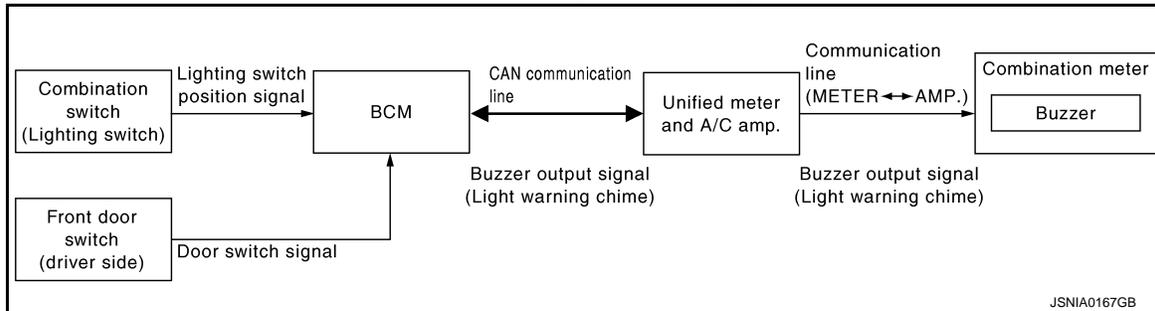
WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

| Unit | Description |
|---------------------------------|--|
| Front door switch (driver side) | Transmits the door switch signal to BCM. |
| Parking brake switch | Refer to MWI-60, "Description" . |

LIGHT REMINDER WARNING CHIME

LIGHT REMINDER WARNING CHIME : System Diagram



LIGHT REMINDER WARNING CHIME : System Description

INFOID:000000001834491

DESCRIPTION

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

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

WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled.

- Lighting switch is at 1st or 2nd position
- Ignition switch is at OFF or ACC
- Front door switch (driver side) is ON

WARNING CANCEL CONDITIONS

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

- Lighting switch OFF
- Ignition switch ON
- Front door switch (driver side) is OFF

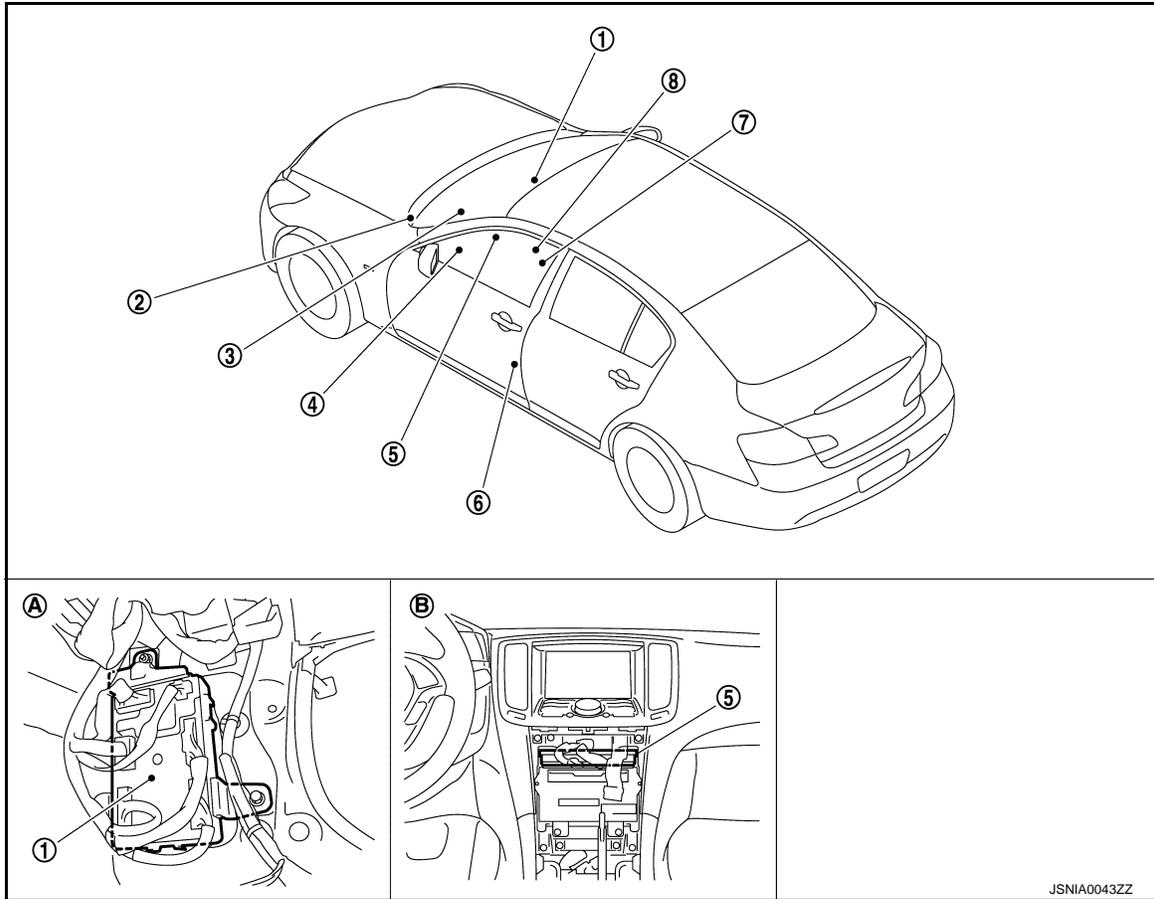
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WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

LIGHT REMINDER WARNING CHIME : Component Parts Location

INFOID:000000001834492



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|---|-------------------------------|------------------------------------|
| 1. BCM | 2. Parking brake switch (A/T) | 3. Combination meter |
| 4. Combination switch (Lighting switch) | 5. Unified meter and A/C amp. | 6. Front door switch (driver side) |
| 7. Seat belt buckle switch | 8. Parking brake switch (M/T) | |
| A. Dash side lower (passenger side) | B. Behind cluster lid C | |

LIGHT REMINDER WARNING CHIME : Component Description

INFOID:000000001834493

| Unit | Description |
|--------------------------------------|---|
| Combination meter | Receives a buzzer output signal from the unified meter and A/C amp. and sounds the buzzer. |
| Unified meter and A/C amp. | Receives a buzzer output signal from BCM via CAN communication line and transmits it to the combination meter by means of communication line. |
| BCM | Judges the light warning conditions from the signals provided by various switches and transmits a buzzer output signal to the unified meter and A/C amp. via CAN communication line if necessary. |
| Combination switch (Lighting switch) | Transmits the lighting switch position signal to BCM. |
| Front door switch (driver side) | Transmits the door switch signal to BCM. |

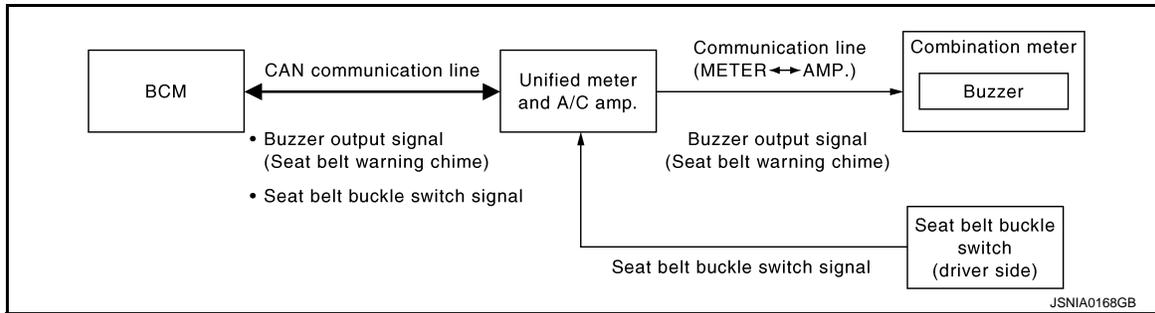
SEAT BELT WARNING CHIME

WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

SEAT BELT WARNING CHIME : System Diagram

INFOID:000000001834494



SEAT BELT WARNING CHIME : System Description

INFOID:000000004732335

DESCRIPTION

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

- BCM receives seat belt buckle switch signal from unified meter and A/C amp. with CAN communication line.
- BCM detects ignition switch turned ON and seat belt buckle switch (driver side) ON. And then transmits buzzer output signal (seat belt warning chime) to unified meter and A/C amp. with CAN communication line.
- Unified meter and A/C amp. transmits buzzer output signal (seat belt warning chime) to combination meter with communication line.
- When combination meter receives buzzer output signal (seat belt warning chime), it sounds the buzzer.

WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled.

- Ignition switch OFF→ON
- Seat buckle switch (driver side) is ON (driver seat belt unfastened)

WARNING CANCEL CONDITIONS

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

- Ignition switch OFF
- Seat buckle switch (driver side) is OFF (driver seat belt fastened)

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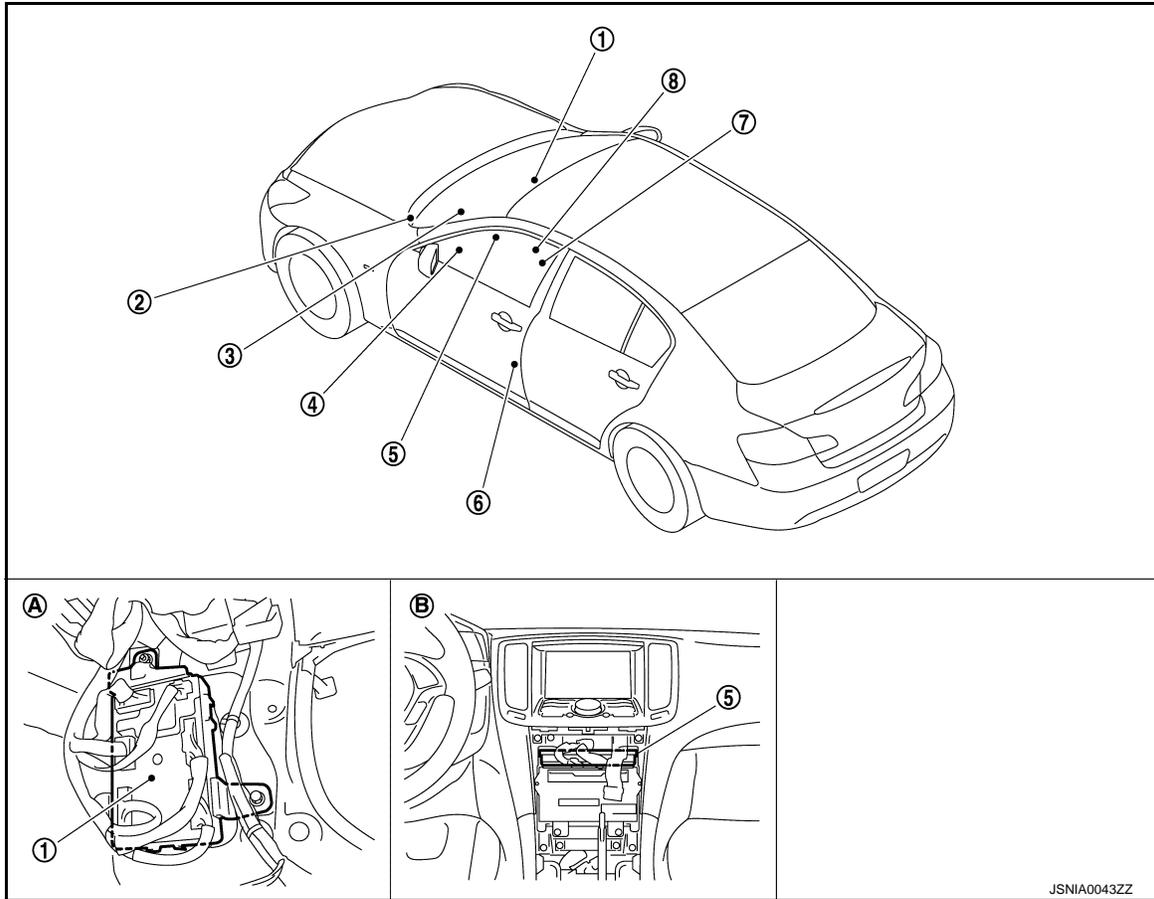
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WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

SEAT BELT WARNING CHIME : Component Parts Location

INFOID:000000001834496



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|--|-------------------------------|------------------------------------|
| 1. BCM | 2. Parking brake switch (A/T) | 3. Combination meter |
| 4. Combination switch (Lighting switch) | 5. Unified meter and A/C amp. | 6. Front door switch (driver side) |
| 7. Seat belt buckle switch | 8. Parking brake switch (M/T) | |
| A. Dash side lower (passenger side) | B. Behind cluster lid C | |

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SEAT BELT WARNING CHIME : Component Description

INFOID:000000001834497

| Unit | Description |
|---------------------------------------|---|
| Combination meter | Receives a buzzer output signal from the unified meter and A/C amp. and sounds the buzzer. |
| Unified meter and A/C amp. | <ul style="list-style-type: none"> Receives the seat belt buckle switch signal from the seat belt buckle switch and transmits it to BCM via CAN communication line. Receives a buzzer output signal from BCM via CAN communication line and transmits it to the combination meter by means of communication line. |
| BCM | Judges the seat belt warning condition from the seat belt buckle switch signal received from the unified meter and A/C amp. and transmits a buzzer output signal to the unified meter and A/C amp via CAN communication line if necessary. |
| Seat belt buckle switch (driver side) | Refer to WCS-24. "Description" . |

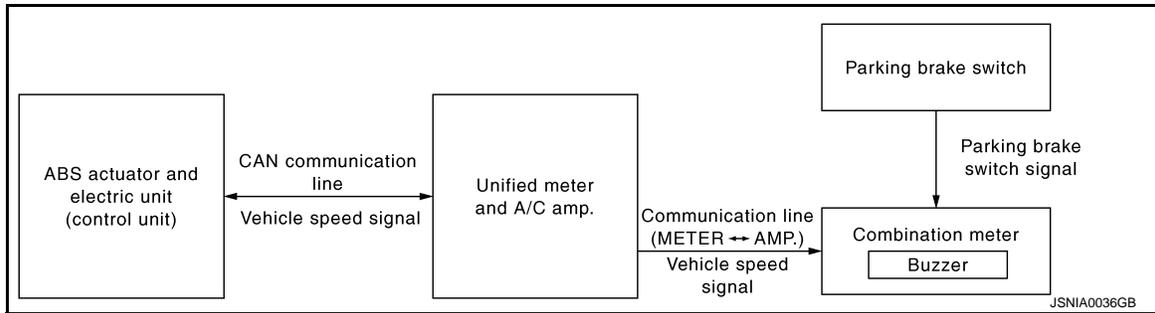
PARKING BRAKE RELEASE WARNING CHIME

WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

PARKING BRAKE RELEASE WARNING CHIME : System Diagram

INFOID:000000001834498



PARKING BRAKE RELEASE WARNING CHIME : System Description

INFOID:000000001834499

DESCRIPTION

- The unified meter and A/C amp. receives the vehicle speed signal from the ABS actuator and electric unit (control unit) via CAN communication line and transmits it to the combination meter by means of communication line.
- The combination meter judges whether the parking brake is released from the vehicle speed signal received from the unified meter and A/C amp. and the parking brake switch signal from the parking brake switch, and sounds the warning buzzer if necessary.

WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled.

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

WARNING CANCEL CONDITIONS

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

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

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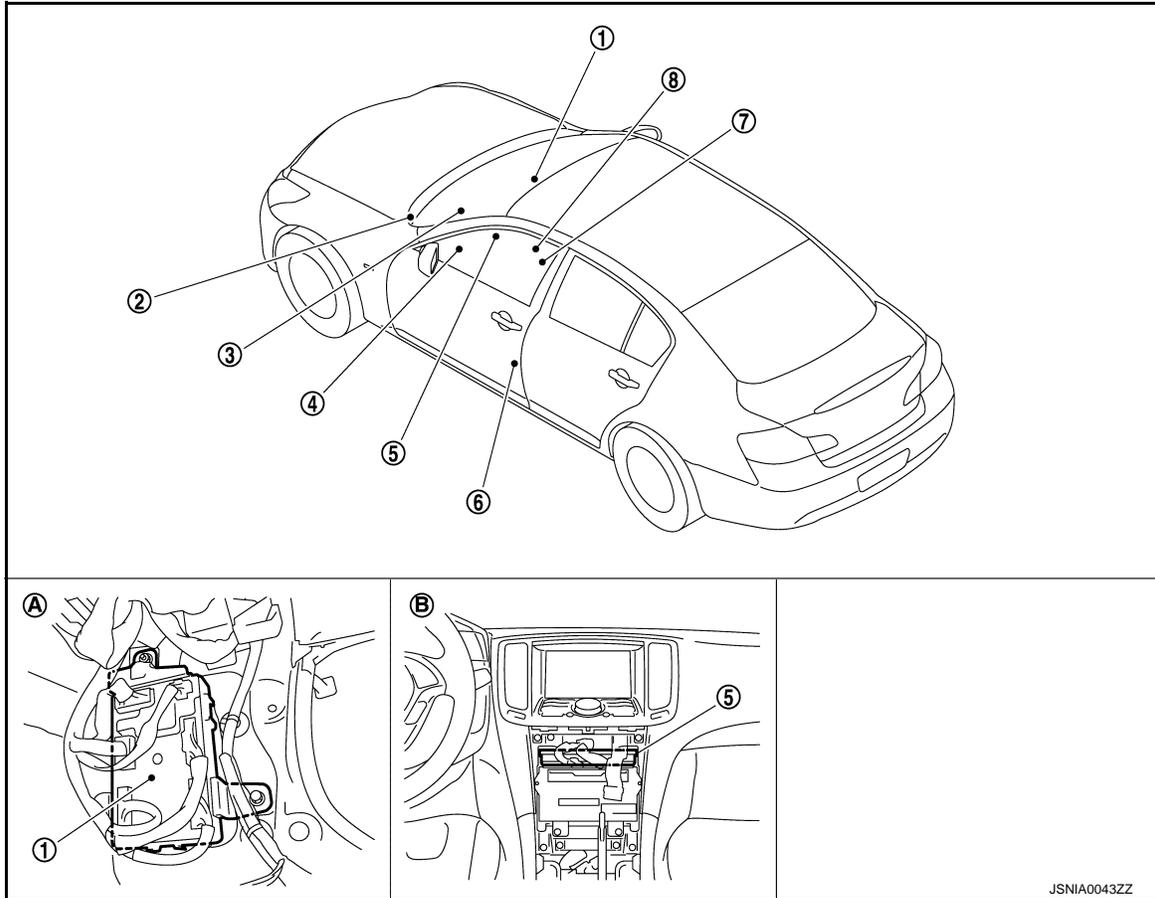
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WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

PARKING BRAKE RELEASE WARNING CHIME : Component Parts Location

INFOID:000000001834500



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|---|-------------------------------|------------------------------------|
| 1. BCM | 2. Parking brake switch (A/T) | 3. Combination meter |
| 4. Combination switch (Lighting switch) | 5. Unified meter and A/C amp. | 6. Front door switch (driver side) |
| 7. Seat belt buckle switch | 8. Parking brake switch (M/T) | |
| A. Dash side lower (passenger side) | B. Behind cluster lid C | |

PARKING BRAKE RELEASE WARNING CHIME : Component Description

INFOID:000000001834501

| Unit | Description |
|---|---|
| Combination meter | Judges whether the parking brake is released from the vehicle speed signal received from the unified meter and A/C amp. via CAN communication line and the parking brake switch signal from the parking brake switch, and sounds the buzzer if necessary. |
| Unified meter and A/C amp. | Receives a vehicle speed signal from ABS actuator and electric unit (control unit) via CAN communication line and transmits it to the combination meter by means of communication line. |
| ABS actuator and electric unit (control unit) | Transmits the vehicle speed signal to combination meter via CAN communication line. |
| Parking brake switch | Refer to MWI-60, "Description" . |

DIAGNOSIS SYSTEM (UNIFIED METER AND A/C AMP.)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (UNIFIED METER AND A/C AMP.)

CONSULT-III Function (METER/M&A)

INFOID:000000001834502

CONSULT-III APPLICATION ITEMS

CONSULT-III can perform the following diagnosis modes with CAN communication with the unified meter and A/C amp.

| System | Diagnosis mode | Description |
|-----------|------------------------|--|
| METER/M&A | Self Diagnostic Result | Unified meter and A/C amp. checks the conditions and displays memorized error. |
| | Data Monitor | Displays unified meter and A/C amp. input/output data in real time. |

SELF DIAG RESULT

Refer to [MWI-98, "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) with CAN communication line. NOTE: 655.35 is displayed when the malfunction signal is received. |
| SPEED OUTPUT [km/h] | X | Vehicle speed signal value transmitted to other units with CAN communication line. NOTE: 655.35 is displayed when the malfunction signal is received. |
| ODO OUTPUT [km/h or mph] | | Odometer signal value transmitted to other units with CAN communication line. |
| TACHO METER [rpm] | X | Value of the engine speed signal received from ECM with CAN communication line. NOTE: 8191.875 is displayed when the malfunction signal is received. |
| FUEL METER [lit.] | X | Fuel level indicated on combination meter. |
| W TEMP METER [°C] | X | Value of engine coolant temperature signal received from ECM with CAN communication line. NOTE: 215 is displayed when the malfunction signal is input. |
| ABS W/L [On/Off] | | Status of ABS warning lamp judged from ABS warning lamp signal received from ABS actuator and electric unit (control unit) with CAN communication line. |
| VDC/TCS IND [On/Off] | | Status of VDC OFF indicator lamp judged from VDC OFF indicator lamp signal received from ABS actuator and electric unit (control unit) with CAN communication line. |
| SLIP IND [On/Off] | | Status of SLIP indicator lamp judged from slip indicator lamp signal received from ABS actuator and electric unit (control unit) with CAN communication line. |
| BRAKE W/L [On/Off] | | Status of brake warning lamp judged from brake warning lamp signal received from ABS actuator and electric unit (control unit) with CAN communication line. 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 warning judged from door switch signal received from BCM with CAN communication line. |
| TRUNK/GLAS-H [On/Off] | | Status of trunk warning judged from trunk switch signal received from BCM with CAN communication line. |

DIAGNOSIS SYSTEM (UNIFIED METER AND A/C AMP.)

< SYSTEM DESCRIPTION >

| Display item [Unit] | MAIN SIGNALS | Description |
|---------------------------|--------------|--|
| HI-BEAM IND [On/Off] | | Status of high beam indicator lamp judged from high beam request signal received from BCM with CAN communication line. |
| TURN IND [On/Off] | | Status of turn indicator lamp judged from turn indicator signal received from BCM with CAN communication line. |
| FR FOG IND [On/Off] | | Status of front fog light indicator lamp judged from front fog light request signal received from BCM with CAN communication line. |
| RR FOG IND [Off] | | This item is displayed, but cannot be monitored. |
| LIGHT IND [On/Off] | | Status of light indicator lamp judged from position light request signal received from BCM with CAN communication line. |
| OIL W/L [On/Off] | | Status of oil pressure warning lamp judged from oil pressure switch signal received from IPDM E/R with CAN communication line. |
| MIL [On/Off] | | Status of malfunction indicator lamp judged from malfunctioning indicator lamp signal received from ECM with CAN communication line. |
| GLOW IND [On/Off] | | This item is displayed, but cannot be monitored. |
| C-ENG2 W/L [On/Off] | | This item is displayed, but cannot be monitored. |
| CRUISE IND [On/Off] | | Status of CRUISE indicator judged from ASCD status signal received from ECM with CAN communication line. |
| SET IND [On/Off] | | Status of set indicator judged from ASCD SET indicator signal received from ECM with CAN communication line. |
| CRUISE W/L [On/Off] | | Status of CRUISE warning lamp judged from ASCD status signal received from ECM with CAN communication line. |
| BA W/L [Off] | | This item is displayed, but cannot be monitored. |
| ATC/T-AMT W/L [On/Off] | | Status of A/T check warning lamp judged from A/T check indicator 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. |
| 4WD LOCK IND [Off] | | This item is displayed, but cannot be monitored. |
| FUEL W/L [On/Off] | | Low-fuel warning lamp status judged by the identified fuel level. |
| WASHER W/L [On/Off] | | Status of washer warning lamp judged from washer level switch input to combination meter. |
| AIR PRES W/L [On/Off] | | Status of low tire pressure warning lamp judged from tire pressure signal received from BCM with CAN communication line. |
| KEY G/Y W/L [On/Off] | | Status of key warning lamp (G/Y) judged from key warning signal received from BCM with CAN communication line. |
| 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. |
| DDS W/L [On/Off] | | This item is displayed, but cannot be monitored. |
| LDP R IND [On/Off] | | This item is displayed, but cannot be monitored. |
| LDP G Y IND [On/Off] | | This item is displayed, but cannot be monitored. |

DIAGNOSIS SYSTEM (UNIFIED METER AND A/C AMP.)

