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CONTENTS

| BASIC INSPECTION3 |
|---|
| DIAGNOSIS AND REPAIR WORKFLOW 3 Work Flow |
| FUNCTION DIAGNOSIS4 |
| WARNING CHIME SYSTEM4 |
| WARNING CHIME SYSTEM4 WARNING CHIME SYSTEM: System Diagram4 WARNING CHIME SYSTEM: System Description4 |
| WARNING CHIME SYSTEM : Component Parts Location |
| LIGHT REMINDER WARNING CHIME |
| SEAT BELT WARNING CHIME7 SEAT BELT WARNING CHIME : System Diagram |
| SEAT BELT WARNING CHIME : System Description |
| PARKING BRAKE RELEASE WARNING CHIME9 PARKING BRAKE RELEASE WARNING CHIME System Diagram |

| PARKING BRAKE RELEASE WARNING CHIME : System Description | F |
|---|-----|
| DIAGNOSIS SYSTEM (UNIFIED METER AND | Н |
| A/C AMP.) | |
| DIAGNOSIS SYSTEM (BCM)15 | |
| COMMON ITEM | J |
| BUZZER | K |
| COMPONENT DIAGNOSIS17 | L |
| POWER SUPPLY AND GROUND CIRCUIT17 | |
| COMBINATION METER17 COMBINATION METER : Diagnosis Procedure17 | M |
| UNIFIED METER AND A/C AMP17 UNIFIED METER AND A/C AMP. : Diagnosis Pro- | WCS |
| cedure | |
| BCM (BODY CONTROL MODULE)18 BCM (BODY CONTROL MODULE) : Diagnosis | 0 |
| Procedure | Р |
| METER BUZZER CIRCUIT20 | |
| | |
| Description | |

| SEAT BELT BUCKLE SWITCH SIGNAL CIR- | DTC Inspection Priority Chart | 89 |
|-------------------------------------|--|----|
| CUIT21 | DTC Index | 90 |
| Description | OVMETOM DIA ONOCIO | |
| Component Function Check | SYMPTOM DIAGNOSIS | 93 |
| Diagnosis Procedure21 | THE PARKING BRAKE RELEASE WARNING | |
| Component Inspection21 | CONTINUES SOUNDING, OR DOES NOT | |
| WARNING CHIME SYSTEM23 | SOUND | 93 |
| Wiring Diagram — WARNING CHIME — | Description | |
| Willing Diagram WARMING OF TIME20 | Diagnosis Procedure | |
| ECU DIAGNOSIS27 | · · | |
| | THE LIGHT REMINDER WARNING DOES | |
| COMBINATION METER27 | NOT SOUND | 94 |
| Reference Value27 | Description | 94 |
| Wiring Diagram — METER —30 | Diagnosis Procedure | 94 |
| Fail Safe 39 | | |
| DTC Index 40 | THE SEAT BELT WARNING CONTINUES | |
| | SOUNDING, OR DOES NOT SOUND | |
| UNIFIED METER AND A/C AMP41 | Description | 95 |
| Reference Value41 | Diagnosis Procedure | 95 |
| Wiring Diagram — METER —48 | DDECAUTION | |
| Fail Safe 57 | PRECAUTION | 96 |
| DTC Index 58 | AIR BAG (PATTERN 2) | 06 |
| BCM (BODY CONTROL MODULE)59 | | 90 |
| | Precaution for Supplemental Restraint System | |
| Reference Value | (SRS) "AIR BAG" and "SEAT BELT PRE-TEN- | 00 |
| Wiring Diagram — BCM — | SIONER" | 96 |
| Fail Sate 87 | | |

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION > **BASIC INSPECTION** Α DIAGNOSIS AND REPAIR WORKFLOW Work Flow INFOID:00000000000964467 **DETAILED FLOW** 1. OBTAIN INFORMATION ABOUT SYMPTOM C Interview the customer to obtain as much information as possible about the conditions and environment under which the malfunction occurred. D >> GO TO 2. 2. CHECK SYMPTOM Е • Check the symptom based on the information obtained from the customer. Check that any other malfunctions are present. F >> GO TO 3. 3.check consult-iii self-diagnosis results Connect CONSULT-III and perform self-diagnosis. Refer to WCS-12, "CONSULT-III Function (METER/M&A)". Are self-diagnosis results normal? YES >> GO TO 4. Н NO >> Repair or replace the malfunctioning parts and go to 5. f 4.NARROW DOWN MALFUNCTIONING PARTS THROUGH SYMPTOM DIAGNOSIS Perform symptom diagnosis and repair or replace the identified malfunctioning parts. >> GO TO 5. 5. FINAL CHECK Check that the warning buzzer in the combination meter operates normally. K Does it operate normally? YES >> INSPECTION END NO >> GO TO 1. M

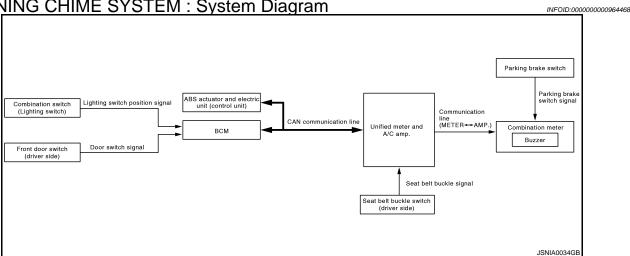
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FUNCTION DIAGNOSIS

WARNING CHIME SYSTEM WARNING CHIME SYSTEM

WARNING CHIME SYSTEM: System Diagram

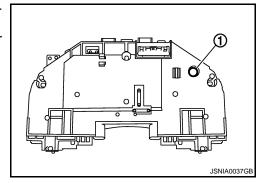


WARNING CHIME SYSTEM: System Description

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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.



UNIFIED METER AND A/C AMP.

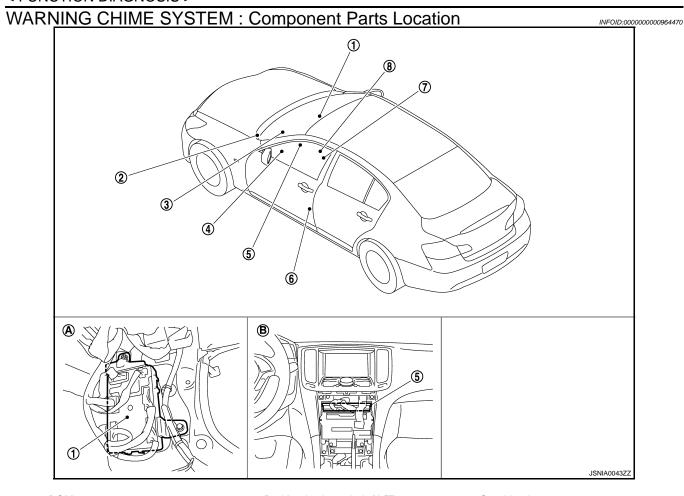
The unified meter and A/C amp. transmits the buzzer output signal received from BCM with CAN communication line to the combination meter.

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 | Lighting switch position signal Door switch signal |
| Seat belt warning chime | Seat belt buckle switch signal |



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

WARNING CHIME SYSTEM: Component Description

INFOID:00000000000964471

| Unit | Description | |
|---|--|--|
| Combination meter | 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. | 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. | |

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WARNING CHIME SYSTEM

< FUNCTION DIAGNOSIS >

Combination

switch

(Lighting switch)

Front door switch

(driver side)

| Unit | Description |
|---------------------------------|--|
| Front door switch (driver side) | Transmits the door switch signal to BCM. |
| Parking brake switch | Refer to MWI-59, "Description". |

CAN communication

Buzzer output signal

(Light warning chime)

line

LIGHT REMINDER WARNING CHIME

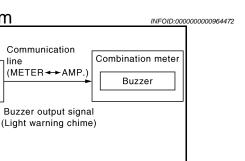
Lighting switch

position signal

Door switch signal

LIGHT REMINDER WARNING CHIME: System Diagram

ВСМ



Communication

(METER < → AMP.)

Buzzer output signal

line

Unified meter

and A/C amp.

LIGHT REMINDER WARNING CHIME: System Description

INFOID:0000000000964473

DESCRIPTION

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

- BCM detects ignition switch in OFF or ACC position, front door switch (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

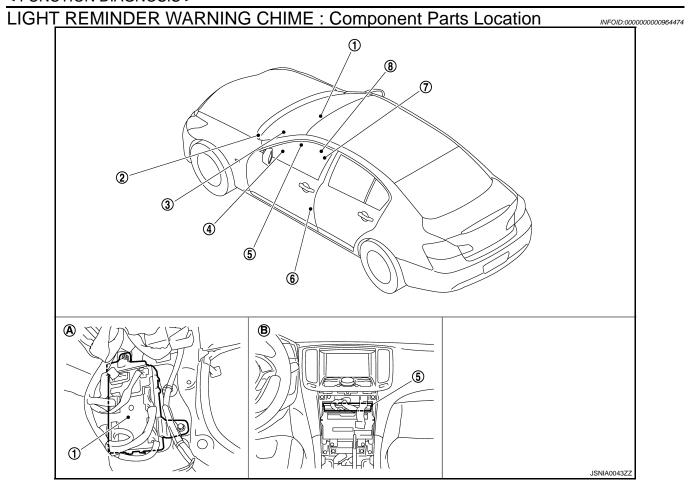
If all of the following conditions are fulfilled

- 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



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

LIGHT REMINDER WARNING CHIME : Component Description

INFOID:0000000000964475

| 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

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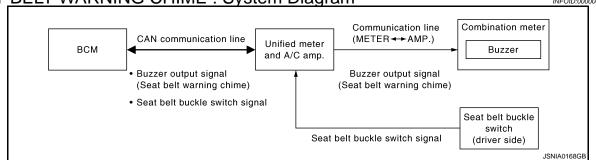
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WARNING CHIME SYSTEM

< FUNCTION DIAGNOSIS >

SEAT BELT WARNING CHIME: System Diagram





SEAT BELT WARNING CHIME: System Description

INFOID:0000000000964477

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

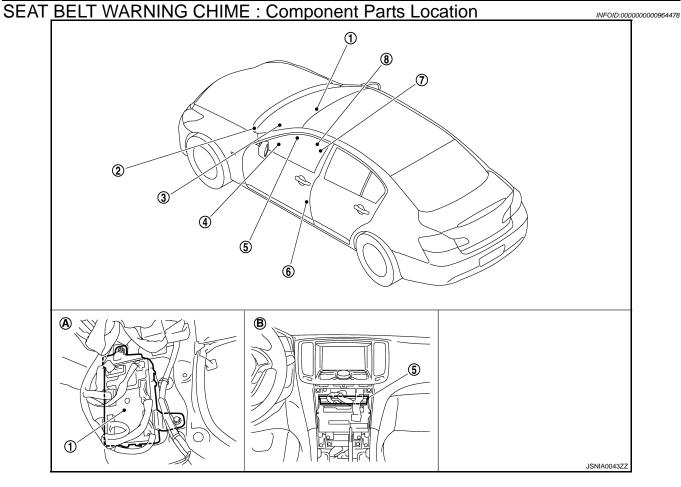
If all of the following conditions are fulfilled • Ignition switch OFF \rightarrow ON

- Seat buckle switch (driver side) is ON (driver seat belt not fastened)

WARNING CANCEL CONDITIONS

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

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



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

SEAT BELT WARNING CHIME : Component Description

INFOID:0000000000964479

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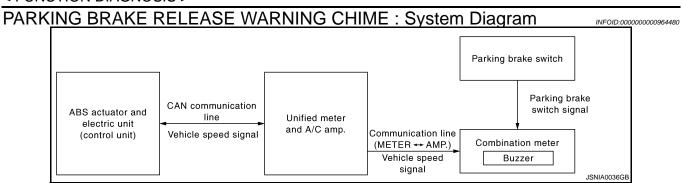
| Unit | Description |
|---------------------------------------|---|
| Combination meter | Receives a buzzer output signal from the unified meter and A/C amp. and sounds the buzzer. |
| Unified meter and A/C amp. | Receives the seat belt buckle switch signal from the seat belt buckle switch and transmits 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. |
| ВСМ | 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-21, "Description". |

PARKING BRAKE RELEASE WARNING CHIME

WCS-9

WARNING CHIME SYSTEM

< FUNCTION DIAGNOSIS >



PARKING BRAKE RELEASE WARNING CHIME: System Description

INFOID:0000000000964481

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

PARKING BRAKE RELEASE WARNING CHIME: Component Parts Location

AUTOLO JOSON

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

| 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-59, "Description". |

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

< FUNCTION DIAGNOSIS >

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

CONSULT-III Function (METER/M&A)

INFOID:0000000000964484

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. |
| IVILILIVIVIXA | Data Monitor | Displays unified meter and A/C amp. input/output data in real time. |

SELF DIAG RESULT

Refer to MWI-97, "DTC Index".

DATA MONITOR

Display Item List

X: Applicable

| | | X: Applicable |
|-----------------------------|-----------------|--|
| Display item [Unit] | MAIN SIGNALS | Description |
| SPEED METER [km/h] | х | 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] | х | 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] | х | 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.] | Х | Fuel level indicated on combination meter. |
| W TEMP METER [°C] | х | 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 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.)

< FUNCTION DIAGNOSIS >

| 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. |
| 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 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 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. |
| 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. |
| 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. |
| 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. |
| 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. |
| 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. |

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

< FUNCTION DIAGNOSIS >

| Display item [Unit] | MAIN SIGNALS | Description |
|---|-----------------|--|
| ACC UNIT [On/Off] | | Status of display unit judged from meter display signal received from ICC sensor integrated unit with CAN communication line. |
| 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. |
| AT S MODE SW [On/Off] | | Status of snow mode switch. |
| AT P MODE SW [On/Off] | | This item is displayed, but cannot be monitored. |
| M RANGE SW [On/Off] | | Status of manual mode switch. |
| NM RANGE SW [On/Off] | | Status of not manual mode switch. |
| AT SFT UP SW [On/Off] | | Status of A/T shift up switch. |
| AT SFT DWN SW [On/Off] | | Status of A/T shift down switch. |
| ST SFT UP SW [On/Off] | | Status of paddle shifter up switch. |
| 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 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.) |
| 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] | | 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)

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

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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-DIAG RESULTS | Displays the diagnosis results judged by BCM. Refer to BCS-74, "DTC Index". |
| CAN DIAG SUPPORT MNTR | Monitors the reception status of CAN communication viewed from BCM. |
| DATA MONITOR | The BCM input/output signals are displayed. |
| ACTIVE TEST | The signals used to activate each device are forcibly supplied from BCM. |
| ECU IDENTIFICATION | The BCM part number is displayed. |
| CONFIGURATION | 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.

| System | Sub system selection item | Diagnosis mode | | |
|--------------------------------------|-----------------------------|----------------|--------------|-------------|
| System | | 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 conditioner* | AIR CONDITONER | | × | |
| Intelligent Key system | INTELLIGENT KEY | × | × | × |
| Combination switch | COMB SW | | × | |
| BCM | 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.

BUZZER

BUZZER: CONSULT-III Function (BCM - BUZZER)

INFOID:0000000000964486

CONSULT-III APPLICATION ITEMS

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

| Test item | Diagnosis mode | Description | |
|-----------|----------------|---|--|
| BUZZER | | Displays BCM input data in real time. | |
| | | 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. |
| UNLK SEN-DR [On/Off] | Status of unlock sensor judged by BCM. |
| KEY SW-SLOT [On/Off] | Status of key slot judged by BCM. |
| TAIL LAMP SW [On/Off] | Status of each switch judged by BCM using the combination switch readout function. |
| FR FOG SW [On/Off] | Status of front fog lamp switch judged by BCM. |
| DOOR SW-DR [On/Off] | Status of driver side door switch judged by BCM. |

ACTIVE TEST

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

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

COMBINATION METER

COMBINATION METER : Diagnosis Procedure

INFOID:0000000000964487

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:0000000000964488

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.

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POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT 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

- 1. Turn ignition switch OFF.
- 2. Disconnect unified meter and A/C amp. connector.
- 3. 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:0000000000964489

1. CHECK FUSE AND FUSIBLE LINK

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

| Terminal No. | Signal name | Fuse and fusible link No. |
|--------------|----------------------|---------------------------|
| 1 | Rattory power supply | К |
| 11 | Battery power supply | 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

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

| | Voltage (Approx.) | | |
|-----------|----------------------|--------|-----------------|
| (| | | |
| В | СМ | | (Approx.) |
| Connector | Terminal | Ground | |
| M118 | 1 | Glound | Pottory voltage |
| M119 | 11 | | Battery voltage |

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

| ВС | M | | O and the site of | | | |
|--------------------------------|-----------------|-------------|-------------------|----------------|------------------|------------------------|
| Connector Terminal | | Ground | Continuity | | | |
| M119 | 13 | | Existed | | | |
| oes continuity | exist? | | | | | |
| | PECTION END | | | | | |
| - | pair harness or | | | | | |
| CM (BODY | CONTROL | MODULE) | : Special Re | pair Require | ment | INFOID:000000000096449 |
| .REQUIRED \ | | | | | | |
| II (L Q O II (LD | WORK WHEN | REPLACING E | BCM | | | |
| | | | | refer to CONSI | JLT-III operatio | n manual NATS |
| | | | | refer to CONSI | JLT-III operatio | n manual NATS |
| nitialize IVIS by /IS/NVIS. | / CONSULT-III | | | refer to CONSI | JLT-III operatio | n manual NATS |
| nitialize IVIS by | / CONSULT-III | | | refer to CONSI | JLT-III operatio | n manual NATS |
| nitialize IVIS by /IS/NVIS. | / CONSULT-III | | | refer to CONSI | JLT-III operatio | n manual NATS |
| nitialize IVIS by /IS/NVIS. | / CONSULT-III | | | refer to CONSI | JLT-III operatio | n manual NATS |
| nitialize IVIS by /IS/NVIS. | / CONSULT-III | | | refer to CONSI | JLT-III operatio | n manual NATS |
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| nitialize IVIS by /IS/NVIS. | / CONSULT-III | | | refer to CONSI | JLT-III operatio | n manual NATS |
| nitialize IVIS by /IS/NVIS. | / CONSULT-III | | | refer to CONSI | JLT-III operatio | n manual NATS |

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METER BUZZER CIRCUIT

< COMPONENT DIAGNOSIS >

METER BUZZER CIRCUIT

- 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:0000000000964492

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-79, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000000964493

1. CHECK POWER SUPPLY OF COMBINATION METER

Check power supply of combination meter. Refer to WCS-17, "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-17, "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.

