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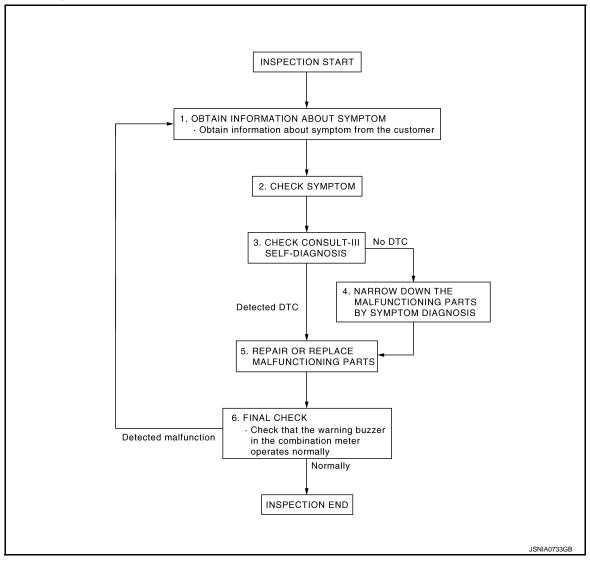
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow INFOID:0000000006458002 В

OVERALL SEQUENCE



DETAILED FLOW

1. OBTAIN INFORMATION ABOUT SYMPTOM

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

>> GO TO 2.

2.CHECK SYMPTOM

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

>> GO TO 3.

3.check consult-iii self-diagnosis results

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

Connect CONSULT-III and perform "Self Diagnostic Result" of "METER/M&A". Refer to WCS-13, "CONSULT-III Function (METER/M&A)".

Are self-diagnosis results normal?

YES >> GO TO 4. NO >> GO TO 5.

4. NARROW DOWN MALFUNCTIONING PARTS BY SYMPTOM DIAGNOSIS

Perform symptom diagnosis and narrow down the malfunctioning parts.

>> GO TO 5.

5. REPAIR OR REPLACE MALFUNCTIONING PARTS

Repair or replace malfunctioning parts.

NOTE:

If DTC is displayed, erase DTC after repair or replace malfunctioning parts.

>> GO TO 6.

6. FINAL CHECK

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

Does it operate normally?

YES >> INSPECTION END

NO >> GO TO 1.

SYSTEM DESCRIPTION

WARNING CHIME SYSTEM WARNING CHIME SYSTEM

WARNING CHIME SYSTEM: System Diagram

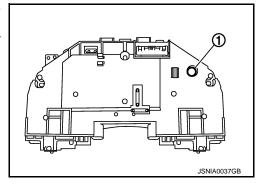
INFOID:0000000006458003 Parking brake switch Parking brak Combination switch (Lighting switch) Communication line (METER ← AMP. CAN communication line Unified meter and A/C amp. Combination mete Buzzer Front driver side Front driver side door switch signa JSNIA0619GB

WARNING CHIME SYSTEM: System Description

INFOID:0000000006458004

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 signalDriver side door switch signal
Seat belt warning chime	Ignition switch signal Seat belt buckle switch (driver side) signal

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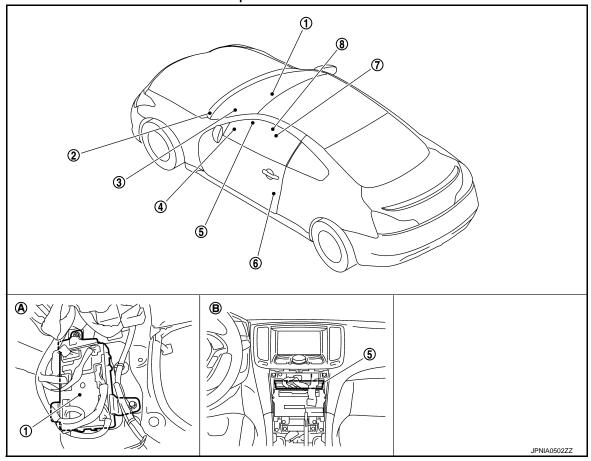
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WARNING CHIME SYSTEM : Component Parts Location

INFOID:0000000006458005



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

WARNING CHIME SYSTEM : Component Description

INFOID:0000000006458006

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. 	
ВСМ	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 (driver side) signal to the unified meter and A/C amp.	
Combination switch (Lighting switch)	Transmits the lighting switch position signal to BCM.	

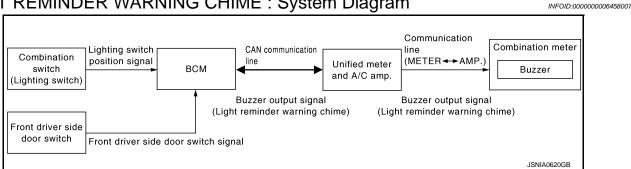
WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

Unit	Description
Front driver side door switch	Transmits the front driver side door switch signal to BCM.
Parking brake switch	Refer to MWI-61, "Description".

LIGHT REMINDER WARNING CHIME

LIGHT REMINDER WARNING CHIME: System Diagram



LIGHT REMINDER WARNING CHIME: System Description

DESCRIPTION

With ignition switch in OFF or ACC position, front driver side 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, driver side door switch 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 driver side door switch is ON

WARNING CANCEL CONDITIONS

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

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

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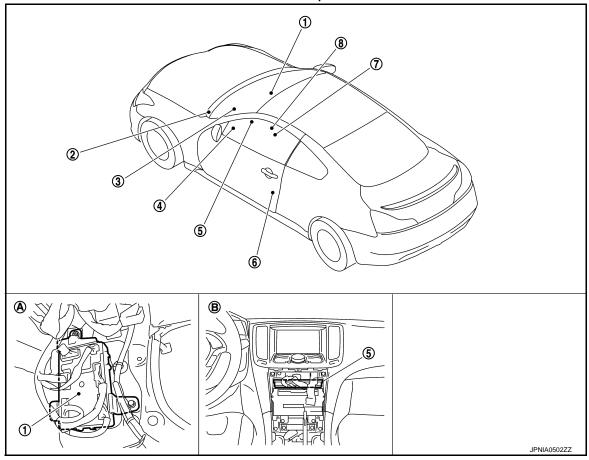
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LIGHT REMINDER WARNING CHIME: Component Parts Location

INFOID:0000000006458009



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

LIGHT REMINDER WARNING CHIME : Component Description

INFOID:0000000006458010

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 chime 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 driver side door switch	Transmits the front driver side door switch signal to BCM.		
0= 4= 0=1 = 14/4 DAIII			

SEAT BELT WARNING CHIME

WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

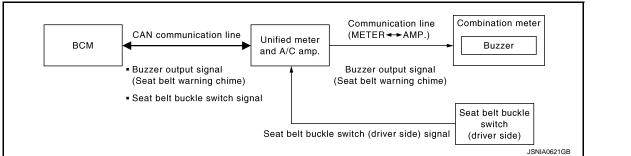
SEAT BELT WARNING CHIME: System Diagram



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SEAT BELT WARNING CHIME: System Description

INFOID:0000000006458012

DESCRIPTION

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

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

WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled.

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

WARNING CANCEL CONDITIONS

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

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

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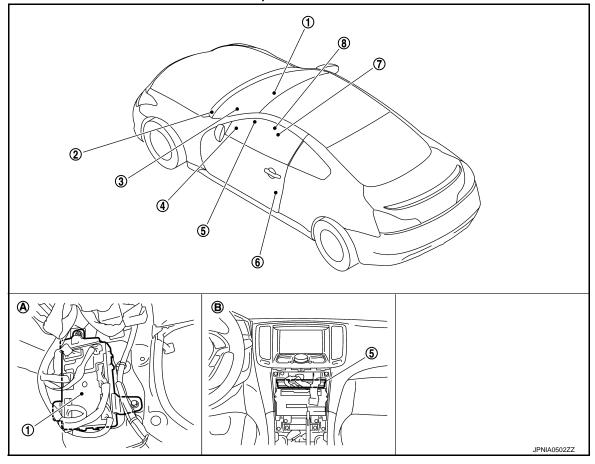
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SEAT BELT WARNING CHIME: Component Parts Location

INFOID:0000000006458013



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

SEAT BELT WARNING CHIME : Component Description

INFOID:0000000006458014

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 (driver side) signal from the seat belt buckle switch (driver side) and transmits it to BCM via CAN communication line. Receives a buzzer output signal from BCM via CAN communication line and transmits it to the combination meter by means of communication line. 		
BCM	Judges the seat belt warning chime condition from the seat belt buckle switch signal received f the unified meter and A/C amp. and transmits a buzzer output signal to the unified meter and amp via CAN communication line if necessary.		
Seat belt buckle switch (driver side)	Refer to WCS-27, "Description".		