< SYSTEM DESCRIPTION >

| Display item [Unit] | MAIN SIGNALS | Description | A |
|--|--------------|---|-----|
| LCD [B&P N, B&P I, ID NG, ROTAT, SFT P, INSRT, BATT, NO KY,OUTKY, LK WN, C&P N,C&P I] | | Displays status of Intelligent Key system warning judged from meter display signal received from BCM with CAN communication line. | B |
| ACC TARGET [On/Off] | | Status of vehicle ahead detection indicator judged from meter display signal received from ICC sensor integrated unit with CAN communication line. | C |
| ACC DISTANCE [Off, SHOR, MID, LONG] | | Status of set distance indicator judged from meter display signal received from ICC sensor integrated unit with CAN communication line. | D |
| ACC OWN VHL [On/Off] | | Status of own vehicle indicator judged from meter display signal received from ICC sensor integrated unit with CAN communication line. | E |
| ACC SET SPEED [On/Off] | | Status of set vehicle speed indicator judged from meter display signal received from ICC sensor integrated unit with CAN communication line. | F |
| ACC UNIT [On/Off] | | Status of display unit judged from meter display signal received from ICC sensor integrated unit with CAN communication line. | G |
| O/D OFF SW [On/Off] | | This item is displayed, but cannot be monitored. | H |
| SHIFT IND [P, R, N, D, M1, M2, M3, M4, M5] | | Status of A/T position indicator judged from shift position signal and manual mode indicator signal received from TCM with CAN communication line. | I |
| AT S MODE SW [On/Off] | | Status of snow mode switch. | J |
| AT P MODE SW [On/Off] | | This item is displayed, but cannot be monitored. | K |
| M RANGE SW [On/Off] | | Status of manual mode switch. | L |
| NM RANGE SW [On/Off] | | Status of not manual mode switch. | M |
| AT SFT UP SW [On/Off] | | Status of A/T shift up switch. | WCS |
| AT SFT DWN SW [On/Off] | | Status of A/T shift down switch. | O |
| ST SFT UP SW [On/Off] | | Status of paddle shifter up switch. | P |
| ST SFT DWN SW [On/Off] | | Status of paddle shifter down switch. | |
| COMP FB SIG [On/Off] | | A/C compressor activation condition that ECM judges according to the water temperature and the acceleration degree. | |
| 4WD LOCK SW [Off] | | This item is displayed, but cannot be monitored. | |
| PKB SW [On/Off] | | Status of parking brake switch. | |
| BUCKLE SW [On/Off] | | Status of seat belt buckle switch. | |
| BRAKE OIL SW [On/Off] | | Status of brake fluid level switch. | |
| DISTANCE [km] | | Value of possible driving distance calculated by unified meter and A/C amp. | |
| OUTSIDE TEMP [°C or °F] | | Ambient air 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 (UNIFIED METER AND A/C AMP.)

< 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 with CAN communication line. |
| BUZZER [On/Off] | X | Buzzer status (in the combination meter) is judged with the buzzer output signal received from each unit with CAN communication line and the warning output condition of the combination meter. |

NOTE:

Some items are not available according to vehicle specification.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:000000001834503

APPLICATION ITEM

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

| Diagnosis mode | Function Description |
|--------------------------|--|
| Work Support | Changes the setting for each system function. |
| Self Diagnostic Result | Displays the diagnosis results judged by BCM. |
| CAN Diag Support Monitor | Monitors the reception status of CAN communication viewed from BCM. Refer to CONSULT-III operation manual. |
| Data Monitor | The BCM input/output signals are displayed. |
| Active Test | The signals used to activate each device are forcibly supplied from BCM. |
| Ecu Identification | The BCM part number is displayed. |
| Configuration | This function is not used even though it is displayed. |

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

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

*: This item is displayed, but is not used.

FREEZE FRAME DATA (FFD) AND IGN COUNTER

Freeze Frame Data

The BCM records the following condition at the moment a particular DTC is detected.

- Vehicle Speed
- Odo/Trip Meter

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

- Vehicle Condition (BCM detected condition)

| CONSULT screen terms | Description |
|----------------------|--|
| SLEEP>LOCK | While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK") |
| SLEEP>OFF | While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".) |
| LOCK>ACC | While turning power supply position from "LOCK" to "ACC" |
| ACC>ON | While turning power supply position from "ACC" to "IGN" |
| RUN>ACC | While turning power supply position from "RUN" to "ACC" (Vehicle is 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

IGN counter indicates the number of times that ignition switch is turned ON after DTC is detected.

- The number is 0 when a malfunction is detected now.
- The number increases like 1 → 2 → 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:000000001834504

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

| Display item [Unit] | Description |
|------------------------|--|
| VEH SPEED 1 [Km/h] | Value of vehicle speed signal received from ABS actuator and electric unit (control unit) with CAN communication line. |
| PUSH SW [On/Off] | Status of push button ignition switch judged by BCM. |

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

| Display item [Unit] | Description | A |
|--------------------------|--|---|
| UNLK SEN-DR [On/Off] | Status of unlock sensor judged by BCM. | A |
| KEY SW-SLOT [On/Off] | Status of key slot judged by BCM. | B |
| TAIL LAMP SW [On/Off] | Status of each switch judged by BCM using the combination switch readout function. | C |
| FR FOG SW [On/Off] | Status of front fog lamp switch judged by BCM. | D |
| DOOR SW-DR [On/Off] | Status of driver side door switch judged by BCM. | D |

ACTIVE TEST

| Display item [Unit] | Description | E |
|------------------------|---|---|
| IGN KEY WARN ALM | The key warning chime operation can be checked by operating the relevant function (On/Off). | F |
| SEAT BELT WARN TEST | The seat belt warning chime operation can be checked by operating the relevant function (On/Off). | G |
| ID REGIST WARNING | The ID regist warning chime operation can be checked by operating the relevant function (On/Off). | G |
| LIGHT WARN ALM | The light warning chime operation can be checked by operating the relevant function (On/Off). | H |
| RUN FLAT/T WARN BUZZER | The run-flat tire warning chime operation can be checked by operating the relevant function (On/Off). | H |

WCS

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT COMBINATION METER

COMBINATION METER : Diagnosis Procedure

INFOID:000000001834505

1.CHECK FUSE

Check for blown fuses.

| Power source | Fuse No. |
|-----------------------------|----------|
| Battery | 11 |
| 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 M53 terminals 1, 21 and ground.

| Terminal No. | Signal name | Ignition switch position | Value (Approx.) |
|--------------|----------------------|--------------------------|-----------------|
| 1 | Battery power supply | OFF | Battery voltage |
| 21 | Ignition signal | ON | Battery voltage |

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 M53 terminals 5, 15, 22 and ground.

5, 15, 22 - Ground : Continuity should exist.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

UNIFIED METER AND A/C AMP.

UNIFIED METER AND A/C AMP. : Diagnosis Procedure

INFOID:000000001834506

1.CHECK FUSE

Check for blown fuses.

| Power source | Fuse No. |
|-----------------------------|----------|
| Battery | 6 |
| Ignition switch ACC or ON | 19 |
| Ignition switch ON or START | 3 |

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 unified meter and A/C amp. harness connector M67 terminals 54, 41, 53 and ground.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

| Terminal No. | Signal name | Ignition switch position | Value (Approx.) |
|--------------|----------------------|--------------------------|-----------------|
| 54 | Battery power supply | OFF | Battery voltage |
| 41 | ACC power supply | ACC | Battery voltage |
| 53 | Ignition signal | ON | Battery voltage |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between unified meter and A/C amp. and fuse.

3.CHECK GROUND CIRCUIT

- Turn ignition switch OFF.
- Disconnect unified meter and A/C amp. connector.
- Check continuity between unified meter and A/C amp. harness connector M67 terminals 55, 71 and ground.

55, 71 - Ground : Continuity should exist.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE) : Diagnosis Procedure

INFOID:000000003038037

1.CHECK FUSE AND FUSIBLE LINK

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

| Signal name | Fuse and fusible link No. |
|----------------------|---------------------------|
| Battery power supply | M |
| | 10 |

Is the fuse fusing?

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

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM connectors.
- Check voltage between BCM harness connector and ground.

| Terminals | | Voltage (Approx.) |
|-----------|----------|---------------------------|
| (+) | (-) | |
| BCM | | Ground Battery voltage |
| Connector | Terminal | |
| M118 | 1 | |
| M119 | 11 | |

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

| BCM | | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | | |
| M119 | 13 | | Existed |

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

BCM (BODY CONTROL MODULE) : Special Repair Requirement

INFOID:000000003038038

1.REQUIRED WORK WHEN REPLACING BCM

Initialize control unit. Refer to CONSULT-III operation manual NATS-IVIS/NVIS.

>> Work end.

METER BUZZER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

METER BUZZER CIRCUIT

Description

INFOID:000000001834509

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

Component Function Check

INFOID:000000001834510

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 UNIFIED METER AND A/C AMP. 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.
- NO >> Replace BCM. Refer to [BCS-80, "Removal and Installation"](#).

Diagnosis Procedure

INFOID:000000001834511

1. CHECK POWER SUPPLY OF COMBINATION METER

Check power supply of combination meter. Refer to [WCS-20, "COMBINATION METER : Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Repair power supply circuit of combination meter.

2. CHECK BATTERY POWER SUPPLY OF UNIFIED METER AND A/C AMP.

Check battery power supply of unified meter and A/C amp. Refer to [WCS-20, "UNIFIED METER AND A/C AMP. : Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> Repair power supply circuit of unified meter and A/C amp.

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WCS

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

Description

INFOID:000000001834512

Transmits a seat belt buckle switch signal to the unified meter and A/C amp.

Component Function Check

INFOID:000000001834513

1.CHECK UNIFIED METER AND A/C AMP. 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:000000001834514

1.CHECK UNIFIED METER AND A/C AMP. INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between unified meter and A/C amp. harness connector M66 terminal 9 and ground.

9 - Ground

When driver seat belt is fastened : Approx. 12 V

When driver seat belt is unfastened : Approx. 0 V

Is the inspection result normal?

YES >> Replace unified meter and A/C amp.

NO >> GO TO 2.

2.CHECK SEAT BELT BUCKLE SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect unified meter and A/C amp. connector and seat belt buckle switch (driver side) connector.
3. Check continuity between unified meter and A/C amp. harness connector M66 terminal 9 and seat belt buckle switch (driver side) harness connector B13 terminal 1.

9 - 1 : Continuity should exist.

4. Check harness continuity between unified meter and A/C amp. harness connector M66 terminal 9 and ground.

9 - Ground : Continuity should not exist.

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 B13 terminal 2 and ground.

2 - Ground : Continuity should exist.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Component Inspection

INFOID:000000001834515

1. CHECK SEAT BELT BUCKLE SWITCH UNIT

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

1-2

When seat belt is fastened : Continuity should not exist.

When seat belt is unfastened : Continuity should exist.

Is the inspection result normal?

YES >> INSPECTION END

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

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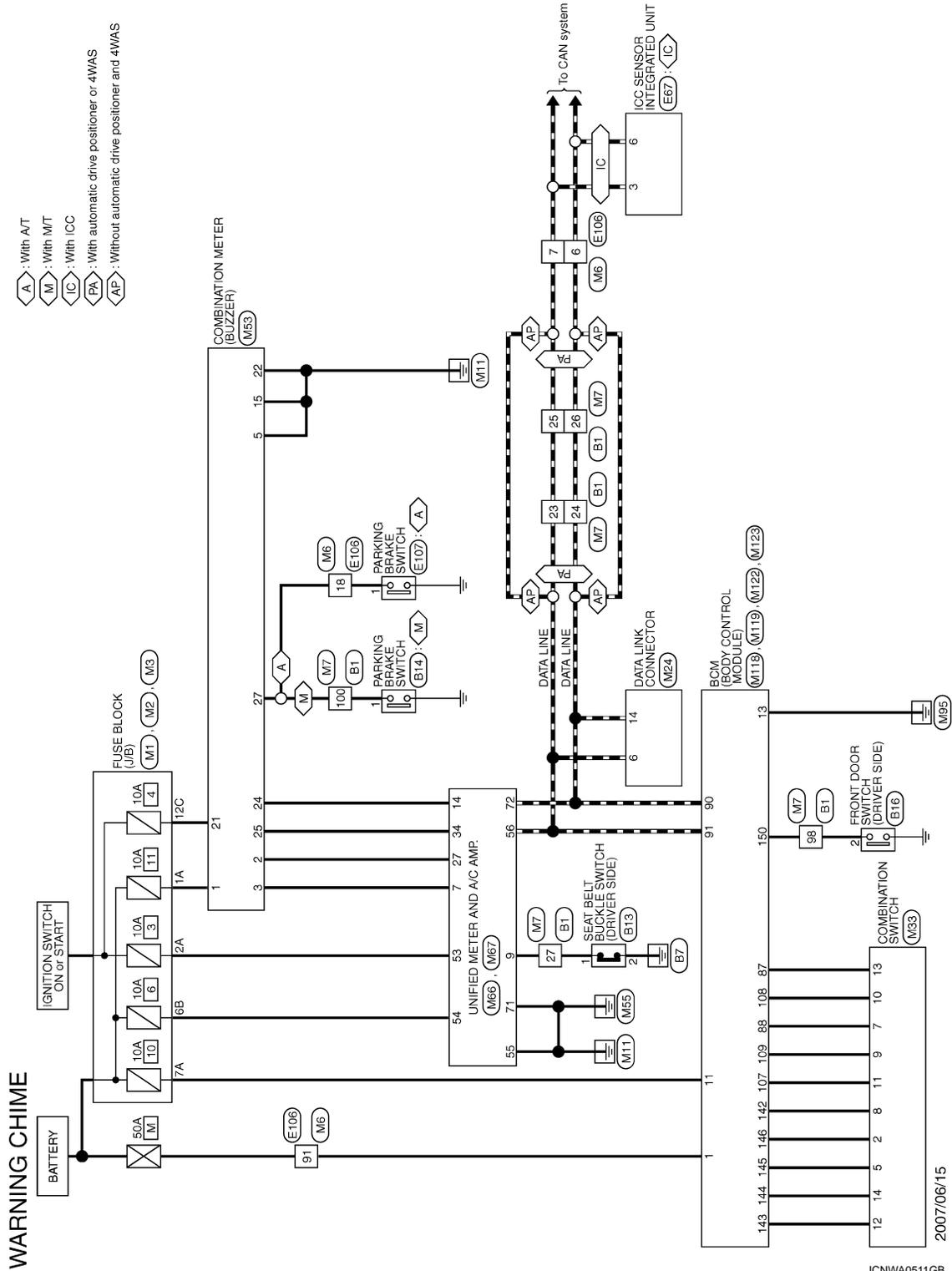
WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

WARNING CHIME SYSTEM

Wiring Diagram - WARNING CHIME -

INFOID:000000001834516

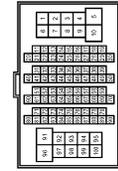


WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

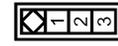
WARNING CHIME

| | |
|----------------|-----------------|
| Connector No. | B1 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 23 | L | - |
| 24 | P | - |
| 25 | L | - |
| 26 | P | - |
| 27 | SB | - |
| 98 | V | - |
| 100 | V | - |

| | |
|----------------|---------------------------------------|
| Connector No. | B13 |
| Connector Name | SEAT BELT BUCKLE SWITCH (DRIVER SIDE) |
| Connector Type | A03FW |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | SB | - |
| 2 | B | - |

| | |
|----------------|----------------------------|
| Connector No. | B14 |
| Connector Name | PARKING BRAKE SWITCH (M/T) |
| Connector Type | P01FB-A |



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

| | |
|----------------|---------------------------------|
| Connector No. | B16 |
| Connector Name | FRONT DOOR SWITCH (DRIVER SIDE) |
| Connector Type | A03FW |



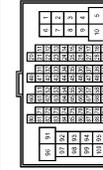
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | V | - |

| | |
|----------------|----------------------------|
| Connector No. | E67 |
| Connector Name | ICC SENSOR INTEGRATED UNIT |
| Connector Type | PS09FB-PR |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3 | L | CAN-H |
| 6 | P | CAN-L |

| | |
|----------------|-----------------|
| Connector No. | E106 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |



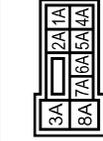
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 6 | P | - |
| 7 | L | - |
| 18 | O | - |
| 91 | W | - |

| | |
|----------------|----------------------------|
| Connector No. | E107 |
| Connector Name | PARKING BRAKE SWITCH (A/T) |
| Connector Type | TB01FW |



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

| | |
|----------------|------------------|
| Connector No. | M1 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS06FW-M2 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1A | V | - |
| 2A | G | - |
| 7A | R | - |

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WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

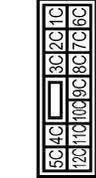
WARNING CHIME

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|----------------|------------------|
| Connector No. | M2 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS10FW-CS |



| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 6B | Y | - |

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



| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 12C | R | - |

| | |
|----------------|------------------|
| Connector No. | M6 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MM-CS (B-TM) |



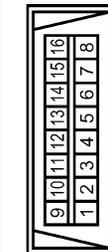
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|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 6 | P | - |
| 7 | L | - |
| 18 | O | - |
| 91 | W | - |

| | |
|----------------|------------------|
| Connector No. | M7 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MM-CS (6-TM) |



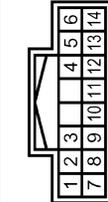
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|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 23 | L | - |
| 24 | P | - |
| 25 | L | - |
| 26 | P | - |
| 27 | L | - |
| 98 | GR | - |
| 100 | O | - |

| | |
|----------------|---------------------|
| Connector No. | M24 |
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | BD16FW |



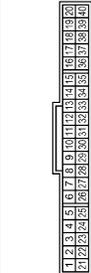
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|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 6 | L | - |
| 14 | P | - |

| | |
|----------------|--------------------|
| Connector No. | M83 |
| Connector Name | COMBINATION SWITCH |
| Connector Type | TH16FW-NH |



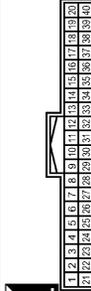
| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 2 | SB | OUTPUT 4 |
| 5 | L | OUTPUT 3 |
| 7 | V | INPUT 3 |
| 8 | O | OUTPUT 5 |
| 9 | Y | INPUT 2 |
| 10 | R | INPUT 4 |
| 11 | LG | INPUT 1 |
| 12 | P | OUTPUT 1 |
| 13 | BR | INPUT 5 |
| 14 | G | OUTPUT 2 |

| | |
|----------------|-------------------|
| Connector No. | M83 |
| Connector Name | COMBINATION METER |
| Connector Type | SAB60FW |



| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1 | V | BAT |
| 2 | LG | COMM (METER->AMP) |
| 3 | GR | COMM (AMP->METER) |
| 5 | B | GND |
| 15 | B | GND |
| 21 | R | IGN |
| 22 | B | GND |
| 24 | BR | COMM (LCD->AMP) |
| 25 | Y | COMM (AMP->LCD) |
| 27 | O | PARKING BRAKE SW |

| | |
|----------------|----------------------------|
| Connector No. | M86 |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH40FW-NH |



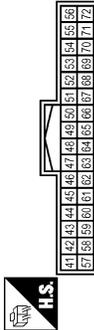
| | | |
|--------------|---------------|-----------------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 7 | GR | COMM (AMP->METER) |
| 9 | SB | SEAT BELT BUCKLE SW (DRIVER SIDE) |
| 14 | BR | COMM (LCD->AMP) |
| 27 | LG | COMM (METER->AMP) |
| 34 | Y | COMM (AMP->LCD) |

WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

WARNING CHIME

| | |
|----------------|----------------------------|
| Connector No. | M67 |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH22W-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 53 | W | IGN |
| 54 | Y | BAT |
| 55 | B | GND |
| 56 | L | CAN-H |
| 71 | GR | GND |
| 72 | P | CAN-L |

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|----------------|---------------------------|
| Connector No. | M118 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | M03FB-IC |



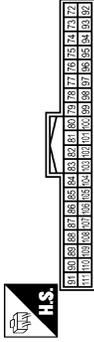
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | W | BAT (E/L) |

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| Connector No. | M119 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | NS16FW-CS |



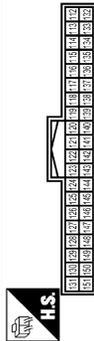
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 11 | R | BAT (FUSE) |
| 13 | B | GND |

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| Connector No. | M122 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH46FB-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 87 | BR | COMBI SW INPUT 5 |
| 88 | V | COMBI SW INPUT 3 |
| 90 | P | CAN-L |
| 91 | L | CAN-H |
| 107 | LG | COMBI SW INPUT 1 |
| 108 | R | COMBI SW INPUT 4 |
| 109 | Y | COMBI SW INPUT 2 |

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|----------------|---------------------------|
| Connector No. | M123 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH46FG-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 142 | O | COMBI SW OUTPUT 5 |
| 143 | P | COMBI SW OUTPUT 1 |
| 144 | G | COMBI SW OUTPUT 2 |
| 145 | L | COMBI SW OUTPUT 3 |
| 146 | SB | COMBI SW OUTPUT 4 |
| 150 | GR | DOOR SW (DR) |

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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

COMBINATION METER

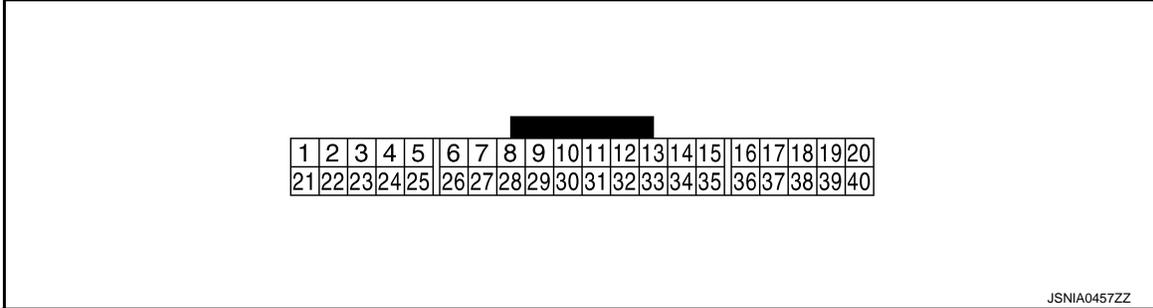
Reference Value

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VALUES ON THE DIAGNOSIS TOOL

Refer to [MWI-81](#), "Reference Value".