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

Component Inspection

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT Α Description INFOID:0000000000964494 Transmits a seat belt buckle switch signal to the unified meter and A/C amp. В Component Function Check INFOID:0000000000964495 ${f 1}$.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. D **BUCKLE SW** : OFF When seat belt is fastened When seat belt is unfastened : ON Е >> INSPECTION END Diagnosis Procedure INFOID:00000000000964496 1. CHECK UNIFIED METER AND A/C AMP. INPUT SIGNAL Turn ignition switch ON. Check voltage between unified meter and A/C amp. harness connector M66 terminal 9 and ground. 2. 9 - Ground Н When driver seat belt is fas-: Approx. 12 V tened When driver seat belt is unfas-: Approx. 0 V tened Is the inspection result normal? YES >> Replace unified meter and A/C amp. NO >> GO TO 2. 2.check seat belt buckle switch circuit K Turn ignition switch OFF. Disconnect unified meter and A/C amp, connector and seat belt buckle switch (driver side) connector. 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. Check harness continuity between unified meter and A/C amp. harness connector M66 terminal 9 and around. 9 - Ground : Continuity should not exist. WCS 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.

WCS-21

INFOID:0000000000964497

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

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

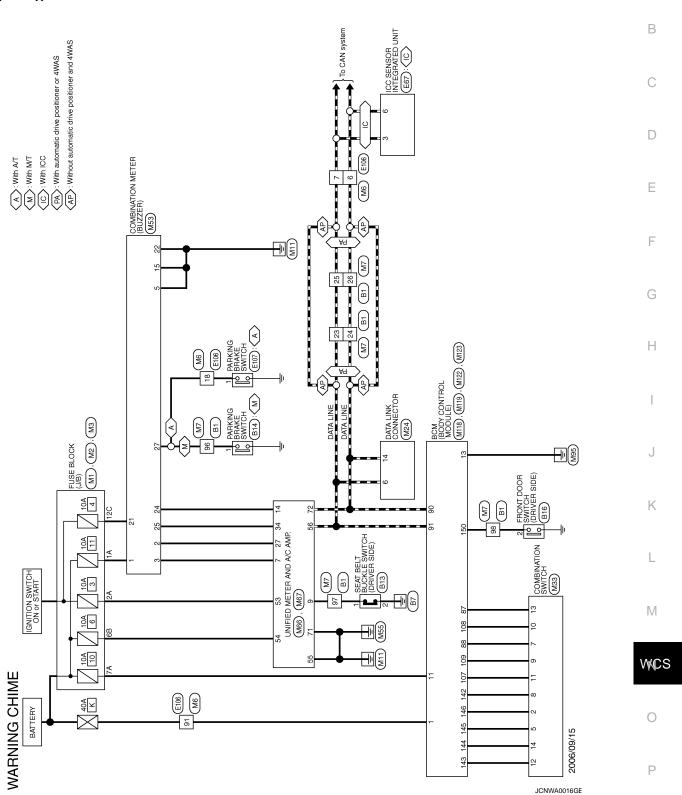
NO >> Replace the seat belt buckle. Refer to SB-7, "SEAT BELT BUCKLE: Removal and Installation".

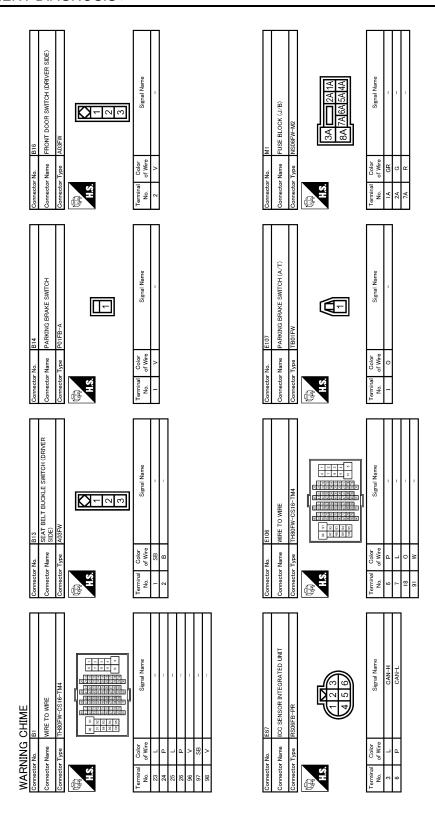
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INFOID:0000000000964498

WARNING CHIME SYSTEM

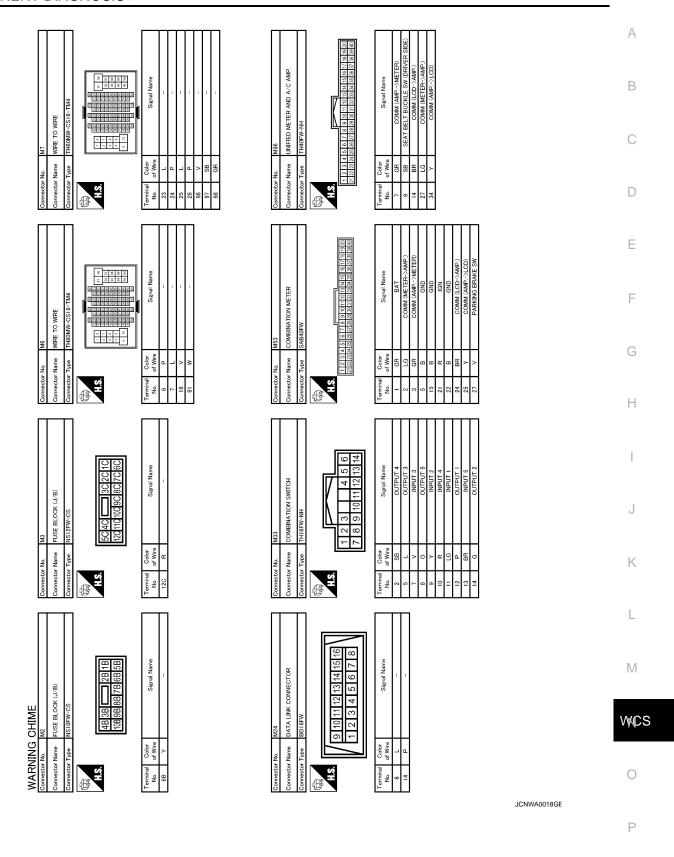
Wiring Diagram — WARNING CHIME —

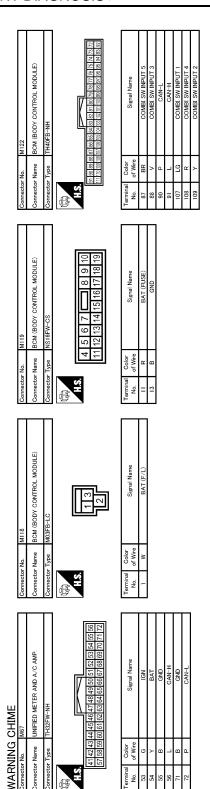




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WARNING CHIME SYSTEM





| BCM (BODY CONTROL MODULE) | TH40FG-NH | | Signal Name | COMBI SW OUTPUT 5 | COMBI SW OUTPUT 1 | COMBI SW OUTPUT 2 | COMBI SW OUTPUT 3 | COMBI SW OUTPUT 4 | |
|---------------------------|----------------|---|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|
| · Name | Type | (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) | Color of Wire | 0 | Ь | 9 | Г | SB | |
| Connector Name | Connector Type | H.S. | Terminal No. | 142 | 143 | 144 | 145 | 146 | |

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ECU DIAGNOSIS

COMBINATION METER

Reference Value INFOID:0000000000964499

VALUES ON THE DAIAGNOSIS TOOL

Refer to MWI-80, "Reference Value".

TERMINAL LAYOUT

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PHYSICAL VALUES

| | nal No. color) | Description | | Condition | | Value (Approx.) | |
|-----------|-------------------|---------------------------------------|------------------|---------------------------|---------------------------|----------------------------|--|
| + | _ | Signal name | Input/ Output | | | | |
| 1 (GR) | Ground | Battery power supply | Input | Ignition switch OFF | _ | Battery voltage | |
| 2 (LG) | Ground | Communication signal (METER→ AMP.) | Output | Ignition switch ON | _ | (V) 6 4 2 0 JSNIA0027GB | |
| 3 (GR) | Ground | Communication signal (AMP.→ METER) | Input | Ignition switch ON | _ | (V) 6 4 2 0 Us JSNIA0027GB | |
| 5 (B) | Ground | Ground | _ | Ignition switch ON | _ | 0 V | |
| 6 | | | | Ignition | Charge warning lamp ON | 0 V | |
| (W) | Ground | Alternator signal | Input | switch ON | Charge warning lamp OFF | 12 V | |
| 7 | | A | | Ignition | Air bag warning lamp ON | 4 V | |
| (LG) | Ground | Air bag signal | Input | switch ON | Air bag warning lamp OFF | 0 V | |
| 10 | | 0 | 1 | Ignition | Security warning lamp ON | 0 V | |
| (G) | Ground | Security signal | Input | switch OFF | Security warning lamp OFF | 12 V | |

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COMBINATION METER

< ECU DIAGNOSIS >

| Terminal No. (Wire color) | | Description | | Condition | | Value | |
|------------------------------|--------|-----------------------------------|---------------------------|--------------------------|---|---|--|
| + | _ | Signal name | Signal name Input/ Output | | Condition | (Approx.) | |
| 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 | | (V) 15 10 0 400 μs JSNIA0028GB | |
| 25 (Y) | Ground | Communication signal (AMP.→ LCD) | Input | Ignition switch ON | - | (V) 6 4 2 0 200 µs JSNIA0027GB | |
| 26 (R) | Ground | Vehicle speed signal (8-pulse) | Input | Ignition switch ON | Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)] | NOTE: The maximum voltage varies depending on the specification (destination unit). | |
| | | | | | Parking brake ON | 0 V | |
| 27 (V) | Ground | Parking brake switch signal | Input | Ignition switch ON | Parking brake OFF | (V) 8 4 0 10 ms JSNIA0007GB | |

COMBINATION METER

< ECU DIAGNOSIS >

| Terminal No. (Wire color) | | Description | | Condition | | Value | |
|------------------------------|-----------|--|----------------------------------|--------------------------|---|---|--|
| + | _ | Signal name | Input/ Output | Containen: | | (Approx.) | |
| 28 (W) Ground | | Brake fluid level switch signal | Input | Ignition switch ON | Brake fluid level is normal. | (V) 10 0 10 ms JSNIA0008GB | |
| | | | | | The brake fluid level is low- er than the low level | 0 V | |
| 29 | Ground | Seat belt buckle switch sig- | Ignition | | When driver seat belt is fastened | 12 V | |
| (SB) | Ground | nal (driver side) | Input | switch ON | When driver seat belt is un- fastened | 0 V | |
| 31 | | | | Ignition | Washer level switch ON | 0 V | |
| (L) | Ground | Washer level switch signal | Input | switch ON | Washer level switch OFF | 5 V | |
| 34 (R) | Ground | Illumination control signal | Output | Ignition switch ON | Lighting switch ON, then operate the illumination control switch. | NOTE: When brightness level is midway (V) 10 0 2 ms JSNIA0010GB | |
| 36 | 16 | Select switch signal | Input | Ignition switch | When is pressed | 0 V | |
| (LG) | (B) | Select Switch signal | mput | ON | Other than the above | 5 V | |
| 37 (SB) | 16 (B) | Enter switch signal | Input | Ignition switch | When \square is pressed | 0 V | |
| (36) | (D) | | | ON | Other than the above | 5 V | |
| 38 | 16 (B) | Trip A/B reset switch signal | A/B reset switch signal Input sv | Ignition switch | When trip A/B reset switch is pressed | 0 V | |
| (L) | (L) (B) | | | ON | Other than the above | 5 V | |
| 39 (P) | 16 (B) | Illumination control switch signal (–) | Input | Ignition switch | When 📆 switch is pressed | 0 V | |
| . , | (-, | olgital () | | ON | Other than the above | 5 V | |
| 40 (O) | 16 (B) | | Input | Ignition switch ON | When 👸 + switch is pressed | 0 V | |
| (0) | (O) (B) | | | | Other than the above | 5 V | |

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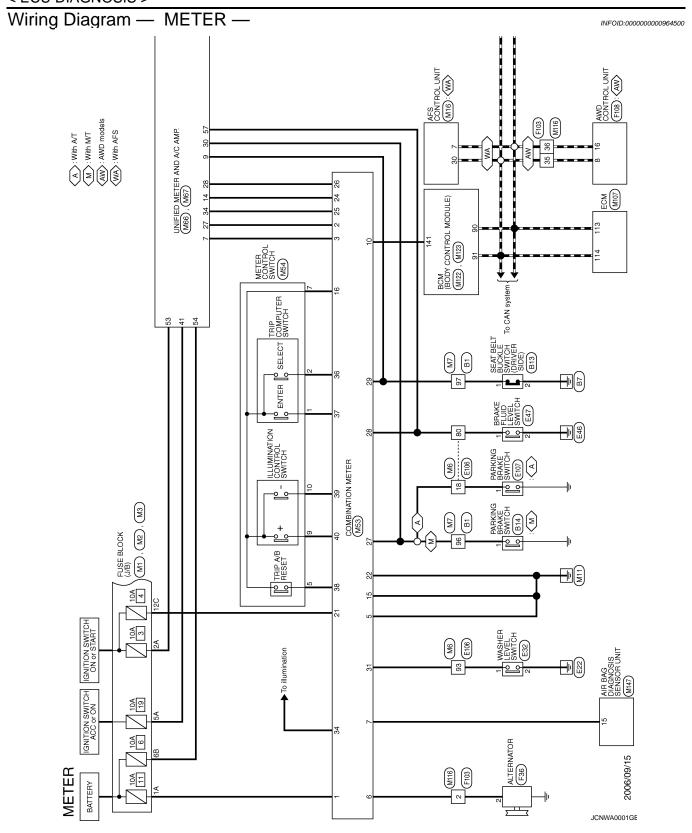
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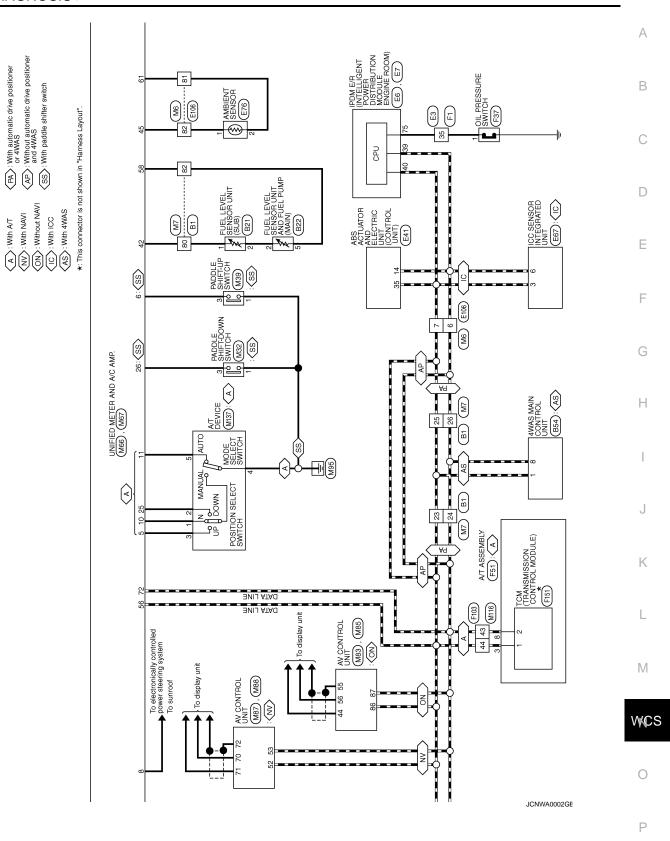
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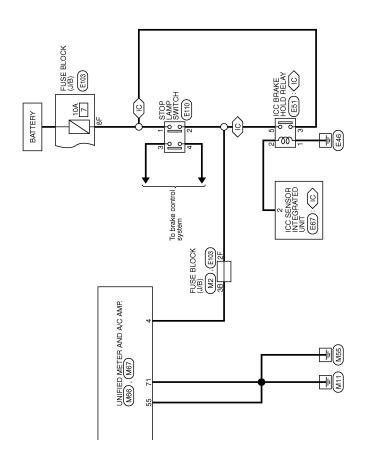
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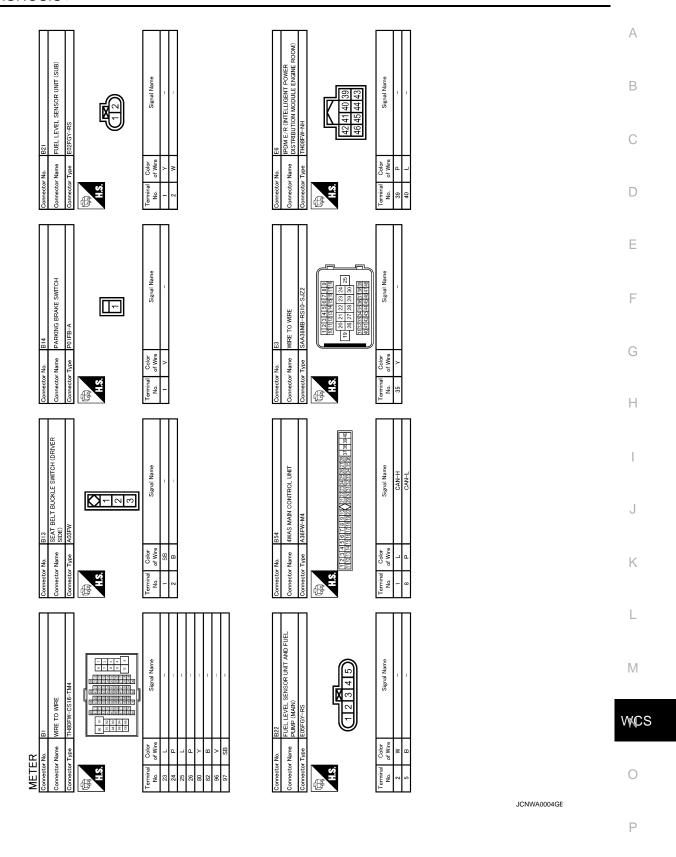
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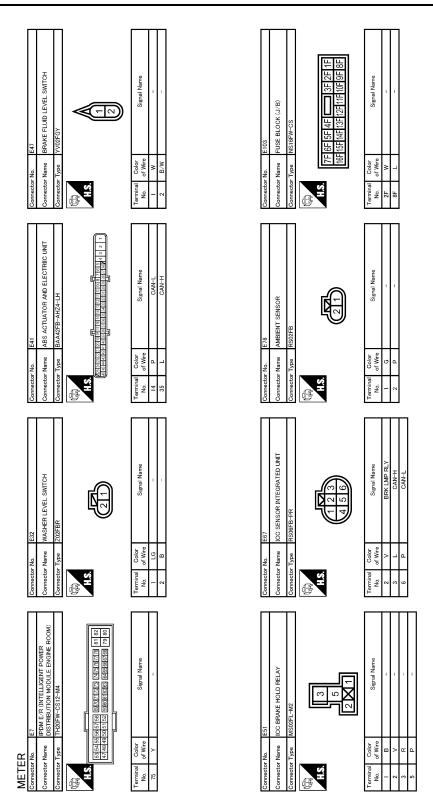