PARKING BRAKE RELEASE WARNING CHIME

WARNING CHIME SYSTEM

Unified meter

and A/C amp.

Communication line

(METER ↔ AMP.)
Vehicle speed

signal

Buzzer

< SYSTEM DESCRIPTION >

ABS actuator and

electric unit

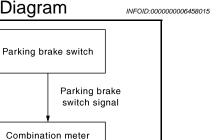
(control unit)

PARKING BRAKE RELEASE WARNING CHIME: System Diagram

CAN communication

line

Vehicle speed signal



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PARKING BRAKE RELEASE WARNING CHIME: System Description

INFOID:0000000006458016

DESCRIPTION

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

WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled.

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

WARNING CANCEL CONDITIONS

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

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

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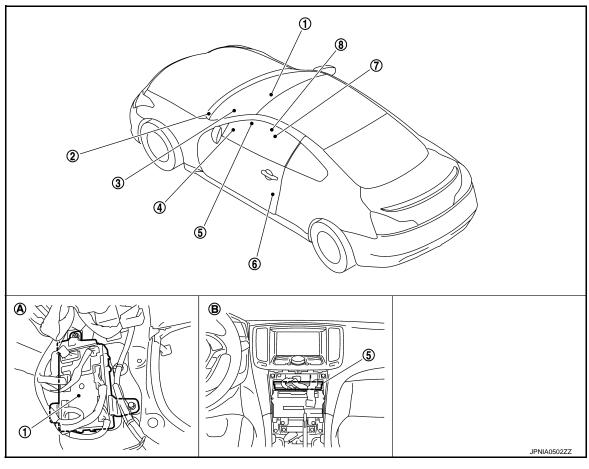
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PARKING BRAKE RELEASE WARNING CHIME: Component Parts Location

VFOID:0000000006458017



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

PARKING BRAKE RELEASE WARNING CHIME: Component Description INFOID.000000006458018

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-61, "Description".

< SYSTEM DESCRIPTION >

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

CONSULT-III Function (METER/M&A)

INFOID:0000000006854088

X: Applicable

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

SELF DIAG RESULT

Refer to MWI-102, "DTC Index".

DATA MONITOR

Display Item List

DOOR W/L

[On/Off]

MAIN Display item [Unit] Description **SIGNALS** Value of vehicle speed signal received from ABS actuator and electric unit (control SPEED METER unit) with CAN communication line. Χ [km/h] NOTE: 655.35 is displayed when the malfunction signal is received. Vehicle speed signal value transmitted to other units with CAN communication SPEED OUTPUT line. Χ NOTE: [km/h] 655.35 is displayed when the malfunction signal is received. **ODO OUTPUT** Odometer signal value transmitted to other units with CAN communication line. [km] Value of the engine speed signal received from ECM with CAN communication **TACHO METER** line. Χ [rpm] NOTE: 8191.875 is displayed when the malfunction signal is received. **FUEL METER** Χ Fuel level indicated on combination meter. Value of engine coolant temperature signal received from ECM with CAN commu-W TEMP METER nication line. Χ NOTE: [°C] 215 is displayed when the malfunction signal is input. FUEL CAP W/L Status of fuel filler cap warning display detected from fuel filler cap warning display signal received from ECM via CAN communication. [On/Off] ABS W/L Status of ABS warning lamp judged from ABS warning lamp signal received from **WCS** ABS actuator and electric unit (control unit) with CAN communication line. [On/Off] Status of VDC OFF indicator lamp judged from VDC OFF indicator lamp signal re-VDC/TCS IND ceived from ABS actuator and electric unit (control unit) with CAN communication [On/Off] SLIP IND Status of VDC warning lamp judged from VDC warning lamp signal received from [On/Off] ABS actuator and electric unit (control unit) with CAN communication line. Status of brake warning lamp judged from brake warning lamp signal received from ABS actuator and electric unit (control unit) with CAN communication line. BRAKE W/L [On/Off] 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.

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CAN communication line.

Status of door warning judged from door switch signal received from BCM with

< SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description
TRUNK/GLAS-H [On/Off]		Status of trunk warning judged from trunk switch signal received from BCM with CAN communication line.
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 lamp 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 tail lamp indicator lamp judged from position light request signal received from BCM with CAN communication line.
OIL W/L [On/Off]		Status of oil pressure warning lamp judged from oil pressure switch signal received from IPDM E/R with CAN communication line.
MIL [On/Off]		Status of malfunction indicator lamp judged from malfunctioning indicator lamp signal received from ECM with CAN communication line.
GLOW IND [On/Off]		This item is displayed, but cannot be monitored.
C-ENG2 W/L [On/Off]		This item is displayed, but cannot be monitored.
CRUISE IND [On/Off]		Status of CRUISE indicator judged from ASCD status signal received from ECM with CAN communication line.
SET IND [On/Off]		Status of SET indicator judged from ASCD SET indicator signal received from ECM with CAN communication line.
CRUISE W/L [On/Off]		Status of CRUISE warning lamp judged from ASCD status signal received from ECM with CAN communication line.
BA W/L [Off]		This item is displayed, but cannot be monitored.
ATC/T-AMT W/L [On/Off]		Status of A/T check warning lamp judged from A/T check indicator signal received from TCM with CAN communication line.
4WD W/L [On/Off]		Status of AWD warning lamp judged from AWD warning lamp signal received from AWD control unit with CAN communication line.
4WD LOCK IND [Off]		This item is displayed, but cannot be monitored.
FUEL W/L [On/Off]		Low-fuel warning lamp status judged by the identified fuel level.
WASHER W/L [On/Off]		Status of washer warning lamp judged from washer level switch input to combination meter.
AIR PRES W/L [On/Off]		Status of low tire pressure warning lamp judged from tire pressure signal received from BCM with CAN communication line.
KEY G/Y W/L [On/Off]		Status of key warning lamp (G/Y) judged from key warning signal received from BCM with CAN communication line.
AFS OFF IND [On/Off]		Status of AFS OFF indicator lamp judged from AFS OFF indicator lamp signal received from AFS control unit with CAN communication line.
4WAS/RAS W/L [On/Off]		Status of 4WAS warning lamp judged from 4WAS warning lamp signal received from 4WAS main control unit with CAN communication line.
DDS W/L [On/Off]		This item is displayed, but cannot be monitored.
LANE W/L [On/Off]		This item is displayed, but cannot be monitored.
LDP IND [On/Off]		This item is displayed, but cannot be monitored.

< SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description
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		Display ICC set vehicle speed from meter display signal received from ICC sensor integrated unit with CAN communication line.
ACC UNIT [On/Off]		Status of display unit judged from meter display signal received from ICC sensor integrated unit with CAN communication line.
O/D OFF SW [On/Off]		This item is displayed, but cannot be monitored.
SHIFT IND [P, R, N, D, M1, M2, M3, M4, M5, M6, M7]		Status of shift 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 F/B SIG [On/Off]		A/C compressor activation condition that ECM judges according to the water temperature and the acceleration degree.
4WD LOCK SW [Off]		This item is displayed, but cannot be monitored.
PKB SW [On/Off]		Status of parking brake switch.
BUCKLE SW [On/Off]		Status of seat belt buckle switch.
BRAKE OIL SW [On/Off]		Status of brake fluid level switch.
DISTANCE [km]		Value of possible driving distance calculated by unified meter and A/C amp.
OUTSIDE TEMP [°C or °F]		Ambient air temperature value converted from ambient sensor signal received from ambient sensor. NOTE: This may not match with the temperature value indicated on the information display. (Because the information display value is a corrected value from the ambient sensor input value.)

< SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description
FUEL LOW SIG [On/Off]		Status of fuel level low warning signal to output to AV control unit with CAN communication line.
BUZZER [On/Off]	Х	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.