TERMINAL LAYOUT

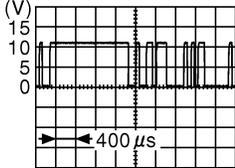
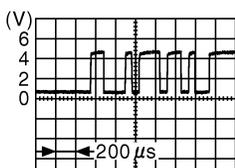
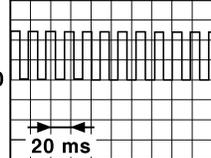
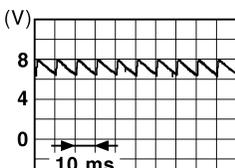


PHYSICAL VALUES

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|--|--------|---------------------------------------|------------------|---------------------------|---------------------------|---|
| + | - | Signal name | Input/ Output | | | |
| 1 (GR) ^{*1} (V) ^{*2} | Ground | Battery power supply | Input | Ignition switch OFF | — | Battery voltage |
| 2 (LG) | Ground | Communication signal (METER→ AMP.) | Output | Ignition switch ON | — | <p style="text-align: right;">JSNIA0027GB</p> |
| 3 (GR) | Ground | Communication signal (AMP.→ METER) | Input | Ignition switch ON | — | <p style="text-align: right;">JSNIA0027GB</p> |
| 5 (B) | Ground | Ground | — | Ignition switch ON | — | 0 V |
| 6 (W) | Ground | Alternator signal | Input | Ignition switch ON | Charge warning lamp ON | 0 V |
| | | | | | Charge warning lamp OFF | 12 V |
| 7 (LG) | Ground | Air bag signal | Input | Ignition switch ON | Air bag warning lamp ON | 4 V |
| | | | | | Air bag warning lamp OFF | 0 V |
| 10 (G) | Ground | Security signal | Input | Ignition switch OFF | Security warning lamp ON | 0 V |
| | | | | | Security warning lamp OFF | 12 V |

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

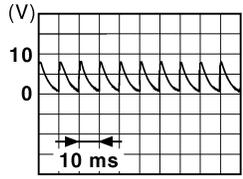
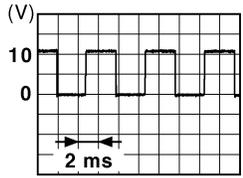
| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|--|--------|-------------------------------------|------------------|--------------------------|---|---|
| + | - | Signal name | Input/ Output | | | |
| 15 (B) | Ground | Ground | — | Ignition switch ON | — | 0 V |
| 16 (B) | Ground | Meter control switch ground | — | Ignition switch ON | — | 0 V |
| 21 (R) | Ground | Ignition signal | Input | Ignition switch ON | — | 12 V |
| 22 (B) | Ground | Ground | — | Ignition switch ON | — | 0 V |
| 24 (BR) | Ground | Communication signal (LCD→ AMP.) | Output | Ignition switch ON | — |  <small>JSNIA0028GB</small> |
| 25 (Y) | Ground | Communication signal (AMP.→ LCD) | Input | Ignition switch ON | — |  <small>JSNIA0027GB</small> |
| 26 (R) | Ground | Vehicle speed signal (8-pulse) | Input | Ignition switch ON | Speedometer operated [When vehicle speed is ap- prox. 40 km/h (25 MPH)] | <p>NOTE: The maximum voltage varies de- pending on the specification (destination unit).</p>  <small>JSNIA0012GB</small> |
| 27 (V) ^{*1} (O) ^{*2} | Ground | Parking brake switch signal | Input | Ignition switch ON | Parking brake ON | 0 V |
| | | | | | Parking brake OFF |  <small>JSNIA0007GB</small> |

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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|---|-----------|---|------------------|--------------------|---|--|
| + | - | Signal name | Input/ Output | | | |
| 28 (W) ^{*1} (SB) ^{*2} | Ground | Brake fluid level switch signal | Input | Ignition switch ON | Brake fluid level is normal.  JSNIA0008GB | |
| | | | | | The brake fluid level is lower than the low level | 0 V |
| 29 (SB) ^{*1} (L) ^{*2} | Ground | Seat belt buckle switch signal (driver side) | Input | Ignition switch ON | When driver seat belt is fastened | 12 V |
| | | | | | When driver seat belt is unfastened | 0 V |
| 30 (G) | Ground | Seat belt buckle switch signal (passenger side) | Input | Ignition switch ON | • When getting in the passenger seat • When passenger seat belt is fastened | 12 V |
| | | | | | | • When getting in the passenger seat • When passenger seat belt is unfastened |
| 31 (L) | Ground | Washer level switch signal | Input | Ignition switch ON | Washer level switch ON | 0 V |
| | | | | | | Washer level switch OFF |
| 34 (R) | Ground | Illumination control signal | Output | Ignition switch ON | Lighting switch ON, then operate the illumination control switch.  JSNIA0010GB | |
| 36 (LG) | 16 (B) | Select switch signal | Input | Ignition switch ON | When ● is pressed | 0 V |
| | | | | | | Other than the above |
| 37 (SB) | 16 (B) | Enter switch signal | Input | Ignition switch ON | When □ is pressed | 0 V |
| | | | | | | Other than the above |
| 38 (L) | 16 (B) | Trip A/B reset switch signal | Input | Ignition switch ON | When trip A/B reset switch is pressed | 0 V |
| | | | | | | Other than the above |
| 39 (P) | 16 (B) | Illumination control switch signal (-) | Input | Ignition switch ON | When ⏻ switch is pressed | 0 V |
| | | | | | | Other than the above |
| 40 (O) | 16 (B) | Illumination control switch signal (+) | Input | Ignition switch ON | When ⏩+ switch is pressed | 0 V |
| | | | | | | Other than the above |

• *1: M/T models

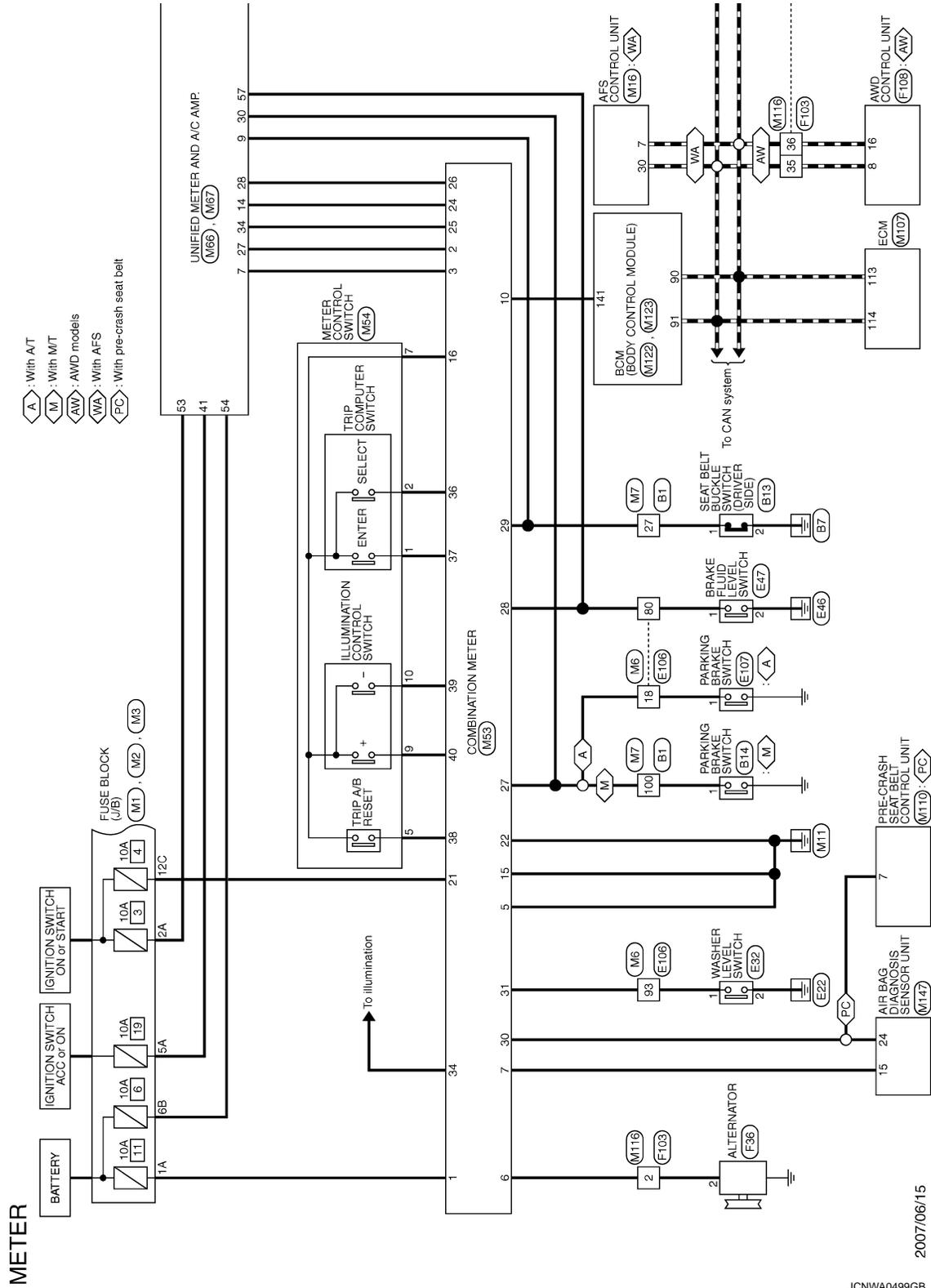
• *2: A/T models

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

Wiring Diagram - METER -

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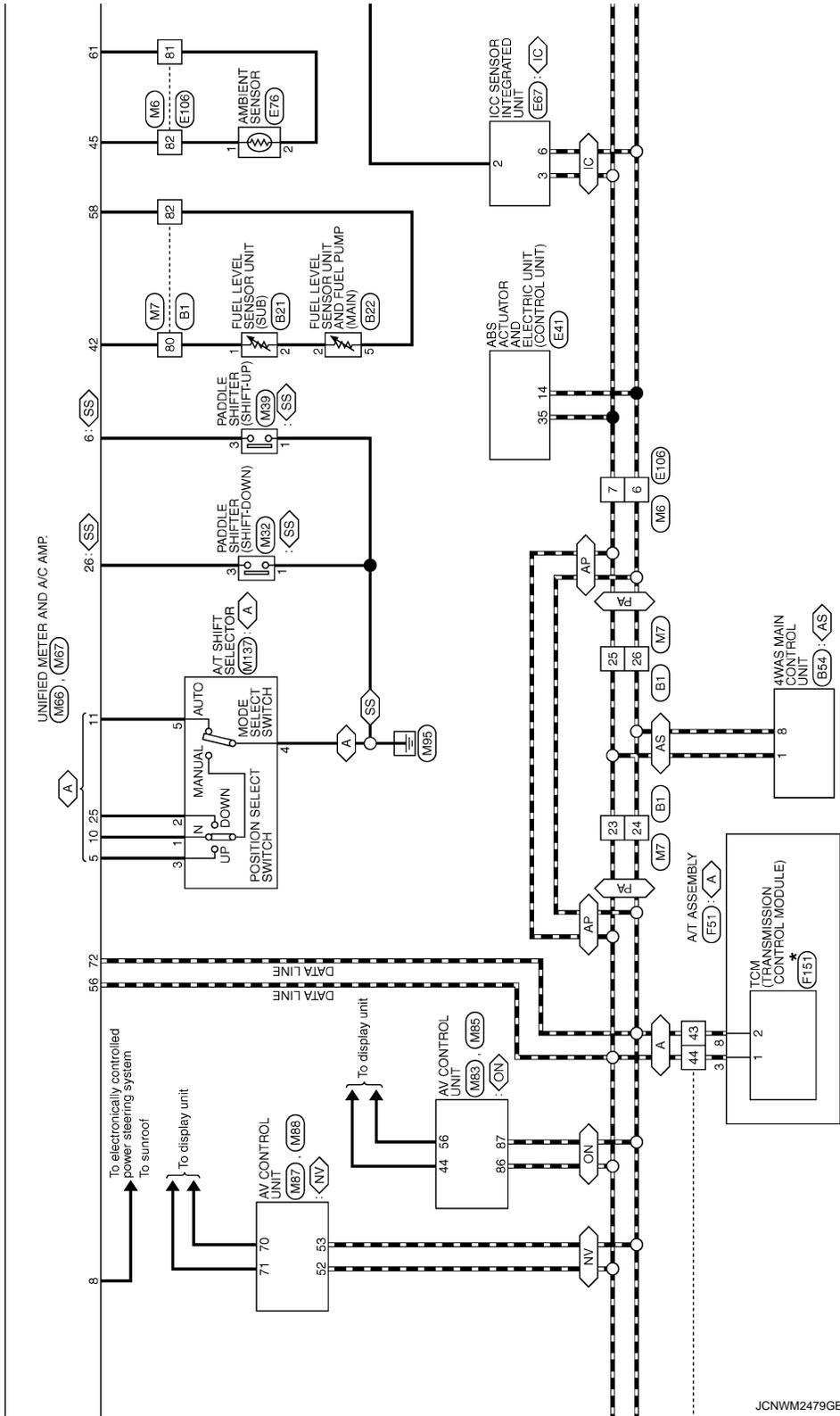
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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

- : With A/T
- : With NAVI
- : Without NAVI
- : With ICC
- : With 4WAS
- : With automatic drive positioner or 4WAS
- : Without automatic drive positioner and 4WAS
- : With paddle shifter switch

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

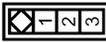
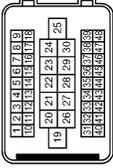
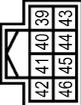


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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER

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|----------------------|---|---|--------------|---------------|-----------------------------|
| Connector No. B1 | WIRE TO WIRE THBDFW-GS16-TM4 |  | Terminal No. | Color of Wire | Signal Name [Specification] |
| Connector Name | | | 23 | L | |
| Connector Type | | | 24 | P | |
| | | | 25 | L | |
| | | | 26 | P | |
| | | | 27 | SB | |
| | | | 80 | Y | |
| | | | 82 | B | |
| | | | 100 | V | |
| Connector No. B22 | FUEL LEVEL SENSOR UNIT AND FUEL PUMP (MAN) EGDFGY-RS |  | Terminal No. | Color of Wire | Signal Name [Specification] |
| Connector Name | | | 2 | W | |
| Connector Type | | | 5 | B | |
| Connector No. B13 | SEAT BELT BUCKLE SWITCH (DRIVER SIDE) A3BFW |  | Terminal No. | Color of Wire | Signal Name [Specification] |
| Connector Name | | | 1 | SB | |
| Connector Type | | | 2 | B | |
| Connector No. B14 | PARKING BRAKE SWITCH (M/T) P0JFB-A |  | Terminal No. | Color of Wire | Signal Name [Specification] |
| Connector Name | | | 1 | V | |
| Connector Type | | | | | |
| Connector No. B21 | FUEL LEVEL SENSOR UNIT (SUB) EGDFGY-RS |  | Terminal No. | Color of Wire | Signal Name [Specification] |
| Connector Name | | | 1 | Y | |
| Connector Type | | | 2 | W | |
| Connector No. E3 | WIRE TO WIRE SAA38MB-RS10-SJ22 |  | Terminal No. | Color of Wire | Signal Name [Specification] |
| Connector Name | | | 35 | Y | |
| Connector Type | | | | | |
| Connector No. E6 | FRM LE (R INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) TRDFPW-MH |  | Terminal No. | Color of Wire | Signal Name [Specification] |
| Connector Name | | | 39 | P | |
| Connector Type | | | 40 | L | |
| Connector No. B54 | 4WAS MAIN CONTROL UNIT A3BFW-M4 |  | Terminal No. | Color of Wire | Signal Name [Specification] |
| Connector Name | | | 8 | L | CAN-H |
| Connector Type | | | | P | CAN-L |

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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

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|----------------|--|----------------|---|----------------|---------------------|----------------|--------------------------|
| Connector No. | E7 | Connector No. | E41 | Connector No. | E47 | Connector No. | E47 |
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) | Connector Name | ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) | Connector Name | WASHER LEVEL SWITCH | Connector Name | BRAKE FLUID LEVEL SWITCH |
| Connector Type | TH20FW-GS12-M4 | Connector Type | EAA42EB-AH24-LH | Connector Type | Z02EBR | Connector Type | Y102FGY |

| | | | | | | | | | | | |
|---------------|----|---|-----------------------------|---------------|----|---|-----------------------------|---------------|---|-----|-----------------------------|
| Terminal No. | 75 | Y | Signal Name [Specification] | Terminal No. | 14 | P | Signal Name [Specification] | Terminal No. | 1 | W | Signal Name [Specification] |
| Color of Wire | | | | Color of Wire | 35 | L | CAN-L | Color of Wire | 2 | B/W | |

| | | | | | | | |
|---------------|---|---|-----------------------------|---------------|---|---|-----------------------------|
| Terminal No. | 1 | W | Signal Name [Specification] | Terminal No. | 1 | G | Signal Name [Specification] |
| Color of Wire | | | | Color of Wire | 2 | P | |

| | | | | | | | |
|----------------|----------------------|----------------|----------------|----------------|----------------------------|----------------|------------------|
| Connector No. | E51 | Connector No. | E76 | Connector No. | E67 | Connector No. | E103 |
| Connector Name | ICC BRAKE HOLD RELAY | Connector Name | AMBIENT SENSOR | Connector Name | ICC SENSOR INTEGRATED UNIT | Connector Name | FUSE BLOCK (J/B) |
| Connector Type | MS22FL-W2 | Connector Type | RS22FB | Connector Type | RS22FB-PR | Connector Type | NS16FY-CS |

| | | | | | | | |
|---------------|---|---|-----------------------------|---------------|---|---|-----------------------------|
| Terminal No. | 1 | B | Signal Name [Specification] | Terminal No. | 1 | P | Signal Name [Specification] |
| Color of Wire | | | | Color of Wire | 2 | L | BRK LMP RLY |
| Terminal No. | 2 | V | | Color of Wire | 6 | P | CAN-L |
| Color of Wire | | | | Color of Wire | | | |

| | | | | | | | |
|---------------|---|---|-----------------------------|---------------|----|---|-----------------------------|
| Terminal No. | 1 | B | Signal Name [Specification] | Terminal No. | 1 | W | Signal Name [Specification] |
| Color of Wire | | | | Color of Wire | 2F | W | |
| Terminal No. | 2 | V | | Color of Wire | 8F | L | |
| Color of Wire | | | | Color of Wire | | | |

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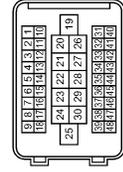
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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

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| | |
|----------------|-------------------|
| Connector No. | F1 |
| Connector Name | WIRE TO WIRE |
| Connector Type | SA436FB-MS10-SJZZ |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 35 | Y | - |

| | |
|----------------|------------------|
| Connector No. | E110 |
| Connector Name | STOP LAMP SWITCH |
| Connector Type | MG4FW-LC |



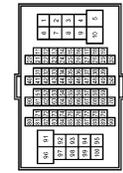
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | L | - |
| 2 | W | - |
| 3 | L | - |
| 4 | SB | - |

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|----------------|----------------------------|
| Connector No. | E107 |
| Connector Name | PARKING BRAKE SWITCH (A/T) |
| Connector Type | TE01FW |



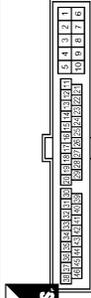
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | O | - |

| | |
|----------------|-----------------|
| Connector No. | E106 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH01FW-GS16-TM4 |



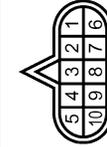
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 6 | P | - |
| 7 | L | - |
| 18 | O | - |
| 80 | W | - |
| 81 | P | - |
| 82 | G | - |
| 93 | LG | - |

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| Connector No. | F103 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK36FW-MS10 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | G | - |
| 35 | L | - |
| 36 | P | - |
| 43 | P | - |
| 44 | L | - |

| | |
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| Connector No. | F51 |
| Connector Name | A/T ASSEMBLY |
| Connector Type | RK10FG-DGY |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3 | L | - |
| 8 | P | - |

| | |
|----------------|---------------------|
| Connector No. | F37 |
| Connector Name | OIL PRESSURE SWITCH |
| Connector Type | ED10GY-RS-AR |



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

| | |
|----------------|------------|
| Connector No. | F36 |
| Connector Name | ALTERNATOR |
| Connector Type | MS03FB |



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

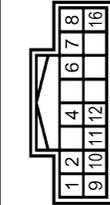
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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

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| Connector No. | F108 |
| Connector Name | AWD CONTROL UNIT |
| Connector Type | TH16FW-NH |



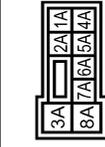
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 8 | L | CAN-H |
| 16 | P | CAN-L |

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| Connector No. | F151 |
| Connector Name | TOM (TRANSMISSION CONTROL MODULE) |
| Connector Type | SPT0FBGY |



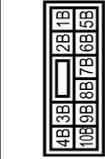
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | BR | CAN-H |
| 2 | L/Y | CAN-L |

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| Connector No. | M1 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS36FW-M2 |



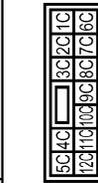
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1A | V | - |
| 2A | G | - |
| 5A | L | - |

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| Connector No. | M2 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS10FW-CS |



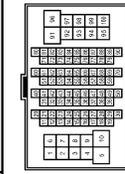
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3B | P | - |
| 6B | Y | - |

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



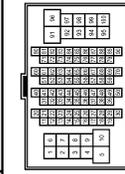
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 12C | R | - |

| | |
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| Connector No. | M6 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH60MW-CS16-TM4 |



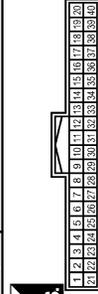
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 6 | P | - |
| 7 | L | - |
| 16 | O | - |
| 80 | SB | - |
| 81 | R | - |
| 82 | V | - |
| 83 | L | - |

| | |
|----------------|-----------------|
| Connector No. | M7 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH60MW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 23 | L | - |
| 24 | P | - |
| 25 | L | - |
| 26 | P | - |
| 27 | L | - |
| 80 | Y | - [With A/T] |
| 82 | BR | - |
| 83 | B | - [With M/T] |
| 100 | O | - |

| | |
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| Connector No. | M16 |
| Connector Name | AFS CONTROL UNIT |
| Connector Type | TH46FW-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 7 | P | CAN-L |
| 30 | L | CAN-H |

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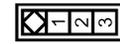
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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER

| | |
|----------------|-----------------------------|
| Connector No. | M32 |
| Connector Name | PADDLE SHIFTER (SHIFT-DOWN) |
| Connector Type | A03FW |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | W | |
| 2 | G | |
| 3 | | |

| | |
|----------------|---------------------------|
| Connector No. | M39 |
| Connector Name | PADDLE SHIFTER (SHIFT-UP) |
| Connector Type | A04FW |



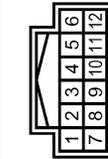
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | P | |
| 2 | O | |
| 3 | | |

| | |
|----------------|-------------------|
| Connector No. | M63 |
| Connector Name | COMBINATION METER |
| Connector Type | SAB0FW |



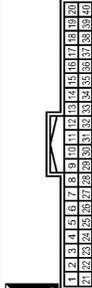
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | BAT |
| 2 | LG | COMM (METER->AMP.) |
| 3 | GR | COMM (METER->METER) |
| 4 | B | GND |
| 5 | B | ALTERNATOR |
| 6 | W | AIR BAG |
| 7 | LG | SECURITY |
| 10 | G | GND |
| 15 | B | GND |
| 16 | BR | METER CONTROL SW GND |
| 21 | R | IGN |
| 22 | B | GND |

| | |
|----------------|----------------------|
| Connector No. | M64 |
| Connector Name | METER CONTROL SWITCH |
| Connector Type | TH12FW-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | SB | |
| 2 | LG | |
| 5 | L | |
| 7 | BR | |
| 9 | O | |
| 10 | P | |

| | |
|----------------|----------------------------|
| Connector No. | M66 |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH40FW-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------------|
| 4 | G | STOP LAMP SW |
| 5 | L | SHIFT UP SW |
| 6 | O | PADDLE UP |
| 7 | GR | COMM (AMP->METER) |
| 8 | L | VEHICLE SPEED (2-PULSE) |
| 9 | SB | SEAT BELT BUCKLE SW (DRIVER SIDE) |
| 10 | W | MANUAL MODE SW |
| 11 | G | AUTO MODE SW |
| 14 | BR | COMM (LCD->AMP) |
| 25 | V | SHIFT DOWN SW |
| 26 | G | PADDLE DOWN |

| | | |
|----|----|-----------------------------------|
| 24 | BR | COMM (LCD->AMP.) |
| 25 | Y | COMM (AMP->LCD) |
| 26 | R | VEHICLE SPEED (8-PULSE) |
| 27 | O | PARKING BRAKE SW |
| 28 | SB | BRAKE FLUID LEVEL SW |
| 29 | L | SEAT BELT BUCKLE SW (DRIVER SIDE) |
| 30 | G | SEAT BELT |
| 31 | L | WASHER LEVEL SW |
| 34 | R | ILLUMINATION CONTROL |
| 36 | LG | SELECT SW |
| 37 | SB | ENTER SW |
| 38 | L | TRIP A/B RESET SW |
| 39 | P | ILLUMINATION CONTROL SW (-) |
| 40 | O | ILLUMINATION CONTROL SW (+) |

| | | |
|----|----|-------------------------|
| 27 | LG | COMM (METER->AMP.) |
| 28 | R | VEHICLE SPEED (8-PULSE) |
| 30 | V | PARKING BRAKE SW |
| 34 | Y | COMM (AMP->LCD) |

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

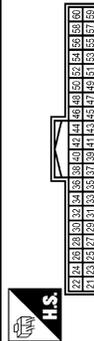
METER

| | |
|----------------|----------------------------|
| Connector No. | M67 |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH22FW-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|--------------------------------|
| 41 | L | ACC |
| 42 | Y | FUEL LEVEL SENS |
| 45 | V | AMB SENS |
| 53 | W | IGN |
| 54 | Y | BAT |
| 55 | B | GND |
| 56 | L | CAN-H |
| 57 | LG | BRAKE FLUID LEVEL SW |
| 58 | BR | FUEL LEVEL SENS GND [With A/T] |
| 58 | B | FUEL LEVEL SENS GND [With M/T] |
| 61 | R | AMB SENS GND |

| | |
|----------------|-----------------------------|
| Connector No. | M87 |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | TH40FW-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 21 | L | CAN-H |
| 53 | P | CAN-L |

| | | |
|----|----|-------|
| 71 | GR | GND |
| 72 | P | CAN-L |

| | |
|----------------|--------------------------------|
| Connector No. | M83 |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH24FW-NH |



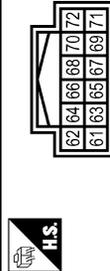
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 44 | L | COMM (DISP->CONT) |
| 56 | LG | COMM (CONT->DISP) |

| | |
|----------------|--------------------|
| Connector No. | M107 |
| Connector Name | ECM |
| Connector Type | PH24FGY-R2S-R-LH-Z |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 113 | P | VEHCAN-LI |
| 114 | L | VEHCAN-HI |

| | |
|----------------|-----------------------------|
| Connector No. | M88 |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | TH12FW-NH |



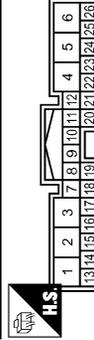
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 70 | L | COMM (CONT->DISP) |
| 71 | LG | COMM (DISP->CONT) |

| | |
|----------------|--------------------------------|
| Connector No. | M85 |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH32FW-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 86 | L | CAN-H |
| 87 | P | CAN-L |

| | |
|----------------|----------------------------------|
| Connector No. | M110 |
| Connector Name | PRE-CRASH SEAT BELT CONTROL UNIT |
| Connector Type | TH20FW-TBS |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 7 | G | INDICATOR |

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JCNWA0507GB

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER

| | | | | | | | |
|----------------|--------------|---------------------------|---------------------------|---------------------------|--------------------|---------------|-----------------------------|
| Connector No. | M116 | Connector No. | M122 | Connector No. | M123 | Connector No. | M137 |
| Connector Name | WIRE TO WIRE | BCM (BODY CONTROL MODULE) | BCM (BODY CONTROL MODULE) | BCM (BODY CONTROL MODULE) | A/T SHIFT SELECTOR | Terminal No. | Signal Name [Specification] |
| Connector Type | TK38AW-NS10 | TH40FB-NH | TH40FB-NH | TH40FS-NH | TH40ZW-NH | 1 | W |
| | | | | | | 2 | V |
| | | | | | | 3 | L |
| | | | | | | 4 | P |
| | | | | | | 43 | P |
| | | | | | | 44 | L |
| | | | | | | | |
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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

| Function | | Specifications | |
|-----------------------------|--------------------------------|--|---|
| Speedometer | | Reset to zero by suspending communication. | A |
| Tachometer | | | B |
| Fuel gauge | | | C |
| Water temperature gauge | | | D |
| Illumination control | | When suspending communication, change to nighttime mode. | E |
| Information display | | The display turns off by suspending communication. | F |
| Buzzer | | The buzzer turns off by suspending communication. | G |
| Warning lamp/indicator lamp | ABS warning lamp | The lamp turns on by suspending communication. | H |
| | VDC OFF indicator lamp | | I |
| | SLIP indicator lamp | | J |
| | Brake warning lamp | | K |
| | CRUISE warning lamp | | L |
| | BA warning lamp | | M |
| | High beam indicator | The lamp turns off by suspending communication. | N |
| | Turn signal indicator lamp | | O |
| | Oil pressure warning lamp | | P |
| | Malfunction indicator lamp | | |
| | A/T CHECK warning lamp | | |
| | AWD warning lamp | | |
| | Low tire pressure warning lamp | | |
| | Key warning lamp | | |
| | AFS OFF indicator lamp | | |
| 4WAS warning lamp | | | |
| Master warning lamp | | | |

DTC Index

INFOID:000000002994134

Refer to [MWI-98, "DTC Index"](#).