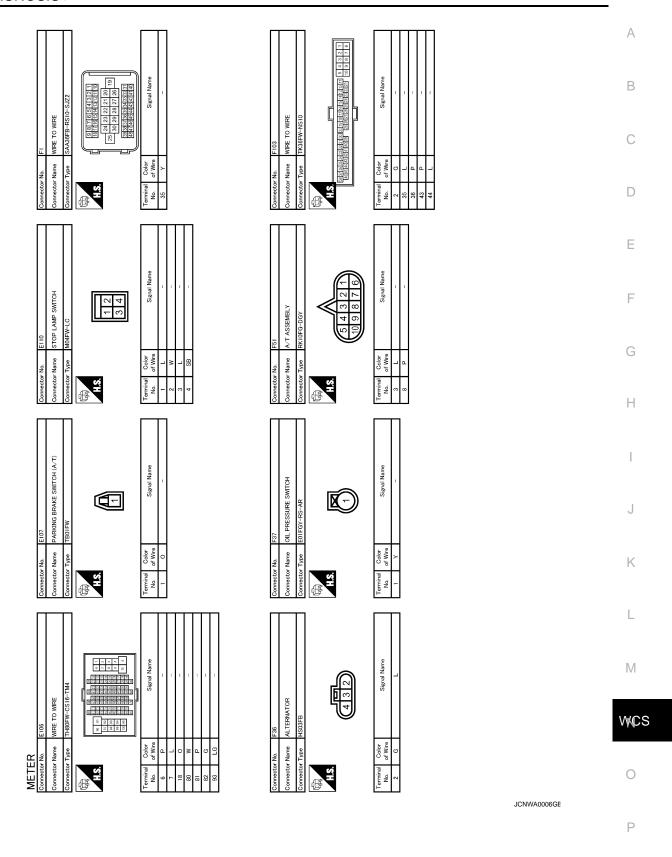


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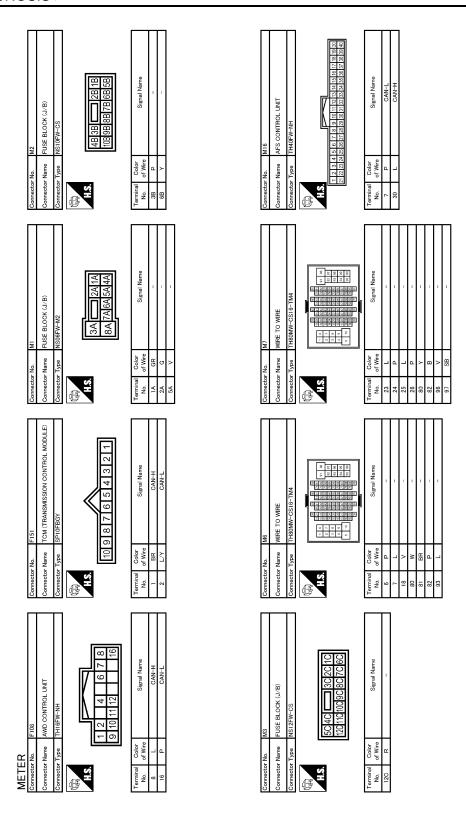




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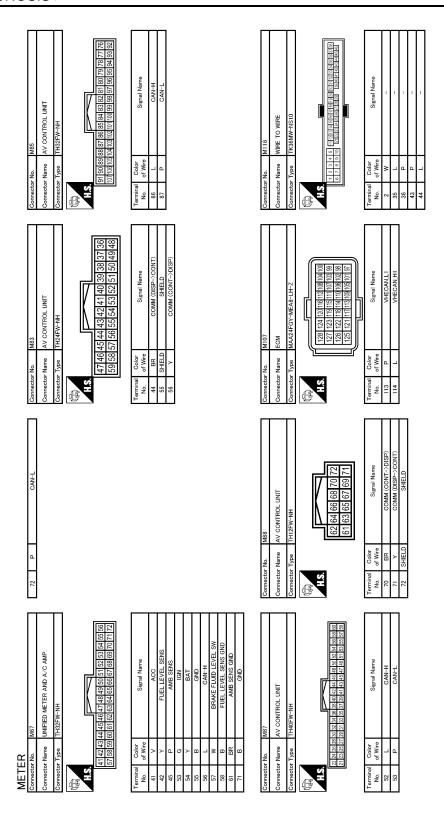
COMBINATION METER



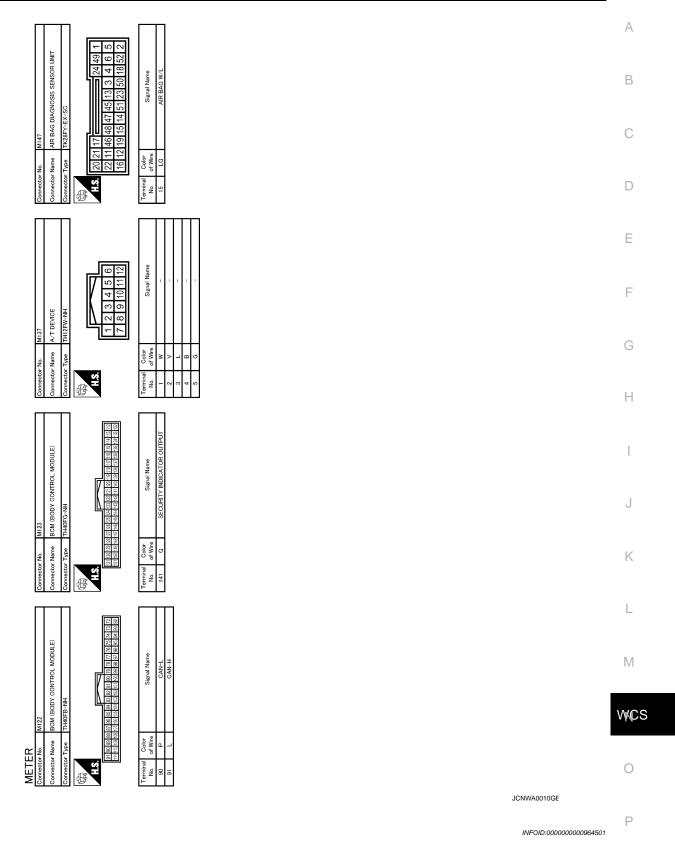
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| | COMM (LQP-)AMP.) COMM (AMP-)LCD. VEHICLE SPEC (6-PULSE) VEHICLE SPEC (6-PULSE) VEHICLE SPEC (6-PULSE) WASHER LEVEL SW ILLUMINATION CONTROL. SELECT SW ENTER A-B RESET SW ILLUMINATION CONTROL. SW (+) ILLUMINATION CONTROL. SW (+) | | АВ |
|-------|--|-------------|-------|
| | | | С |
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| | or Name PADDLE SHIFTER (SHIFT UP) or Type AD4PW of Wire Or Name UNIFIED METER AND A/C AMP. Signal Name of Wire of Wire Signal Name of Wire Order AUTO MODE SW of COMM LLCD-SAMP) viral MANUAL MODE SW of COMM LLCD-SAMP) | | I |
| | Addryw Addryw Addryw Aleber Shiffer (Shiff Up) Addryw Aleber Signal Name Signa | | J |
| | Connector Name Conn | | K |
| | | | L |
| | ### PADDLE SHIPTER (SHIPT DOWN) ################################### | _ | M |
| | | V | ///CS |
| METER | Connector No. Connector Type Connector Type Terminal Color Connector No. Connector Name Terminal Color No. Terminal Color Termina | | 0 |
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COMBINATION METER



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Fail Safe

FAIL SAFE

Combination meter performs fail-safe operation when unified meter and A/C amp. communication is malfunction.

Solution for communication error between the unified meter and A/C amp. and combination meter.

COMBINATION METER

< ECU DIAGNOSIS >

| | Function | Specifications | |
|-------------------------|--------------------------------|--|--|
| Speedometer | | | |
| Tachometer | | Poset to zero by augranding communication | |
| Fuel gauge | | Reset to zero by suspending communication. | |
| 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. | |
| | ABS warning lamp | | |
| | VDC OFF indicator lamp | | |
| | SLIP indicator lamp | The lamp turns on by suspending communication. | |
| | Brake warning lamp | | |
| | CRUISE warning lamp | | |
| | BA warning lamp | | |
| | High beam indicator | | |
| | Turn signal indicator lamp | | |
| Warning lamp/indicator | Front fog indicator lamp | | |
| lamp | Oil pressure warning lamp | | |
| | Malfunction indicator lamp | | |
| | A/T CHECK warning lamp | The lamp turns off by suspending communication. | |
| | AWD warning lamp | The lamp turns on by suspending communication. | |
| | Low tire pressure warning lamp | | |
| | Key warning lamp | | |
| | AFS OFF indicator lamp | | |
| | 4WAS warning lamp | | |
| | Master warning lamp | | |

DTC Index

Refer to MWI-97, "DTC Index".

< ECU DIAGNOSIS >

UNIFIED METER AND A/C AMP.

Reference Value

VALUES ON THE DIAGNOSIS TOOL

| 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 |
| ADC W/I | Ignition switch | ABS warning lamp ON | On |
| ABS W/L | ON | ABS warning lamp OFF | Off |
| VDC/TCS IND | Ignition switch | VDC indicator lamp ON | On |
| VDC/TCS IND | ON | VDC indicator lamp OFF | Off |
| SLIP IND | Ignition switch | Slip indicator lamp ON | On |
| SLIP IND | ON | Slip indicator lamp OFF | Off |
| BRAKE W/L | Ignition switch | Blake warning lamp ON | On |
| DRAKE W/L | ON | Blake warning lamp OFF | Off |
| DOOR W/L | Ignition switch | Door warning displayed | On |
| DOOK W/L | ON | Door warning not displayed | Off |
| TRUNK/GLAS-H | Ignition switch | Trunk warning displayed | On |
| TRUNNGLAS-H | ON | Trunk warning not displayed | Off |
| HI-BEAM IND | Ignition switch | Hi-beam indicator lamp ON | On |
| TII-DEAW IND | ON | Hi-beam indicator lamp OFF | Off |
| TURN IND | Ignition switch | Turn indicator lamp ON | On |
| TORN IND | ON | Turn indicator lamp OFF | Off |
| FR FOG IND | Ignition switch | Front fog indicator lamp ON | On |
| I K I OG IND | ON | Front fog indicator lamp OFF | Off |
| RR FOG IND | Ignition switch ON | NOTE: This item is displayed, but cannot be monitored. | Off |
| LIGHTIND | Ignition switch | Light indicator lamp ON | On |
| LIGHT IND | ON | Light indicator lamp OFF | Off |

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| Monitor Item | | Condition | Value/Status |
|-----------------|-----------------------|--|--------------|
| OIL W/L | Ignition switch | Oil pressure warning lamp ON | On |
| OIL W/L | ON | Oil pressure warning lamp OFF | Off |
| MIL | Ignition switch | Malfunction warning lamp ON | On |
| IVIIL | ON | Malfunction warning lamp OFF | Off |
| CRUISE IND | Ignition switch | Cruise indicator displayed | On |
| CROISE IND | ON | Cruise indicator not displayed | Off |
| SET IND | Ignition switch | Set indicator lamp ON | On |
| SET IND | ON | Set indicator lamp OFF | Off |
| CRUISE W/L | Ignition switch | Cruise warning lamp ON | On |
| CRUISE W/L | ON | Cruise warning lamp OFF | Off |
| BA W/L | Ignition switch ON | NOTE: This item is displayed, but cannot be monitored. | Off |
| ATC/T-AMT W/L | Ignition switch ON | A/T check warning lamp ON | On |
| ATC/T-AWIT W/L | | A/T check warning lamp OFF | Off |
| 4WD W/L | Ignition switch ON | AWD warning lamp ON | On |
| 4VVD VV/L | | AWD warning lamp OFF | Off |
| 4WD LOCK IND | Ignition switch ON | NOTE: This item is displayed, but cannot be monitored. | Off |
| FUEL W/L | Ignition switch ON | Low-fuel warning displayed | On |
| FUEL W/L | | Low-fuel warning not displayed | Off |
| WASHER W/L | Ignition switch | Washer warning displayed | On |
| WASHER W/L | ON | Washer warning not displayed | Off |
| AIR PRES W/L | Ignition switch | Low tire pressure lamp ON | On |
| AIRT RES W/E | ON | Low tire pressure lamp OFF | Off |
| KEY G/Y W/L | Ignition switch | Key warning lamp ON | On |
| KET G/T W/L | ON | Key warning lamp OFF | Off |
| AFS OFF IND | Ignition switch | AFS OFF indicator lamp ON | On |
| AI O OI I IND | ON | AFS OFF indicator lamp OFF | Off |
| 4WAS/RAS W/L | Ignition switch | 4WAS warning lamp ON | On |
| TVVAO/INAO VV/L | ŎN | 4WAS warning lamp OFF | Off |

| Monitor Item | | Condition | Value/Status | |
|----------------|-----------------------|--|--------------|-----|
| | Ignition switch | Engine start information display (A/T model) | B&P I | А |
| | ON | Engine start information display (M/T model) | C&P I | |
| | Ignition switch | Engine start information display (A/T model) | B&P N | В |
| | ACC | Engine start information display (M/T model) | C&P N | |
| | Ignition switch LOCK | Key ID warning display | ID NG | С |
| | Ignition switch LOCK | Steering lock information display | ROTAT | |
| LCD | Ignition switch LOCK | P position warning display | SFT P | D |
| | Ignition switch LOCK | Intelligent Key insert information display | INSRT | Е |
| | Ignition switch LOCK | Intelligent Key low battery warning display | BATT | |
| | Ignition switch ON | Take away warning display | NO KY | F |
| | Ignition switch LOCK | Key warning display | OUTKY | G |
| | Ignition switch ON | ICC sensor integrated unit warning display | LK WN | |
| | Ignition switch | Vehicle ahead detection indicator displayed | On | Н |
| ACC TARGET | ON | Vehicle ahead detection indicator not displayed | Off | |
| | Ignition switch ON | When following distance set to "LONG" | LONG | |
| ACC DISTANCE | | When following distance set to "MIDDLE" | MID | |
| ACC DISTANCE | | When following distance set to "SHORT" | SHORT | |
| | | Set distance indicator not displayed | Off | J |
| ACC OWN VHL | Ignition switch | Own vehicle indicator displayed | On | |
| 7.00 OWN VIIL | ON | Own vehicle indicator not displayed | Off | K |
| ACC SET SPEED | Ignition switch | Set vehicle speed indicator not displayed | Off | |
| ACC SET SI EED | ON | Set vehicle speed indicator displayed | On | |
| ACC UNIT | Ignition switch | Set vehicle speed indicator unit display ON | On | L |
| ACC CIVIT | ON | Set vehicle speed indicator unit display OFF | Off | |
| | | Shift position indicator P display | Р | M |
| | | Shift position indicator R display | R | |
| | | Shift position indicator N display | N | |
| | | Shift position indicator D display | D | WC: |
| SHIFT IND | Ignition switch ON | Shift position indicator M1 display | M1 | |
| | 011 | Shift position indicator M2 display | M2 | |
| | | Shift position indicator M3 display | M3 | O |
| | | Shift position indicator M4 display | M4 | |
| | | Shift position indicator M5 display | M5 | Р |
| | Ignition switch | Snow mode switch ON | On | |
| AT S MODE SW | ON SWITCH | Snow mode switch OFF | Off | |
| AT P MODE SW | Ignition switch | NOTE: This item is displayed, but cannot be monitored. | Off | |