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:0000000006955428

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

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

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

NOTE:

TPMS

Signal buffer system

FREEZE FRAME DATA (FFD)

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

SIGNAL BUFFER

AIR PRESSURE MONITOR

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^{*:} This item is displayed, but is not used.

< SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit	Description		
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected		
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected		
	SLEEP>LOCK		While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK"*)	
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)	
	LOCK>ACC		While turning power supply position from "LOCK"* to "ACC"	
	ACC>ON		While turning power supply position from "ACC" to "IGN"	
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Except emergency stop operation)	
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)	
	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emergency stop operation)	
	ACC>OFF		While turning power supply position from "ACC" to "OFF"	
	OFF>LOCK	Power supply position status of the moment a particular DTC is detected*	While turning power supply position from "OFF" to "LOCK"*	
Vehicle Condition	OFF>ACC		While turning power supply position from "OFF" to "ACC"	
	ON>CRANK		While turning power supply position from "IGN" to "CRANKING"	
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode	
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK"*.) to low power consumption mode	
	LOCK		Power supply position is "LOCK" (Ignition switch OFF with steering is locked.)*	
	OFF		Power supply position is "OFF" (Ignition switch OFF with steering is unlocked.)	
	ACC		Power supply position is "ACC" (Ignition switch ACC)	
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)	
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)	
	CRANKING		Power supply position is "CRANKING" (At engine cranking)	
IGN Counter	0 - 39	 The number of times that ignition switch is turned ON after DTC is detected The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 338 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. 		

NOTE:

BUZZER

BUZZER: CONSULT-III Function (BCM - INTELLIGENT KEY)

INFOID:0000000006955429

WORK SUPPORT

^{*:} For models without steering lock unit, power supply position changes from "OFF" to "LOCK" when steering lock conditions are satisfied.

< SYSTEM DESCRIPTION >

Monitor item	Description		
CONFIRM KEY FOB ID	It can be checked whether Intelligent Key ID code is registered or not in this mode.		
AUTO LOCK SET	Auto door lock time can be changed in this mode. • MODE 1: 1 minute • MODE 2: 5 minutes • MODE 3: 30 seconds • MODE 4: 2 minutes		
LOCK/UNLOCK BY I-KEY	Door lock/unlock function by door request switch (driver side and passenger side) mode can be changed to operate (ON) or not operate (OFF) in this mode.		
ENGINE START BY I-KEY	Engine start function mode can be changed to operate (ON) or not operate (OFF) with this mode.		
TRUNK/GLASS HATCH OPEN	Buzzer reminder function mode by trunk opener request switch can be changed to operate (ON) or not operate (OFF) with this mode.		
PANIC ALARM SET	Panic alarm button pressing time on Intelligent Key remote control button can be selected from the following with this mode. • MODE 1: 0.5 sec. • MODE 2: Non-operation • MODE 3: 1.5 sec.		
PW DOWN SET	Unlock button pressing time on Intelligent Key button can be selected from the following with this mode. • MODE 1: 3 sec. • MODE 2: Non-operation • MODE 3: 5 sec.		
TRUNK OPEN DELAY	Trunk button pressing on Intelligent Key button can be selected as per the following in this mode. • MODE 1: Press and hold • MODE 2: Press twice • MODE 3: Press and hold, or press twice		
LO- BATT OF KEY FOB WARN	Intelligent Key low battery warning mode can be changed to operate (ON) or not operate (OFF) with this mode.		
ANTI KEY LOCK IN FUNCTI	Key reminder function mode can be changed to operate (ON) or not operate (OFF) with this mode.		
HAZARD ANSWER BACK	Hazard reminder function mode can be selected from the following with this mode. • LOCK ONLY: Door lock operation only • UNLOCK ONLY: Door unlock operation only • LOCK/UNLOCK: Lock/unlock operation • OFF: Non-operation		
ANS BACK I-KEY LOCK	Buzzer reminder function (lock operation) mode by door request switch (driver side and passenger side) can be selected from the following with this mode. • Horn chirp: Sound horn • Buzzer: Sound Intelligent Key warning buzzer • OFF: Non-operation		
ANS BACK I-KEY UNLOCK	Buzzer reminder function (unlock operation) mode by door request switch can be changed to operate (ON) or not operate (OFF) with this mode.		
SHORT CRANKING OUTPUT	Starter motor can operate during the times below. • 70 msec • 100 msec • 200 msec		
INSIDE ANT DIAGNOSIS	This function allows inside key antenna self-diagnosis.		
HORN WITH KEYLESS LOCK	Horn reminder function mode by Intelligent Key button can be changed to operate (ON) or not operate (OFF) with this mode.		

SELF-DIAG RESULT

Refer to DLK-166, "DTC Index".

DATA MONITOR

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< SYSTEM DESCRIPTION >

Monitor Item	Condition
REQ SW -DR	Indicates [ON/OFF] condition of door request switch (driver side).
REQ SW -AS	Indicates [ON/OFF] condition of door request switch (passenger side).
REQ SW -BD/TR	Indicates [ON/OFF] condition of trunk opener request switch.
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch.
IGN RLY2 -F/B	Indicates [ON/OFF] condition of ignition relay 2.
ACC RLY-FB	NOTE: This item is displayed, but cannot be monitored.
CLUTCH SW*1	Indicates [ON/OFF] condition of clutch switch.
BRAKE SW 1	Indicates [ON/OFF]*2 condition of brake switch power supply.
BRAKE SW 2	Indicates [ON/OFF] condition of brake switch.
DETE/CANCL SW	Indicates [ON/OFF] condition of P position.
SFT PN/N SW	Indicates [ON/OFF] condition of P or N position.
S/L -LOCK	Indicates [ON/OFF] condition of steering lock unit (LOCK). NOTE:
	For models without steering lock unit, this item is not monitored.
S/L -UNLOCK	Indicates [ON/OFF] condition of steering lock unit (UNLOCK). NOTE:
	For models without steering lock unit, this item is not monitored.
S/L RELAY -F/B	Indicates [ON/OFF] condition of steering lock relay. NOTE:
	For models without steering lock unit, this item is not monitored.
UNLK SEN -DR	Indicates [ON/OFF] condition of driver door UNLOCK status.
PUSH SW -IPDM	Indicates [ON/OFF] condition of push-button ignition switch.
IGN RLY1 -F/B	Indicates [ON/OFF] condition of ignition relay 1.
DETE SW -IPDM	Indicates [ON/OFF] condition of P position.
SFT PN -IPDM	Indicates [ON/OFF] condition of P or N position.
SFT P -MET	Indicates [ON/OFF] condition of P position.
SFT N -MET	Indicates [ON/OFF] condition of N position.
ENGINE STATE	Indicates [STOP/STALL/CRANK/RUN] condition of engine states.
S/L LOCK-IPDM	Indicates [ON/OFF] condition of steering lock unit (LOCK). NOTE: For models without steering lock unit, this item is not monitored.
	<u> </u>
S/L UNLK-IPDM	Indicates [ON/OFF] condition of steering lock unit (UNLOCK). NOTE:
	For models without steering lock unit, this item is not monitored.
S/L RELAY-REQ	Indicates [ON/OFF] condition of steering lock relay. NOTE: For models without steering lock unit, this item is not monitored.
VEH SPEED 1	Display the vehicle speed signal received from combination meter by numerical value [Km/h].
VEH SPEED 2	Display the vehicle speed signal received from ABS or VDC or TCM by numerical value [Km/h].
DOOR STAT-DR	Indicates [LOCK/READY/UNLOCK] condition of driver side door status.
DOOR STAT-AS	Indicates [LOCK/READY/UNLOCK] condition of passenger side door status.
ID OK FLAG	Indicates [SET/RESET] condition of key ID.
PRMT ENG STRT	Indicates [SET/RESET] condition of engine start possibility.
PRMT RKE STRT	NOTE: This item is displayed, but cannot be monitored.
KEY SW -SLOT	Indicates [ON/OFF] condition of key slot.
TRNK/HAT MNTR	Indicates [ON/OFF] condition of trunk lid.