WCS

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

UNIFIED METER AND A/C AMP.

Reference Value

INFOID:000000003072545

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

| Monitor Item | Condition | | Value/Status |
|-------------------------------|-----------------------|--|---|
| SPEED METER [km/h] | Ignition switch ON | While driving | Equivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received |
| SPEED OUTPUT [km/h] | Ignition switch ON | While driving | Equivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received |
| ODO OUTPUT [km/h] or [mph] | Ignition switch ON | — | Equivalent to odometer reading in combination meter |
| TACHO METER [rpm] | Ignition switch ON | While driving | Equivalent to tachometer reading NOTE: 8191.875 is displayed when the malfunction signal is received |
| FUEL METER [lit.] | Ignition switch ON | — | Values according to fuel level |
| W TEMP METER [°C] | Ignition switch ON | — | Values according to engine coolant temperature 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 | SLIP indicator lamp ON | On |
| | | SLIP indicator 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 warning displayed | On |
| | | Door warning not displayed | Off |
| TRUNK/GLAS-H | Ignition switch ON | Trunk warning displayed | On |
| | | Trunk warning not displayed | Off |
| HI-BEAM IND | Ignition switch ON | Hi-beam indicator lamp ON | On |
| | | Hi-beam indicator lamp OFF | Off |
| TURN IND | Ignition switch ON | Turn indicator lamp ON | On |
| | | Turn indicator lamp OFF | Off |
| FR FOG IND | Ignition switch ON | NOTE: This item is displayed, but cannot be monitored. | Off |
| RR FOG IND | Ignition switch ON | NOTE: This item is displayed, but cannot be monitored. | Off |
| LIGHT IND | Ignition switch ON | Light indicator lamp ON | On |
| | | Light indicator lamp OFF | Off |

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | | Value/Status | |
|---------------|--------------------|--|--------------|-----|
| OIL W/L | Ignition switch ON | Oil pressure warning lamp ON | On | A |
| | | Oil pressure warning lamp OFF | Off | |
| MIL | Ignition switch ON | Malfunction warning lamp ON | On | B |
| | | Malfunction warning lamp OFF | Off | |
| GLOW IND | Ignition switch ON | NOTE: This item is displayed, but cannot be monitored. | Off | C |
| C-ENG2 W/L | Ignition switch ON | NOTE: This item is displayed, but cannot be monitored. | Off | D |
| CRUISE IND | Ignition switch ON | Cruise indicator displayed | On | |
| | | Cruise indicator not displayed | Off | E |
| SET IND | Ignition switch ON | Set indicator lamp ON | On | |
| | | Set indicator lamp 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 | NOTE: This item is displayed, but cannot be monitored. | Off | G |
| 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 | I |
| 4WD LOCK IND | Ignition switch ON | NOTE: This item is displayed, but cannot be monitored. | Off | J |
| FUEL W/L | Ignition switch ON | Low-fuel warning lamp displayed | On | |
| | | Low-fuel warning lamp not displayed | Off | |
| WASHER W/L | Ignition switch ON | Washer warning displayed | On | K |
| | | Washer warning not displayed | Off | |
| AIR PRES W/L | Ignition switch ON | Low tire pressure lamp ON | On | L |
| | | Low tire pressure lamp OFF | Off | |
| KEY G/Y W/L | Ignition switch ON | Key warning lamp ON | On | |
| | | Key warning lamp OFF | Off | M |
| AFS OFF IND | Ignition switch ON | AFS OFF indicator lamp ON | On | |
| | | AFS OFF indicator lamp OFF | Off | WCS |
| 4WAS/RAS W/L | Ignition switch ON | 4WAS warning lamp ON | On | |
| | | 4WAS warning lamp OFF | Off | |
| DDS W/L | Ignition switch ON | NOTE: This item is displayed, but cannot be monitored. | Off | O |
| LDP R IND | Ignition switch ON | NOTE: This item is displayed, but cannot be monitored. | Off | P |
| LDP G Y IND | Ignition switch ON | NOTE: This item is displayed, but cannot be monitored. | Off | |

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | | Value/Status |
|-------------------------------------|--|--|--------------|
| LCD | Ignition switch ON | Engine start information display (A/T model) | B&P I |
| | | Engine start information display (M/T model) | C&P I |
| | Ignition switch LOCK or ACC | Engine start information display (A/T model) | B&P N |
| | | Engine start information display (M/T model) | C&P N |
| | Ignition switch LOCK | Key ID warning display | ID NG |
| | Ignition switch LOCK | Steering lock information display | ROTAT |
| | Ignition switch LOCK | P position warning display | SFT P |
| | Ignition switch LOCK | Intelligent Key insert information display | INSRT |
| | Ignition switch LOCK | Intelligent Key low battery warning display | BATT |
| | Ignition switch ON | Take away warning display | NO KY |
| | Ignition switch LOCK | Key warning display | OUTKY |
| Ignition switch ON | ACC warning display integrated unit warning display. | LK WN | |
| ACC TARGET | Ignition switch ON | Vehicle ahead detection indicator displayed | On |
| | | Vehicle ahead detection indicator not displayed | 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 | Own vehicle indicator displayed | On |
| | | Own vehicle indicator not displayed | Off |
| ACC SET SPEED | Ignition switch ON | Set vehicle speed indicator not displayed | Off |
| | | Set vehicle speed indicator displayed | On |
| ACC UNIT | Ignition switch ON | Set vehicle speed indicator unit display ON | On |
| | | Set vehicle speed indicator unit display OFF | Off |
| O/D OFF SW | Ignition switch ON | NOTE: This item is displayed, but cannot be monitored. | Off |
| SHIFT IND | Ignition switch ON | Shift position indicator P display | P |
| | | Shift position indicator R display | R |
| | | Shift position indicator N display | N |
| | | Shift position indicator D display | D |
| | | Shift position indicator M1 display | M1 |
| | | Shift position indicator M2 display | M2 |
| | | Shift position indicator M3 display | M3 |
| | | Shift position indicator M4 display | M4 |
| Shift position indicator M5 display | M5 | | |
| AT S MODE SW | Ignition switch ON | Snow mode switch ON | On |
| | | Snow mode switch OFF | Off |

UNIFIED METER AND A/C AMP.

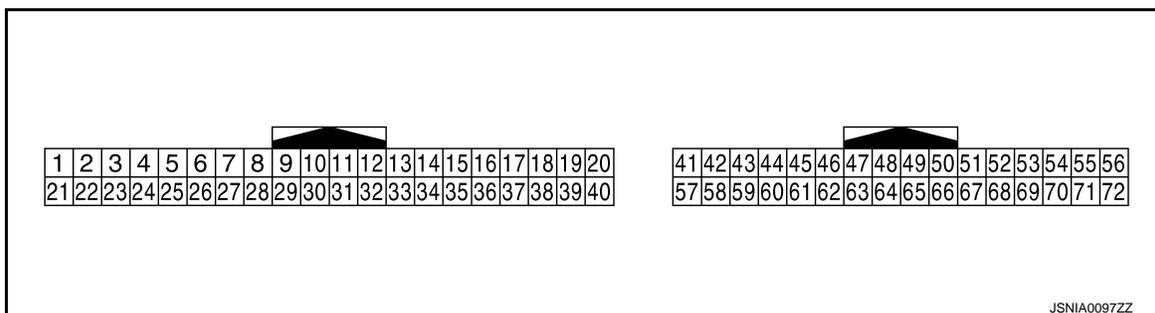
< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | | Value/Status |
|---------------------------|--------------------|--|---|
| AT P MODE SW | Ignition switch ON | NOTE: This item is displayed, but cannot be monitored. | Off |
| M RANGE SW | Ignition switch ON | Selector lever manual mode position | On |
| | | Other than the above | Off |
| NM RANGE SW | Ignition switch ON | Selector lever manual mode position | Off |
| | | Other than the above | On |
| AT SFT UP SW | Ignition switch ON | Selector lever + position | On |
| | | Other than the above | Off |
| AT SFT DWN SW | Ignition switch ON | Selector lever – position | On |
| | | Other than the above | Off |
| ST SFT UP SW | Ignition switch ON | Paddle shifter switch up operation | On |
| | | Other than the above | Off |
| ST SFT DWN SW | Ignition switch ON | Paddle shifter switch down operation | On |
| | | Other than the above | Off |
| COMP F/B SIG | Ignition switch ON | A/C compressor activation condition | On |
| | | A/C compressor deactivation condition | Off |
| 4WD LOCK SW | Ignition switch ON | NOTE: This item is displayed, but cannot be monitored. | Off |
| PKB SW | Ignition switch ON | Parking brake switch ON | On |
| | | Parking brake switch OFF | Off |
| BUCKLE SW | Ignition switch ON | Seat belt not fastened | On |
| | | Seat belt fastened | Off |
| BRAKE OIL SW | Ignition switch ON | Brake fluid level switch ON | On |
| | | Brake fluid level switch OFF | Off |
| DISTANCE [km] | Ignition switch ON | — | Possible driving distance calculated by unified meter and A/C amp. |
| OUTSIDE TEMP [°C] or [°F] | Ignition switch ON | — | Equivalent to ambient temperature NOTE: This may not match the indicated value on the information display. |
| FUEL LOW SIG | Ignition switch ON | Low-fuel warning displayed | |
| BUZZER | Ignition switch ON | Buzzer ON | On |
| | | Buzzer OFF | Off |

NOTE:

Some items are not available according to vehicle specification.

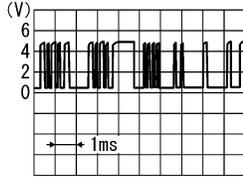
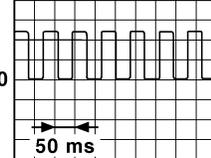
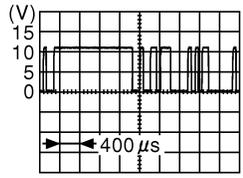
TERMINAL LAYOUT



UNIFIED METER AND A/C AMP.

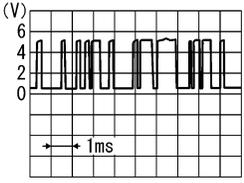
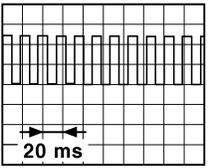
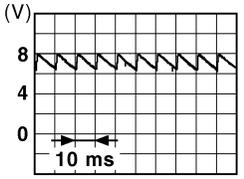
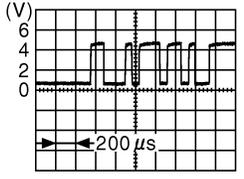
< ECU DIAGNOSIS INFORMATION >

PHYSICAL VALUES

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|---|--------|--|------------------|---------------------|---|---|
| + | - | Signal name | Input/ Output | | | |
| 4 (P) ^{*1} (G) ^{*2} | Ground | Stop lamp switch signal | Input | Ignition switch OFF | Brake pedal is depressed | 12 V |
| | | | | | Other than the above | 0 V |
| 5 (L) | Ground | Manual mode shift up signal | Input | Ignition switch ON | Selector lever UP operation | 0 V |
| | | | | | Other than the above | 12 V |
| 6 (O) | Ground | Paddle shifter up signal | Input | Ignition switch ON | <ul style="list-style-type: none"> • Selector lever DS position • Paddle shift up operation | 0 V |
| | | | | | | Other than the above |
| 7 (GR) | Ground | Communication signal (AMP. → METER) | Output | Ignition switch ON | — |  <p style="text-align: right; font-size: small;">SKIA3362E</p> |
| 8 (L) | Ground | Vehicle speed signal output (2-pulse) | Output | Ignition switch ON | Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)] | <p>NOTE: The maximum voltage varies depending on the specification (destination unit).</p>  <p style="text-align: right; font-size: small;">JSNIA0015GB</p> |
| 9 (SB) | Ground | Seat belt buckle switch signal (driver side) | Input | Ignition switch ON | When seat belt is fastened | 12 V |
| | | | | | When seat belt is not fastened | 0 V |
| 10 (W) | Ground | Manual mode signal | Input | Ignition switch ON | Selector lever DS position | 0 V |
| | | | | | | Other than the above |
| 11 (G) | Ground | Not manual mode signal | Input | Ignition switch ON | Selector lever DS position | 12 V |
| | | | | | | Other than the above |
| 14 (BR) | Ground | Communication signal (LCD → AMP.) | Input | Ignition switch ON | — |  <p style="text-align: right; font-size: small;">JSNIA0028GB</p> |
| 23 (Y) | Ground | A/T snow switch signal | Input | Ignition switch ON | Snow mode switch ON | 12 V |
| | | | | | | Snow mode switch OFF |

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

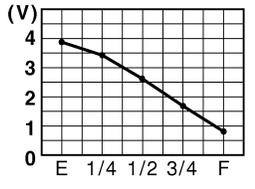
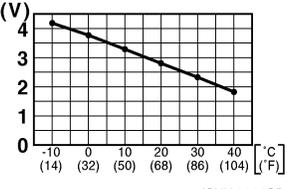
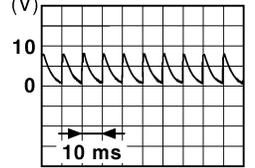
| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|--|--------|---------------------------------------|------------------|---------------------|---|--|
| + | - | Signal name | Input/ Output | | | |
| 25 (V) | Ground | Manual mode shift down signal | Input | Ignition switch ON | Selector lever down operation | 0 V |
| | | | | | Other than the above | 12 V |
| 26 (G) | Ground | Paddle shift down signal | Input | Ignition switch ON | <ul style="list-style-type: none"> Selector lever DS position Paddle shift down operation | 0 V |
| | | | | | Other than the above | 12 V |
| 27 (LG) | Ground | Communication signal (METER → AMP.) | Input | Ignition switch ON | — |  <p style="text-align: right; font-size: small;">SKIA3361E</p> |
| 28 (R) | Ground | Vehicle speed signal output (8-pulse) | Output | Ignition switch ON | Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)] | <p>NOTE: The maximum voltage varies depending on the specification (destination unit).</p>  <p style="text-align: right; font-size: small;">JSNIA0012GB</p> |
| 30 (V) | Ground | Parking brake switch signal | Input | Ignition switch ON | Parking brake ON | 0 V |
| | | | | | Parking brake OFF |  <p style="text-align: right; font-size: small;">JSNIA0007GB</p> |
| 34 (Y) | Ground | Communication signal (AMP. → LCD) | Output | Ignition switch ON | — |  <p style="text-align: right; font-size: small;">JSNIA0027GB</p> |
| 41 (V) ^{*1} (L) ^{*2} | Ground | ACC power supply | Input | Ignition switch ACC | — | Battery voltage |

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WCS

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|---|--------|---------------------------------|------------------|---------------------------|---|---|
| + | - | Signal name | Input/ Output | | | |
| 42 (Y) | Ground | Fuel level sensor signal | Input | Ignition switch ON | — |  <p style="text-align: right; font-size: small;">JSNIA0013GB</p> |
| 45 (V) | Ground | Ambient sensor signal | Input | Ignition switch ON | — |  <p style="text-align: right; font-size: small;">JSNIA0014GB</p> |
| 53 (G) ^{*1} (W) ^{*2} | Ground | Ignition signal | Input | Ignition switch ON | — | Battery voltage |
| 54 (Y) | Ground | Battery power supply | Input | Ignition switch OFF | — | Battery voltage |
| 55 (B) | Ground | Ground | — | Ignition switch ON | — | 0 V |
| 56 (L) | Ground | CAN-H | — | — | — | — |
| 57 (LG) | Ground | Brake fluid level switch signal | Input | Ignition switch ON | Brake fluid level is normal. |  <p style="text-align: right; font-size: small;">JSNIA0008GB</p> |
| | | | | | The brake fluid level is lower than the low level | 0 V |
| 58 (B) ^{*1} (BR) ^{*2} | Ground | Fuel level sensor signal ground | — | Ignition switch ON | — | 0 V |
| 61 (BR) ^{*1} (R) ^{*2} | Ground | Ambient sensor signal ground | — | Ignition switch ON | — | 0 V |
| 71 (B) ^{*1} (GR) ^{*2} | Ground | Ground | — | Ignition switch ON | — | 0 V |
| 72 (P) | Ground | CAN-L | — | — | — | — |

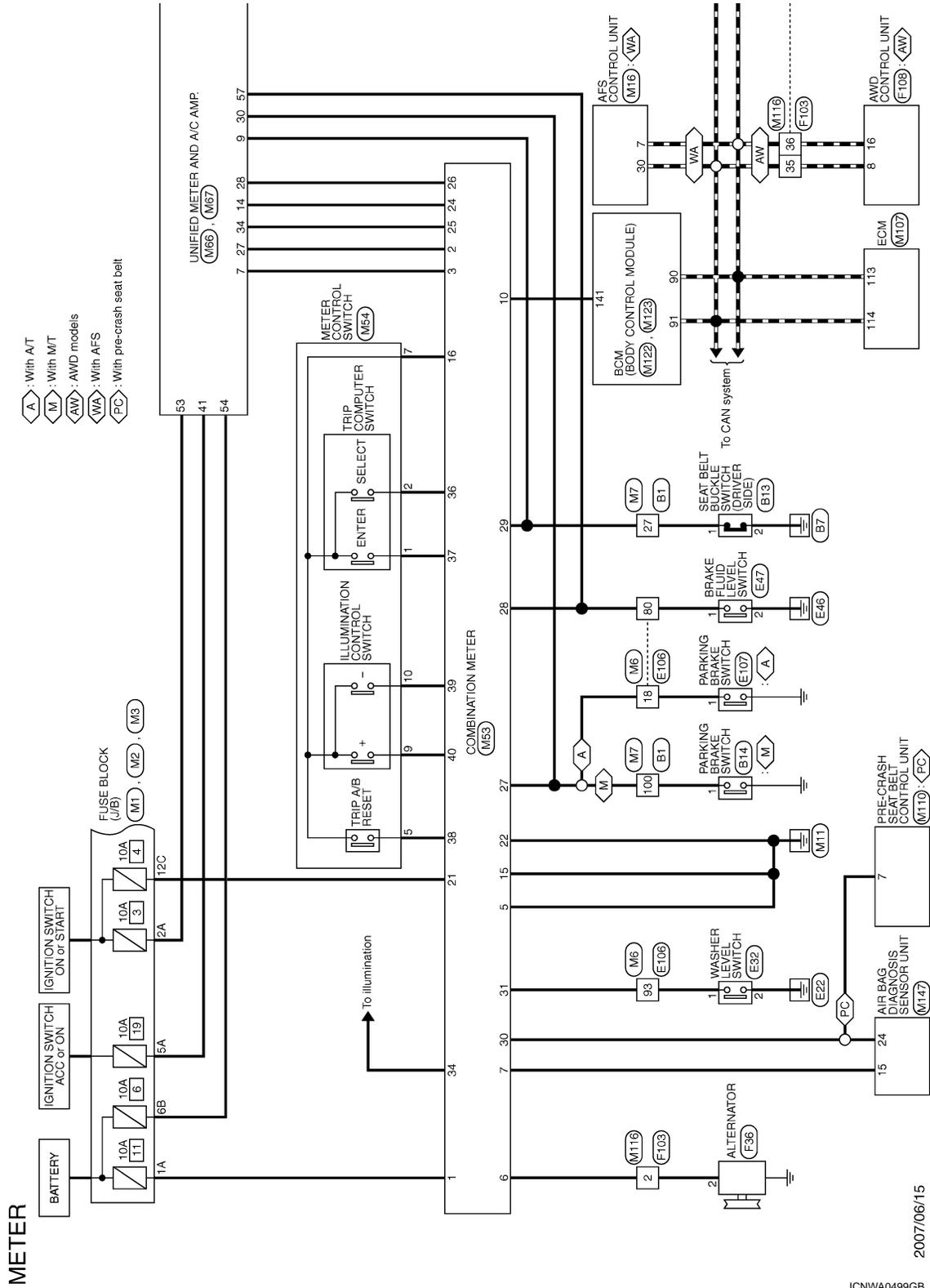
- *1: M/T models
- *2: A/T models

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

Wiring Diagram - METER -

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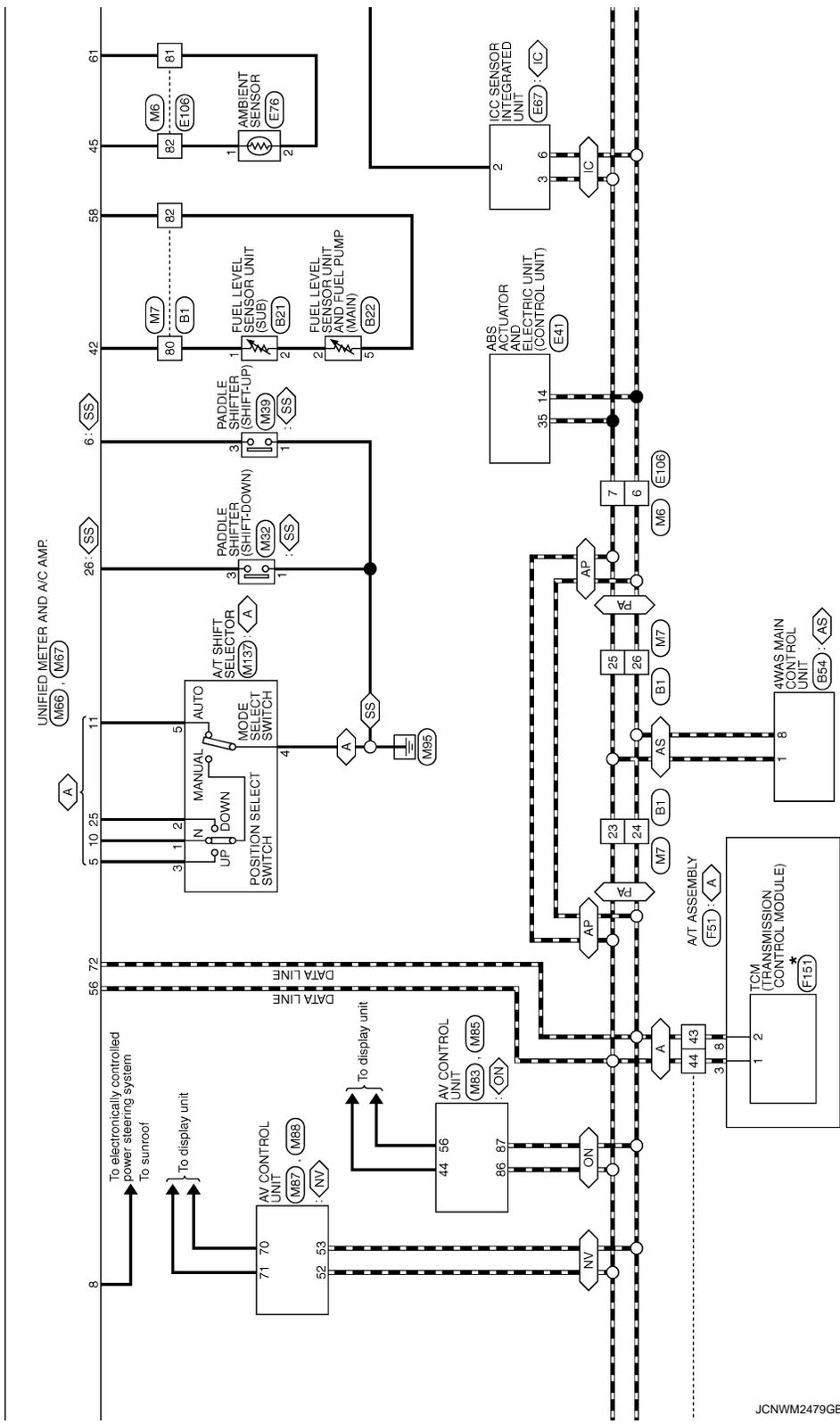
WCS

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

- A : With A/T
- NV : With NAVI
- ON : Without NAVI
- IC : With ICC
- AS : With 4WAS
- PA : With automatic drive positioner or 4WAS
- AP : Without automatic drive positioner and 4WAS
- SS : With paddle shifter switch