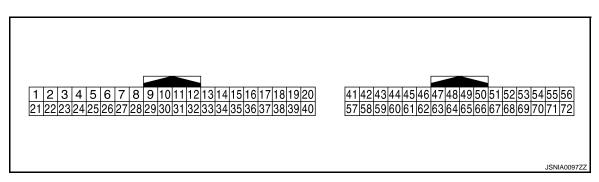
< ECU DIAGNOSIS >

| Monitor Item | | Condition | Value/Status |
|---------------------------|-----------------------|--|--|
| M DANCE CW | Ignition switch | Selector lever manual mode position | On |
| M RANGE SW | ON | Other than the above | Off |
| NM RANGE SW | Ignition switch | Selector lever manual mode position | Off |
| NIVI RAINGE SVV | ON | Other than the above | On |
| AT SFT UP SW | Ignition switch | Selector lever + position | On |
| AT SET UP SW | ON | Other than the above | Off |
| AT CET DWM CW | Ignition switch | Selector lever – position | On |
| AT SFT DWN SW | ON | Other than the above | Off |
| OT OFT UD OW | Ignition switch | Paddle shifter switch up operation | On |
| ST SFT UP SW | ON | Other than the above | Off |
| OT OFT DIAME OW | Ignition switch | Paddle shifter switch down operation | On |
| ST SFT DWN SW | ON | Other than the above | Off |
| COMP ED CIO | Ignition switch ON | A/C compressor activation condition | On |
| COMP FB SIG | | A/C compressor deactivation condition | Off |
| 4WD LOCK SW | Ignition switch ON | NOTE: This item is displayed, but cannot be monitored. | Off |
| DICE OW | Ignition switch | Parking brake switch ON | On |
| PKB SW | ŎN | Parking brake switch OFF | Off |
| DUOKI E OW | Ignition switch | Seat belt not fastened | On |
| BUCKLE SW | ŎN | Seat belt fastened | Off |
| DDAKE OIL OW | Ignition switch | Brake fluid level switch ON | On |
| BRAKE OIL SW | 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 | Buzzer ON | On |
| DUZZEN | ON | Buzzer OFF | Off |

NOTE:

Some items are not available according to vehicle specification.

TERMINAL LAYOUT



PHYSICAL VALUES

| | nal No. e color) | Description | | | Condition | Value |
|------------|---------------------|--|------------------|--------------------------|---|---|
| + | _ | Signal name | Input/ Output | | Condition | (Approx.) |
| 4 | | _ | | Ignition | Brake pedal is depressed | 12 V |
| (P) | Ground | Stop lamp switch signal | Input | switch OFF | Other than the above | 0 V |
| 5 | | Manual mode shift up sig- | | Ignition | Selector lever UP operation | 0 V |
| (L) | Ground | nal | Input | switch ON | Other than the above | 12 V |
| | | | | I avaiti ava | Selector lever DS posi- | |
| 6 (O) | Ground | Paddle shifter up signal | Input | Ignition switch | tionPaddle shift up operation | 0 V |
| (0) | | | | ON | Other than the above | 12 V |
| 7 (GR) | Ground | Communication signal (AMP. → METER) | Output | Ignition switch ON | _ | (V) 6 4 2 0 ** 1ms SKIA3362E |
| 8 (L) | Ground | Vehicle speed signal output (2-pulse) | Output | Ignition switch ON | Speedometer operated [When vehicle speed is ap- prox. 40 km/h (25 MPH)] | NOTE: The maximum voltage varies depending on the specification (destination unit). |
| 9 | | Seat belt buckle switch sig- | | Ignition | When seat belt is fastened | 12 V |
| (SB) | Ground | nal (driver side) | Input | switch ON | When seat belt is not fas- tened | 0 V |
| 10 | | | | Ignition | Selector lever DS position | 0 V |
| (W) | Ground | Manual mode signal | Input | switch ON | Other than the above | 12 V |
| 11 | | | | Ignition | Selector lever DS position | 12 V |
| (G) | Ground | Not manual mode signal | Input | switch ON | Other than the above | 0 V |
| 14 (BR) | Ground | Communication signal (LCD → AMP.) | Input | Ignition switch ON | _ | (V) 15 10 5 400 µs JSNIA0028GB |
| 23 (Y) | Ground | A/T snow switch signal | Input | Ignition switch ON | Snow mode switch ON Snow mode switch OFF | 12 V 0 V |
| 25 | Ground | Manual mode shift down | Input | Ignition switch | Selector lever down operation | 0 V |
| (V) | 2.30 | signal | | ON | Other than the above | 12 V |

| | inal No. e color) | Description | | | Condition | Value |
|------------|----------------------|---------------------------------------|------------------|---------------------------|---|---|
| + | _ | Signal name | Input/ Output | | Condition | (Approx.) |
| 26 (G) | Ground | Paddle shift down signal | Input | Ignition switch ON | Selector lever DS position Paddle shift down operation | 0 V |
| 27 (LG) | Ground | Communication signal (METER → AMP.) | Input | Ignition switch ON | Other than the above | 12 V (V) 6 4 2 0 *** 1ms SKIA3361E NOTE: |
| 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)] | The maximum voltage varies depending on the specification (destination unit). |
| | | | | | Parking brake ON | 0 V |
| 30 (V) | Ground | Parking brake switch signal | Input | Ignition switch ON | Parking brake OFF | (V) 8 4 0 10 ms JSNIA0007GE |
| 34 (Y) | Ground | Communication signal (AMP. → LCD) | Output | Ignition switch ON | _ | (V) 6 4 2 0 200 µs JSNIA0027GE |
| 41 (V) | Ground | ACC power supply | Input | Ignition switch ACC | | Battery voltage |
| 42 (Y) | Ground | Fuel level sensor signal | Input | Ignition switch ON | _ | (V) 4 3 2 1 0 E 1/4 1/2 3/4 F JSNIA0013GE |

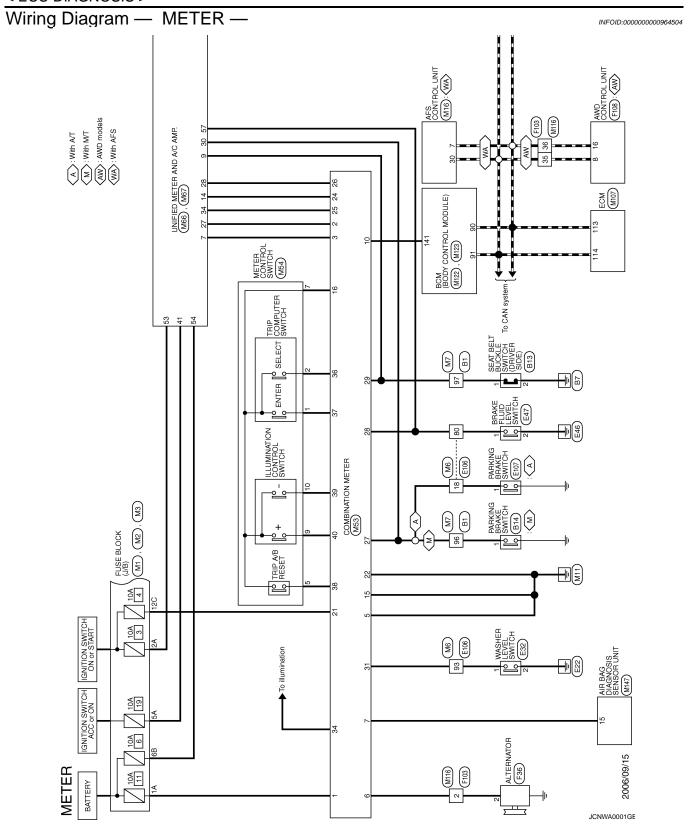
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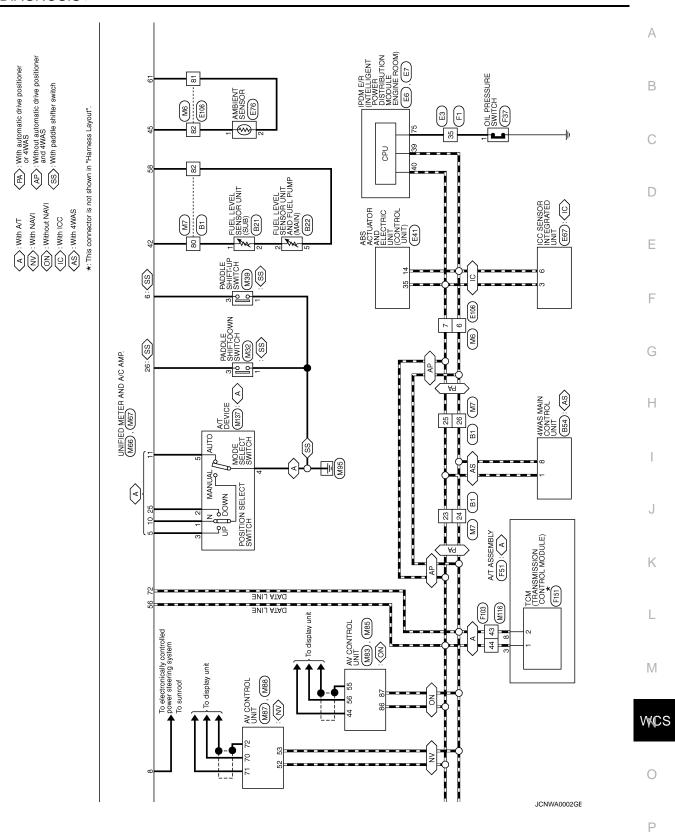
| | inal No. e color) | Description | | | Condition | Value | А |
|------------|----------------------|---------------------------------|------------------|---------------------------|--|--|-----|
| + | _ | Signal name | Input/ (Approx.) | | (Approx.) | | |
| 45 (P) | Ground | Ambient sensor signal | Input | _ | _ | (V) 4 3 2 1 0 -10 0 10 20 30 40 1°C (14) (32) (50) (68) (86) (104) [°F] JSNIA0014GB | С |
| 53 (G) | Ground | Ignition signal | Input | Ignition switch ON | _ | Battery voltage | Е |
| 54 (Y) | Ground | Battery power supply | Input | Ignition switch OFF | _ | Battery voltage | F |
| 55 (B) | Ground | Ground | _ | Ignition switch ON | _ | 0 V | |
| 56 (L) | Ground | CAN-H | _ | _ | _ | _ | G |
| 57 (W) | Ground | Brake fluid level switch signal | Input | Ignition switch ON | Brake fluid level is normal. | (V) 10 0 10 ms JSNIA0008GB | H |
| | | | | | The brake fluid level is low- er than the low level | 0 V | J |
| 58 (B) | Ground | Fuel level sensor signal ground | _ | Ignition switch ON | _ | 0 V | K |
| 61 (BR) | Ground | Ambient sensor signal ground | _ | Ignition switch ON | _ | 0 V | L |
| 71 (B) | Ground | Ground | _ | Ignition switch ON | _ | 0 V | M |
| 72 (P) | Ground | CAN-L | _ | _ | _ | _ | W(C |

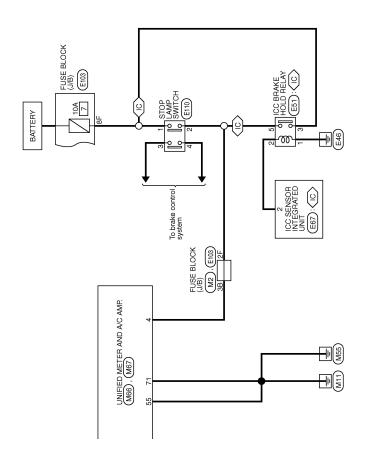
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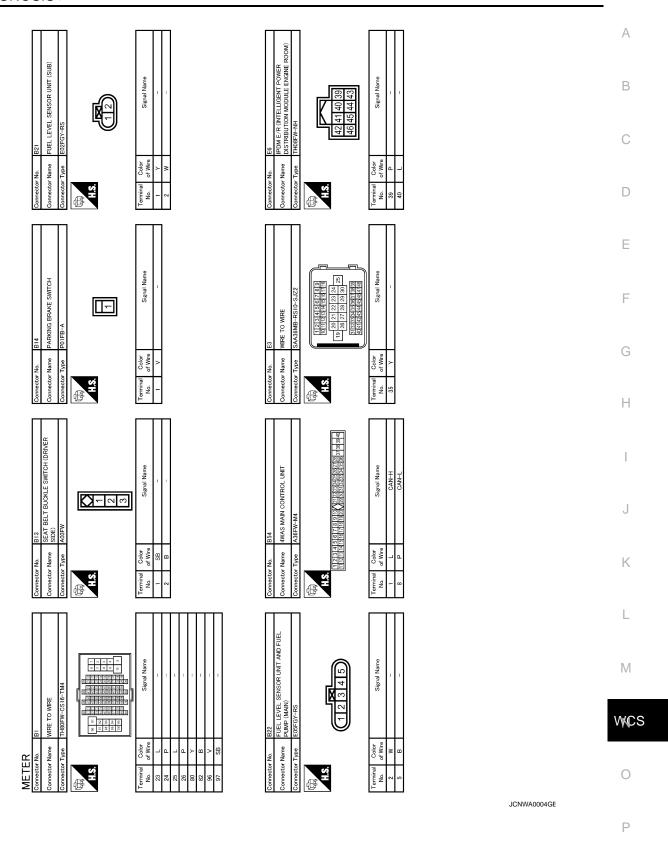
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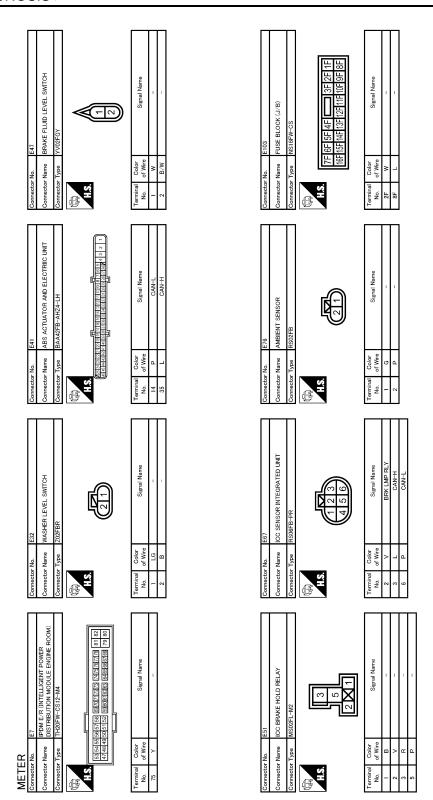