< SYSTEM DESCRIPTION >

Monitor Item	Condition
RKE-LOCK	Indicates [ON/OFF] condition of LOCK signal from Intelligent Key.
RKE-UNLOCK	Indicates [ON/OFF] condition of UNLOCK signal from Intelligent Key.
RKE-TR/BD	Indicates [ON/OFF] condition of TRUNK OPEN signal from Intelligent Key.
RKE-PANIC	Indicates [ON/OFF] condition of PANIC button of Intelligent Key.
RKE-P/W OPEN	Indicates [ON/OFF] condition of P/W DOWN signal from Intelligent Key.
RKE-MODE CHG	Indicates [ON/OFF] condition of MODE CHANGE signal from Intelligent Key.
RKE OPE COUN1	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
RKE OPE COUN2	NOTE: This item is displayed, but cannot be monitored.

^{*1:} It is displayed but does not operate on M/T models.

ACTIVE TEST

Test item	Description
BATTERY SAVER	This test is able to check interior room lamp operation. The interior room lamp is activated after "ON" on CONSULT-III screen is touched.
PW REMOTO DOWN SET	This test is able to check power window down operation. The power window down is activated after "ON" on CONSULT-III screen is touched.
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation. The Intelligent Key warning buzzer is activated after "ON" on CONSULT-III screen is touched.
INSIDE BUZZER	This test is able to check warning chime in combination meter operation. • Take away warning chime sounds when "TAKE OUT" on CONSULT-III screen is touched. • Key warning chime sounds when "KEY" on CONSULT-III screen is touched. • OFF position warning chime sounds when "KNOB" on CONSULT-III screen is touched.
INDICATOR	This test is able to check warning lamp operation. • "KEY" Warning lamp illuminates when "KEY ON" on CONSULT-III screen is touched. • "KEY" Warning lamp blinks when "KEY IND" on CONSULT-III screen is touched.
INT LAMP	This test is able to check interior room lamp operation. The interior room lamp is activated after "ON" on CONSULT-III screen is touched.
LCD	This test is able to check meter display information • Engine start information displays when "BP N" on CONSULT-III screen is touched. • Engine start information displays when "BP I" on CONSULT-III screen is touched. • Key ID warning displays when "ID NG" on CONSULT-III screen is touched. • Steering lock information displays when "ROTAT" on CONSULT-III screen is touched. • P position warning displays when "SFT P" on CONSULT-III screen is touched. • Intelligent Key insert information displays when "INSRT" on CONSULT-III screen is touched. • Intelligent Key low battery warning displays when "BATT" on CONSULT-III screen is touched. • Take away through window warning displays when "NO KY" on CONSULT-III screen is touched. • Take away warning display when "OUTKEY" on CONSULT-III screen is touched. • OFF position warning display when "LK WN" on CONSULT-III screen is touched.
TRUNK/GLASS HATCH	This test is able to check trunk lid opener actuator open operation. This actuator opens when "OPEN" on CONSULT-III screen is touched.
FLASHER	This test is able to check security hazard lamp operation. The hazard lamps are activated after "LH/RH/OFF" on CONSULT-III screen is touched.
HORN	This test is able to check horn operation. The horn is activated after "ON" on CONSULT-III screen is touched.
P RANGE	This test is able to check A/T shift selector power supply A/T shift selector power is supplied when "ON" on CONSULT-III screen is touched.
ENGINE SW ILLUMI	This test is able to check push-ignition switch illumination operation. Push-ignition switch illumination illuminates when "ON" on CONSULT-III screen is touched.

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 $^{^{\}star2}\!\!:$ OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

< SYSTEM DESCRIPTION >

Test item	Description		
LOCK INDICATOR	This test is able to check LOCK indicator in push-ignition switch operation. LOCK indicator in push-ignition switch illuminates when "ON" on CONSULT-III screen is touched.		
ACC INDICATOR	This test is able to check ACC indicator in push-ignition switch operation. ACC indicator in push-ignition switch illuminates when "ON" on CONSULT-III screen is touched.		
IGNITION ON IND	This test is able to check on indicator in push-ignition switch operation. ON indicator in push-ignition switch illuminates when "ON" on CONSULT-III screen is touched.		
KEY SLOT ILLUMI	This test is able to check key slot illumination operation. Key slot illumination blinks when "ON" on CONSULT-III screen is touched.		
TRUNK/BACK DOOR	This test is able to check trunk lid opener actuator open operation. This actuator opens when "OPEN" on CONSULT-III screen is touched.		

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT COMBINATION METER

COMBINATION METER: Diagnosis Procedure

INFOID:0000000006458022

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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 terminal and ground.

Terminals				
(+)			Ignition switch	Voltage (Approx.)
Combina	Combination meter			
Connector	Terminals			
M53	1	Ground	OFF	Battery voltage
IVISS	21	Glound	ON	Dattery 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.
- Check continuity between combination meter harness connector terminal and ground.

Combination meter			Continuity
Connector	Terminals		Continuity
	5	Ground	
M53	15		Existed
	22		

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

1.CHECK FUSE

Check for blown fuses.

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INFOID:0000000006458023

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Power source	Fuse No.
Battery	11
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 terminal and ground.

	Terminals					
((+)		(+)		Ignition switch	Voltage (Approx.)
Unified meter and A/C amp.		(-)	Igrillion switch	(Approx.)		
Connector	Terminals					
	54		OFF			
M67	41	Ground	ACC	Battery voltage		
	53		ON			

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 terminal and ground.

Unified meter	and A/C amp.	Ground	Continuity	
Connector	Terminals			
M67	55	Glound	Existed	
IVIO7	71		LXISIEG	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE): Diagnosis Procedure

1. CHECK FUSE AND FUSIBLE LINK

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

Signal name	Fuse and fusible link No.
Pottory power cumply	К
Battery power supply	10

INFOID:0000000006933535

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

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

(Voltage		
В	СМ		(Approx.)
Connector	Terminal	Ground	
M118	1	Glound	Battery 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.

В	CM		Continuity	
Connector Terminal		Ground	Continuity	
M119	13		Existed	

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

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METER BUZZER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

METER BUZZER CIRCUIT

Description INFOID.000000006458025

- 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:0000000006458026

1. CHECK OPERATION OF METER BUZZER

- Connect the CONSULT-III.
- 2. Perform "LIGHT WARN ALM" in "ACTIVE TEST" of "BCM (BUZZER)".

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" of "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-81, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000006458027

1. CHECK POWER SUPPLY OF COMBINATION METER

Check power supply of combination meter. Refer to WCS-23, "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-23, "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

< DTC/CIRCUIT DIAGNOSIS >

Description

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

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

INFOID:0000000006458028

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Component Function Check

INFOID:0000000006458029

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

- 1. Connect the CONSULT-III.
- 2. Select the "Data Monitor" of the "METER/M&A" and check the "BUCKLE SW" monitor value.

"BUCKLE SW"

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

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>> INSPECTION END

Diagnosis Procedure

INFOID:0000000006458030

$1.\mathsf{CHECK}$ UNIFIED METER AND A/C AMP. INPUT SIGNAL

Turn ignition switch ON.

2. Check voltage between unified meter and A/C amp. harness connector terminal and ground.

Н

Terminal (+) Unified meter and A/C amp. (-)				
		(–)	Condition	Voltage (Approx.)
M66	9	Ground	When seat belt is fastened	12 V
IVIOO	1000 9		When seat belt is unfastened	0 V

Is the inspection result normal?

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

NO >> GO TO 2.

2.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE) SIGNAL CIRCUIT

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

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Unified meter	Unified meter and A/C amp.		Seat belt buckle switch (driver side)		
Connector	Terminal	Connector Terminal		Continuity	
M66	9	B13	1	Existed	

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

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Unified meter	and A/C amp.		Continuity
Connector	Terminal	Ground	
M66	9		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.check seat belt buckle switch (driver side) ground circuit

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SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

Seat belt buckle s	switch (driver side)		Continuity
Connector	Terminal	Ground	Continuity
B13	2		Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

Component Inspection

INFOID:0000000006458031

1. CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

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

Terminal		Seat belt buckle switch (driver side)	Continuity
1	2	When seat belt is fastened	Not existed
'	2	When seat belt is unfastened	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO

>> Replace the seat belt buckle switch (driver side). Refer to <u>SB-8, "SEAT BELT BUCKLE : Removal and Installation"</u>.