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

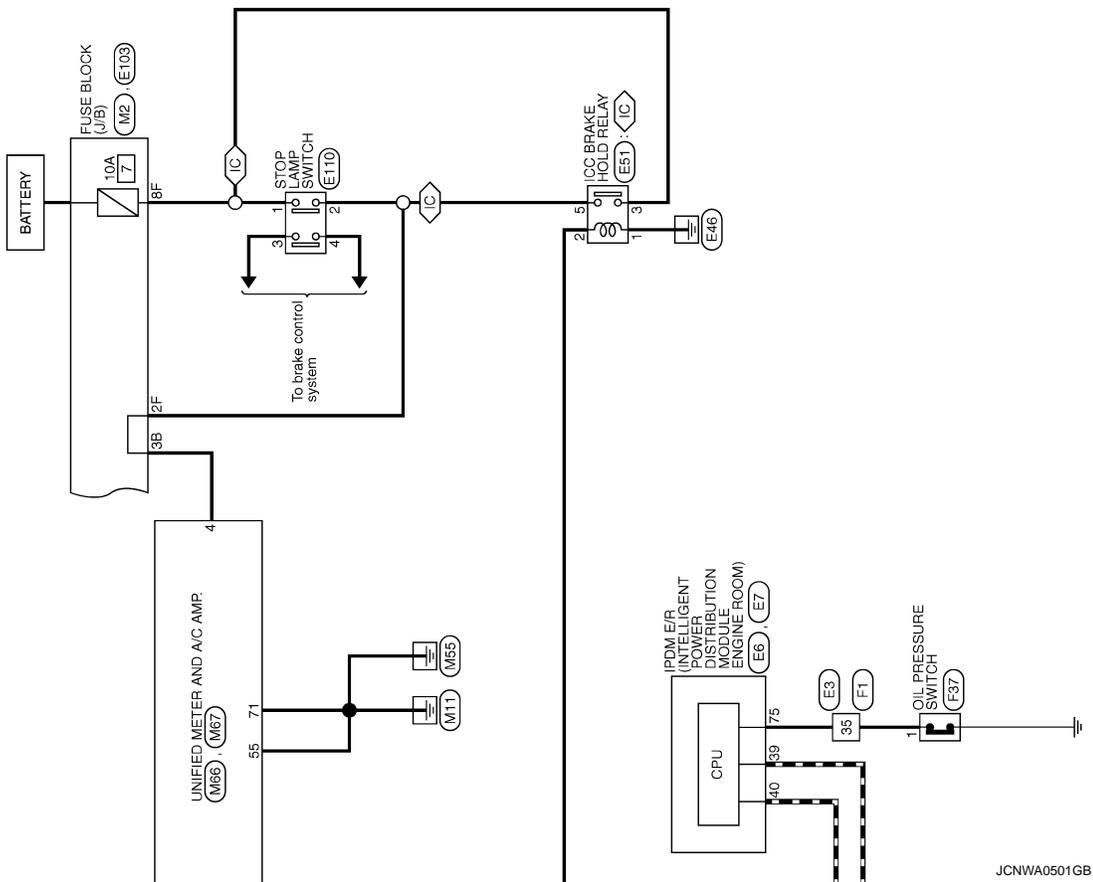


JCNWM2479GB

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

Ⓢ : With ICC



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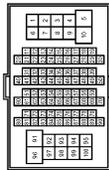
WCS

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

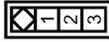
METER

| | |
|----------------|-----------------|
| Connector No. | B1 |
| Connector Name | WIRE TO WIRE |
| Connector Type | THBDFW-GS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 23 | L | - |
| 24 | P | - |
| 25 | L | - |
| 26 | P | - |
| 27 | SB | - |
| 80 | Y | - |
| 82 | B | - |
| 100 | V | - |

| | |
|----------------|---------------------------------------|
| Connector No. | B13 |
| Connector Name | SEAT BELT BUCKLE SWITCH (DRIVER SIDE) |
| Connector Type | A3BFW |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | SB | - |
| 2 | B | - |

| | |
|----------------|----------------------------|
| Connector No. | B14 |
| Connector Name | PARKING BRAKE SWITCH (M/T) |
| Connector Type | P01FB-A |



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

| | |
|----------------|------------------------------|
| Connector No. | B21 |
| Connector Name | FUEL LEVEL SENSOR UNIT (SUB) |
| Connector Type | ED2FGY-RS |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | Y | - |
| 2 | W | - |

| | |
|----------------|--|
| Connector No. | B22 |
| Connector Name | FUEL LEVEL SENSOR UNIT AND FUEL PUMP (MAN) |
| Connector Type | ED2FGY-RS |



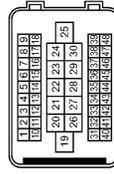
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | W | - |
| 5 | B | - |

| | |
|----------------|------------------------|
| Connector No. | B54 |
| Connector Name | 4WAS MAIN CONTROL UNIT |
| Connector Type | A3BFW-M4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | L | CAN-H |
| 8 | P | CAN-L |

| | |
|----------------|-------------------|
| Connector No. | E3 |
| Connector Name | WIRE TO WIRE |
| Connector Type | SMA38MB-RS10-SJ22 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 35 | Y | - |

| | |
|----------------|--|
| Connector No. | E6 |
| Connector Name | IPSWLE/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | TR08FPV-MH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 39 | P | - |
| 40 | L | - |

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UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

METER

| | |
|----------------|------------------|
| Connector No. | M2 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS10FY-CS |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3B | P | |
| 6B | Y | |

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



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1A | V | |
| 2A | G | |
| 5A | L | |

| | |
|----------------|-----------------------------------|
| Connector No. | F151 |
| Connector Name | TOM (TRANSMISSION CONTROL MODULE) |
| Connector Type | SPT0FBGY |



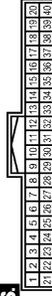
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | BR | CAN-H |
| 2 | L/Y | CAN-L |

| | |
|----------------|------------------|
| Connector No. | F108 |
| Connector Name | AWD CONTROL UNIT |
| Connector Type | TH10FW-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 8 | L | CAN-H |
| 16 | P | CAN-L |

| | |
|----------------|------------------|
| Connector No. | M16 |
| Connector Name | AFS CONTROL UNIT |
| Connector Type | TH40FW-NH |



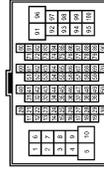
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 7 | P | CAN-L |
| 30 | L | CAN-H |

| | |
|----------------|-----------------|
| Connector No. | M7 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH60MW-CS16-TM4 |



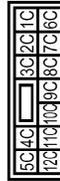
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 23 | L | |
| 24 | P | |
| 25 | L | |
| 26 | P | |
| 27 | L | |
| 80 | Y | |
| 82 | BR | [With A/T] |
| 82 | B | [With M/T] |
| 100 | O | |

| | |
|----------------|-----------------|
| Connector No. | M6 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH60MW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 6 | P | |
| 7 | L | |
| 18 | O | |
| 80 | SB | |
| 81 | R | |
| 82 | V | |
| 83 | L | |

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



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 12C | R | |

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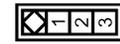
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UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

METER

| | |
|----------------|-----------------------------|
| Connector No. | M32 |
| Connector Name | PADDLE SHIFTER (SHIFT-DOWN) |
| Connector Type | A03FW |



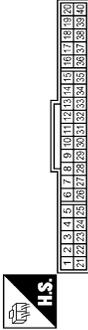
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | W | |
| 3 | G | |

| | |
|----------------|---------------------------|
| Connector No. | M39 |
| Connector Name | PADDLE SHIFTER (SHIFT-UP) |
| Connector Type | A04FW |



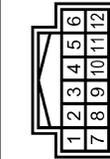
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | P | |
| 3 | O | |

| | |
|----------------|-------------------|
| Connector No. | M63 |
| Connector Name | COMBINATION METER |
| Connector Type | SAB0FW |



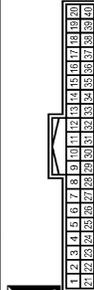
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | BAT |
| 2 | LG | COMM (METER->AMP.) |
| 3 | GR | COMM (AMP->METER) |
| 5 | B | GND |
| 6 | W | ALTERNATOR |
| 7 | LG | AIR BAG |
| 10 | G | SECURITY |
| 15 | B | GND |
| 16 | BR | METER CONTROL SW GND |
| 21 | R | IGN |
| 22 | B | GND |

| | |
|----------------|----------------------|
| Connector No. | M64 |
| Connector Name | METER CONTROL SWITCH |
| Connector Type | TH12FW-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | SB | |
| 2 | LG | |
| 5 | L | |
| 7 | BR | |
| 9 | O | |
| 10 | P | |

| | |
|----------------|----------------------------|
| Connector No. | M66 |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH40FW-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------------|
| 4 | G | STOP LAMP SW |
| 5 | L | SHIFT UP SW |
| 6 | O | PADDLE UP |
| 7 | GR | COMM (AMP->METER) |
| 8 | L | VEHICLE SPEED (2-PULSE) |
| 9 | SB | SEAT BELT BUCKLE SW (DRIVER SIDE) |
| 10 | W | MANUAL MODE SW |
| 11 | G | AUTO MODE SW |
| 14 | BR | COMM (LCD->AMP) |
| 25 | V | SHIFT DOWN SW |
| 26 | G | PADDLE DOWN |

| | | |
|----|----|-----------------------------------|
| 24 | BR | COMM (LCD->AMP.) |
| 25 | Y | COMM (AMP->LCD) |
| 26 | R | VEHICLE SPEED (8-PULSE) |
| 27 | O | PARKING BRAKE SW |
| 28 | SB | BRAKE FLUID LEVEL SW |
| 29 | L | SEAT BELT BUCKLE SW (DRIVER SIDE) |
| 30 | G | SEAT BELT |
| 31 | L | WASHER LEVEL SW |
| 34 | R | ILLUMINATION CONTROL |
| 36 | LG | SELECT SW |
| 37 | SB | ENTER SW |
| 38 | L | TRIP A/B RESET SW |
| 39 | P | ILLUMINATION CONTROL SW (-) |
| 40 | O | ILLUMINATION CONTROL SW (+) |

| | | |
|----|----|-------------------------|
| 27 | LG | COMM (METER->AMP.) |
| 28 | R | VEHICLE SPEED (8-PULSE) |
| 30 | V | PARKING BRAKE SW |
| 34 | Y | COMM (AMP->LCD) |

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

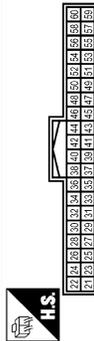
METER

| | |
|----------------|----------------------------|
| Connector No. | M67 |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH22FW-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|--------------------------------|
| 41 | L | ACC |
| 42 | Y | FUEL LEVEL SENS |
| 45 | V | AMB SENS |
| 53 | W | IGN |
| 54 | Y | BAT |
| 55 | B | GND |
| 56 | L | CAN-H |
| 57 | LG | BRAKE FLUID LEVEL SW |
| 58 | BR | FUEL LEVEL SENS GND [With A/T] |
| 58 | B | FUEL LEVEL SENS GND [With M/T] |
| 61 | R | AMB SENS GND |

| | |
|----------------|-----------------------------|
| Connector No. | M87 |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | TH40FW-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 21 | P | CAN-H |
| 52 | L | CAN-H |
| 53 | P | CAN-L |

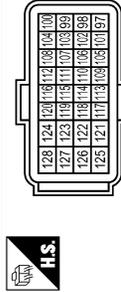
| | | |
|----|----|-------|
| 71 | GR | GND |
| 72 | P | CAN-L |

| | |
|----------------|--------------------------------|
| Connector No. | M83 |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH24FW-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 44 | L | COMM (DISP->CONT) |
| 56 | LG | COMM (CONT->DISP) |

| | |
|----------------|--------------------|
| Connector No. | M107 |
| Connector Name | ECM |
| Connector Type | PH24FGY-R2S-R-LH-Z |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 113 | P | VEHCAN-LI |
| 114 | L | VEHCAN-HI |

| | |
|----------------|-----------------------------|
| Connector No. | M88 |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | TH12FW-NH |



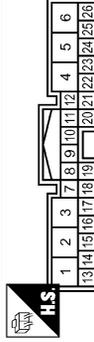
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 70 | L | COMM (CONT->DISP) |
| 71 | LG | COMM (DISP->CONT) |

| | |
|----------------|--------------------------------|
| Connector No. | M85 |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH32FW-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 86 | L | CAN-H |
| 87 | P | CAN-L |

| | |
|----------------|----------------------------------|
| Connector No. | M110 |
| Connector Name | PRE-CRASH SEAT BELT CONTROL UNIT |
| Connector Type | TH20FW-TB6 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 7 | G | INDICATOR |

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UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

METER

| | |
|----------------|--------------|
| Connector No. | M116 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK38AW-NS10 |

| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 2 | W | - |
| 35 | L | - |
| 36 | P | - |
| 43 | P | - |
| 44 | L | - |

| | |
|----------------|--------------------|
| Connector No. | M117 |
| Connector Name | A/T SHIFT SELECTOR |
| Connector Type | TH2EY-NH |

| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1 | W | - |
| 2 | V | - |
| 3 | L | - |
| 4 | BR | - |
| 5 | G | - |

| | |
|----------------|---------------------------|
| Connector No. | M123 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FS-NH |

| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 141 | G | SECURITY INDICATOR OUTPUT |

| | |
|----------------|---------------------------|
| Connector No. | M122 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH |

| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 90 | P | CAN-L |
| 91 | L | CAN-H |

| | |
|----------------|-------------------------------|
| Connector No. | M147 |
| Connector Name | AIR BAG DIAGNOSIS SENSOR UNIT |
| Connector Type | TK28FY-EX-SC |

| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 15 | LG | AIR BAG W/L |
| 24 | G | SEAT BELT |

Fail-safe

FAIL-SAFE

The unified meter and A/C amp. activates the fail-safe control if CAN communication with each unit is malfunctioning.

JCNWM2480GB

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UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

| Function | Specifications | | |
|-----------------------------|--|---|---|
| Speedometer | Reset to zero by suspending communication. | | |
| Tachometer | | | |
| Fuel gauge | | | |
| Water temperature gauge | | | |
| Illumination control | When suspending communication, change to nighttime mode. | | |
| Information display | The display turns off by suspending communication. | | |
| Buzzer | The buzzer turns off by suspending communication. | | |
| Warning lamp/indicator lamp | ABS warning lamp | The lamp turns on by suspending communication. | |
| | VDC OFF indicator lamp | | |
| | SLIP indicator lamp | | |
| | Brake warning lamp | | |
| | CRUISE warning lamp | | |
| | BA warning lamp | | |
| | AWD warning lamp | | |
| | Low tire pressure warning lamp | The lamp turns off by suspending communication. | |
| | 4WAS warning lamp | | |
| | AFS OFF indicator lamp | | The lamp blinking caused by communication malfunction |
| | High beam indicator | | The lamp turns off by suspending communication. |
| | Turn signal indicator lamp | | |
| | Oil pressure warning lamp | | |
| | Malfunction indicator lamp | | |
| | A/T CHECK warning lamp | | |
| Key warning lamp | | | |
| Master warning lamp | | | |

DTC Index

INFOID:000000002994139

| Display contents of CONSULT-III | Time | Diagnostic item is detected when ... | Refer to |
|---------------------------------|--------------|---|------------------------|
| CAN COMM CIRCUIT [U1000] | CRNT, 1 - 39 | When unified meter and A/C amp. is not transmitting or receiving CAN communication signal for 2 seconds or more. | MWI-41 |
| CONTROL UNIT (CAN) [U1010] | CRNT, 1 - 39 | When detecting error during the initial diagnosis of CAN controller of unified meter and A/C amp. | MWI-42 |
| COMM ERROR 1 [B2201] | CRNT, 1 - 39 | If a communication error is present in the communication line between unified meter and A/C amp. and combination meter for 2 seconds or more. | MWI-43 |
| COMM ERROR 2 [B2202] | CRNT, 1 - 39 | If a communication error is present in the communication line between unified meter and A/C amp. and combination meter for 2 seconds or more. | MWI-45 |
| VEHICLE SPEED [B2205] | CRNT, 1 - 39 | The abnormal vehicle speed signal is input from ABS actuator and electric unit (control unit) for 2 seconds or more. | MWI-47 |
| ENGINE SPEED [B2267] | CRNT, 1 - 39 | If ECM continuously transmits abnormal engine speed signals for 2 seconds or more. | MWI-48 |
| WATER TEMP [B2268] | CRNT, 1 - 39 | If ECM continuously transmits abnormal engine coolant temperature signals for 60 seconds or more. | MWI-49 |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000004743920

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

| Monitor Item | Condition | Value/Status |
|----------------|---|----------------------------------|
| FR WIPER HI | Other than front wiper switch HI | Off |
| | Front wiper switch HI | On |
| FR WIPER LOW | Other than front wiper switch LO | Off |
| | Front wiper switch LO | On |
| FR WASHER SW | Front washer switch OFF | Off |
| | Front washer switch ON | On |
| FR WIPER INT | Other than front wiper switch INT | Off |
| | Front wiper switch INT | On |
| FR WIPER STOP | Front wiper is not in STOP position | Off |
| | Front wiper is in STOP position | On |
| INT VOLUME | Wiper intermittent dial is in a dial position 1 - 7 | Wiper intermittent dial position |
| TURN SIGNAL R | Other than turn signal switch RH | Off |
| | Turn signal switch RH | On |
| TURN SIGNAL L | Other than turn signal switch LH | Off |
| | Turn signal switch LH | On |
| TAIL LAMP SW | Other than lighting switch 1ST and 2ND | Off |
| | Lighting switch 1ST or 2ND | On |
| HI BEAM SW | Other than lighting switch HI | Off |
| | Lighting switch HI | On |
| HEAD LAMP SW 1 | Other than lighting switch 2ND | Off |
| | Lighting switch 2ND | On |
| HEAD LAMP SW 2 | Other than lighting switch 2ND | Off |
| | Lighting switch 2ND | On |
| PASSING SW | Other than lighting switch PASS | Off |
| | Lighting switch PASS | On |
| AUTO LIGHT SW | Other than lighting switch AUTO | Off |
| | Lighting switch AUTO | On |
| FR FOG SW | Front fog lamp switch OFF | Off |
| | Front fog lamp switch ON | On |
| RR FOG SW | NOTE: The item is indicated, but not monitored. | Off |
| DOOR SW-DR | Driver door closed | Off |
| | Driver door opened | On |
| DOOR SW-AS | Passenger door closed | Off |
| | Passenger door opened | On |
| DOOR SW-RR | Rear RH door closed | Off |
| | Rear RH door opened | On |
| DOOR SW-RL | Rear LH door closed | Off |
| | Rear LH door opened | On |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status | |
|----------------|--|--------------|-----|
| DOOR SW-BK | NOTE: The item is indicated, but not monitored. | Off | A |
| CDL LOCK SW | Other than power door lock switch LOCK | Off | B |
| | Power door lock switch LOCK | On | |
| CDL UNLOCK SW | Other than power door lock switch UNLOCK | Off | C |
| | Power door lock switch UNLOCK | On | |
| KEY CYL LK-SW | Other than driver door key cylinder LOCK position | Off | D |
| | Driver door key cylinder LOCK position | On | |
| KEY CYL UN-SW | Other than driver door key cylinder UNLOCK position | Off | D |
| | Driver door key cylinder UNLOCK position | On | |
| KEY CYL SW-TR | NOTE: The item is indicated, but not monitored. | Off | E |
| HAZARD SW | Hazard switch is not pressed | Off | F |
| | Hazard switch is pressed | On | |
| REAR DEF SW | NOTE: The item is indicated, but not monitored. | Off | |
| H/L WASH SW | NOTE: The item is indicated, but not monitored. | Off | G |
| TR CANCEL SW | Trunk lid opener cancel switch OFF | Off | H |
| | Trunk lid opener cancel switch ON | On | |
| TR/BD OPEN SW | Trunk lid opener switch OFF | Off | I |
| | While the trunk lid opener switch is turned ON | On | |
| TRNK/HAT MNTR | Trunk lid closed | Off | J |
| | Trunk lid opened | On | |
| RKE-LOCK | LOCK button of Intelligent Key is not pressed | Off | J |
| | LOCK button of Intelligent Key is pressed | On | |
| RKE-UNLOCK | UNLOCK button of Intelligent Key is not pressed | Off | K |
| | UNLOCK button of Intelligent Key is pressed | On | |
| RKE-TR/BD | TRUNK OPEN button of Intelligent Key is not pressed | Off | L |
| | TRUNK OPEN button of Intelligent Key is pressed | On | |
| RKE-PANIC | PANIC button of Intelligent Key is not pressed | Off | M |
| | PANIC button of Intelligent Key is pressed | On | |
| RKE-P/W OPEN | UNLOCK button of Intelligent Key is not pressed | Off | M |
| | UNLOCK button of Intelligent Key is pressed and held | On | |
| RKE-MODE CHG | LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously | Off | WCS |
| | LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously | On | |
| OPTICAL SENSOR | Bright outside of the vehicle | Close to 5 V | O |
| | Dark outside of the vehicle | Close to 0 V | |
| REQ SW-DR | Driver door request switch is not pressed | Off | P |
| | Driver door request switch is pressed | On | |
| REQ SW-AS | Passenger door request switch is not pressed | Off | |
| | Passenger door request switch is pressed | On | |
| REQ SW-BD/TR | Trunk request switch is not pressed | Off | |
| | Trunk request switch is pressed | On | |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status |
|---------------|---|--------------|
| PUSH SW | Push-button ignition switch (push switch) is not pressed | Off |
| | Push-button ignition switch (push switch) is pressed | On |
| IGN RLY2 -F/B | Ignition switch in OFF or ACC position | Off |
| | Ignition switch in ON position | On |
| ACC RLY -F/B | Ignition switch in OFF position | Off |
| | Ignition switch in ACC or ON position | On |
| CLUCH SW | The clutch pedal is not depressed | Off |
| | The clutch pedal is depressed | On |
| BRAKE SW 1 | The brake pedal is depressed when No. 7 fuse is blown | Off |
| | The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal | On |
| BRAKE SW 2 | The brake pedal is not depressed | Off |
| | The brake pedal is depressed | On |
| DETE/CANCL SW | <ul style="list-style-type: none"> • Selector lever in P position (Except M/T models) • The clutch pedal is depressed (M/T models) | Off |
| | <ul style="list-style-type: none"> • Selector lever in any position other than P (Except M/T models) • The clutch pedal is not depressed (M/T models) | On |
| SFT PN/N SW | Selector lever in any position other than P and N | Off |
| | Selector lever in P or N position | On |
| S/L -LOCK | Steering is unlocked | Off |
| | Steering is locked | On |
| S/L -UNLOCK | Steering is locked | Off |
| | Steering is unlocked | On |
| S/L RELAY-F/B | Ignition switch in OFF or ACC position | Off |
| | Ignition switch in ON position | On |
| UNLK SEN-DR | Driver door is unlocked | Off |
| | Driver door is locked | On |
| PUSH SW -IPDM | Push-button ignition switch (push-switch) is not pressed | Off |
| | Push-button ignition switch (push-switch) is pressed | On |
| IGN RLY1 -F/B | Ignition switch in OFF or ACC position | Off |
| | Ignition switch in ON position | On |
| DETE SW -IPDM | Selector lever in any position other than P | Off |
| | Selector lever in P position | On |
| SFT PN -IPDM | <ul style="list-style-type: none"> • Selector lever in any position other than P and N (Except M/T models) • The clutch pedal is not depressed (M/T models) | Off |
| | <ul style="list-style-type: none"> • Selector lever in P or N position (Except M/T models) • The clutch pedal is depressed (M/T models) | On |
| SFT P -MET | Selector lever in any position other than P | Off |
| | Selector lever in P position | On |
| SFT N -MET | Selector lever in any position other than N | Off |
| | Selector lever in N position | On |
| ENGINE STATE | Engine stopped | Stop |
| | While the engine stalls | Stall |
| | At engine cranking | Crank |
| | Engine running | Run |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status | |
|----------------|---|--|-----|
| S/L LOCK-IPDM | Steering is unlocked | Off | A |
| | Steering is locked | On | |
| S/L UNLK-IPDM | Steering is locked | Off | B |
| | Steering is unlocked | On | |
| S/L RELAY-REQ | Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK | Off | C |
| | Steering lock system are not the LOCK condition or the changing condition from LOCK to UNLOCK | On | |
| VEH SPEED 1 | While driving | Equivalent to speedometer reading | D |
| VEH SPEED 2 | While driving | Equivalent to speedometer reading | |
| DOOR STAT-DR | Driver door is locked | LOCK | E |
| | Wait with selective UNLOCK operation (5 seconds) | READY | |
| | Driver door is unlocked | UNLK | |
| DOOR STAT-AS | Passenger door is locked | LOCK | F |
| | Wait with selective UNLOCK operation (5 seconds) | READY | |
| | Passenger door is unlocked | UNLK | |
| ID OK FLAG | Steering is locked | Reset | G |
| | Steering is unlocked | Set | |
| PRMT ENG STRT | The engine start is prohibited | Reset | H |
| | The engine start is permitted | Set | |
| PRMT RKE STRT | NOTE: The item is indicated, but not monitored. | Reset | I |
| KEY SW -SLOT | Intelligent Key is not inserted into key slot | Off | J |
| | Intelligent Key is inserted into key slot | On | |
| RKE OPE COUN1 | During the operation of Intelligent Key | Operation frequency of Intelligent Key | |
| RKE OPE COUN2 | NOTE: The item is indicated, but not monitored. | — | K |
| CONFIRM ID ALL | The key ID that the key slot receives is not recognized by any key ID registered to BCM. | Yet | L |
| | The key ID that the key slot receives is recognized by any key ID registered to BCM. | Done | |
| CONFIRM ID4 | The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM. | Yet | M |
| | The key ID that the key slot receives is recognized by the fourth key ID registered to BCM. | Done | |
| CONFIRM ID3 | The key ID that the key slot receives is not recognized by the third key ID registered to BCM. | Yet | WCS |
| | The key ID that the key slot receives is recognized by the third key ID registered to BCM. | Done | |
| CONFIRM ID2 | The key ID that the key slot receives is not recognized by the second key ID registered to BCM. | Yet | O |
| | The key ID that the key slot receives is recognized by the second key ID registered to BCM. | Done | P |
| CONFIRM ID1 | The key ID that the key slot receives is not recognized by the first key ID registered to BCM. | Yet | |
| | The key ID that the key slot receives is recognized by the first key ID registered to BCM. | Done | |
| TP 4 | The ID of fourth Intelligent Key is not registered to BCM | Yet | |
| | The ID of fourth Intelligent Key is registered to BCM | Done | |