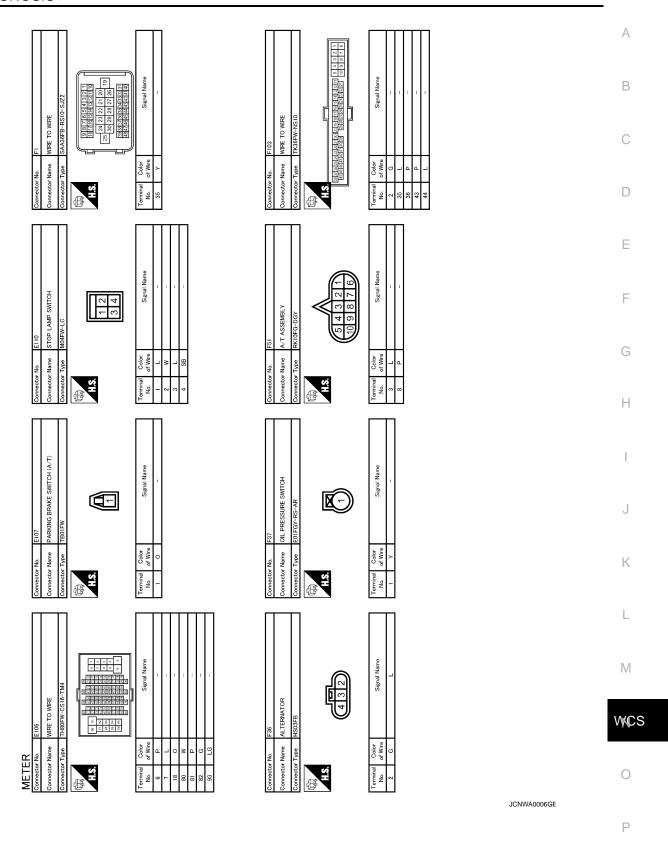


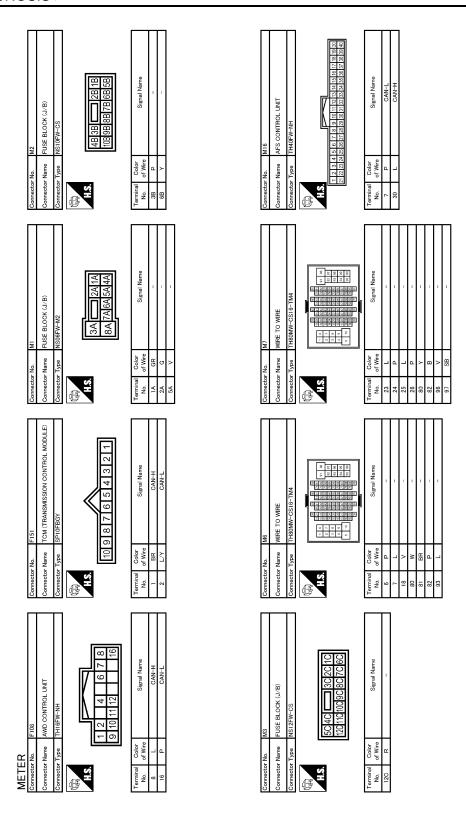
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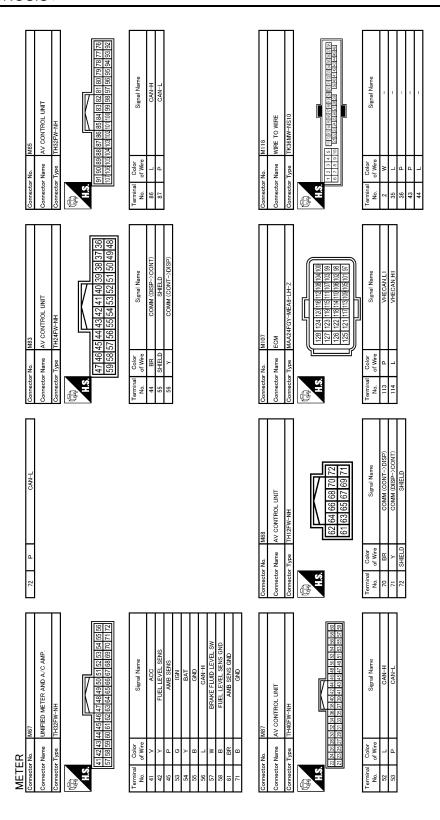
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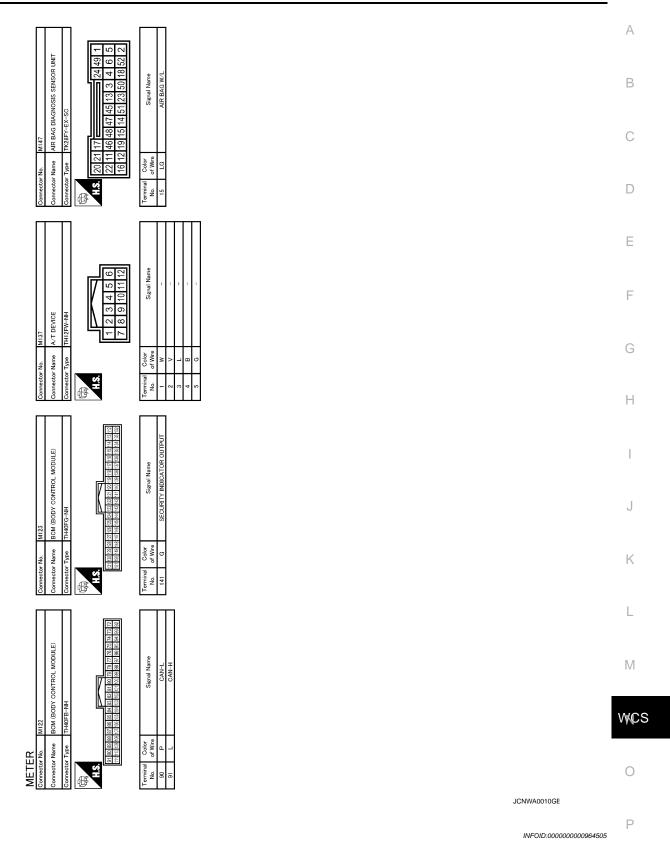


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| P. D. D. D. D. D. D. D. S. S. W. C. D. D. S. W. C. D. | | | А |
|--|--|-------------|-----|
| COMMILLOD-NAMP) VENDLING AMPLES PER OF PRUISE) VENDLING SPEED (9-PULSE) PARRIGE BRARE SW SET FRUID LEVEL SW SET FRUID LEVEL SW ILLUMINATION CONTROL SELECT SW FRITE SW TRIP ALS BRESET SW ILLUMINATION CONTROL SW (*) ILLUMINATION CONTROL SW (*) | | | В |
| 0 0 1 8 8 8 4 4 8 8 8 6 8 6 8 | | | С |
| 2 | | | D |
| me (SEC) (SE | S-AMP.) WE SW ->LCD) | | Е |
| No. M53 No. | COMM (METER->AMP) VEHICLE SPEED (8-PULSE) PARRING BEARE SW COMM (AMP ->LCD) | | F |
| | 9 ~ > > | | G |
| Connector Connector Connector Terminal No. 1 2 2 2 2 6 6 6 7 10 10 10 10 12 22 22 | 28 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | | Н |
| R (SHIFT UP) Signal Name | TER AND A/C AMP. | | I |
| M839 PADDLE SHIFTER (SHIFT UP) AGMPW Signal Name | - 후 후 | | J |
| Connector No. Connector Name Connector Type No. I of Wire I W W I W | Connector No. M66 Connector Name UNIFIED M Connector Type TH40FW-F (12 23 4 5 6 7 8 C12 22 22 25 62 7 8 C12 22 22 25 62 7 8 C12 22 23 4 5 6 7 8 C12 22 23 4 5 6 7 8 C12 22 23 4 5 6 7 8 C12 22 23 4 8 C14 8R C14 8R C15 C18 | | K |
| | | | L |
| AGSPW AGSPW Signal Name | МБ4 ТНІ2РW-NH 1 2 3 4 5 6 7 8 9 10 11 12 Signal Name | | M |
| lire s | | | WCS |
| METER Connector Name Connector Type No. of Wit. 3 of Wit. 3 of Wit. | Connector No. Connector Name Connector Type Color No. Color No | | 0 |
| | | JCNWA0008GE | |
| | | | Р |



JCNWA0009GE



Fail Safe

FAIL SAFE

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

< ECU DIAGNOSIS >

| | Function | Specifications | |
|-------------------------|--------------------------------|--|--|
| Speedometer | | | |
| Tachometer | | Reset to zero by suspending communication. | |
| Fuel gauge | | Reset to zero by suspending communication. | |
| 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. | |
| | ABS warning lamp | | |
| | VDC OFF indicator lamp | | |
| | SLIP indicator lamp | | |
| | Brake warning lamp | | |
| | CRUISE warning lamp | The lamp turns on by suspending communication. | |
| | BA warning lamp | | |
| | AWD warning lamp | | |
| | Low tire pressure warning lamp | | |
| Warning lamp/indicator | 4WAS warning lamp | | |
| lamp | AFS OFF indicator lamp | The lamp blinking caused by communication malfunction | |
| | High beam indicator | | |
| | Turn signal indicator lamp | | |
| | Front fog indicator lamp | | |
| | Oil pressure warning lamp | The lamp turns off by suspending communication. | |
| | Malfunction indicator lamp | The lamp turns on by suspending communication. | |
| | A/T CHECK warning lamp | | |
| | Key warning lamp | | |
| | Master warning lamp | | |

DTC Index

| Display contents of CON- SULT-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-40 |
| CONTROL UNIT (CAN) [U1010] | CRNT, 1 - 39 | When detecting error during the initial diagnosis of CAN controller of unified meter and A/C amp. | <u>MWI-41</u> |
| 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-42 |
| 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. | <u>MWI-44</u> |
| 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. | <u>MWI-46</u> |
| ENGINE SPEED [B2267] | CRNT, 1 - 39 | If ECM continuously transmits abnormal engine speed signals for 2 seconds or more. | <u>MWI-47</u> |
| WATER TEMP [B2268] | CRNT, 1 - 39 | If ECM continuously transmits abnormal engine coolant temperature signals for 60 seconds or more. | <u>MWI-48</u> |

< ECU DIAGNOSIS >

BCM (BODY CONTROL MODULE)

Reference Value

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VALUES ON THE DIAGNOSIS TOOL

| Condition | Value/Status |
|---|---|
| Other than front wiper switch HI | OFF |
| Front wiper switch HI | ON |
| Other than front wiper switch LO | OFF |
| Front wiper switch LO | ON |
| Front washer switch OFF | OFF |
| Front washer switch ON | ON |
| Other than front wiper switch INT | OFF |
| Front wiper switch INT | ON |
| Front wiper is not in STOP position | OFF |
| Front wiper is in STOP position | ON |
| Wiper intermittent dial is in a dial position 1 - 7 | Wiper intermittent dial position |
| Other than turn signal switch RH | OFF |
| Turn signal switch RH | ON |
| Other than turn signal switch LH | OFF |
| Turn signal switch LH | ON |
| Other than lighting switch 1ST and 2ND | OFF |
| Lighting switch 1ST or 2ND | ON |
| Other than lighting switch HI | OFF |
| Lighting switch HI | ON |
| Other than lighting switch 2ND | OFF |
| Lighting switch 2ND | ON |
| Other than lighting switch 2ND | OFF |
| Lighting switch 2ND | ON |
| Other than lighting switch PASS | OFF |
| Lighting switch PASS | ON |
| Other than lighting switch AUTO | OFF |
| Lighting switch AUTO | ON |
| Front fog lamp switch OFF | OFF |
| Front fog lamp switch ON | ON |
| NOTE: The item is indicated, but not monitored. | OFF |
| Driver door closed | OFF |
| Driver door opened | ON |
| Passenger door closed | OFF |
| Passenger door opened | ON |
| Rear RH door closed | OFF |
| Rear RH door opened | ON |
| Rear LH door closed | OFF |
| Rear LH door opened | ON |
| | Other than front wiper switch HI Front wiper switch HI Other than front wiper switch LO Front wiper switch LO Front washer switch OFF Front washer switch ON Other than front wiper switch INT Front wiper switch INT Front wiper switch INT Front wiper is not in STOP position Front wiper is in STOP position Wiper intermittent dial is in a dial position 1 - 7 Other than turn signal switch RH Turn signal switch RH Other than turn signal switch LH Turn signal switch 1ST and 2ND Lighting switch 1ST or 2ND Other than lighting switch 1ST and 2ND Lighting switch HI Other than lighting switch 2ND Lighting switch 2ND Other than lighting switch 2ND Lighting switch PASS Lighting switch PASS Other than lighting switch AUTO Lighting switch AUTO Front fog lamp switch OFF Front fog lamp switch ON NOTE: The item is indicated, but not monitored. Driver door closed Passenger door closed Passenger door opened Rear RH door closed Rear RH door closed Rear RH door closed |

WCS-59

| Monitor Item | Condition | Value/Status |
|-------------------|--|--------------|
| DOOR SW-BK | NOTE: The item is indicated, but not monitored. | OFF |
| CDL LOCK SW | Other than power door lock switch LOCK | OFF |
| ODE LOCK OW | Power door lock switch LOCK | ON |
| CDL UNLOCK SW | Other than power door lock switch UNLOCK | OFF |
| CDE ONLOCK SW | Power door lock switch UNLOCK | ON |
| KEY CYL LK-SW | Other than driver door key cylinder LOCK position | OFF |
| RET OTE ER-SW | Driver door key cylinder LOCK position | ON |
| KEY CYL UN-SW | Other than driver door key cylinder UNLOCK position | OFF |
| RET OTE ON OW | Driver door key cylinder UNLOCK position | ON |
| KEY CYL SW-TR | NOTE: The item is indicated, but not monitored. | OFF |
| HAZARD SW | Hazard switch is not pressed | OFF |
| HAZARD SW | 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 |
| TR CANCEL SW | Trunk lid opener cancel switch OFF | OFF |
| TH CANOLL OW | Trunk lid opener cancel switch ON | ON |
| TR/BD OPEN SW | Trunk lid opener switch OFF | OFF |
| TIVED OF LIVEW | While the trunk lid opener switch is turned ON | ON |
| TRNK/HAT MNTR | Trunk lid closed | OFF |
| TRINIVITAL WINTER | Trunk lid opened | ON |
| RKE-LOCK | LOCK button of Intelligent Key is not pressed | OFF |
| THE LOOK | LOCK button of Intelligent Key is pressed | ON |
| RKE-UNLOCK | UNLOCK button of Intelligent Key is not pressed | OFF |
| THE ONEOON | UNLOCK button of Intelligent Key is pressed | ON |
| RKE-TR/BD | TRUNK OPEN button of Intelligent Key is not pressed | OFF |
| THE THOO | TRUNK OPEN button of Intelligent Key is pressed | ON |
| RKE-PANIC | PANIC button of Intelligent Key is not pressed | OFF |
| KKE-I AINIO | PANIC button of Intelligent Key is pressed | ON |
| RKE-P/W OPEN | UNLOCK button of Intelligent Key is not pressed | OFF |
| KKL-1/W OI LIV | 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 |
| RRE-WODE CHG | LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously | ON |
| ODTICAL CENCOR | Outside of the vehicle bright | Close to 5 V |
| OPTICAL SENSOR | Outside of the vehicle dark | Close to 0 V |
| DEO SW DD | Driver door request switch is not pressed | OFF |
| REQ SW-DR | Driver door request switch is pressed | ON |
| DEO SW AS | Passenger door request switch is not pressed | OFF |
| REQ SW-AS | Passenger door request switch is pressed | ON |
| DEO SW DD/TD | Trunk request switch is not pressed | OFF |
| REQ SW-BD/TR | Trunk request switch is pressed | ON |

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| Monitor Item | Condition | Value/Status |
|-----------------|--|--------------|
| PUSH SW | Push-button ignition switch (push switch) is not pressed | OFF |
| 0011000 | Push-button ignition switch (push switch) is pressed | ON |
| GN RLY2 -F/B | Ignition switch in OFF or ACC position | OFF |
| ON NETZ -17D | Ignition switch in ON position | ON |
| ACC RLY -F/B | Ignition switch in OFF position | OFF |
| 400 KET -17B | Ignition switch in ACC or ON position | ON |
| CLUCH SW | The clutch pedal is not depressed | OFF |
| 320011 OW | The clutch pedal is depressed | ON |
| BRAKE SW 1 | The brake pedal is not depressed | ON |
| SKARE OW I | The brake pedal is depressed | OFF |
| DETE/CANCL SW | Selector lever in P position | OFF |
| DETE/CANCE SW | Selector lever in any position other than P | ON |
| CET DN/NI CV/ | Selector lever in any position other than P and N | OFF |
| SFT PN/N SW | Selector lever in P or N position | ON |
| S/L -LOCK | Steering is locked | OFF |
| S/L -LOCK | Steering is unlocked | ON |
| C/L LINILOCK | Steering is unlocked | OFF |
| S/L -UNLOCK | Steering is locked | ON |
| 2/L DELAY E/D | Ignition switch is OFF or ACC position | OFF |
| S/L RELAY-F/B | Ignition switch is ON position | ON |
| INII IX OENI DD | Driver door is unlocked | OFF |
| JNLK SEN-DR | Driver door is locked | ON |
| DUOLLOW IDDM | Push-button ignition switch (push-switch) is not pressed | OFF |
| PUSH SW -IPDM | Push-button ignition switch (push-switch) is pressed | ON |
| ON DIVA E/D | Ignition switch is OFF or ACC position | OFF |
| GN RLY1 -F/B | Ignition switch is ON position | ON |
| DETE OW IDDM | Selector lever in P position | OFF |
| DETE SW -IPDM | Selector lever in any position other than P | ON |
| | Selector lever in any position other than P and N | OFF |
| SFT PN -IPDM | Selector lever in P or N position | ON |
| | Selector lever in any position other than P | OFF |
| SFT P -MET | Selector lever in P position | ON |
| | Selector lever in any position other than N | OFF |
| SFT N -MET | Selector lever in N position | ON |
| | Engine stopped | STOP |
| | While the engine stalls | STALL |
| ENGINE STATE | At engine cranking | CRANK |
| | Engine running | RUN |
| | Steering is locked | OFF |
| S/L LOCK-IPDM | Steering is unlocked | ON |
| | Steering is unlocked | OFF |
| S/L UNLK-IPDM | Steering is locked | ON |
| | Ignition switch in OFF or ACC position | OFF |
| S/L RELAY-REQ | Ignition switch in ON position | ON |

| Monitor Item | Condition | Value/Status |
|-----------------|--|--|
| VEH SPEED 1 | While driving | Equivalent to speedometer reading |
| VEH SPEED 2 | While driving | Equivalent to speedometer reading |
| | Driver door is locked | LOCK |
| DOOR STAT-DR | Wait with selective UNLOCK operation (5 seconds) | READY |
| | Driver door is unlocked | UNLK |
| | Passenger door is locked | LOCK |
| DOOR STAT-AS | Wait with selective UNLOCK operation (5 seconds) | READY |
| | Passenger door is unlocked | UNLK |
| ID OK FLAG | Ignition switch in ACC or ON position | RESET |
| ID ON I LAG | Ignition switch in OFF position | SET |
| PRMT ENG STRT | The engine start is prohibited | RESET |
| FRWI LNG STRT | The engine start is permitted | SET |
| PRMT RKE STRT | NOTE: The item is indicated, but not monitored. | RESET |
| KEY SW -SLOT | Intelligent Key is not inserted into key slot | OFF |
| RET SW -SEOT | 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. | _ |
| 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 REGST FLT | ID of front LH tire transmitter is not registered | YET |
| ID REGST FR1 | ID of front RH tire transmitter is registered | DONE |
| ID REGST FRT | ID of front RH tire transmitter is not registered | YET |
| ID REGST RR1 | ID of rear RH tire transmitter is registered | DONE |
| ID REGST RRT | ID of rear RH tire transmitter is not registered | YET |
| ID REGST RL1 | ID of rear LH tire transmitter is registered | DONE |
| ID NEGOT KET | ID of rear LH tire transmitter is not registered | YET |
| WARNING LAMP | Tire pressure indicator OFF | OFF |
| VVAINING LAIVIE | Tire pressure indicator ON | ON |
| BUZZER | Tire pressure warning alarm is not sounding | OFF |
| DOLLLIN | Tire pressure warning alarm is sounding | ON |