< DTC/CIRCUIT DIAGNOSIS > WARNING CHIME SYSTEM Α Wiring Diagram - WARNING CHIME -INFOID:0000000006458032 В C COMBINATION METER (BUZZER) D Е F G DATA LINK CONNECTOR (M24) BCM (BODY CONTROL MODULE) (M113), (M123), (M123) Н - III (98) J FUSE BLOCK (J/B) (M1), (M3) 7 27 34 14 UNIFIED METER AND A/C AMP. (M66), (M67) K SWITCH (M33) 4 A L M IGNITION SWITCH ON or START 10A WCS ∯ 104 WARNING CHIME 10 4 0 2010/10/07

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WARNING CHIME	CHIME	Š	>		Connector No B14		LC.	>	E SC	Γ
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WARNING CHIME SYSTEM

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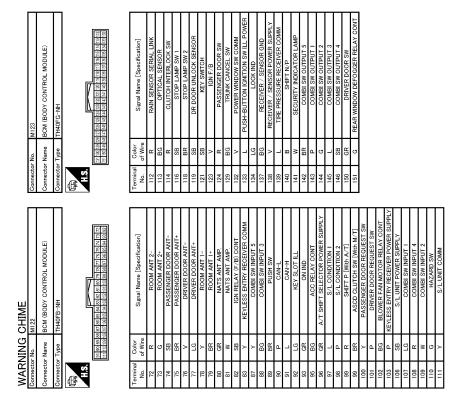
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WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

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10 P-YAMP) P-Y		L
ING CHIME Name		M
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Revision: 2011 December WCS-33 2011 G Coupe



JCNWM5440GB

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

COMBINATION METER

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Refer to MWI-84, "Reference Value".

TERMINAL LAYOUT

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

PHYSICAL VALUES

Terminal No. (Wire color)		Description			O an distant	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
1 (V)	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 0 200 µs JSNIA0027GB
3 (GR)	Ground	Communication signal (AMP.→ METER)	Input	Ignition switch ON	_	(V) 6 4 2 0 200 µs JSNIA0027GB
5 (B)	Ground	Ground	_	Ignition switch ON	_	0 V
6		A1		Ignition	Charge warning lamp ON	0 V
(W)	Ground	Alternator signal	Input	switch ON	Charge warning lamp OFF	12 V
7		A	1	Ignition	Air bag warning lamp ON	4 V
(LG)	Ground	Air bag signal	Input	switch ON	Air bag warning lamp OFF	0 V
10				Ignition	Security warning lamp ON	0 V
(W)	Ground	Security signal	Input	switch OFF	Security warning lamp OFF	12 V

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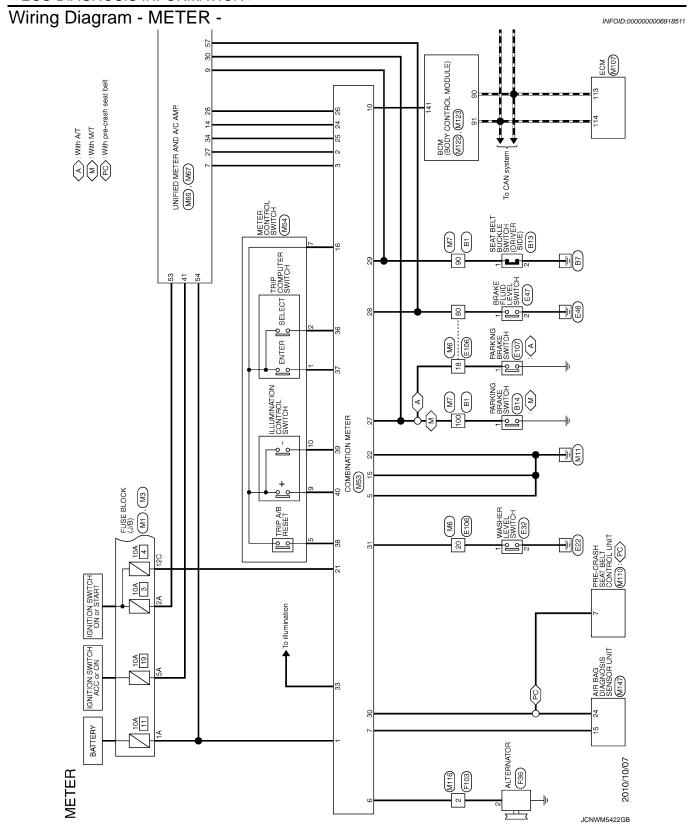
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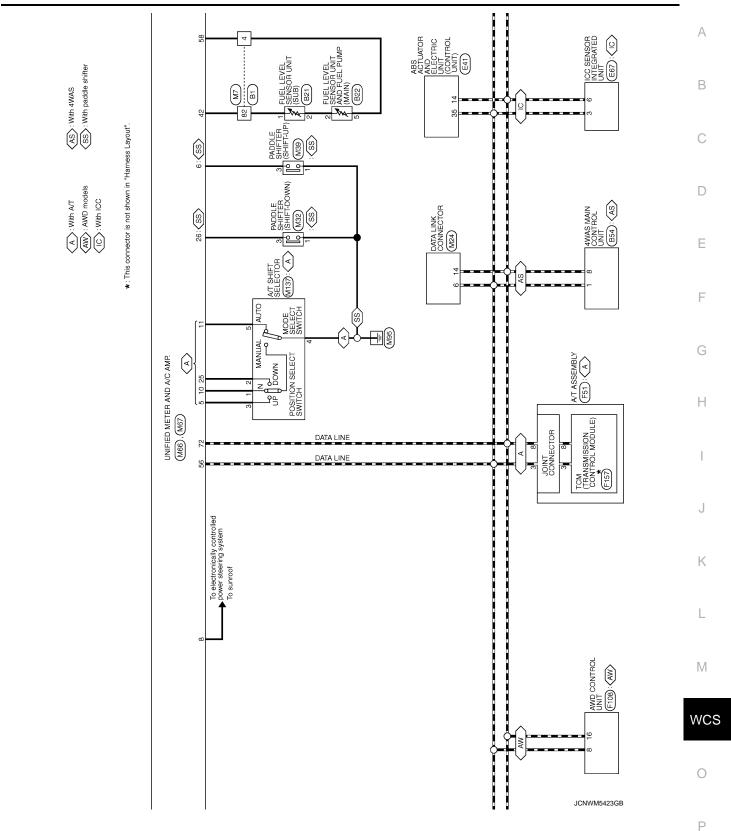
COMBINATION METER

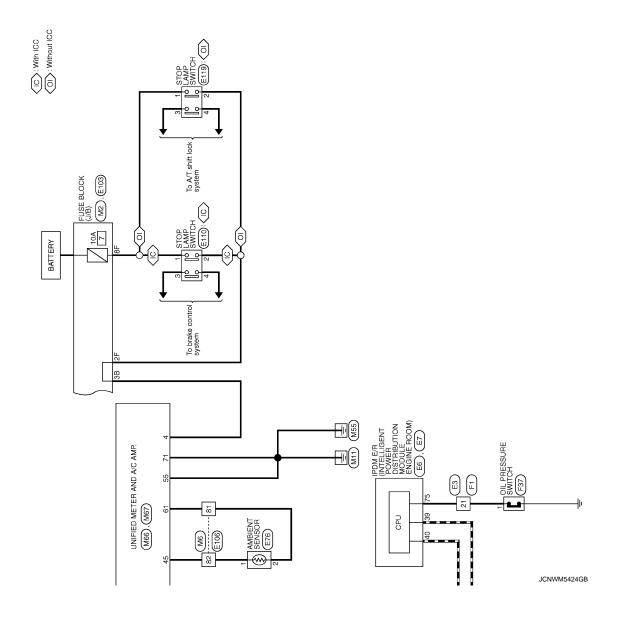
< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
15 (B)	Ground	Ground	_	Ignition switch ON	_	0 V
16 (BR)	Ground	Meter control switch ground		Ignition switch ON	_	0 V
21 (G)	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 5 400 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 ap- prox. 40 km/h (25 MPH)]	NOTE: The maximum voltage varies depending on the specification (destination unit).
					Parking brake applied	0 V
27 (P)	Ground	Parking brake switch signal	Input	Ignition switch ON	Parking brake released	(V) 8 4 0 10 ms JSNIA0007GB

	inal No. e color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
28 (SB)	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-	Input	Ignition switch	When driver seat belt is fastened	12 V
(P)	Ground	nal (driver side)	при	ON	When driver seat belt is un- fastened	0 V
30	Ground	Seat belt buckle switch sig-	Input	Ignition switch	When getting in the passenger seatWhen passenger seat belt is fastened	12 V
(G)	Glound	nal (passenger side)	три	ON	When getting in the passenger seat When passenger seat belt is unfastened	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
33 (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)	(BR)		F ***	ON	Other than the above	5 V
37 (Y)	16 (BR)	Enter switch signal	Input	Ignition switch ON	When is pressed Other than the above	0 V 5 V
38	16	Trip A/P recet quitab aircael	Innut	Ignition	When trip A/B reset switch is pressed	0 V
(G)	(BR)	Trip A/B reset switch signal	Input	switch ON	Other than the above	5 V
39 (P)	16 (BR)	Illumination control switch signal (–)	Input	Ignition switch	When 👣 switch is pressed	0 V
` '	. 7	3 ()		ON	Other than the above	5 V
40 (BG)	16 (BR)	Illumination control switch signal (+)	Input	Ignition switch	When 🔥 + switch is pressed	0 V
(- -)	(=. \)	- 3		ON	Other than the above	5 V