BCM (BODY CONTROL MODULE)

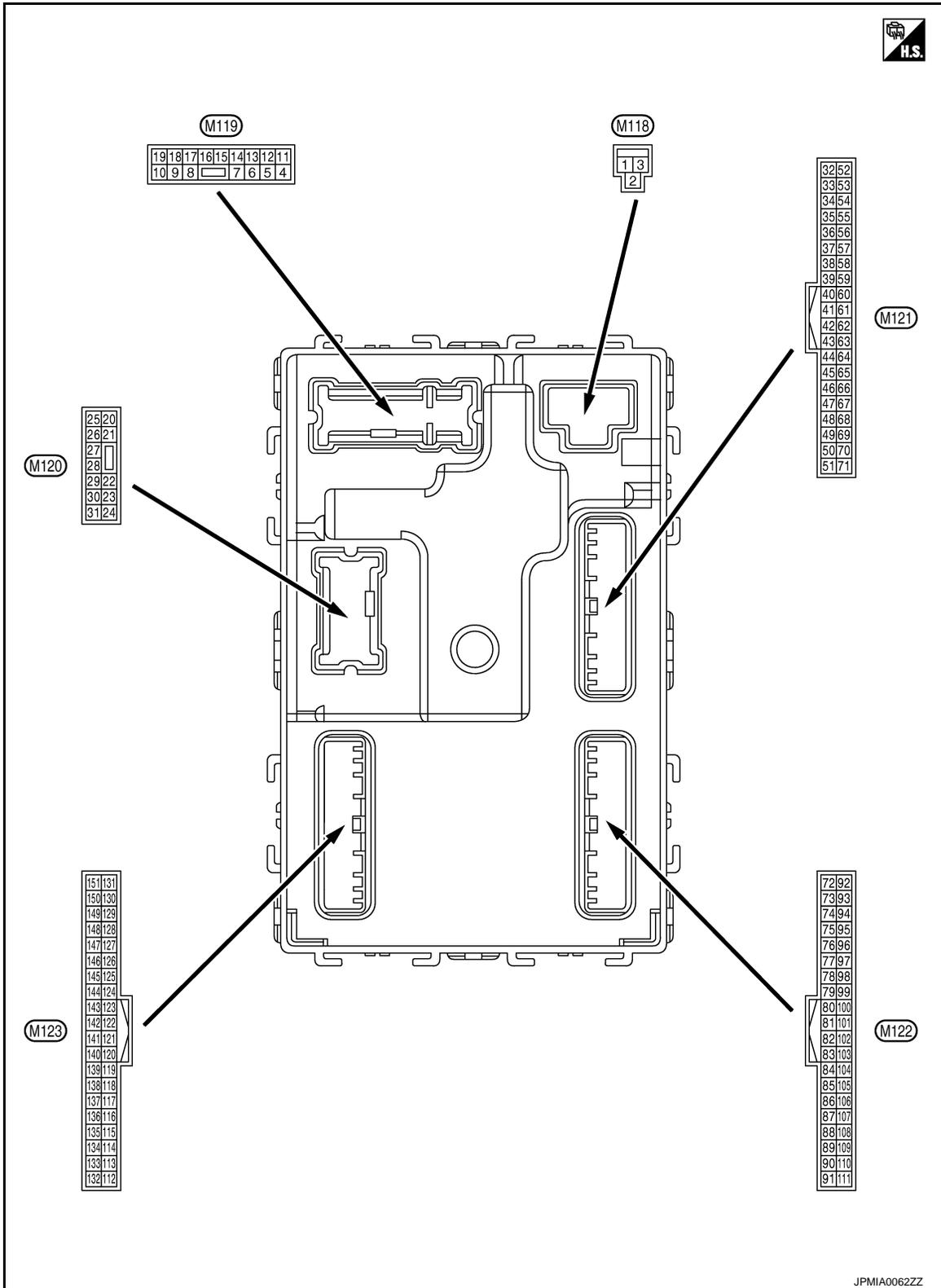
< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status |
|--------------|--|-------------------------------|
| TP 3 | The ID of third Intelligent Key is not registered to BCM | Yet |
| | The ID of third Intelligent Key is registered to BCM | Done |
| TP 2 | The ID of second Intelligent Key is not registered to BCM | Yet |
| | The ID of second Intelligent Key is registered to BCM | Done |
| TP 1 | The ID of first Intelligent Key is not registered to BCM | Yet |
| | The ID of first Intelligent Key is registered to BCM | Done |
| AIR PRESS FL | Ignition switch ON (Only when the signal from the transmitter is received) | Air pressure of front LH tire |
| AIR PRESS FR | Ignition switch ON (Only when the signal from the transmitter is received) | Air pressure of front RH tire |
| AIR PRESS RR | Ignition switch ON (Only when the signal from the transmitter is received) | Air pressure of rear RH tire |
| AIR PRESS RL | Ignition switch ON (Only when the signal from the transmitter is received) | Air pressure of rear LH tire |
| ID REGST FL1 | ID of front LH tire transmitter is registered | Done |
| | ID of front LH tire transmitter is not registered | Yet |
| ID REGST FR1 | ID of front RH tire transmitter is registered | Done |
| | ID of front RH tire transmitter is not registered | Yet |
| ID REGST RR1 | ID of rear RH tire transmitter is registered | Done |
| | ID of rear RH tire transmitter is not registered | Yet |
| ID REGST RL1 | ID of rear LH tire transmitter is registered | Done |
| | ID of rear LH tire transmitter is not registered | Yet |
| WARNING LAMP | Tire pressure indicator OFF | Off |
| | Tire pressure indicator ON | On |
| BUZZER | Tire pressure warning alarm is not sounding | Off |
| | Tire pressure warning alarm is sounding | On |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT



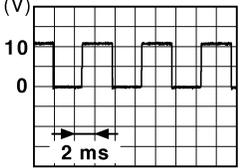
PHYSICAL VALUES

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BCM (BODY CONTROL MODULE)

< 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 (Y) | Ground | P/W power supply (BAT) | Output | Ignition switch OFF | | Battery voltage |
| 3 (O) | Ground | P/W power supply (RAP) | Output | Ignition switch ON | | Battery voltage |
| 4 (LG) | Ground | Interior room lamp power supply | Output | After passing the interior room lamp battery saver operation time | | 0 V |
| | | | | Any other time after passing the interior room lamp battery saver operation time | | Battery voltage |
| 5 (V) | Ground | Passenger door UN- LOCK | Output | Passenger door | UNLOCK (Actuator is activated) | Battery voltage |
| | | | | | Other than UNLOCK (Actuator is not activated) | 0 V |
| 7 (Y) | Ground | Step lamp | Output | Step lamp | ON | 0 V |
| | | | | | OFF | Battery voltage |
| 8 (V) | Ground | All doors, fuel lid LOCK | Output | All doors, fuel lid | LOCK (Actuator is activated) | Battery voltage |
| | | | | | Other than LOCK (Actuator is not activated) | 0 V |
| 9 (G) | Ground | Driver door, fuel lid UNLOCK | Output | Driver door, fuel lid | UNLOCK (Actuator is activated) | Battery voltage |
| | | | | | Other than UNLOCK (Actuator is not activated) | 0 V |
| 10 (BR) | Ground | Rear RH door and rear LH door UN- LOCK | Output | Rear RH door and rear LH door | UNLOCK (Actuator is activated) | Battery voltage |
| | | | | | Other than UNLOCK (Actuator is not activated) | 0 V |
| 11 (R) | Ground | Battery power supply | Input | Ignition switch OFF | | Battery voltage |
| 13 (B) | Ground | Ground | — | Ignition switch ON | | 0 V |
| 14 (W) | Ground | Push-button ignition switch illumination ground | Output | Tail lamp | OFF | 0 V |
| | | | | | ON | <p>NOTE: When the illumination brightening/dimming level is in the neutral position</p>  <p style="text-align: right; font-size: small;">JSNIA0010GB</p> |
| 15 (Y) | Ground | ACC indicator lamp | Output | Ignition switch | OFF | Battery voltage |
| | | | | | ACC or ON | 0 V |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|-------------------------|------------------|--|---|
| + | - | Signal name | Input/ Output | | |
| 17 (W) | Ground | Turn signal (Front RH) | Output | Ignition switch ON | Turn signal switch OFF |
| | | | | Turn signal switch RH | 0 V |
| | | | | | <p style="text-align: center;">6.5 V</p> |
| 18 (O) | Ground | Turn signal (Front LH) | Output | Ignition switch ON | Turn signal switch OFF |
| | | | | Turn signal switch LH | 0 V |
| | | | | | <p style="text-align: center;">6.5 V</p> |
| 19 (V) | Ground | Room lamp timer control | Output | Interior room lamp | OFF |
| | | | | ON | Battery voltage |
| 20 (V) | Ground | Turn signal (Rear RH) | Output | Ignition switch ON | Turn signal switch OFF |
| | | | | Turn signal switch RH | 0 V |
| | | | | | <p style="text-align: center;">6.5 V</p> |
| 23 (G) | Ground | Trunk lid opening | Output | Trunk lid | Open (Trunk lid opener actuator is activated) |
| | | | | Close (Trunk lid opener actuator is not activated) | Battery voltage |
| | | | | | 0 V |
| 25 (G) | Ground | Turn signal (Rear LH) | Output | Ignition switch ON | Turn signal switch OFF |
| | | | | Turn signal switch LH | 0 V |
| | | | | | <p style="text-align: center;">6.5 V</p> |
| 30 (R) | Ground | Trunk room lamp | Output | Trunk room lamp | ON |
| | | | | OFF | Battery voltage |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|------------------------------|------------------|--|--------------------|
| + | - | Signal name | Input/ Output | | |
| 34 (SB) | Ground | Trunk room antenna 1 (-) | Output | Ignition switch OFF | <p>JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the passenger compart- ment | <p>JMKIA0063GB</p> |
| 35 (V) | Ground | Trunk room antenna 1 (+) | Output | Ignition switch OFF | <p>JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the passenger compart- ment | <p>JMKIA0063GB</p> |
| 38 (B) | Ground | Rear bumper anten- na (-) | Output | When the trunk lid request switch is operated with ignition switch OFF | <p>JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the antenna detection area | <p>JMKIA0063GB</p> |

BCM (BODY CONTROL MODULE)

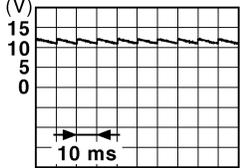
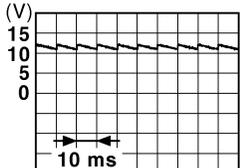
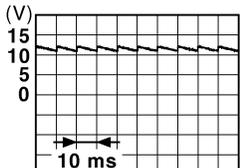
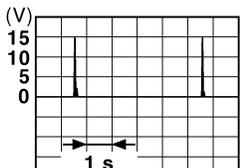
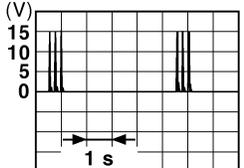
< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|-----------------------------------|------------------|---|--|
| + | - | Signal name | Input/ Output | | |
| 39 (W) | Ground | Rear bumper antenna (+) | Output | When Intelligent Key is in the antenna detection area | <p style="text-align: right; font-size: small;">JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the antenna detection area | <p style="text-align: right; font-size: small;">JMKIA0063GB</p> |
| 47 (Y) | Ground | Ignition relay (IPDM E/R) control | Output | Ignition switch | OFF or ACC Battery voltage ON 0 V |
| | | | | OFF (Trunk is closed) ON (Trunk is open) | 11.8 V 0 V |
| 50 (R) | Ground | Trunk room lamp switch | Input | Trunk room lamp switch | <p style="text-align: right; font-size: small;">JPMIA0011GB</p> |
| | | | | OFF (Trunk is closed) ON (Trunk is open) | 11.8 V 0 V |
| 52 (SB) | Ground | Starter relay control | Output | Ignition switch OFF (M/T models) | When the clutch pedal is depressed Battery voltage When the clutch pedal is not depressed 0 V |
| | | | | Ignition switch ON (Except M/T models) | When selector lever is in P or N position and the brake is depressed Battery voltage When selector lever is in P or N position and the brake is not depressed 0 V |
| | | | | | 0 V |
| | | | | 0 V | |
| 61 (W) | Ground | Trunk request switch | Input | Trunk request switch | ON (Pressed) 0 V OFF (Not pressed) <p style="text-align: right; font-size: small;">JPMIA0016GB</p> |
| | | | | 1.0 V | |
| 64 (V) | Ground | Request switch buzzer | Output | Request switch buzzer | Sounding 0 V Not sounding Battery voltage |
| | | | | Battery voltage | |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|--|------------------|----------------------------|--|---|
| + | - | Signal name | Input/ Output | | | |
| 67 (GR) | Ground | Trunk lid opener switch | Input | Trunk lid opener switch | Pressed | 0 V |
| | | | | | Not pressed |  <p style="text-align: right; font-size: small;">JPMIA0011GB 11.8 V</p> |
| 68 (BR) | Ground | Rear RH door switch | Input | Rear RH door switch | OFF (When rear RH door closes) |  <p style="text-align: right; font-size: small;">JPMIA0011GB 11.8 V</p> |
| | | | | | ON (When rear RH door opens) | 0 V |
| 69 (R) | Ground | Rear LH door switch | Input | Rear LH door switch | OFF (When rear LH door closes) |  <p style="text-align: right; font-size: small;">JPMIA0011GB 11.8 V</p> |
| | | | | | ON (When rear LH door opens) | 0 V |
| 72 (R) | Ground | Room antenna 2 (-) (Center console) | Output | Ignition switch OFF | When Intelligent Key is in the passenger compart- ment |  <p style="text-align: right; font-size: small;">JMKIA0062GB</p> |
| | | | | | When Intelligent Key is not in the passenger compart- ment |  <p style="text-align: right; font-size: small;">JMKIA0063GB</p> |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|--|------------------|---|--------------------|
| + | - | Signal name | Input/ Output | | |
| 73 (G) | Ground | Room antenna 2 (+) (Center console) | Output | Ignition switch OFF | <p>JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the passenger compart- ment | <p>JMKIA0063GB</p> |
| 74 (SB) | Ground | Passenger door an- tenna (-) | Output | When the pas- senger door re- quest switch is operated with ig- nition switch OFF | <p>JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the antenna detection area | <p>JMKIA0063GB</p> |
| 75 (BR) | Ground | Passenger door an- tenna (+) | Output | When Intelligent Key is in the antenna detection area | <p>JMKIA0062GB</p> |
| | | | | When the pas- senger door re- quest switch is operated with ig- nition switch OFF | <p>JMKIA0063GB</p> |

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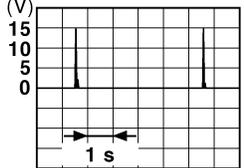
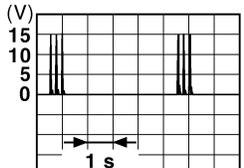
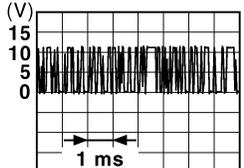
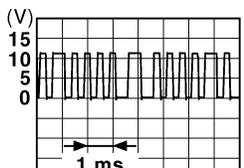
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|--|------------------|--|---|
| + | - | Signal name | Input/ Output | | |
| 76 (V) | Ground | Driver door antenna (-) | Output | When Intelligent Key is in the antenna detection area | <p style="text-align: right; font-size: small;">JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the antenna detection area | <p style="text-align: right; font-size: small;">JMKIA0063GB</p> |
| 77 (LG) | Ground | Driver door antenna (+) | Output | When Intelligent Key is in the antenna detection area | <p style="text-align: right; font-size: small;">JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the antenna detection area | <p style="text-align: right; font-size: small;">JMKIA0063GB</p> |
| 78 (Y) | Ground | Room antenna (-) (In- strument panel) | Output | Ignition switch OFF | <p style="text-align: right; font-size: small;">JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the passenger compart- ment | <p style="text-align: right; font-size: small;">JMKIA0063GB</p> |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

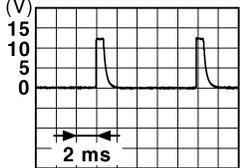
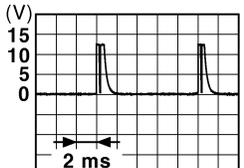
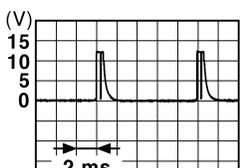
| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|--|------------------|---|---|---|
| | | Signal name | Input/ Output | | | |
| + | - | | | | | |
| 79 (BR) | Ground | Room antenna (+) (Instrument panel) | Output | Ignition switch OFF | When Intelligent Key is in the passenger compart- ment |  <p style="text-align: right; font-size: small;">JMKIA0062GB</p> |
| | | | | | When Intelligent Key is not in the passenger compart- ment |  <p style="text-align: right; font-size: small;">JMKIA0063GB</p> |
| 80 (GR) | Ground | NATS antenna amp (Built in key slot) | Input/ Output | During waiting | Ignition switch is pressed while inserting the Intelli- gent Key into the key slot. | Just after pressing ignition switch. Pointer of tester should move. |
| 81 (W) | Ground | NATS antenna amp (Built in key slot) | Input/ Output | During waiting | Ignition switch is pressed while inserting the Intelli- gent Key into the key slot. | Just after pressing ignition switch. Pointer of tester should move. |
| 82 (R) | Ground | Ignition relay [fuse block (J/B)] control | Output | Ignition switch | OFF or ACC | 0 V |
| | | | | | ON | Battery voltage |
| 83 (Y) | Ground | Remote keyless entry receiver signal | Input/ Output | During waiting |  <p style="text-align: right; font-size: small;">JMKIA0064GB</p> | |
| | | | | When operating either button on Intelligent Key |  <p style="text-align: right; font-size: small;">JMKIA0065GB</p> | |

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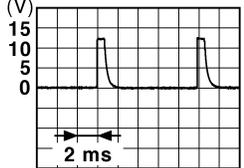
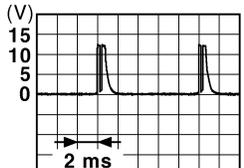
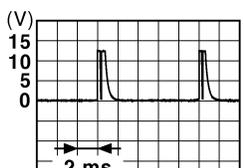
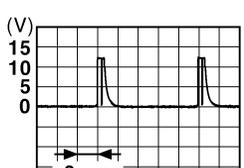
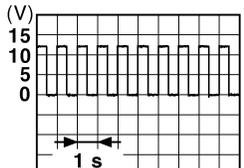
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|-------------------------------|------------------|-----------------------|---|
| + | - | Signal name | Input/ Output | | |
| 87 (BR) | Ground | Combination switch INPUT 5 | Input | Combination switch | All switch OFF (Wiper intermittent dial 4) <div style="text-align: right;">  <p>JPMIA0041GB 1.4 V</p> </div> |
| | | | | | Front fog lamp switch ON (Wiper intermittent dial 4) <div style="text-align: right;">  <p>JPMIA0037GB 1.3 V</p> </div> |
| | | | | | Any of the conditions below with all switch OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7 <div style="text-align: right;">  <p>JPMIA0040GB 1.3 V</p> </div> |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|--|------------------|---|--|--|
| | | Signal name | Input/ Output | | | |
| + | - | | | | | |
| 88 (V) | Ground | Combination switch INPUT 3 | Input | Combination switch | All switch OFF (Wiper intermittent dial 4) |  <small>JPMIA0041GB</small> 1.4 V |
| | | | | | Lighting switch HI (Wiper intermittent dial 4) |  <small>JPMIA0036GB</small> 1.3 V |
| | | | | | Lighting switch 2ND (Wiper intermittent dial 4) |  <small>JPMIA0037GB</small> 1.3 V |
| | | | | | Any of the conditions below with all switch OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 |  <small>JPMIA0040GB</small> 1.3 V |
| 89 (BR) | Ground | Push-button ignition switch (Push switch) | Input | Push-button igni- tion switch (push switch) | Pressed | 0 V |
| | | | | | Not pressed | Battery voltage |
| 90 (P) | Ground | CAN - L | Input/ Output | — | — | |
| 91 (L) | Ground | CAN - H | Input/ Output | — | — | |
| 92 (LG) | Ground | Key slot illumination | Output | Key slot illumina- tion | OFF | 0 V |
| | | | | | Blinking |  <small>JPMIA0015GB</small> 6.5 V |
| | | | | | ON | Battery voltage |

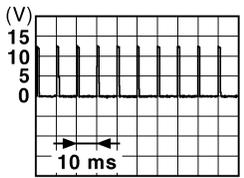
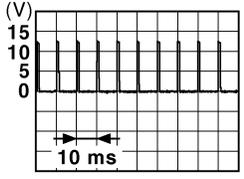
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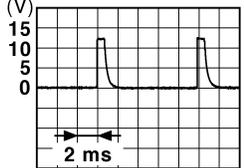
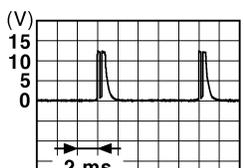
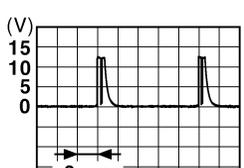
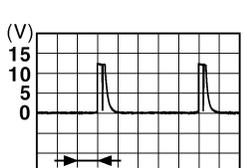
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|---|------------------|-------------------------------|------------------------------------|--|
| | | Signal name | Input/ Output | | | |
| + | - | | | | | |
| 93 (V) | Ground | ON indicator lamp | Output | Ignition switch | OFF or ACC | 0 V |
| | | | | | ON | Battery voltage |
| 95 (O) | Ground | ACC relay control | Output | Ignition switch | OFF | 0 V |
| | | | | | ACC or ON | Battery voltage |
| 96 (GR) | Ground | A/T device (Detention switch) power supply | Output | — | | Battery voltage |
| 97 (L) | Ground | Steering lock condition No. 1 | Input | Steering lock | LOCK status | 0 V |
| | | | | | UNLOCK status | Battery voltage |
| 98 (P) | Ground | Steering lock condition No. 2 | Input | Steering lock | LOCK status | Battery voltage |
| | | | | | UNLOCK status | 0 V |
| 99 (R) | Ground | Selector lever P position switch | Input | Selector lever | P position | 0 V |
| | | | | | Any position other than P | Battery voltage |
| | | ASCD clutch switch (M/T models without ICC) | | ASCD clutch switch | OFF (Clutch pedal is depressed) | 0 V |
| | | | | | ON (Clutch pedal is not depressed) | Battery voltage |
| | | ICC clutch switch (M/T models with ICC) | | ICC clutch switch | OFF (Clutch pedal is depressed) | 0 V |
| | | | | | ON (Clutch pedal is not depressed) | Battery voltage |
| 100 (G) | Ground | Passenger door request switch | Input | Passenger door request switch | ON (Pressed) | 0 V |
| | | | | | OFF (Not pressed) |  <p style="text-align: right; font-size: small;">JPMIA0016GB</p> <p style="text-align: center;">1.0 V</p> |
| 101 (SB) | Ground | Driver door request switch | Input | Driver door request switch | ON (Pressed) | 0 V |
| | | | | | OFF (Not pressed) |  <p style="text-align: right; font-size: small;">JPMIA0016GB</p> <p style="text-align: center;">1.0 V</p> |
| 102 (O) | Ground | Blower fan motor relay control | Output | Ignition switch | OFF or ACC | 0 V |
| | | | | | ON | Battery voltage |
| 103 (LG) | Ground | Remote keyless entry receiver power supply | Output | Ignition switch OFF | | Battery voltage |
| 106 (W) | Ground | Steering wheel lock unit power supply | Output | Ignition switch | OFF or ACC | Battery voltage |
| | | | | | ON | 0 V |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