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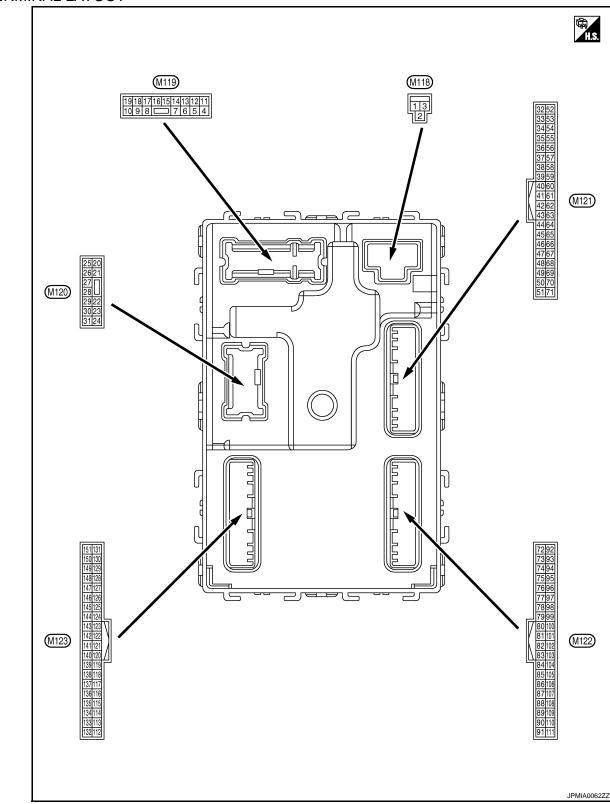
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TERMINAL LAYOUT



PHYSICAL VALUES

WCS-63

| | inal No. e color) | Description | | | | Value |
|-----------|----------------------|---|------------------|---|---|---|
| + | - COIOI) | Signal name | Input/ Output | Condition | | (Approx.) |
| 1 (W) | Ground | Battery power supply | Input | Ignition switch OFF | | Battery voltage |
| 2 (Y) | Ground | P/W power supply (BAT) | Output | Ignition switch OF | F | Battery voltage |
| 3 (O) | Ground | P/W power supply (RAP) | Output | Ignition switch ON | | Battery voltage |
| 4 | | Interior room lamp | • | After passing the interior room lamp battery saver operation time | | 0 V |
| (LG) | Ground | power supply | Output | Any other time after lamp battery save | er passing the interior room roperation time | Battery voltage |
| 5 | 01 | Passenger door UN- | 0 1 1 | | UNLOCK (Actuator is activated) | Battery voltage |
| (V) | Ground | LOCK | Output | Passenger door | Other than UNLOCK (Actuator is not activated) | 0 V |
| 7 | Craund | Cton lawn | Outnut | Cton laws | ON | 0 V |
| (Y) | Ground | Step lamp | Output | Step lamp | OFF | Battery voltage |
| 8 | Ground | All doors, fuel lid | Output | All doors, fuel lid | LOCK (Actuator is activated) | Battery voltage |
| (V) | Ground | LOCK | Output | All doors, ruer lid | Other than LOCK (Actuator is not activated) | 0 V |
| 9 | Ground | Driver door, fuel lid | Output | Driver door, fuel | UNLOCK (Actuator is activated) | Battery voltage |
| (G) | Ground | UNLOCK | Output | lid | Other than UNLOCK (Actuator is not activated) | 0 V |
| 10 | Ground | Rear RH door and rear LH door UN- | Output | Rear RH door | UNLOCK (Actuator is activated) | Battery voltage |
| (BR) | Ground | LOCK | Output | and rear LH door | Other than UNLOCK (Actuator is not activated) | 0 V |
| 11 (R) | Ground | Battery power supply | Input | Ignition switch OF | F | Battery voltage |
| 13 (B) | Ground | Ground | _ | Ignition switch ON | | 0 V |
| | | | | | OFF | 0 V |
| 14 (W) | Ground | Push-button ignition switch illumination ground | Output | Tail lamp | ON | NOTE: When the illumination brightening/dimming level is in the neutral position (V) 10 0 JSNIA0010GB |
| 15 | Crowns | ACC indicator law- | Out- | lanition cuitab | OFF | Battery voltage |
| (Y) | Ground | ACC indicator lamp | Output | Ignition switch | ACC or ON | 0 V |

| | rminal No. Description //re color) | | | | | Value |
|-----------|-------------------------------------|------------------------|------------------|-----------------------|---|--|
| (Wir | e color) | Signal name | Input/ Output | | Condition | (Approx.) |
| 17 (W) | Ground | Turn signal (front RH) | Output | Ignition switch ON | Turn signal switch OFF Turn signal switch RH | (V) 15 10 5 0 |
| | | | | | Turn signal switch OFF | 6.5 V |
| 18 (O) | Ground | Turn signal (front LH) | Output | Ignition switch ON | Turn signal switch LH | (V) 15 10 5 0 1 s PKID0926E 6.5 V |
| 19 | Ground | Room lamp timer | Output | Interior room | OFF | Battery voltage |
| (V) | Siduila | control | Juiput | lamp | ON | 0 V |
| 20 (V) | Ground | Turn signal (rear RH) | Output | Ignition switch ON | Turn signal switch OFF Turn signal switch RH | (V) 15 10 5 0 1 s PKID0926E |
| 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 |
| | | | | | Turn signal switch OFF | 0 V |
| 25 (G) | Ground | Turn signal (rear LH) | Output | Ignition switch ON | Turn signal switch LH | (V) 15 10 5 0 1 s PKID0926E 6.5 V |
| | | | | | | |
| 30 | | | | | ON | 0 V |

| | inal No. e color) | Description | | | Condition | Value | | | | | | | |
|------|----------------------|--------------------|------------------|--------------------------------------|---|---|--|--|--|--|--|--|---|
| + | _ | Signal name | Input/ Output | | Condition | (Approx.) | | | | | | | |
| 34 | Ground | Trunk room antenna | Output | Ignition switch | When Intelligent Key is in the passenger compartment | (V) 15 10 5 0 JMKIA0062GB | | | | | | | |
| (SB) | Clound | 1 (-) | Cutput | ÖFF | When Intelligent Key is not in the passenger compartment | (V) 15 10 5 0 1 s JMKIA0063GB | | | | | | | |
| 35 | Ground | Trunk room antenna | Output | Ignition switch OFF | When Intelligent Key is in the passenger compartment | (V) 15 10 5 0 1 s JMKIA0062GB | | | | | | | |
| (V) | | 1 (+) | Guiput | | · | · | | | | | | When Intelligent Key is not in the passenger compartment | (V) 15 10 5 0 1 s JMKIA0063GB |
| 38 | | Rear bumper anten- | | When the trunk | When Intelligent Key is in the antenna detection area | (V) 15 10 5 0 1 s JMKIA0062GB | | | | | | | |
| (B) | Ground | na (-) | Output | is operated with ignition switch OFF | When Intelligent Key is not in the antenna detection area | (V) 15 10 15 11 1 | | | | | | | |

| /\//ir | ninal No. e color) | Description | | | O a little o | Value |
|------------|-----------------------|---|------------------|--|---|---|
| + | e color) | Signal name | Input/ Output | | Condition | (Approx.) |
| 39 | | Rear humner anten- | | When the trunk lid request switch | When Intelligent Key is in the antenna detection area | (V) 15 10 5 0 1 s JMKIA0062GB |
| (W) | Ground | Rear bumper antenna (+) | Output | is operated with ignition switch OFF | When Intelligent Key is not in the antenna detection area | (V) 15 10 5 0 JMKIA0063GB |
| 47 | | Ignition relay (IPDM | _ | | OFF or ACC | Battery voltage |
| (Y) | Ground | E/R) control | Output | Ignition switch | ON | 0 V |
| 50 (R) | Ground | Trunk room lamp switch | Input | Trunk room lamp switch | OFF (Trunk is closed) | (V) 15 10 5 0 10 ms JPMIA0011GB |
| | | | | | ON (Trunk is open) | 0 V |
| | | | | Ignition switch | When the clutch pedal is depressed | Battery voltage |
| | | | | OFF (M/T mod- els) | When the clutch pedal is not depressed | 0 V |
| | | i e | l . | | | |
| 52 (SB) | Ground | Starter relay control | Output | Ignition switch | When selector lever is in P or N position and the brake is depressed | Battery voltage |
| | Ground | Starter relay control | Output | Ignition switch ON (A/T models) | or N position and the brake | Battery voltage 0 V |
| | Ground | Starter relay control | Output | | or N position and the brake is depressed When selector lever is in P or N position and the brake | |
| | Ground | Starter relay control Trunk request switch | Output | | or N position and the brake is depressed When selector lever is in P or N position and the brake is not depressed | 0 V (V) 15 10 10 ms JPMIA0016GB |
| (SB) | | | | ON (A/T models) Trunk request | or N position and the brake is depressed When selector lever is in P or N position and the brake is not depressed ON (Pressed) | 0 V (V) 15 10 5 0 10 ms |

| | inal No. e color) | Description | | | Condition | Value |
|------------|----------------------|-------------------------|------------------|----------------------------|--|---|
| + | _ | Signal name | Input/ Output | | Condition | (Approx.) |
| 67 (GR) | Ground | Trunk lid opener switch | Input | Trunk lid opener switch | Pressed Not pressed | 0 V (V) 15 10 5 0 10 ms JPMIA0011GB |
| 68 (BR) | Ground | Rear RH door switch | Input | Rear RH door switch | OFF (When rear RH door closes) ON (When rear RH door | (V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V |
| 69 (R) | Ground | Rear LH door switch | Input | Rear LH door switch | OFF (When rear LH door closes) ON (When rear LH door opens) | (V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V |
| 72 (D) | Ground | Room antenna 2 (-) | Output | Ignition switch | When Intelligent Key is in the passenger compartment | (V) 15 10 5 0 JMKIA0062GB |
| (R) | | (center console) | · | OFF | When Intelligent Key is not in the passenger compartment | (V) 15 10 5 11 1 s JMKIA0063GB |

| | ninal No. re color) | Description | T | | O a selfer a | Value | | | | | | | | | |
|-----------|------------------------|--|------------------|---|---|---|--------|--------|--|--|--------|---|---|--|--|
| + | - | Signal name | Input/ Output | | Condition | (Approx.) | , | | | | | | | | |
| | | | | | When Intelligent Key is in the passenger compartment | (V) 15 10 5 0 1 s JMKIA0062GB | (| | | | | | | | |
| 73 (G) | Ground | Room antenna 2 (+) (center console) | Output | Ignition switch OFF | When Intelligent Key is not in the passenger compartment | (V) 15 10 5 0 1 s JMKIA0063GB | ı | | | | | | | | |
| 74 | | Passenger door an- | | When the passenger door re- | When Intelligent Key is in the antenna detection area | (V) 15 10 5 0 1 s JMKIA0062GB | | | | | | | | | |
| (SB) | Ground | tenna (-) | Output | Output | Output | Output | Output | Guipui | | | Output | quest switch is operated with ignition switch OFF | When Intelligent Key is not in the antenna detection area | (V) 15 10 5 0 JMKIA0063GB | |
| 75 | | Passenger door an- | | When the passenger door re- | When Intelligent Key is in the antenna detection area | (V) 15 10 5 0 JMKIA0062GB | V | | | | | | | | |
| (BR) | Ground | tenna (+) | Output | quest switch is operated with ig- nition switch OFF | When Intelligent Key is not in the antenna detection area | (V) 15 10 0 1 s JMKIA0063GB | [| | | | | | | | |

| | inal No. e color) | Description | | | Condition | Value | | | | | | | | |
|------|----------------------|-----------------------|------------------|---|---|---|--|--|--|--|----|---|---|---|
| + | - | Signal name | Input/ Output | | Condition | (Approx.) | | | | | | | | |
| 76 | | Driver door antenna | | When the driver door request | When Intelligent Key is in the antenna detection area | (V) 15 10 5 0 JMKIA0062GB | | | | | | | | |
| (V) | Ground | (-) | Output | switch is operated with ignition switch OFF | When Intelligent Key is not in the antenna detection area | (V) 15 10 5 0 JMKIA0063GB | | | | | | | | |
| 77 | Ground | Driver door antenna | Output | When the driver door request | When Intelligent Key is in the antenna detection area | (V) 15 10 5 0 1 s JMKIA0062GB | | | | | | | | |
| (LG) | Glound | (+) | Guiput | Cuipui | Output | Сигри | | | | | ed | switch is operated with ignition switch OFF | When Intelligent Key is not in the antenna detection area | (V) 15 10 5 0 1 s JMKIA0063GB |
| 78 | Ground | Room antenna (-) (in- | Output | Ignition switch | When Intelligent Key is in the passenger compartment | (V) 15 10 5 0 JMKIA0062GB | | | | | | | | |
| (Y) | Giouria | strument panel) | Output | OFF | When Intelligent Key is not in the passenger compartment | (V) 15 10 5 0 JMKIA0063GB | | | | | | | | |

< ECU DIAGNOSIS >

| | ninal No. e color) | Description | | | 0 111 | Value |
|------------|-----------------------|---|------------------|------------------|---|---|
| + | e color) _ | Signal name | Input/ Output | | Condition | (Approx.) |
| 79 | Cround | Room antenna (+) | Output | Ignition switch | When Intelligent Key is in the passenger compartment | (V) 15 10 5 0 1 s JMKIA0062GB |
| (BR) | Ground | (instrument panel) | Output | OFF | When Intelligent Key is not in the passenger compartment | (V) 15 10 5 0 1 s JMKIA0063GB |
| 80 (GR) | Ground | NATS antenna amp (built in key slot) | Input/ Output | During waiting | Ignition switch is pressed while inserting the Intelligent 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 Intelligent Key into the key slot. | Just after pressing ignition switch. Pointer of tester should move. |
| 82 (R) | Ground | Ignition relay (relay box) control | Output | Ignition switch | OFF or ACC | 0 V Battery voltage |
| 83 | Ground | Remote keyless entry | Input/ | During waiting | | (V) 15 10 5 0 1 ms JMKIA0064GB |
| (Y) | Ground | receiver signal | Output | When operating e | either button on Intelligent Key | (V) 15 10 5 0 1 ms JMKIA0065GB |