< ECU DIAGNOSIS INFORMATION >

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Revision: 2011 December WCS-41 2011 G Coupe

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Connector Type SAA36MB-RS8-SHZ8	46	Н		22	N. S.	1 1	6	B B	DP FR	$\overline{}$
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814				74	SB SB	1 1	27	ස ව	DS RL UZ	
	Conne	Connector No.	E6	76	>	-	59	а	DS RR	П
Color Signal Name [Specification]	Conne	Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	77	α ≥	1 1	30	SB	BLS VDC OFF SW	_
	Conne	Connector Type	TH08FW-NH	3			32	-	CAN-H	_
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SHIELD	F	<u>ر</u>	R	Colliec		E32				
BR -	•	ā	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Connec	Connector Name	WASHER LEVEL SWITCH	Connector No.	П	E47	П
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			64 44 45	Œ			Connector Type	┰	YV02FGY	_
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	Terminal	-	Signal Name [Specification]				厚		~	
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	41	B/W	-						(2)	
51	42	+	1	Terminal	al Color	Signal Name [Specification]))	
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- BG	45	╀	1	- 2	2 0	ı	Š	_	Signal Name [Specification]	
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SB -	 -						2	В	1	П
M	_			Connector No.		E41				
- 7	Conn	Connector No.	E7	Connect	Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)				
- -	Conne	Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	į	F	111111111111111111111111111111111111111				
> 5	ļ		THE COOK TECONIE	Connec	Connector Type	BAA42FB-AH24-LH				
GR -	i l	Connector Type	IHZ0FW-CS1Z-M4	42						
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BR			5 56 57 58 69 70 71 72 73 74 75 76 77 78 81 82		M 65 PM 63 PZ	21/20 (8) (8) (7) (8) (5) (4) (13) (2) (11) (9) (8) (7) (8) (7) (8) (7) (8) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9				
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- 5										
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- GTi	<u> </u>			Terminal	_	Signal Name [Specification]				
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< ECU DIAGNOSIS INFORMATION >

Signal Name [Specification] Signal Name [Specification] Signal Name [Specification] Signal Name [Specification]	A B C
Connector Name Connector Type Terminal Color No. of Wire 2 V Z V 3 L L 2 V SB Connector Type Connector Type Onnector Type Terminal Color No. of Wire 1 L 2 V 3 L 4 SB Connector Name Connector Name Onnector Name Onnector Name Onnector Name Onnector Name Terminal Color No. of Wire No. of Wire No. of Wire Terminal Color No. of Wire No.	D
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Eio7 Signal Name [Specification] Signal Name [Specification]	F
Name	G
39 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Н
El06 WIRE TO WIRE TH80FW-CS16-TM4 TH80FW-CS16-TM4 Signal Name [Specification] Signal Name [Specification] - [With daytime running light] - [Without daytime running light]	l J
Color Colo	K
	L
Signal Name [Specification] FINE BLOCK (J/B) NS16FW-CS NS16FW-CS FINE BLOCK (J/B) NS16FW-CS FINE BLOCK (J/B) NS16FW-CS	M
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33 B	tor Na. F108 Stor Type THIGFW-NH THIGFW-NH THIGTH-13 6 9 10 11 13	Terminal Color Signal Name [Specification]
Connector No. F51 Connector Name A.T ASSEMBLY Connector Type RK10FG-DGY (A) (5) (1) (1) (1) (1) (2) (3) (4)	Terminal Color Signal Name [Specification]	Connector Nuc F103
40 G	to to to	Terminal Color Signal Name Specification No. Signal Name Specification Signal Name Specification Signal Name Specification Specificati

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Connector No. M2 Connector Name Pty Reg P	K
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Spring Name Specification	M
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METER							
Connector No.	M7	99	- 8	Connector No. M32	က	æ	COMMUNICATION SIGNAL (AMP>METER)
Connector Name	ie WIRE TO WIRE	28	_	Connector Name PADDLE SHIFTER (SHIFT-DOWN)	5	В	GROUND
	Т	28	· :	Т	9 1	× .	ALTERNATOR SIGNAL
Connector Type	B I H80MW-CS16-1M4	09	\ \	Connector Type AU3FW		5	AIR BAG SIGNAL
4		19		1	01	۱ ≽	SECURITY SIGNAL
*		62	~	K	12	В	GROUND
Š	8 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	83	- ·	X-	91 ,	H G	METER CONTROL SWITCH GROUND
		64	- 8		8	HS.	ILL GND
		65	SHIELD -	2	19	В	ILL GND
		7.1		٥	20	ч	ILL
	2	72	- d	2	21	g	IGNITION SIGNAL
		73	SB		22	В	GROUND
lal	Or Simol Name [Sansification]	74	- A	nal	24	BR	COMMUNICATION SIGNAL (LCD->AMP.)
No. of Wire		81	- M	No. of Wire Signal Manie Lopecinication	25	Υ	COMMUNICATION SIGNAL (AMP>LCD)
1 GR		82	BR -	- B	26	ч	VEHICLE SPEED SIGNAL (8-PULSE)
2 P	1	84	- 57	3 6	27	۵	PARKING BRAKE SWITCH SIGNAL
3 SB	3 - [With automatic drive positioner]	85	- BG		28	SB	BRAKE FLUID LEVEL SWITCH
3 Р	- [Without automatic drive positioner]	98	- SB		29	Ь	SEAT BELT BUCKLE SW SIGNAL (DRIVER SIDE)
4 Y		87	- 5	Connector No. M39	30	g	SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)
9		88	GR –	OADDIE SUIETLIE)	31	٦	WASHER LEVEL SWITCH SIGNAL
15 R		90	- d		33	Я	ILLUMINATION CONTROL SIGNAL
16 BR	1	16	Bg	Connector Type A04FW	36	PC	SELECT SWITCH SIGNAL
17 P	1	95	Bg	¢	37	γ	ENTER SWITCH SIGNAL
18	,	96		修	38	9	TRIP A/B RESET SWITCH SIGNAL
20 L	1	100		[39	Ь	ILLUMINATION CONTROL SWITCH SIGNAL (-)
21 P	,				40	BG	ILLUMINATION CONTROL SWITCH SIGNAL (+)
22 L	1			101			
23 P	-	Connector No.	r No. M24	1631			
24 V	-	Constant Mana	Nome DATA LINK CONNECTOR		Connector No.	П	M54
Н		Connect			1	Connector Mamo	METER CONTROL
26 BR		Connector Type	r Type BD16FW-P	al	100	OI MAINE	METER CONTINUE SMITCH
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45 SHIELD	- OTE	Ε	SB -		7	BR	1
46 SB		4		Ja.	8	æ	1
	-	91	٠ -	No. of Wire	6	BG	1
50 P	-			Н	10	Ь	1
55 W				2 LG COMMUNICATION SIGNAL (METER->AMP.)			