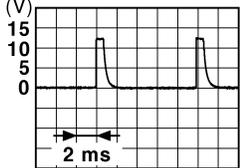
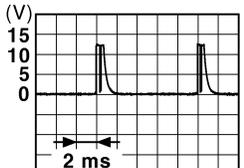
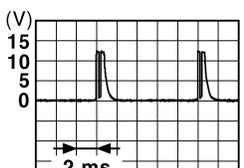
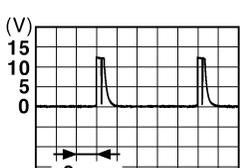
| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|-------------------------------|------------------|--|------------------------|---|
| | | Signal name | Input/ Output | | | |
| + | - | | | | | |
| 107 (LG) | Ground | Combination switch INPUT 1 | Input | Combination switch (Wiper intermittent dial 4) | All switch OFF |  <p style="text-align: right;">1.4 V</p> |
| | | | | | Turn signal switch LH |  <p style="text-align: right;">1.3 V</p> |
| | | | | | Turn signal switch RH |  <p style="text-align: right;">1.3 V</p> |
| | | | | | Front wiper switch LO |  <p style="text-align: right;">1.3 V</p> |
| | | | | | Front washer switch ON |  <p style="text-align: right;">1.3 V</p> |

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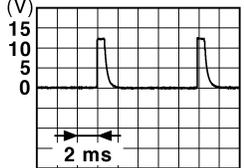
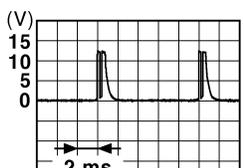
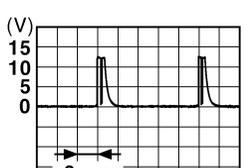
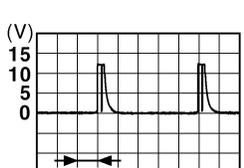
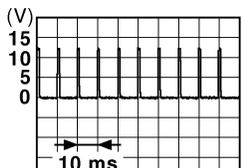
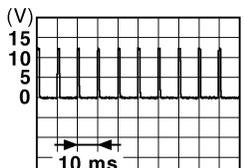
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|-------------------------------|------------------|-----------------------|--|--|
| | | Signal name | Input/ Output | | | |
| + | - | | | | | |
| 108 (R) | Ground | Combination switch INPUT 4 | Input | Combination switch | All switch OFF (Wiper intermittent dial 4) |  <p style="text-align: right; font-size: small;">JPMIA0041GB</p> <p style="text-align: center;">1.4 V</p> |
| | | | | | Lighting switch AUTO (Wiper intermittent dial 4) |  <p style="text-align: right; font-size: small;">JPMIA0038GB</p> <p style="text-align: center;">1.3 V</p> |
| | | | | | Lighting switch 1ST (Wiper intermittent dial 4) |  <p style="text-align: right; font-size: small;">JPMIA0036GB</p> <p style="text-align: center;">1.3 V</p> |
| | | | | | Any of the conditions below with all switch OFF <ul style="list-style-type: none"> Wiper intermittent dial 1 Wiper intermittent dial 5 Wiper intermittent dial 6 |  <p style="text-align: right; font-size: small;">JPMIA0039GB</p> <p style="text-align: center;">1.3 V</p> |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|-------------------------------|------------------|--|--|--|
| + | - | Signal name | Input/ Output | | | |
| 109 (Y) | Ground | Combination switch INPUT 2 | Input | Combination switch (Wiper intermittent dial 4) | All switch OFF |  1.4 V |
| | | | | | Lighting switch PASS |  1.3 V |
| | | | | | Lighting switch 2ND |  1.3 V |
| | | | | | Front wiper switch INT |  1.3 V |
| | | | | | Front wiper switch HI |  1.3 V |
| | | | | | Pressed | 0 V |
| 110 (G) | Ground | Hazard switch | Input | Hazard switch |  1.1 V | |
| | | | | Not pressed |  1.1 V | |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|--|------------------|--|--|---|
| + | - | Signal name | Input/ Output | | | |
| 111 (Y) | Ground | Steering lock unit communication | Input/ Output | Steering lock | LOCK status | Battery voltage |
| | | | | | LOCK or UNLOCK | <p style="text-align: right; font-size: small;">JMKIA0066GB</p> |
| | | | | | For 15 seconds after UN- LOCK | Battery voltage |
| | | | | | 15 seconds or later after UNLOCK | 0 V |
| 113 (P) | Ground | Optical sensor signal | Input | Ignition switch ON | When bright outside of the vehicle | Close to 5 V |
| | | | | When dark outside of the vehicle | Close to 0 V | |
| 114 (R) | Ground | Clutch interlock switch | Input | Clutch interlock switch | OFF (Clutch pedal is not depressed) | 0 V |
| | | | | | ON (Clutch pedal is de- pressed) | Battery voltage |
| 116 (SB) | Ground | Stop lamp switch 1 | Input | — | Battery voltage | |
| 118 (P) | Ground | Stop lamp switch 2 | Input | Stop lamp switch | OFF (Brake pedal is not depressed) | 0 V |
| | | | | | ON (Brake pedal is de- pressed) | Battery voltage |
| | | | | ICC brake hold relay (With ICC) | OFF | 0 V |
| | | | | | ON | Battery voltage |
| 119 (SB) | Ground | Front door lock as- sembly driver side (Unlock sensor) | Input | Driver door | LOCK status | <p style="text-align: right; font-size: small;">JPMIA0011GB</p> <p style="text-align: center;">11.8 V</p> |
| | | | | | UNLOCK status | 0 V |
| | | | | | UNLOCK status | 0 V |
| 121 (R) | Ground | Key slot switch | Input | When Intelligent Key is inserted into key slot | Battery voltage | |
| | | | | When Intelligent Key is not inserted into key slot | 0 V | |
| 122 (V) | Ground | ACC feedback signal | Input | Ignition switch | OFF | 0 V |
| | | | | ACC or ON | Battery voltage | |
| 123 (W) | Ground | IGN feedback signal | Input | Ignition switch | OFF or ACC | 0 V |
| | | | | ON | Battery voltage | |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

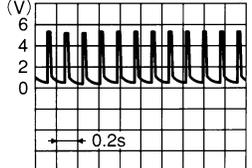
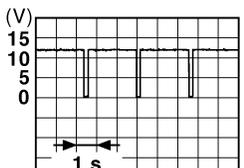
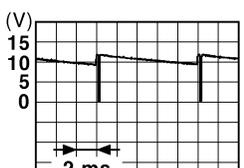
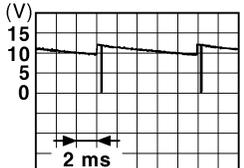
| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|--|------------------|--|---|
| + | - | Signal name | Input/ Output | | |
| 124 (LG) | Ground | Passenger door switch | Input | Passenger door switch | <p style="text-align: right;">JPMIA0011GB 11.8 V</p> |
| | | | | OFF (When passenger door closes) | 0 V |
| 129 (O) | Ground | Trunk lid opener cancel switch | Input | Trunk lid opener cancel switch | <p style="text-align: right;">JPMIA0012GB 1.1 V</p> |
| | | | | CANCEL | 0 V |
| 132 (V) | Ground | Power window switch communication | Input/ Output | Ignition switch ON | <p style="text-align: right;">JPMIA0013GB 10.2 V</p> |
| | | | | Ignition switch OFF or ACC | 0 V |
| 133 (W) | Ground | Push-button ignition switch illumination | Output | Push-button ignition switch illumination | <p>NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level.</p> <p style="text-align: right;">JPMIA0159GB</p> |
| | | | | ON (When tail lamps OFF) | 5.5 V |
| | | | | ON (When tail lamps ON) | 0 V |
| 134 (GR) | Ground | LOCK indicator lamp | Output | LOCK indicator lamp | ON |
| | | | | OFF | Battery voltage |
| 137 (O) | Ground | Receiver and sensor ground | Input | Ignition switch ON | 0 V |
| 138 (V) | Ground | Receiver and sensor power supply output | Output | Ignition switch | OFF |
| | | | | ACC or ON | 5.0 V |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|------------------------------------|------------------|---|---|
| + | - | Signal name | Input/ Output | | |
| 139 (L) | Ground | Tire pressure receiver signal | Input/ Output | Ignition switch ON |  <p style="text-align: right;">OCC3881D</p> |
| | | | | When receiving the signal from the transmitter |  <p style="text-align: right;">OCC3880D</p> |
| 140 (GR) | Ground | Selector lever P/N position signal | Input | Selector lever | P or N position 12.0 V Except P and N positions 0 V |
| | | | | ON | 0 V |
| 141 (G) | Ground | Security indicator signal | Output | Security indicator | Blinking  <p style="text-align: right;">JPMA0014GB</p> 11.3 V |
| | | | | OFF | Battery voltage |
| 142 (O) | Ground | Combination switch OUTPUT 5 | Output | Combination switch (Wiper intermittent dial 4) | All switch OFF 0 V Lighting switch 1ST Lighting switch HI Lighting switch 2ND  <p style="text-align: right;">JPMA0031GB</p> 10.7 V |
| | | | | Turn signal switch RH | |
| | | | | | |
| | | | | | |
| 143 (P) | Ground | Combination switch OUTPUT 1 | Output | Combination switch | All switch OFF (Wiper intermittent dial 4) 0 V Front wiper switch HI (Wiper intermittent dial 4)  <p style="text-align: right;">JPMA0032GB</p> 10.7 V |
| | | | | Any of the conditions below with all switch OFF | |
| | | | | <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7 | |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | | |
|------------------------------|--------|---|------------------|---|---|---|--------|
| | | Signal name | Input/ Output | | | | |
| + | - | | | | | | |
| 144 (G) | Ground | Combination switch OUTPUT 2 | Output | Combination switch | All switch OFF (Wiper intermittent dial 4) | 0 V | |
| | | | | | Front washer switch ON (Wiper intermittent dial 4) | <p style="text-align: right; font-size: small;">JPMAI0033GB</p> | |
| | | | | | Any of the conditions below with all switch OFF | | 10.7 V |
| | | | | | | | |
| 145 (L) | Ground | Combination switch OUTPUT 3 | Output | Combination switch (Wiper intermit- tent dial 4) | All switch OFF | 0 V | |
| | | | | | Front wiper switch INT | <p style="text-align: right; font-size: small;">JPMAI0034GB</p> | |
| | | | | | Front wiper switch LO | | 10.7 V |
| | | | | | Lighting switch AUTO | | |
| 146 (SB) | Ground | Combination switch OUTPUT 4 | Output | Combination switch (Wiper intermit- tent dial 4) | All switch OFF | 0 V | |
| | | | | | Front fog lamp switch ON | <p style="text-align: right; font-size: small;">JPMAI0035GB</p> | |
| | | | | | Lighting switch 2ND | | 10.7 V |
| | | | | | Lighting switch PASS | | |
| | | | | | Turn signal switch LH | | |
| 149 (W) | Ground | Tire pressure warn- ing check switch | Input | — | 5 V | | |
| 150 (GR) | Ground | Driver door switch | Input | Driver door switch | OFF (When driver door closes) | <p style="text-align: right; font-size: small;">JPMAI0011GB</p> | |
| | | | | | ON (When driver door opens) | 0 V | |
| 151 (G) | Ground | Rear window defog- ger relay | Output | Rear window de- fogger | Active | 0 V | |
| | | | | | Not activated | Battery voltage | |

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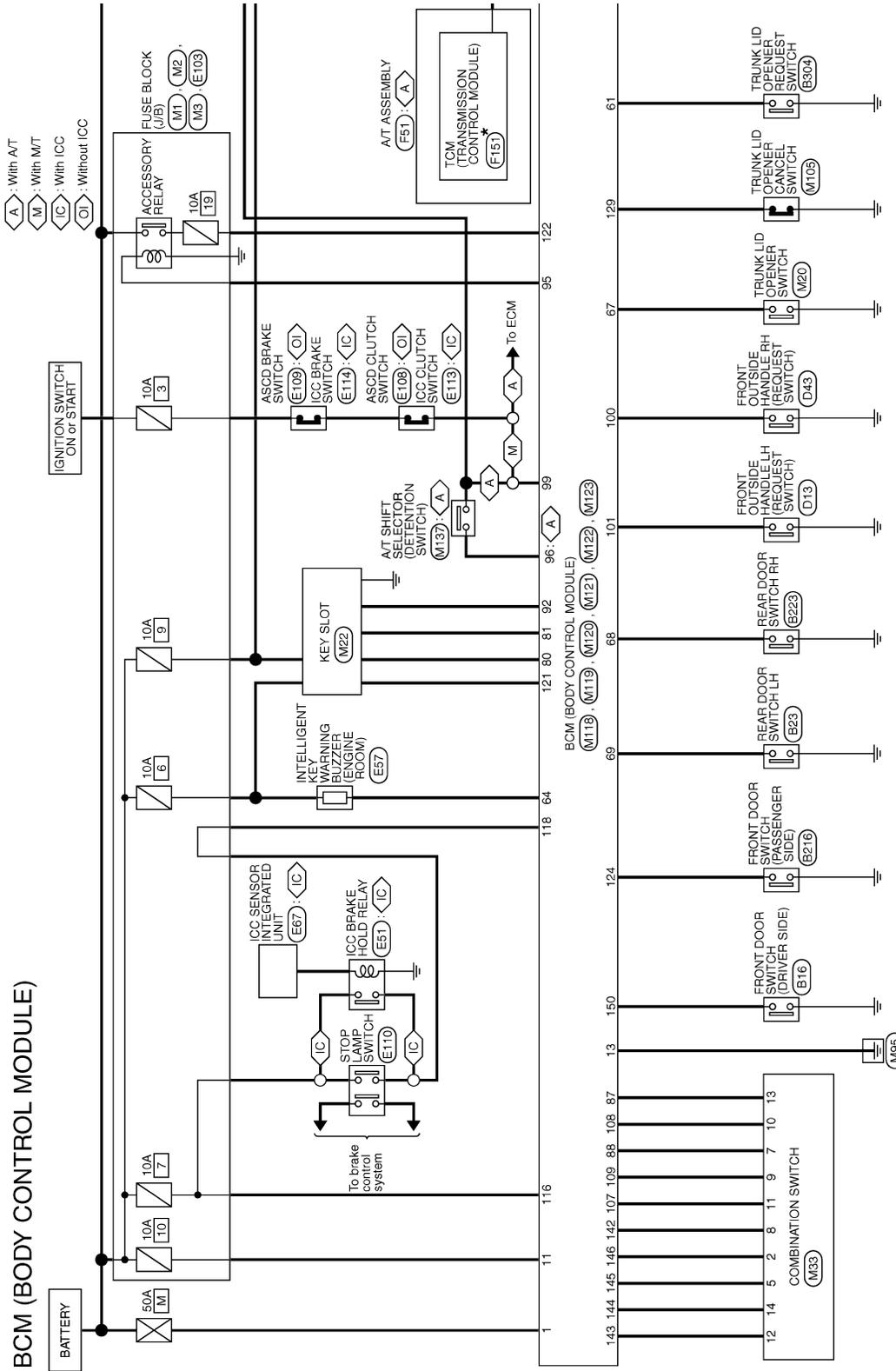
WCS

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Wiring Diagram - BCM -

INFOID:000000004743921



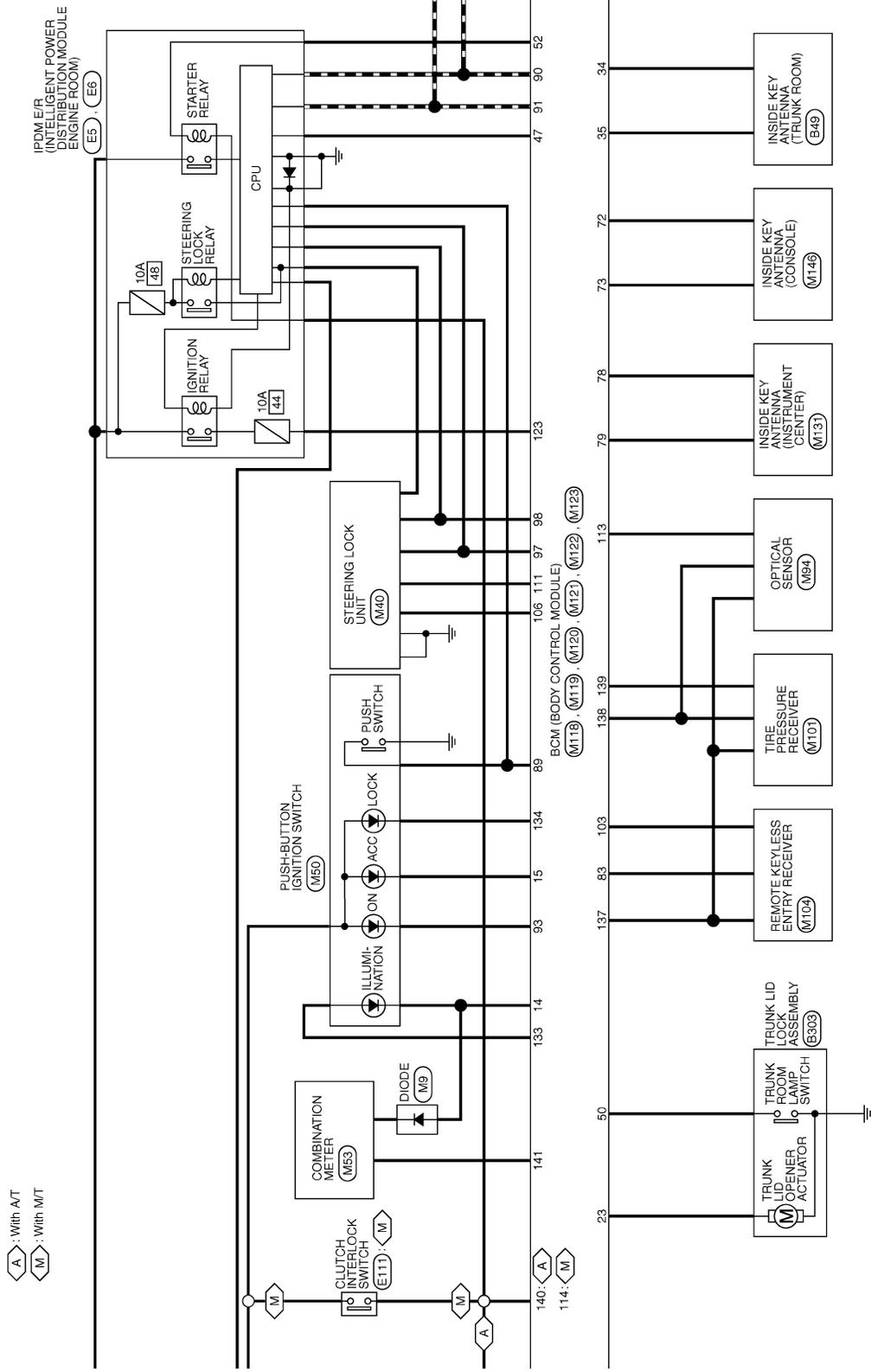
*: This connector is not shown in "Harness Layout".

2009/03/17

JCMWM4257GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >



A : With A/T
M : With M/T

JCMWA0929GB

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WCS

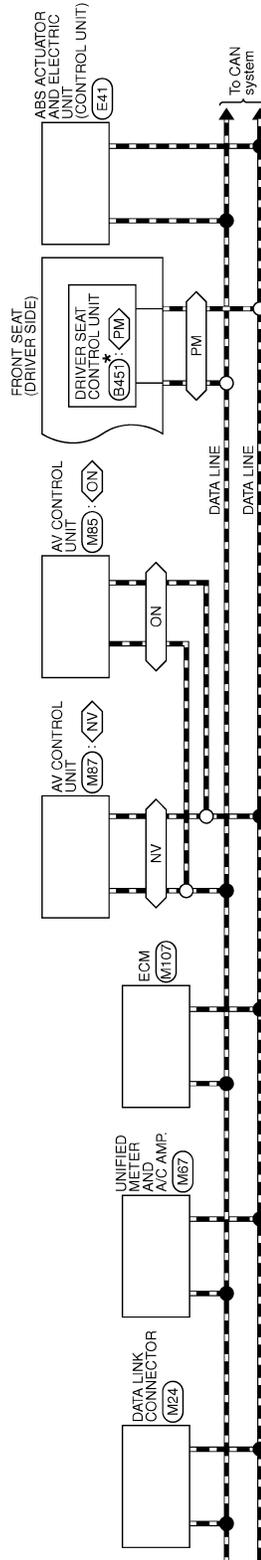
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

- : With NAVI
- : Without NAVI
- : With sunroof

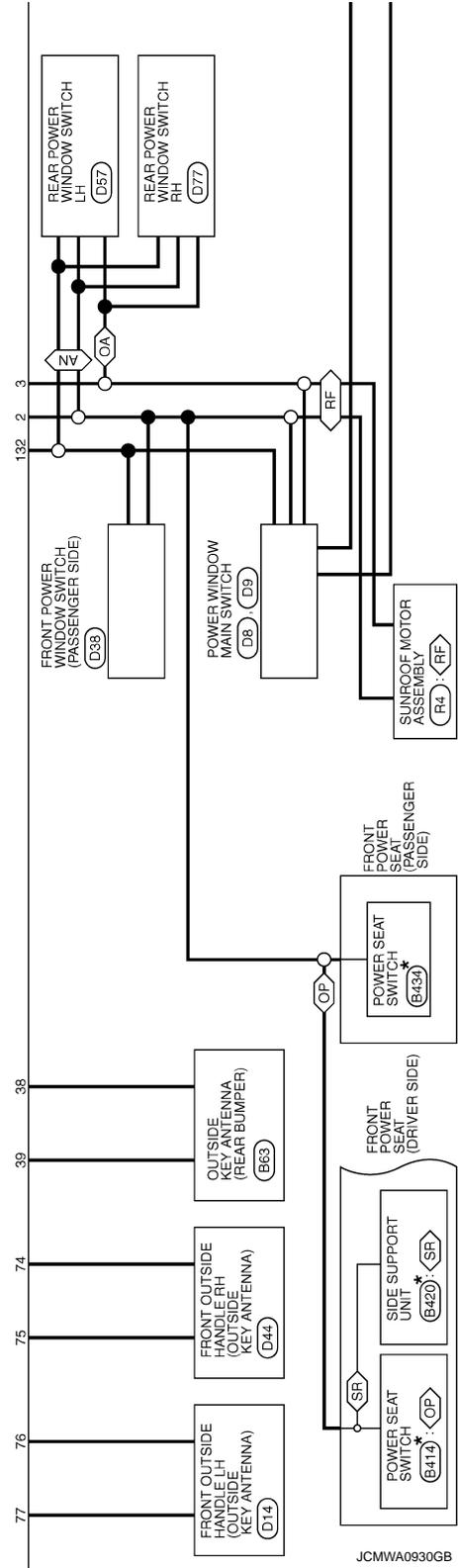
- : With rear anti-pinch system
- : Without rear anti-pinch system
- : With sports seat without automatic drive positioner
- : With automatic drive positioner
- : Without automatic drive positioner

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



BCM (BODY CONTROL MODULE)

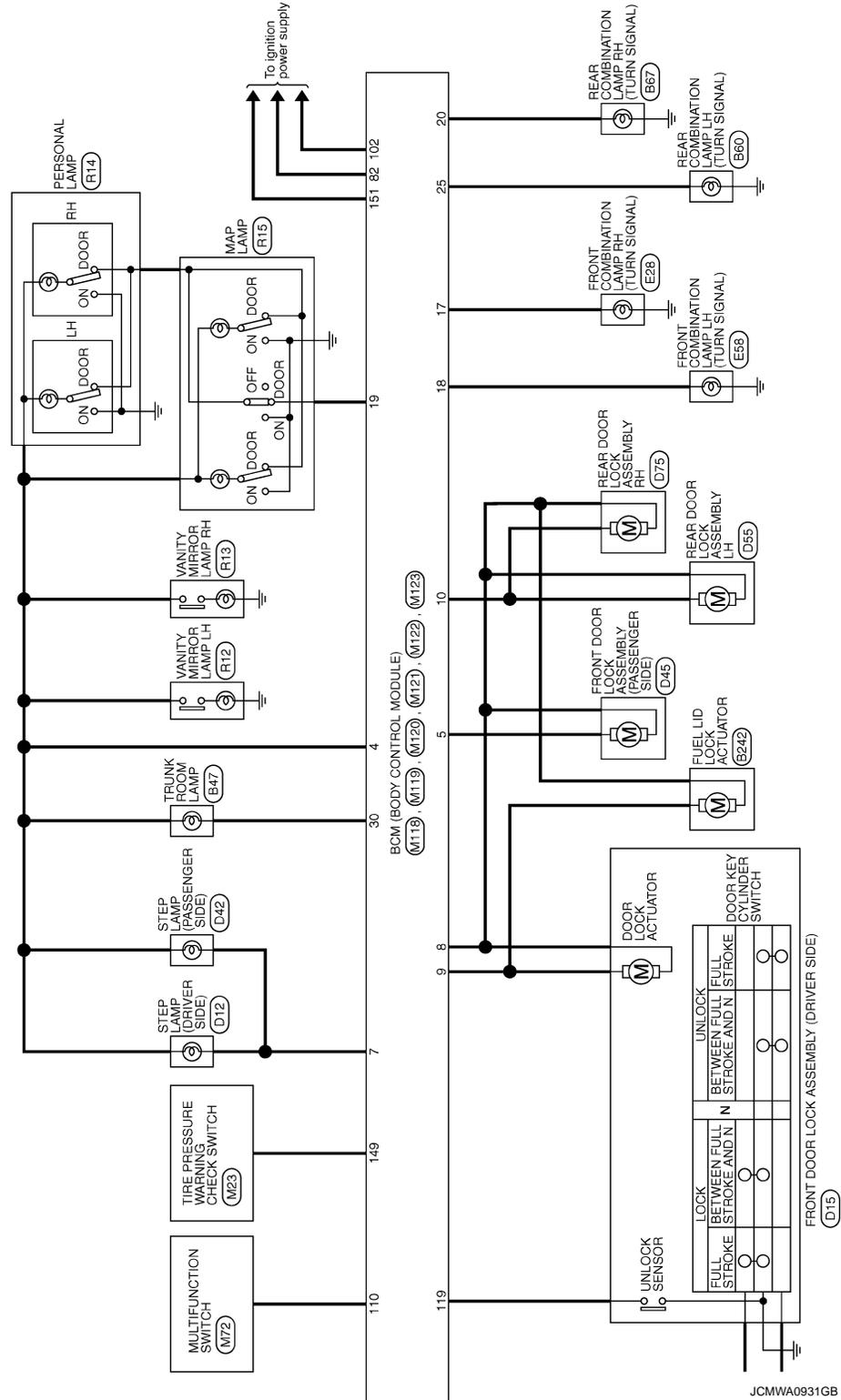
(M118), (M119), (M120), (M121), (M122), (M123)