WCS-71

| Terminal No. | | Description | | | | Value |
|--------------|----------|----------------------------|------------------|--------------------|---|---|
| (Wir | e color) | Signal name | Input/ Output | Condition | | (Approx.) |
| | | | | | All switch OFF (Wiper intermittent dial 4) | (V) 15 10 5 0 2 ms JPMIA0041 |
| 87 (BR) | Ground | Combination switch INPUT 5 | Input | Combination switch | Front fog lamp switch ON (Wiper intermittent dial 4) | (V) 15 10 5 0 2 ms JPMIA00370 |
| | | | | | Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7 | (V) 15 10 5 2 ms JPMIA00400 |

| | inal No. | Description | | | | Value | ٨ |
|------------|----------|---|------------------|---|--|--|-------------|
| + | e color) | Signal name | Input/ Output | | Condition | (Approx.) | Α |
| | | | | | All switch OFF (Wiper intermittent dial 4) | (V) 15 10 2 ms JPMIA0041GB | ВС |
| 88 | Ground | Combination switch | locut | Combination | Lighting switch HI (Wiper intermittent dial 4) | (V) 15 10 5 0 2 ms JPMIA0036GB | E |
| (V) | Ground | INPUT 3 | Input | switch | Lighting switch 2ND (Wiper intermittent dial 4) | (V) 15 10 2 ms JPMIA0037GB 1.3 V | G H I |
| | | | | | Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 3 | (V) 15 10 5 0 2 ms JPMIA0040GB | J K L |
| 89 (BR) | Ground | Push-button ignition switch (push switch) | Input | Push-button ignition switch (push switch) | Pressed Not pressed | 0 V Battery voltage | M |
| 90 (P) | Ground | CAN - L | Input/ Output | | _ | _ | |
| 91 (L) | Ground | CAN - H | Input/ Output | | - | _ | WCS |
| | | | | | OFF | 0 V | |
| 92 (LG) | Ground | Key slot illumination | Output | Key slot illumina- tion | Blinking | (V) 15 10 5 0 1 s JPMIA0015GB | Р |
| | | | | | ON | 6.5 V Battery voltage | |
| | | | | | ON | Dattery voltage | |

| Term | inal No. | Description | | | | |
|-------------|----------|--|------------------|-------------------------------|--|---|
| (Wire | e color) | Signal name | Input/ Output | | Condition | Value (Approx.) |
| 93 (V) | Ground | ON indicator lamp | Output | Ignition switch | OFF or ACC | 0 V Battery voltage |
| 95 (O) | Ground | ACC relay control | Output | Ignition switch | OFF ACC or ON | 0 V 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 UNLOCK status | 0 V Battery voltage |
| 98 (P) | Ground | Steering lock condition No. 2 | Input | Steering lock | LOCK status UNLOCK status | Battery voltage 0 V |
| 99 | Ground | Selector lever P posi- | Input | Selector lever | P position | 0 V |
| (R) | | tion switch | | | Any position other than P ON (Pressed) | Battery voltage 0 V |
| 100 (G) | Ground | Passenger door request switch | Input | Passenger door request switch | OFF (Not pressed) | (V) 15 10 5 0 10 ms JPMIA0016GB |
| | | | | | ON (Pressed) | 0 V |
| 101 (SB) | Ground | Driver door request switch | Input | Driver door request switch | OFF (Not pressed) | (V) 15 10 5 0 10 ms JPMIA0016GB |
| 102 (O) | Ground | Blower fan motor re- lay control | Output | Ignition switch | OFF or ACC | 0 V Battery voltage |
| 103 (LG) | Ground | Remote keyless entry receiver power sup- ply | Output | Ignition switch OF | | Battery voltage |
| 106 | Ground | Steering wheel lock | Output | Ignition switch | OFF or ACC | Battery voltage |
| (W) | Cround | unit power supply | Output | igilition switch | ON | 0 V |

| | inal No. | Description | | | | Value | |
|-------------|----------|----------------------------|------------------|---|------------------------|---|----------------|
| (Wir | e color) | Signal name | Input/ Output | | Condition | (Approx.) | 1 |
| | | | | | All switch OFF | (V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V | (|
| | | | | | Turn signal switch LH | (V) 15 10 5 0 2 ms JPMIA0037GB | E |
| 107 (LG) | Ground | Combination switch INPUT 1 | Input | Combination switch (Wiper intermit- tent dial 4) | Turn signal switch RH | (V) 15 10 5 0 2 ms JPMIA0036GB | F |
| | | | | | Front wiper switch LO | (V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V | K |
| | | | | | Front washer switch ON | (V) 15 10 5 0 2 ms JPMIA0039GB | N _K |

| | inal No. e color) | Description | | | 0 100 | Value | | | | | |
|-----|----------------------|--------------------|------------------|--------------------|--|---|--|--|--|--|--|
| + | e color) | Signal name | Input/ Output | | Condition | (Approx.) | | | | | |
| | | | | | All switch OFF (Wiper intermittent dial 4) | (V) 15 10 5 0 2 ms JPMIA0041GB | | | | | |
| 108 | Ground | Combination switch | Input | Combination | Lighting switch AUTO (Wiper intermittent dial 4) | (V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V | | | | | |
| (R) | Gigana | INPUT 4 | mpa. | Combination switch | | | | | | Lighting switch 1ST (Wiper intermittent dial 4) | (V) 15 10 5 0 2 ms JPMIA0036GB |
| | | | | | Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 | (V) 15 10 5 0 2 ms JPMIA0039GB | | | | | |

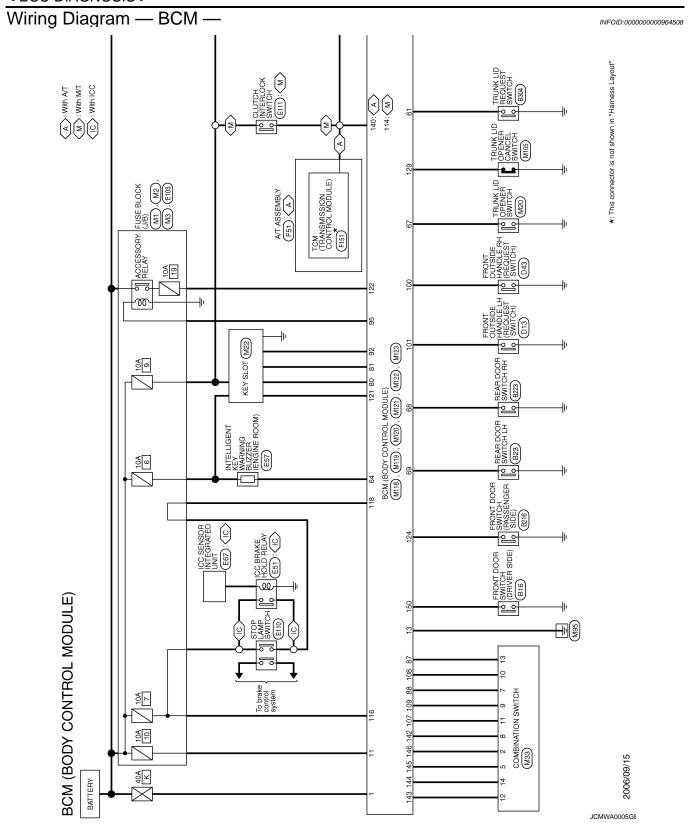
| | inal No. | Description | | | | Value | /- |
|------------|----------|----------------------------|------------------|---|------------------------|---|----|
| + | e color) | Signal name | Input/ Output | | Condition | (Approx.) | - |
| | | | | | All switch OFF | (V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V | |
| | | | | | Lighting switch PASS | (V) 15 10 5 0 2 ms JPMIA0037GB | F |
| 109 (Y) | Ground | Combination switch INPUT 2 | Input | Combination switch (Wiper intermit- tent dial 4) | Lighting switch 2ND | (V) 15 10 2 ms JPMIA0036GB 1.3 V | F |
| | | | | | Front wiper switch INT | (V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V | l. |
| | | | | | Front wiper switch HI | (V) 15 10 5 0 2 ms JPMIA0040GB | Vy |
| | | | | | Pressed | 0 V | |
| 110 (G) | Ground | Hazard switch | Input | Hazard switch | Not pressed | (V) 15 10 5 0 10 ms JPMIA0012GB | F |

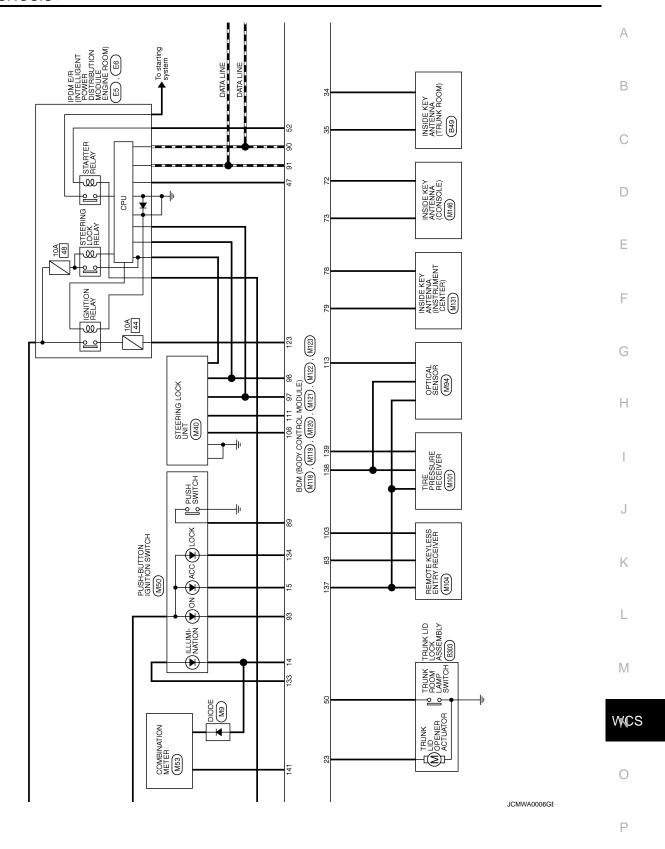
| | inal No. | Description | | | | Value |
|-------------|----------|--|------------------|--------------------|-------------------------------------|---|
| + | e color) | Signal name | Input/ Output | | Condition | (Approx.) |
| | | | | | LOCK status | Battery voltage |
| 111 (Y) | Ground | Steering lock unit communication | Input/ Output | Steering lock | LOCK or UNLOCK | (V) 15 10 5 0 JMKIA0066GB |
| | | | | | For 15 seconds after UN- LOCK | Battery voltage |
| | | | | | 15 seconds or later after UNLOCK | 0 V |
| 113 | Ground | Optical sensor signal | Input | Ignition switch | When bright outside of the vehicle | Close to 5 V |
| (P) | Cround | Spriodi Sonsoi Signal | прис | ON | When dark outside of the vehicle | Close to 0 V |
| 114 | Ground | Clutch interlock | Input | Clutch interlock | OFF (Clutch pedal is not depressed) | 0 V |
| (R) | Siddid | switch | put | switch | ON (Clutch pedal is depressed) | Battery voltage |
| 116 (SB) | Ground | Stop lamp switch 1 | Input | | _ | Battery voltage |
| | | | | Stop lamp switch | OFF (Brake pedal is not depressed) | 0 V |
| 118 (P) | Ground | Stop lamp switch 2 | Input | Otop lamp switch | ON (Brake pedal is de- pressed) | Battery voltage |
| | | | | ICC brake hold | OFF | 0 V |
| | | | | relay (With ICC) | ON | Battery voltage |
| 119 (SB) | Ground | Front door lock assembly driver side (unlock sensor) | Input | Driver door | LOCK status | (V) 15 10 5 0 10 ms JPMIA0011GB |
| | | | | | UNLOCK status | 0 V |
| 121 | Carrie | Kov olet ovitet | المت د ده | When Intelligent K | ey is inserted into key slot | Battery voltage |
| (R) | Ground | Key slot switch | Input | When Intelligent K | ey is not inserted into key slot | 0 V |
| 122 | Ground | ACC feedback signal | Input | Ignition switch | OFF | 0 V |
| (V) | 2.34.14 | - 130 locaback digital | | -g | ACC or ON | Battery voltage |
| 123 | Ground | IGN feedback signal | Input | Ignition switch | OFF or ACC | 0 V |
| (W) | | - | | | ON | Battery voltage |

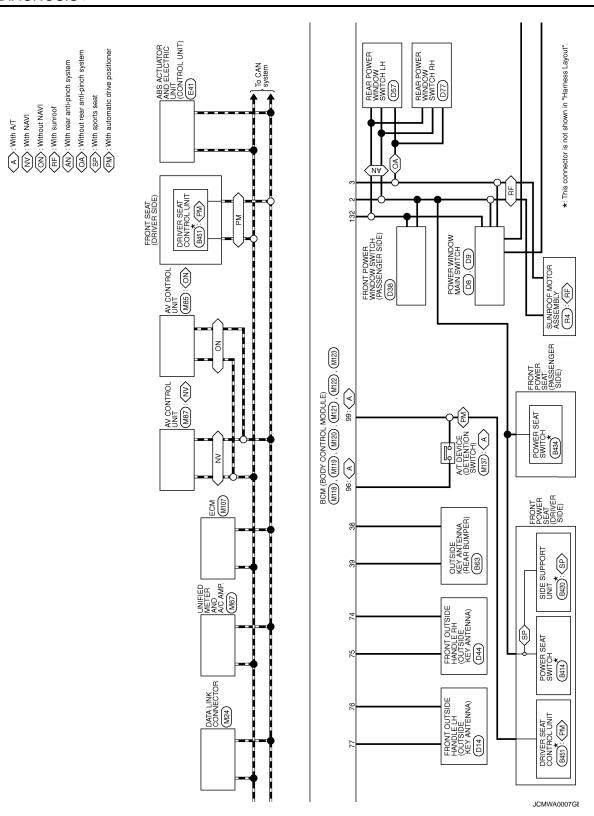
| | inal No. e color) | Description | T | | Q 155 | Value |
|-------------|----------------------|--|------------------|--|----------------------------------|---|
| + | e color) | Signal name | Input/ Output | | Condition | (Approx.) |
| 124 (LG) | Ground | Passenger door switch | Input | Passenger door switch | OFF (When passenger door closes) | (V) 15 10 5 0 10 ms JPMIA0011GB |
| | | | | | ON (When passenger door opens) | 11.8 V 0 V |
| 129 (O) | Ground | Trunk lid opener cancel switch | Input | Trunk lid opener cancel switch | CANCEL | (V) 15 10 5 0 |
| | | | | | ON | JPMIA0012GB 1.1 V |
| 132 (V) | Ground | Power window switch communication | Input/ Output | Ignition switch ON | | (V) 15 10 5 0 10 ms JPMIA0013GB |
| | | | | Ignition switch OF | F or ACC | 0 V |
| | | | | - | ON (When tail lamps OFF) | 5.5 V |
| | | | | | | NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level. |
| 133 (W) | Ground | Push-button ignition switch illumination | Output | Push-button igni- tion switch illumi- nation | ON (When tail lamps ON) | (V) 15 10 5 0 |
| | | | | | OFF | 0 V |
| 134 | Ground | LOCK indicator lamp | Output | LOCK indicator | ON | 0 V |
| (GR) | Ciodila | | Catput | lamp | OFF | Battery voltage |
| 137 (O) | Ground | Receiver and sensor ground | Input | Ignition switch ON | | 0 V |
| 138 | Crown | Receiver and sensor | Outside | Ignition cuiteb | OFF | 0 V |
| (V) | Ground | power supply output | Output | Ignition switch | ACC or ON | 5.0 V |

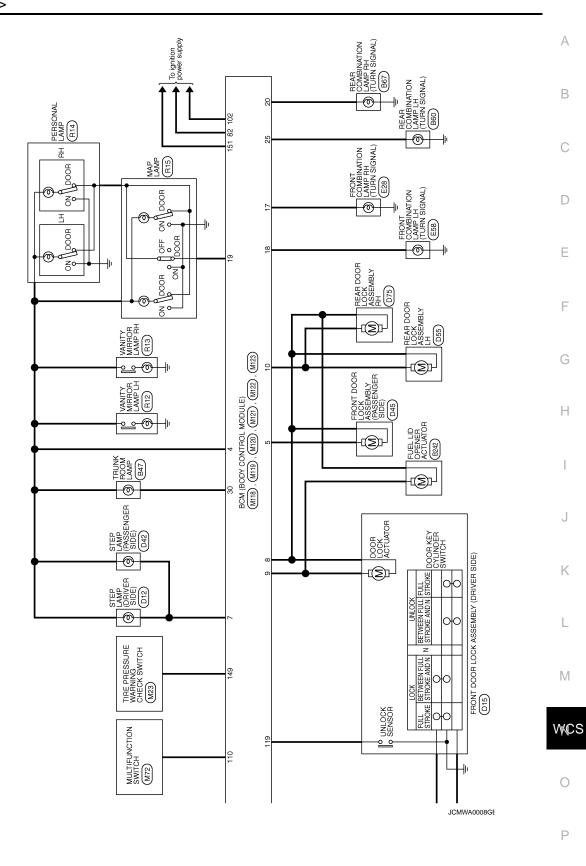
| | inal No. e color) | Description | 1 | | Condition | Value |
|------------|----------------------|-----------------------------|------------------|-----------------------------|--|--|
| + | - | Signal name | Input/ Output | | Condition | (Approx.) |
| 139 | Ground | Tire pressure receiv- | Input/ | Ignition switch | Standby state | (V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| (L) | Clound | er signal | Output | ON | When receiving the signal from the transmitter | (V) 6 4 2 0 ••• 0.2s OCC3880D |
| 140 | | Selector lever P/N | | | P or N position | 12.0 V |
| (GR) | Ground | position signal | Input | Selector lever | Except P and N positions | 0 V |
| | | | | | ON | 0 V |
| 141 (G) | Ground | Security indicator signal | Output | Security indicator | Blinking | (V) 15 10 5 0 1 s JPMIA0014GB |
| | | | | | OFF | Battery voltage |
| | | | | | All switch OFF Lighting switch 1ST Lighting switch HI | 0 V |
| 142 | | Combination switch | | Combination switch | Lighting switch 2ND | 15 |
| (O) | Ground | OUTPUT 5 | Output | (Wiper intermittent dial 4) | Turn signal switch RH | 0 2 ms JPMIA0031GB |
| | | | | | All switch OFF | 10.7 V |
| | | | | | (Wiper intermittent dial 4) | 0 V |
| | | | | | Front wiper switch HI (Wiper intermittent dial 4) | (V) |
| 143 (P) | Ground | Combination switch OUTPUT 1 | Output | Combination switch | Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7 | 15 10 5 0 2 ms JPMIA0032GB |