JCNWM5430GB

< ECU DIAGNOSIS INFORMATION >

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		Connector Type TK36MW-NSIO	New Color New Signal Name [Specification] New Signal Name Specification] New Specification] New Signal Name Specification] New New Specification] New N	В
	ALVE		TITROL UNIT	E
	CANISTER VE	ECM G ECM G POWER SUP ASCD/ICC ECM G ECM G	MI 10 PRE-CRASH SEAT BELT CONTROL UNIT TH20FW-TB6 2 3 7 8 910 1112 4 5 Signal Name [Specification of the control CRN FASTEN of the control CRN FASTEN of the control CRN ESN 6 OUTPUT SENS OUTPUT CAN-H CAN	F
	V LG EVAP			G
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	ENT SENSOR SIGNAL OAD SENSOR SIGNAL UTSIDE ODOR DETECTING SENSOR SIGNAL	IGNITION POWER SUPPLY BATTERY POWNER SUPPLY GROWNER GRAN-H BRAKE FLUID LEVEL SWITCH FUEL LEVEL SENSOR GROUND INTAKE SENSOR GROUND IN-VEHICLE SENSOR GROUND	AMBEROT SENSOR GROUND SUNICAD SENSOR GROUND ION CONTROL MODE CUTPUT SIGNAL EACH DOOR MOTOR POWER SUPPLY GROUND CAN-L OT MA SENSOR FOWER SUPPLY SENSOR FOWER SUPPLY SENSOR FOWER SUPPLY SENSOR ROUND SENSOR FOWER SUPPLY SENSOR FOWER SUPPLY SENSOR FOWER SUPPLY SENSOR FOWER SUPPLY SENSOR GROUND REPRIGERANT PRESS SEN FULL TANK TEMP SEN SENSOR GROUND REPRIGERANT PRESS SEN FULL TANK TEMP SEN SENSOR GROUND REPRIGERANT PRESS SEN FULL TANK TEMP SEN SENSOR GROUND REPRIGERANT PRESS SEN SENSOR GROUND GRAN COMMUNICATION LINE CAN COMMUNICATION LINE CAN COMMUNICATION LINE CAN COMMUNICATION LINE	I
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	M66 UNIFIED METER AND A/C AMP.	(2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	Signal Name [Specification] STOP LAMP SWITCH SIGNAL MANUAL MODE SHIFT IPP SIGNAL DEPODIDE SWITCH SIGNAL NEHER PS GIGNAL NEHER SWEED SIGNAL (AMP->METER NON-WARNLAL MODE SIGNAL OMMUNICATION SIGNAL NON-SIGNAL NON-SIGNAL NON-SIGNAL NON-WARNLAL MODE SHIFTER DOWN SIGNAL NON-WARNLAL MODE SHIFTER COMMUNICATION SIGNAL NEHER SAND A/C AMP- NUMED METER AND A/C AMP- HARZEW-NH ACC POWER SUPPLY FUEL LEVEL SENSOR SIGNAL IN-WEHICLE SENSOR SIGNAL	M
	M66 UNIFIED METI	TH40FW-NH		wcs
METER	Connector No. Connector Name	Connector Type	Terminal Color No. Or Wire Color Cornector No. Or Wire Cornector No. Cornector No. Cornector No. Cornector Name Cornector Name Cornector Name Cornector Name Cornector No. Cornector Type Cornector No. Cornector Name Cornector Name Cornector Name Cornector No. Cornector No. Cornector No. Cornector No. Cornector Name Cornector No. Cornector No. Cornector No. Cornector No. Cornector Name Cornector Name Cornector Name Cornector Name Cornector Name Cornector Name Cornector No. Cornector Name Cornector Name Cornector Name Cornector Name Cornector Name Cornector Name Cornector No. Cornector Name Cornector N	0
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-	G SEAT	STOR 45 Y DR 2 (+) 46 P CAN-L	*	48 Y AS2C) 49 L ODS INPUT	<u>11112</u>	Signal Name [Specification]		1										SIS SENSOR UNIT				٦	t 5	23 20 18 22 2		Signal Name [Specification]		GND		DR (+)	DR 1 (-) DR 2 (-)					DER 1 (+) AS 1 (+) AS 1 (+) ECZS (+) R BAG W/L GND GND FIT IT ALF	
	Connector No. M137	Connector Name A/T SHIFT SELECTOR	Connector Type TH12FW-NH	H.S. 11 2 3 4		Terminal Color No. of Wire	1 W	2	3 4 9	╀	7	8 FG	F	11	N.		Connector No.	UPPLY Connector Name AIR BAG DIAGNOSIS SENSOR UNIT	OMM Connector Type TK28FY-EX-SC			2 2	40 40 47	10 12 19 15 14 51 2		Terminal Color	or Wire	2 B	3	> -	-	- > >	- > > 88	- > > 88 >	2 × × × × × × × × × × × × × × × × × × ×	SB X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	× × × × × × × × × × × × × × × × × × ×
Γ	. M123	me BCM (BODY CONTROL MODULE)	pe TH40FG-NH			Color Signal Name [Specification]	RAIN		S STOP I AMP SW 1		DR DO	SB KEY SWITCH	PASSE	BG TRUNK CANCEL SW	V POWER WINDOW SW COMM	PUSH-BUTTON	LG LOCK IND RG RECEIVER / SENSOR GND	RECE	L TIRE PRESSURE RECEIVER COMM	B SHIFT N/P			G COMBI SW OUTPUT 2	COMBLSW OUTPUT 3		G REAR WINDOW DEFOGGER RELAY CONT											
	Connector No.	Connector Name	Connector Type	₹ S.H	╝	Terminal C No. of	112	Н	4 9	╀	Н	121	╀	H	132	4	134	┝	139	140	+	Н	144	146	+	151											
	M122	BCM (BODY CONTROL MODULE)	TH40FB-NH	22	8 KOT NOT NOT NOT NOT NOT NOT NOT NOT NOT N	Signal Name [Specification]	ROOM ANT 2-	ROOM ANT 2+	PASSENGER DOOR ANT=	DRIVER DOOR ANT-	DRIVER DOOR ANT+	ROOM ANT 1-	NATS ANT AMP.	NATS ANT AMP.	IGN RELAY (F/B) CONT	KEYLESS ENTRY RECEIVER COMM	COMBI SW INPUT 5	PUSH SW	CAN-L	CAN-H	ON IND	ACC RELAY CONT	A/T SHIFT SELECTOR POWER SUPPLY	S/L CONDITION 1	SHIFT P [With A/T]	ASCD CLUTCH SW [With M/T]	PASSENGER DOOR REQUEST SW DRIVER DOOR REQUEST SW	BLOWER FAN MOTOR RELAY CONT	KEYLESS ENTRY RECEIVER POWER SUPPLY	S/L UNIT POWER SUPPLY		COMBLSW INPUT 1	COMBI SW INPUT 1 COMBI SW INPUT 1 COMBI SW INPUT 4	COMBIS WINPUT I COMBIS SWINPUT I COMBIS SWINPUT 4 COMBIS SWINPUT 2 HAZARD SW	COMBI SWINPUT 1 COMBI SW INPUT 4 COMBI SW INPUT 4 COMBI SW INPUT 4 COMBI SW INPUT 4 COMBI SW INPUT 3 COMBI S	COMBI SW INPUT 1 COMBI SW INPUT 2 COMBI SW INPUT 2 HAZARD SW S/L UNIT COMM	COMBI SW INPUT 1 COMBI SW INPUT 4 COMBI SW INPUT 4 COMBI SW INPUT 4 COMBI SW INPUT 3 INPUT 5 I
METER	Connector No.	Connector Name	Connector Type	H.S.	≝ L	Ferminal Color No. of Wire	72 R	Н	75 RP	╁	H	78 or G	╁	81 W	Н	83 ×	88 BG Y	H	90 P	91 L	+	Н	96 GR	97 L	H	99 BR	101 Y	F	Н	_	+	₩	╫	++++	++++	+++++	100 K R R R R R R R R R R R R R R R R R R

JCNWM5432GB

Fail-safe

INFOID:0000000006854090

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.

< ECU DIAGNOSIS INFORMATION >

	Function	Specifications
Speedometer		
Tachometer		Poset 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.
	Door open warning	
	Parking brake release warning	The display turns off by suspending communication.
	Low tire pressure warning	The display turns on by suspending communication.
	Fuel filler cap warning	
Information display	Instantaneous fuel warning	When reception time of an abnormal signal is 2 seconds or
	Average fuel consumption	less, the last received datum is used for calculation to indicate the result.
	Average vehicle speed	When reception time of an abnormal signal is more than two
	Travel distance	seconds, the last result calculated during normal condition is indicated.
Buzzer	·	The buzzer turns off by suspending communication.
	ABS warning lamp	
	VDC warning lamp	
	Brake warning lamp	The lamp turns on by suspending communication.
	CRUISE warning lamp	
	Malfunction indicator lamp	
	High beam indicator	
	Turn signal indicator lamp	
	Oil pressure warning lamp	
Warning lamp/indicator	A/T CHECK warning lamp	
lamp	VDC OFF indicator lamp	
	Low tire pressure warning lamp	
	Key warning lamp	The lamp turns off by suspending communication.
	AFS OFF indicator lamp	
	4WAS warning lamp	
	Master warning lamp	
	AWD warning lamp	
	Tail lamp indicator lamp	
	Front fog lamp indicator lamp	

DTC Index

Refer to WCS-68, "DTC Index".