JCMWA0930GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >



JCMWA0931GB

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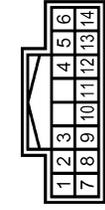
WCS

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

| | |
|----------------|--------------------|
| Connector No. | M33 |
| Connector Name | COMBINATION SWITCH |
| Connector Type | TH16FW-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | SB | OUTPUT 4 |
| 5 | L | OUTPUT 3 |
| 7 | V | INPUT 3 |
| 8 | O | 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 |

BCM (BODY CONTROL MODULE)

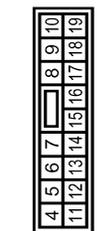
| | |
|----------------|---------------------------|
| Connector No. | M118 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | M03EB-LC |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|---------------------------------|
| 1 | W | BAT (E/L) |
| 2 | Y | POWER WINDOW POWER SUPPLY (BAT) |
| 3 | O | POWER WINDOW POWER SUPPLY (RAP) |

BCM (BODY CONTROL MODULE)

| | |
|----------------|---------------------------|
| Connector No. | M119 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | NS16FW-CS |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|------------------------------|
| 4 | LG | BAT SAVER OUTPUT |
| 5 | V | DOOR UNLOCK OUTPUT (AS) |
| 7 | SB | STEP LAMP OUTPUT |
| 8 | V | DOOR LOCK OUTPUT (ALL) |
| 9 | G | DOOR UNLOCK OUTPUT (DR) |
| 10 | BR | DOOR UNLOCK OUTPUT (RR) |
| 11 | R | BAT (FUSE) |
| 13 | B | GND |
| 14 | W | RING/ SW LED GND |
| 15 | O | ACC LED |
| 17 | W | FRONT FLASHER OUTPUT (RIGHT) |

BCM (BODY CONTROL MODULE)

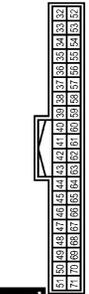
| | |
|----------------|---------------------------|
| Connector No. | M120 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | NS12PW-CS |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 20 | V | REAR FLASHER OUTPUT (RIGHT) |
| 23 | L | TRUNK OPENER OUTPUT |
| 25 | Y | REAR FLASHER OUTPUT (LEFT) |
| 30 | P | TRUNK LAMP OUTPUT |

BCM (BODY CONTROL MODULE)

| | |
|----------------|---------------------------|
| Connector No. | M121 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FGY-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 34 | SB | TRUNK ANTI- |
| 35 | V | TRUNK ANTI+ |
| 38 | B | BACK ANTI- |
| 39 | W | BACK ANTI+ |
| 47 | Y | RING USM CONT1 |
| 50 | O | TRUNK SW |
| 52 | SR | ST CONT USM |
| 61 | SR | TRUNK REQUEST SW |
| 64 | G | BUTZES |
| 67 | GR | INTERIOR TRUNK SW |
| 68 | BR | DOOR SW (RR RH) |

BCM (BODY CONTROL MODULE)

| | |
|----------------|-----------------|
| Connector No. | 69 |
| Connector Name | DOOR SW (RR LH) |

| | | |
|----|---|-----------------------------|
| 18 | O | FRONT FLASHER OUTPUT (LEFT) |
| 19 | V | ROOM LAMP OUTPUT |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| | | |
|-----|----|--------------------------------|
| 133 | L | RING/SW LED |
| 134 | LG | LOCK LED |
| 137 | O | SENSOR GND |
| 138 | V | AUTO LIGHT SENSOR POWER SUPPLY |
| 139 | L | RECEIVER SIGNAL |
| 140 | GR | SHIFT N/P |
| 141 | G | SECURITY INDICATOR OUTPUT |
| 142 | O | COMBI SW OUTPUT 5 |
| 143 | P | COMBI SW OUTPUT 1 |
| 144 | G | COMBI SW OUTPUT 2 |
| 145 | L | COMBI SW OUTPUT 3 |
| 146 | SB | COMBI SW OUTPUT 4 |
| 149 | W | MODE TRG SW |
| 150 | GR | DOOR SW (DR) |
| 151 | G | REAR DEFROGGER OUTPUT |

| | |
|----------------|---------------------------|
| Connector No. | M123 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FG-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 113 | O | AUTO LIGHT SENSOR INPUT |
| 114 | R | CLUTCH SW |
| 116 | SB | STOP LAMP LOW |
| 118 | BR | STOP LAMP HIGH |
| 119 | SB | DR CONDITION SW |
| 121 | SB | KEY SWITCH SIGNAL |
| 122 | V | ACC F/B |
| 123 | W | IGN F/B |
| 124 | LG | DOOR SW (AS) |
| 129 | O | TRUNK CANCEL SW |
| 132 | V | POWER WINDOW SERIAL LINK |

| | | |
|-----|----|----------------------------|
| 83 | Y | KEYLESS TUNER SIGNAL |
| 87 | BR | COMBI SW INPUT 5 |
| 88 | V | COMBI SW INPUT 3 |
| 89 | BR | ENG SW |
| 90 | P | CAN-L |
| 91 | L | CAN-H |
| 92 | LG | KEY SLOT/ILL |
| 93 | V | ON LED |
| 95 | O | ACC CONT |
| 96 | GR | A/T SHIFT SELECTOR |
| 97 | L | S/L CONDITION 1 |
| 98 | P | S/L CONDITION 2 |
| 99 | R | SHIFT P (With A/T) |
| 99 | BR | SHIFT P (With M/T) |
| 100 | Y | AS REQUEST SW |
| 101 | P | DR REQUEST SW |
| 102 | O | IGN2 CONT |
| 103 | L | KEYLESS TUNER POWER SUPPLY |
| 106 | W | S/L 12V (GPU) |
| 107 | LG | COMBI SW INPUT 1 |
| 108 | R | COMBI SW INPUT 4 |
| 109 | Y | HAZARD SW |
| 110 | G | HAZARD SW |
| 111 | Y | S/L (K LINE) |

BCM (BODY CONTROL MODULE)

| | |
|----------------|---------------------------|
| Connector No. | M122 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 72 | R | ROOM ANT2- |
| 73 | G | ROOM ANT2+ |
| 74 | SB | AS DOOR ANT- |
| 75 | BR | AS DOOR ANT+ |
| 76 | V | DR DOOR ANT- |
| 77 | LG | DR DOOR ANT+ |
| 78 | Y | ROOM ANT1- |
| 79 | BR | ROOM ANT1+ |
| 80 | GR | IMMOBI ANTENNA CONTROL |
| 81 | W | IMMOBI ANTENNA SIGNAL |
| 82 | R | IGN ELEC CONT |

Fail-safe

FAIL-SAFE CONTROL BY DTC

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

JCMWM4258GB

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WCS

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Display contents of CONSULT | Fail-safe | Cancellation |
|-----------------------------|--|---|
| B2013: ID DISCORD BCM-S/L | Inhibit engine cranking | Erase DTC |
| B2014: CHAIN OF S/L-BCM | Inhibit engine cranking | Erase DTC |
| B2190: NATS ANTenna AMP | Inhibit engine cranking | Erase DTC |
| B2191: DIFFERENCE OF KEY | Inhibit engine cranking | Erase DTC |
| B2192: ID DISCORD BCM-ECM | Inhibit engine cranking | Erase DTC |
| B2193: CHAIN OF BCM-ECM | Inhibit engine cranking | Erase DTC |
| B2195: ANTI SCANNING | Inhibit engine cranking | Ignition switch ON → OFF |
| B2557: VEHICLE SPEED | Inhibit steering lock | When normal vehicle speed signals are received from ABS actuator and electric unit (control unit) for 500 ms |
| B2560: STARTER CONT RELAY | Inhibit engine cranking | 500 ms after the following CAN signal communication status becomes consistent <ul style="list-style-type: none"> • Starter control relay signal • Starter relay status signal |
| B2563: HI VOLTAGE | <ul style="list-style-type: none"> • Inhibit engine cranking • Inhibit steering lock | 500 ms after the power supply voltage decreases to less than 18 V |
| B2601: SHIFT POSITION | Inhibit steering lock | 500 ms after the following signal reception status becomes consistent <ul style="list-style-type: none"> • Selector lever P position switch signal • P range signal (CAN) |
| B2602: SHIFT POSITION | Inhibit steering lock | 5 seconds after the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Ignition switch is in the ON position • Selector lever P position switch signal: Except P position (battery voltage) • Vehicle speed: 4 km/h (2.5 MPH) or more |
| B2603: SHIFT POSI STATUS | Inhibit steering lock | 500 ms after the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Ignition switch is in the ON position • Selector lever P position switch signal: Except P position (battery voltage) • Selector lever P/N position signal: Except P and N positions (0 V) |
| B2604: PNP SW | Inhibit steering lock | 500 ms after any of the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Status 1 <ul style="list-style-type: none"> - Ignition switch is in the ON position - Selector lever P/N position signal: P and N position (battery voltage) - P range signal or N range signal (CAN): ON • Status 2 <ul style="list-style-type: none"> - Ignition switch is in the ON position - Selector lever P/N position signal: Except P and N positions (0 V) - P range signal and N range signal (CAN): OFF |
| B2605: PNP SW | Inhibit steering lock | 500 ms after any of the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Ignition switch is in the ON position <ul style="list-style-type: none"> - Power position: IGN - Selector lever P/N position signal: Except P and N positions (0 V) - Interlock/PNP switch signal (CAN): OFF • Status 2 <ul style="list-style-type: none"> - Ignition switch is in the ON position - Selector lever P/N position signal: P or N position (battery voltage) - PNP switch signal (CAN): ON |
| B2606: S/L RELAY | Inhibit engine cranking | 500 ms after the following CAN signal communication status becomes consistent <ul style="list-style-type: none"> • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal) |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Display contents of CONSULT | Fail-safe | Cancellation | |
|-----------------------------|--|--|---|
| B2607: S/L RELAY | Inhibit engine cranking | 500 ms after the following CAN signal communication status becomes consistent <ul style="list-style-type: none"> Steering lock relay signal (Request signal) Steering lock relay signal (Condition signal) | A |
| B2608: STARTER RELAY | Inhibit engine cranking | 500 ms after the following signal communication status becomes consistent <ul style="list-style-type: none"> Starter motor relay control signal Starter relay status signal (CAN) | B |
| B2609: S/L STATUS | <ul style="list-style-type: none"> Inhibit engine cranking Inhibit steering lock | When the following steering lock conditions agree <ul style="list-style-type: none"> BCM steering lock control status Steering lock condition No. 1 signal status Steering lock condition No. 2 signal status | C |
| B260A: IGNITION RELAY | Inhibit engine cranking | 500 ms after the following conditions are fulfilled <ul style="list-style-type: none"> IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal) | D |
| B260F: ENG STATE SIG LOST | Maintains the power supply position attained at the time of DTC detection | When any of the following conditions are fulfilled <ul style="list-style-type: none"> Power position changes to ACC Receives engine status signal (CAN) | E |
| B2612: S/L STATUS | <ul style="list-style-type: none"> Inhibit engine cranking Inhibit steering lock | When any of the following conditions are fulfilled <ul style="list-style-type: none"> Steering lock unit status signal (CAN) is received normally The BCM steering lock control status matches the steering lock status recognized by the steering lock unit status signal (CAN from IPDM E/R) | F |
| B2617: STARTER RELAY CIRC | Inhibit engine cranking | 1 second after the starter motor relay control inside BCM becomes normal | G |
| B2618: BCM | Inhibit engine cranking | 1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal | H |
| B2619: BCM | Inhibit engine cranking | 1 second after the steering lock unit power supply output control inside BCM becomes normal | I |
| B261E: VEHICLE TYPE | Inhibit engine cranking | BCM initialization | J |
| B26E1: ENG STATE NO RES | Inhibit engine cranking | When any of the following conditions are fulfilled <ul style="list-style-type: none"> Power position changes to ACC Receives engine status signal (CAN) | K |

HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status by the current value.

BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

NOTE:

The blinking speed is normal while activating the hazard warning lamp.

DTC Inspection Priority Chart

INFOID:000000004743923

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

| Priority | DTC | |
|----------|--|---|
| 1 | <ul style="list-style-type: none"> B2562: LOW VOLTAGE B2563: HI VOLTAGE | O |
| 2 | <ul style="list-style-type: none"> U1000: CAN COMM U1010: CONTROL UNIT(CAN) | P |
| 3 | <ul style="list-style-type: none"> B2190: NATS ANTENA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING | |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Priority | DTC |
|----------|---|
| 4 | <ul style="list-style-type: none"> • B2013: ID DISCORD BCM-S/L • B2014: CHAIN OF S/L-BCM • B2553: IGNITION RELAY • B2555: STOP LAMP • B2556: PUSH-BTN IGN SW • B2557: VEHICLE SPEED • B2560: STARTER CONT RELAY • B2601: SHIFT POSITION • B2602: SHIFT POSITION • B2603: SHIFT POSI STATUS • B2604: PNP SW • B2605: PNP SW • B2606: S/L RELAY • B2607: S/L RELAY • B2608: STARTER RELAY • B2609: S/L STATUS • B260A: IGNITION RELAY • B260B: STEERING LOCK UNIT • B260C: STEERING LOCK UNIT • B260D: STEERING LOCK UNIT • B260F: ENG STATE SIG LOST • B2611: ACC RELAY • B2612: S/L STATUS • B2614: ACC RELAY CIRC • B2615: BLOWER RELAY CIRC • B2616: IGN RELAY CIRC • B2617: STARTER RELAY CIRC • B2618: BCM • B2619: BCM • B261A: PUSH-BTN IGN SW • B261E: VEHICLE TYPE • B26E1: ENG STATE NO RES • C1729: VHCL SPEED SIG ERR • U0415: VEHICLE SPEED SIG |
| 5 | <ul style="list-style-type: none"> • C1704: LOW PRESSURE FL • C1705: LOW PRESSURE FR • C1706: LOW PRESSURE RR • C1707: LOW PRESSURE RL • C1708: [NO DATA] FL • C1709: [NO DATA] FR • C1710: [NO DATA] RR • C1711: [NO DATA] RL • C1712: [CHECKSUM ERR] FL • C1713: [CHECKSUM ERR] FR • C1714: [CHECKSUM ERR] RR • C1715: [CHECKSUM ERR] RL • C1716: [PRESSDATA ERR] FL • C1717: [PRESSDATA ERR] FR • C1718: [PRESSDATA ERR] RR • C1719: [PRESSDATA ERR] RL • C1720: [CODE ERR] FL • C1721: [CODE ERR] FR • C1722: [CODE ERR] RR • C1723: [CODE ERR] RL • C1724: [BATT VOLT LOW] FL • C1725: [BATT VOLT LOW] FR • C1726: [BATT VOLT LOW] RR • C1727: [BATT VOLT LOW] RL • C1734: CONTROL UNIT |
| 6 | <ul style="list-style-type: none"> • B2621: INSIDE ANTENNA • B2622: INSIDE ANTENNA • B2623: INSIDE ANTENNA |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

DTC Index

INFOID:000000004743924

NOTE:

The details of time display are as follows.

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

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data and IGN Counter, refer to [BCS-13, "COMMON ITEM : CONSULT-III Function \(BCM - COMMON ITEM\)"](#).

| CONSULT display | Fail-safe | Freeze Frame Data | Intelligent Key warning lamp ON | Tire pressure monitor warning lamp ON | Reference page |
|--|-----------|-------------------|---------------------------------|---------------------------------------|------------------------|
| No DTC is detected. further testing may be required. | — | — | — | — | — |
| U1000: CAN COMM | — | — | — | — | BCS-33 |
| U1010: CONTROL UNIT(CAN) | — | — | — | — | BCS-34 |
| U0415: VEHICLE SPEED SIG | — | — | — | — | BCS-35 |
| B2013: ID DISCORD BCM-S/L | × | × | — | — | SEC-54 |
| B2014: CHAIN OF S/L-BCM | × | × | — | — | SEC-55 |
| B2190: NATS ANTENA AMP | × | — | — | — | SEC-46 |
| B2191: DIFFERENCE OF KEY | × | — | — | — | SEC-49 |
| B2192: ID DISCORD BCM-ECM | × | — | — | — | SEC-50 |
| B2193: CHAIN OF BCM-ECM | × | — | — | — | SEC-52 |
| B2195: ANTI SCANNING | × | — | — | — | SEC-53 |
| B2553: IGNITION RELAY | — | × | — | — | PCS-50 |
| B2555: STOP LAMP | — | × | — | — | SEC-58 |
| B2556: PUSH-BTN IGN SW | — | × | × | — | SEC-60 |
| B2557: VEHICLE SPEED | × | × | × | — | SEC-62 |
| B2560: STARTER CONT RELAY | × | × | × | — | SEC-63 |
| B2562: LOW VOLTAGE | — | × | — | — | BCS-36 |
| B2563: HI VOLTAGE | × | × | × | — | BCS-37 |
| B2601: SHIFT POSITION | × | × | × | — | SEC-64 |
| B2602: SHIFT POSITION | × | × | × | — | SEC-67 |
| B2603: SHIFT POSI STATUS | × | × | × | — | SEC-69 |
| B2604: PNP SW | × | × | × | — | SEC-72 |
| B2605: PNP SW | × | × | × | — | SEC-74 |
| B2606: S/L RELAY | × | × | × | — | SEC-76 |
| B2607: S/L RELAY | × | × | × | — | SEC-77 |
| B2608: STARTER RELAY | × | × | × | — | SEC-79 |
| B2609: S/L STATUS | × | × | × | — | SEC-81 |
| B260A: IGNITION RELAY | × | × | × | — | PCS-52 |
| B260B: STEERING LOCK UNIT | — | × | × | — | SEC-85 |
| B260C: STEERING LOCK UNIT | — | × | × | — | SEC-86 |
| B260D: STEERING LOCK UNIT | — | × | × | — | SEC-87 |
| B260F: ENG STATE SIG LOST | × | × | × | — | SEC-88 |
| B2611: ACC RELAY | — | × | — | — | PCS-54 |
| B2612: S/L STATUS | × | × | × | — | SEC-90 |
| B2614: ACC RELAY CIRC | — | × | × | — | PCS-57 |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| CONSULT display | Fail-safe | Freeze Frame Data | Intelligent Key warning lamp ON | Tire pressure monitor warning lamp ON | Reference page |
|---------------------------|-----------|-------------------|---------------------------------|---------------------------------------|-------------------------|
| B2615: BLOWER RELAY CIRC | — | × | × | — | PCS-60 |
| B2616: IGN RELAY CIRC | — | × | × | — | PCS-63 |
| B2617: STARTER RELAY CIRC | × | × | × | — | SEC-94 |
| B2618: BCM | × | × | × | — | PCS-66 |
| B2619: BCM | × | × | × | — | SEC-96 |
| B261A: PUSH-BTN IGN SW | — | × | × | — | SEC-97 |
| B261E: VEHICLE TYPE | × | × | × (Turn ON for 15 seconds) | — | SEC-100 |
| B2621: INSIDE ANTENNA | — | × | — | — | DLK-61 |
| B2622: INSIDE ANTENNA | — | × | — | — | DLK-63 |
| B2623: INSIDE ANTENNA | — | × | — | — | DLK-65 |
| B26E1: ENG STATE NO RES | × | × | × | — | SEC-89 |
| C1704: LOW PRESSURE FL | — | — | — | × | WT-15 |
| C1705: LOW PRESSURE FR | — | — | — | × | WT-15 |
| C1706: LOW PRESSURE RR | — | — | — | × | WT-15 |
| C1707: LOW PRESSURE RL | — | — | — | × | WT-15 |
| C1708: [NO DATA] FL | — | — | — | × | WT-17 |
| C1709: [NO DATA] FR | — | — | — | × | WT-17 |
| C1710: [NO DATA] RR | — | — | — | × | WT-17 |
| C1711: [NO DATA] RL | — | — | — | × | WT-17 |
| C1712: [CHECKSUM ERR] FL | — | — | — | × | WT-20 |
| C1713: [CHECKSUM ERR] FR | — | — | — | × | WT-20 |
| C1714: [CHECKSUM ERR] RR | — | — | — | × | WT-20 |
| C1715: [CHECKSUM ERR] RL | — | — | — | × | WT-20 |
| C1716: [PRESSDATA ERR] FL | — | — | — | × | WT-23 |
| C1717: [PRESSDATA ERR] FR | — | — | — | × | WT-23 |
| C1718: [PRESSDATA ERR] RR | — | — | — | × | WT-23 |
| C1719: [PRESSDATA ERR] RL | — | — | — | × | WT-23 |
| C1720: [CODE ERR] FL | — | — | — | × | WT-25 |
| C1721: [CODE ERR] FR | — | — | — | × | WT-25 |
| C1722: [CODE ERR] RR | — | — | — | × | WT-25 |
| C1723: [CODE ERR] RL | — | — | — | × | WT-25 |
| C1724: [BATT VOLT LOW] FL | — | — | — | × | WT-28 |
| C1725: [BATT VOLT LOW] FR | — | — | — | × | WT-28 |
| C1726: [BATT VOLT LOW] RR | — | — | — | × | WT-28 |
| C1727: [BATT VOLT LOW] RL | — | — | — | × | WT-28 |
| C1729: VHCL SPEED SIG ERR | — | — | — | × | WT-31 |
| C1734: CONTROL UNIT | — | — | — | × | WT-32 |

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

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

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

Description

INFOID:000000001834530

- 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:000000001834531

1. CHECK PARKING BRAKE WARNING LAMP

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

Parking brake ON : ON
Parking brake OFF : OFF

Is the inspection result normal?

- YES >> Replace the combination meter.
NO >> GO TO 2.

2. CHECK PARKING BRAKE SWITCH SIGNAL CIRCUIT

Perform a check for the parking brake switch signal circuit. Refer to [MWI-60, "Diagnosis Procedure \(A/T model\)"](#) or [MWI-60, "Diagnosis Procedure \(M/T model\)"](#).

Is the inspection result normal?

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

3. CHECK PARKING BRAKE SWITCH UNIT

Perform a unit check for the parking brake switch. Refer to [BRC-72, "Component Inspection"](#).

Is the inspection result normal?

- YES >> Replace the combination meter.
NO >> Replace the parking brake switch. Refer to [PB-7, "PEDAL TYPE : Removal and Installation"](#) (pedal type) or [PB-8, "LEVER TYPE : Removal and Installation"](#) (lever type).

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WCS

THE LIGHT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE LIGHT REMINDER WARNING DOES NOT SOUND

Description

INFOID:000000001834532

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

Diagnosis Procedure

INFOID:000000001834533

1. CHECK COMBINATION SWITCH (LIGHT SWITCH) OPERATION

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

Do they operate normally?

YES >> GO TO 2.

NO >> Refer to [EXL-178, "Diagnosis Procedure"](#).

2. CHECK FRONT DOOR SWITCH (DRIVER SIDE) SIGNAL CIRCUIT

Perform the check for the front door switch (driver side) signal circuit. Refer to [DLK-68, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK FRONT DOOR SWITCH (DRIVER SIDE) UNIT

Perform a unit check for the front door switch (driver side). Refer to [DLK-70, "Component Inspection"](#).

Is the inspection result normal?

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

NO >> Replace the front door switch (driver side). Refer to [DLK-252, "Removal and Installation"](#).

THE SEAT BELT WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE SEAT BELT WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

Description

INFOID:000000001834534

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

Diagnosis Procedure

INFOID:000000001834535

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 UNIFIED METER AND A/C AMP. INPUT SIGNAL

Check the buckle switch input signal with the "Data Monitor". Refer to [WCS-24, "Component Function Check"](#).

Is the inspection result normal?

- YES >> Replace the unified meter and A/C amp.
NO >> GO TO 3.

3. CHECK SEAT BELT BUCKLE SWITCH CIRCUIT

Perform the check for the seat belt buckle switch circuit. Refer to [WCS-24, "Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> Replace the unified meter and A/C amp.
NO >> Repair harness or connector.

4. CHECK SEAT BELT BUCKLE SWITCH UNIT

Perform a unit check for the seat belt buckle switch. Refer to [WCS-25, "Component Inspection"](#).

Is the inspection result normal?

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

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PRECAUTIONS

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PRECAUTION

PRECAUTIONS

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

INFOID:000000003038039

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 which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "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.