| | inal No. | Description | T | | | Value | |
|-------------|----------|---|------------------|--|--|--|---|
| + | e color) | Signal name | Input/ Output | | Condition | (Approx.) | F |
| 144 (G) | Ground | Combination switch OUTPUT 2 | Output | Combination switch | All switch OFF (Wiper intermittent dial 4) Front washer switch ON (Wiper intermittent dial 4) Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 5 Wiper intermittent dial 6 | 0 V (V) 15 10 5 0 2 ms JPMIA0033GB | |
| | | | | | All switches OFF | 0 V | Е |
| | | | | | Front wiper switch INT | | |
| | | | | Combination | Front wiper switch LO | (V) 15 | F |
| 145 (L) | Ground | Combination switch OUTPUT 3 | Output | switch (Wiper intermit- tent dial 4) | Lighting switch AUTO | 10 5 0 2 ms JPMIA0034GB | C |
| | | | | | All 11 055 | 10.7 V | H |
| | | | | | All switch OFF Front fog lamp switch ON | 0 V | |
| | | | | | Lighting switch 2ND | (V) | |
| 146 | | Combination switch | | Combination switch | Lighting switch PASS | 15 | |
| (SB) | Ground | OUTPUT 4 | Output | (Wiper intermittent dial 4) | Turn signal switch LH | 5 0 2 ms JPMIA0035GB 10.7 V | |
| 149 (W) | Ground | Tire pressure warn- ing check switch | Input | | _ | 5 V | ŀ |
| 150 (GR) | Ground | Driver door switch | Input | Driver door switch | OFF (When driver door closes) | (V) 15 10 5 0 | L |
| | | | | | | JPMIA0011GB 11.8 V | V |
| | | | | | ON (When driver door opens) | 0 V | |
| 151 | Ground | Rear window defog- | Output | Rear window de- | Active | 0 V | (|
| (G) | Ciodila | ger relay | Juiput | fogger | Not activated | Battery voltage | |









| BCM (BODY CONTROL MODULE) | Connector No. | Connector No. | 18 0 FRONT FLASHER OUTPUT(LEET) |
|--|---|---|---------------------------------|
| Connector Name COMBINATION SWITCH Connector Type TH16FW-NH | Connector Name BCM (BODY CONTROL MODULE) Connector Type M03FB-LC | Connector Name BOM (BODY CONTROL MODULE) Connector Type NS16FW-CS | > |
| | | 1 4 2 | |
| 7 8 9 10 11 12 13 14 | | | |
| Terminal Color Signal Name No. of Wire OUTPUT 4 | Terminal Color Signal Name No. Of Wire Signal Name Description Of Wire Of Wire Description Of Wire Of | Terminal Color Signal Name No. of Wire BAT SAVER OUTPUT | |
| ٦> | POWER WINDO POWER WINDO | | |
| 8 O OUTPUT 5 9 Y INPUT 2 | | 8 V DOOR LOCK OUTPUT (ALL) 9 G DOOR UNLOCK OUTPUT (DR) | |
| 10 R INPUT 4 11 LG INPUT 1 | | 10 BR DOOR UNLOCK OUTPUT (RR) 11 R BAT (FUSE) | |
| 12 P OUTPUT 1 13 BR INPUT 5 | | 13 B GND 14 W RING/SW LED GND | |
| 14 G OUTPUT 2 | | 15 Y ACC LED 17 W FRONT FLASHER OUTPUT(RIGHT) | |
| | | | |
| Connector No. M120 | | 69 R DOOR SW (RR LH) | |
| Connector Name BCM (BODY CONTROL MODULE) Connector Tune NS19EW-CS | Connector Name BCM (BODY CONTROL MODULE) Connector Tune THADERY-NH | | |
| 7 | 1 | | |
| H.S. [20] 20] 20] 20] | H.S. | | |
| 27 28 29 | 51 50 169 169 67 169 165 64 165 167 160 59 169 57 56 55 64 155 52 17 170 169 169 167 169 169 167 169 169 169 169 169 169 169 169 169 169 | | |
| Terminal Color Signal Name | - Ba | | |
| REAR FLA | No. of Wire | | |
| 9 | > | | |
| 25 G REAR FLASHER OUTPUT(LEFT) 30 R TRUNK LAMP OUTPUT | 38 B BACK ANT- 39 W BACK ANT+ | | |
| | \ \ | | |
| | 2 (| | |
| | 52 SB ST CONT USM 61 W TRUNK REQUEST SW | | |
| | > ! | | |
| | 67 GR INTERIOR TRUNK SW 68 BR DOOR SW (RR RH) | | |

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Fail Safe

| 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 ANTTENA AMP | Inhibit engine cranking | Erase DTC |

| Display contents of CONSULT | Fail-safe | Cancellation |
|-----------------------------|---|---|
| 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 |
| B2557: VEHICLE SPEED | Inhibit steering lock | When normal vehicle speed signals have been 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 has become consistent • Starter control relay signal • Starter relay status signal |
| B2563: HI VOLTAGE | 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 • 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 Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Vehicle speed: 4 /h or more |
| B2603: SHIFT POSI STATUS | Inhibit steering lock | 500 ms after the following BCM recognition conditions are fulfilled 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 is fulfilled Status 1 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 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 is fulfilled Ignition switch is in the ON position Power position: IGN Selector lever P/N position signal: Except P and N positions (0 V) Interlock/PNP switch signal (CAN): OFF Status 2 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 has become consistent • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal) |
| B2607: S/L RELAY | Inhibit engine cranking | 500 ms after the following CAN signal communication status has become consistent • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal) |

< ECU DIAGNOSIS >

| Display contents of CONSULT | Fail-safe | Cancellation | |
|-----------------------------|---|---|--|
| B2608: STARTER RELAY | Inhibit engine cranking | 500 ms after the following signal communication status becomes consistent Starter motor relay control signal Starter relay status signal (CAN) | |
| B2609: S/L STATUS | Inhibit engine cranking Inhibit steering lock | When the following steering lock conditions agree BCM steering lock control status Steering lock condition No. 1 signal status Steering lock condition No. 2 signal status | |
| B260A: IGNITION RELAY | Inhibit engine cranking | 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal) | |
| B260F: ENG STATE SIG LOST | Maintains the power supply position attained at the time of DTC detection | When any of the following conditions is fulfilled • Power position changes to ACC • Receives engine status signal (CAN) | |
| B2612: S/L STATUS | Inhibit engine cranking Inhibit steering lock | When any of the following conditions is fulfilled 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) | |
| B2617: STARTER RELAY CIRC | Inhibit engine cranking | 1 second after the starter motor relay control inside BCM becomes normal | |
| B2618: BCM | Inhibit engine cranking | 1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal | |
| B2619: BCM | Inhibit engine cranking | 1 second after the steering lock unit power supply output control in side BCM becomes normal | |
| B261E: VEHICLE TYPE | Inhibit engine cranking | BCM initialization | |
| B26E1: ENG STATE NO RECIV | Inhibit engine cranking | When any of the following conditions is fulfilled • Power position changes to ACC • Receives engine status signal (CAN) | |

DTC Inspection Priority Chart

INFOID:0000000000964510

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

| Priority | DTC |
|----------|--|
| 1 | B2562: LOW VOLTAGE B2563: HI VOLTAGE |
| 2 | U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN) |
| 3 | B2190: NATS ANTTENA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM |

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| Priority | DTC |
|----------|--|
| 4 | B2013: ID DISCORD BCM-S/L B2014: CHAIN OF S/L-BCM B2553: IGNITION RELAY B2555: STOP LAMP B2555: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSITION B2603: SHIFT POSITION B2605: PNP SW B2606: SN-RELAY B2606: SN-RELAY B2606: SN-RELAY B2606: SN-RELAY B2608: STARTER RELAY B2609: SN-STATUS B2609: SN-STATUS B2609: SN-STATUS B2609: SN-STATUS B2609: STEERING LOCK UNIT B2600: STEERING LOCK UNIT B2600: STEERING LOCK UNIT B2601: SN-STATUS B2611: ACC RELAY B2612: SN-STATUS B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2616: IGN RELAY CIRC B2616: SN-STATUS B2618: BCM B2618: BCM B2619: BCM B2619: BCM B2619: BCM B2616: VEHICLE TYPE B2616: VEHICLE TYPE B2616: VEHICLE SPEED SIG |
| 5 | C1704: LOW PRESSURE FR C1706: 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] RR C1712: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1719: [PRESSDATA ERR] FR C1719: [CODE ERR] FR C1720: [CODE ERR] FR C1721: [CODE ERR] RR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FR C1726: [BATT VOLT LOW] FR C1727: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RL C1727: [BATT VOLT LOW] RL C1734: CONTROL UNIT |
| 6 | B2621: INSIDE ANTENNA B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA |

< ECU DIAGNOSIS >

NOTE:

Details of time display

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

| CONSULT display | Fail-safe | Intelligent Key warning lamp ON | Tire pressure monitor warning lamp ON | Reference page |
|--|-----------|------------------------------------|---|----------------|
| No DTC is detected. further testing may be required. | _ | _ | _ | _ |
| U1000: CAN COMM CIRCUIT | _ | _ | _ | BCS-33 |
| U1010: CONTROL UNIT (CAN) | _ | _ | _ | BCS-34 |
| U0415: VEHICLE SPEED SIG | _ | _ | _ | BCS-35 |
| B2013: ID DISCORD BCM-S/L | × | _ | _ | SEC-43 |
| B2014: CHAIN OF S/L-BCM | × | _ | _ | <u>SEC-44</u> |
| B2190: NATS ANTTENA AMP | × | _ | | SEC-37 |
| B2191: DIFFERENCE OF KEY | × | _ | _ | SEC-40 |
| B2192: ID DISCORD BCM-ECM | × | _ | _ | SEC-41 |
| B2193: CHAIN OF BCM-ECM | × | _ | _ | <u>SEC-42</u> |
| B2553: IGNITION RELAY | _ | _ | _ | PCS-48 |
| B2555: STOP LAMP | _ | _ | _ | SEC-47 |
| B2556: PUSH-BTN IGN SW | _ | × | _ | <u>SEC-49</u> |
| B2557: VEHICLE SPEED | × | × | | SEC-51 |
| B2560: STARTER CONT RELAY | × | × | _ | <u>SEC-52</u> |
| B2562: LOW VOLTAGE | _ | _ | _ | BCS-36 |
| B2563: HI VOLTAGE | × | × | _ | BCS-37 |
| B2601: SHIFT POSITION | × | × | _ | <u>SEC-53</u> |
| B2602: SHIFT POSITION | × | × | _ | <u>SEC-56</u> |
| B2603: SHIFT POSI STATUS | × | × | _ | <u>SEC-58</u> |
| B2604: PNP SW | × | × | | SEC-61 |
| B2605: PNP SW | × | × | _ | SEC-63 |
| B2606: S/L RELAY | × | × | _ | SEC-65 |
| B2607: S/L RELAY | × | × | | SEC-66 |
| B2608: STARTER RELAY | × | × | _ | SEC-68 |
| B2609: S/L STATUS | × | × | _ | SEC-70 |
| B260A: IGNITION RELAY | × | × | _ | PCS-50 |
| B260B: STEERING LOCK VNIT | _ | × | _ | SEC-74 |
| B260C: STEERING LOCK VNIT | _ | × | _ | <u>SEC-75</u> |
| B260D: STEERING LOCK VNIT | _ | × | _ | <u>SEC-76</u> |
| B260F: ENG STATE SIG LOST | × | × | _ | <u>SEC-77</u> |
| B2611: ACC RELAY | _ | _ | _ | PCS-52 |
| B2612: S/L STATUS | × | × | _ | <u>SEC-79</u> |
| B2614: ACC RELAY CIRC | _ | × | | PCS-54 |
| B2615: BLOWER RELAY CIRC | _ | × | _ | PCS-57 |

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| CONSULT display | Fail-safe | Intelligent Key warning lamp ON | Tire pressure monitor warning lamp ON | Reference page |
|---------------------------|-----------|------------------------------------|---|----------------|
| B2616: IGN RELAY CIRC | _ | × | _ | PCS-60 |
| B2617: STARTER RELAY CIRC | × | × | _ | <u>SEC-83</u> |
| B2618: BCM | × | × | _ | PCS-63 |
| B2619: BCM | × | × | _ | <u>SEC-85</u> |
| B261A: PUSH-BTN IGN SW | _ | × | _ | <u>SEC-86</u> |
| B261E: VEHICLE TYPE | × | × (Turn ON for 15 seconds) | _ | SEC-88 |
| B2621: INSIDE ANTENNA | _ | _ | _ | <u>DLK-58</u> |
| B2622: INSIDE ANTENNA | _ | _ | _ | DLK-60 |
| B2623: INSIDE ANTENNA | _ | _ | _ | DLK-62 |
| B26E1: ENG STATE NO RES | × | × | _ | <u>SEC-78</u> |
| C1704: LOW PRESSURE FL | _ | _ | × | <u>WT-14</u> |
| C1705: LOW PRESSURE FR | _ | _ | × | <u>WT-14</u> |
| C1706: LOW PRESSURE RR | _ | _ | × | <u>WT-14</u> |
| C1707: LOW PRESSURE RL | _ | _ | × | <u>WT-14</u> |
| C1708: [NO DATA] FL | _ | _ | × | <u>WT-16</u> |
| C1709: [NO DATA] FR | _ | _ | × | <u>WT-16</u> |
| C1710: [NO DATA] RR | _ | _ | × | <u>WT-16</u> |
| C1711: [NO DATA] RL | _ | _ | × | <u>WT-16</u> |
| C1712: [CHECKSUM ERR] FL | _ | _ | × | <u>WT-19</u> |
| C1713: [CHECKSUM ERR] FR | _ | _ | × | <u>WT-19</u> |
| C1714: [CHECKSUM ERR] RR | _ | _ | × | <u>WT-19</u> |
| C1715: [CHECKSUM ERR] RL | _ | _ | × | <u>WT-19</u> |
| C1716: [PRESSDATA ERR] FL | _ | _ | × | <u>WT-22</u> |
| C1717: [PRESSDATA ERR] FR | _ | _ | × | <u>WT-22</u> |
| C1718: [PRESSDATA ERR] RR | _ | _ | × | <u>WT-22</u> |
| C1719: [PRESSDATA ERR] RL | _ | _ | × | <u>WT-22</u> |
| C1720: [CODE ERR] FL | _ | _ | × | <u>WT-24</u> |
| C1721: [CODE ERR] FR | _ | _ | × | <u>WT-24</u> |
| C1722: [CODE ERR] RR | _ | _ | × | <u>WT-24</u> |
| C1723: [CODE ERR] RL | _ | _ | × | <u>WT-24</u> |
| C1724: [BATT VOLT LOW] FL | _ | _ | × | <u>WT-27</u> |
| C1725: [BATT VOLT LOW] FR | _ | _ | × | <u>WT-27</u> |
| C1726: [BATT VOLT LOW] RR | | _ | × | <u>WT-27</u> |
| C1727: [BATT VOLT LOW] RL | | _ | × | <u>WT-27</u> |
| C1729: VHCL SPEED SIG ERR | | _ | × | <u>WT-30</u> |
| C1734: CONTROL UNIT | _ | _ | × | <u>WT-31</u> |

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:0000000000964512

- 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

1. CHECK PARKING BRAKE WARNING LAMP

- 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 inspection for the parking brake switch signal circuit. Refer to MWI-59, "Diagnosis Procedure (A/T model)" or MWI-59, "Diagnosis Procedure (M/T model)".

Is the inspection result normal?

YES >> GO TO 3.

NO

NO >> Repair harness or connector.

3. CHECK PARKING BRAKE SWITCH UNIT

Perform a unit inspection for the parking brake switch. Refer to BRC-69, "Component Inspection".

Is the inspection result normal?

YES >> Replace the combination meter.

>> Replace the parking brake switch. Refer to <u>PB-7</u>, "<u>PEDAL TYPE</u>: <u>Removal and Installation</u>" (pedal type) or <u>PB-8</u>, "<u>LEVER TYPE</u>: <u>Removal and Installation</u>" (lever type).

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THE LIGHT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE LIGHT REMINDER WARNING DOES NOT SOUND

Description INFOID:000000000964514

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

Diagnosis Procedure

INFOID:0000000000964515

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-179, "Diagnosis Procedure".

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

Perform the inspection for the front door switch (driver side) signal circuit. Refer to <u>DLK-65</u>, "<u>Diagnosis Procedure</u>".

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 inspection for the front door switch (driver side). Refer to <u>DLK-67, "Component Inspection"</u>. <u>Is the inspection result normal?</u>

YES >> Replace the BCM. Refer to BCS-79, "Removal and Installation".

NO >> Replace the front door switch (driver side). Refer to DLK-218, "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:0000000000964516 В 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:0000000000964517 1. CHECK SEAT BELT WARNING LAMP D Turn ignition switch ON. Check the operation of the seat belt warning lamp in the combination meter. Е Seat belt fastened : OFF Seat belt not fastened : ON Is the inspection result normal? F YES >> GO TO 2. NO >> GO TO 4. 2.CHECK UNIFIED METER AND A/C AMP. INPUT SIGNAL Check the buckle "Data Monitor". Refer **WCS-21** switch input signal with the to "Component Function Check". Is the inspection result normal? Н YES >> Replace the unified meter and A/C amp. NO >> GO TO 3. 3.CHECK SEAT BELT BUCKLE SWITCH CIRCUIT Perform the inspection for the seat belt buckle switch circuit. Refer to WCS-21, "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 K Perform a unit inspection for the seat belt buckle switch. Refer to WCS-21, "Component Inspection". Is the inspection result normal? L YES >> Replace the combination meter. NO >> Replace the seat belt buckle. Refer to SB-7, "SEAT BELT BUCKLE: Removal and Installation". M

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PRECAUTION

AIR BAG (PATTERN 2)

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

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 and SB section of this Service Manual.

WARNING:

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