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< ECU DIAGNOSIS INFORMATION >

UNIFIED METER AND A/C AMP.

Reference Value

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item		Condition	Value/Status
SPEED METER [km/h]	Ignition switch ON	While driving	Equivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received
SPEED OUTPUT [km/h]	Ignition switch ON	While driving	Equivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received
ODO OUTPUT [km]	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 [L]	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
FUEL CAP W/L	Ignition switch	Fuel filler cap warning display ON	On
FUEL CAP W/L	ON	Fuel filler cap warning display OFF	Off
ABS W/L	Ignition switch	ABS warning lamp ON	On
ADS W/L	ON	ABS warning lamp OFF	Off
VDC/TCS IND	Ignition switch	VDC OFF indicator lamp ON	On
VDC/TC3 IND	ON	VDC OFF indicator lamp OFF	Off
SLIP IND	Ignition switch	VDC warning lamp ON	On
OLII IIID	ON	VDC warning lamp OFF	Off
BRAKE W/L	Ignition switch	Blake warning lamp ON	On
DIVAILE 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
THOMICOLINO TI	ON	Trunk warning not displayed	Off
HI-BEAM IND	Ignition switch	Hi-beam indicator lamp ON	On
	ON	Hi-beam indicator lamp OFF	Off
TURN IND	Ignition switch	Turn indicator lamp ON	On
· · · · · -	ON	Turn indicator lamp OFF	Off
FR FOG IND	Ignition switch	Front fog lamp indicator lamp ON	On
	ON	Front fog lamp indicator lamp OFF	Off
RR FOG IND	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off

< ECU DIAGNOSIS INFORMATION >

Monitor Item		Condition	Value/Status	Λ
LICHTIND	Ignition switch	Tail lamp indicator lamp ON	On	– A
LIGHT IND	ŎN	Tail lamp indicator lamp OFF	Off	
OH 18//	Ignition switch	Oil pressure warning lamp ON	On	В
OIL W/L	ŎN	Oil pressure warning lamp OFF	Off	_
	Ignition switch	Malfunction warning lamp ON	On	_
MIL	ŎN	Malfunction warning lamp OFF	Off	С
GLOW IND	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off	_ D
C-ENG2 W/L	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off	E
CRUISE IND	Ignition switch	Cruise indicator displayed	On	
CRUISE IND	ON	Cruise indicator not displayed	Off	
SET IND	Ignition switch	Set indicator lamp ON	On	F
OLI IIND	ON	Set indicator lamp OFF	Off	_
CRUISE W/L	Ignition switch	Cruise warning lamp ON	On	G
ONOIGE W/L	ON	Cruise warning lamp OFF	Off	
BA W/L	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off	Н
ATC/T-AMT W/L	Ignition switch	A/T check warning lamp ON	On	
ATC/T-AWIT W/L	ON	A/T check warning lamp OFF	Off	
4WD W/L	Ignition switch	AWD warning lamp ON	On	
4VVD VV/L	ON	AWD warning lamp OFF	Off	_
4WD LOCK IND	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off	_ J
	Ignition switch	Low-fuel warning lamp displayed	On	K
FUEL W/L	ON	Low-fuel warning lamp not displayed	Off	_
MA OUED MAIL	Ignition switch	Washer warning displayed	On	
WASHER W/L	ON	Washer warning not displayed	Off	
AID DDEC W/I	Ignition switch	Low tire pressure lamp ON	On	
AIR PRES W/L	ŎN	Low tire pressure lamp OFF	Off	M
KEN ON MU	Ignition switch	Key warning lamp ON	On	_
KEY G/Y W/L	ŎN	Key warning lamp OFF	Off	14/6
AES OFF IND	Ignition switch	AFS OFF indicator lamp ON	On	— W0
AFS OFF IND	ŎN	AFS OFF indicator lamp OFF	Off	
4)A/A C/D A C \A//	Ignition switch	4WAS warning lamp ON	On	0
4WAS/RAS W/L	ŎN	4WAS warning lamp OFF	Off	_
DDS W/L	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off	P
LANE W/L	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off	
LDP IND	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off	

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Monitor Item		Condition	Value/Status
	Ignition switch	Engine start information display (A/T model)	B&P I
	ON	Engine start information display (M/T model)	C&P I
	Ignition switch	Engine start information display (A/T model)	B&P N
	ACC	Engine start information display (M/T model)	C&P N
	Ignition switch LOCK	Key ID warning display	ID NG
	Ignition switch LOCK	Steering lock information display	ROTAT
LCD	Ignition switch LOCK	P position warning display	SFT P
	Ignition switch LOCK	Intelligent Key insert information display	INSRT
	Ignition switch LOCK	Intelligent Key low battery warning display	BATT
	Ignition switch ON	Take away warning display	NO KY
	Ignition switch LOCK	Key warning display	OUTKY
	Ignition switch ON	ICC sensor integrated unit warning display	LK WN
	Ignition switch	Vehicle ahead detection indicator displayed	On
ACC TARGET	ON ON	Vehicle ahead detection indicator not displayed	Off
		When following distance set to "LONG"	LONG
ACC DISTANCE	Ignition switch	When following distance set to "MIDDLE"	MID
ACC DISTANCE	ON	When following distance set to "SHORT"	SHORT
		Set distance indicator not displayed	Off
ACC OWN VHL	Ignition switch	Own vehicle indicator displayed	On
7,00 OWN VIIL	ON	Own vehicle indicator not displayed	Off
ACC SET SPEED	Ignition switch ON	ICC set vehicle speed display	Vehicle speed
ACC UNIT	Ignition switch	Set vehicle speed indicator unit display ON	On
7.00 ONT	ON	Set vehicle speed indicator unit display OFF	Off
O/D OFF SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
		Shift position indicator P display	Р
		Shift position indicator R display	R
		Shift position indicator N display	N
		Shift position indicator D display	D
	1	Shift position indicator M1 display	M1
SHIFT IND	Ignition switch ON	Shift position indicator M2 display	M2
		Shift position indicator M3 display	M3
		Shift position indicator M4 display	M4
		Shift position indicator M5 display	M5
		Shift position indicator M6 display	M6
		Shift position indicator M7 display	M7

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< ECU DIAGNOSIS INFORMATION >

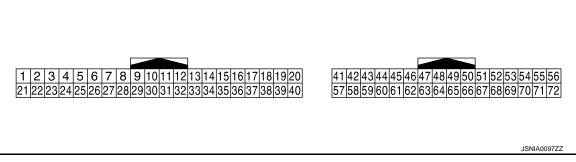
Monitor Item		Condition	Value/Status
AT S MODE SW	Ignition switch	Snow mode switch ON	On
AT 3 WIODE 3W	ON	Snow mode switch OFF	Off
AT P MODE SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
M RANGE SW	Ignition switch	Selector lever DS position	On
W RANGE SW	ON	Other than the above	Off
NM RANGE SW	Ignition switch	Selector lever DS position	Off
NIVI RANGE 3V	ON	Other than the above	On
AT SFT UP SW	Ignition switch	Selector lever up position	On
AI SFI UP SW	ON	Other than the above	Off
AT SFT DWN SW	Ignition switch	Selector lever – position	On
AT SET DWIN SW	ON	Other than the above	Off
OT OFT LIP OW	Ignition switch	Paddle shifter up operation	On
ST SFT UP SW	ON	Other than the above	Off
CT CET DWM CW	Ignition switch	Paddle shifter down operation	On
ST SFT DWN SW	ON	Other than the above	Off
00MD E/D 010	Ignition switch	A/C compressor activation condition	On
COMP F/B SIG	ŎN	A/C compressor deactivation condition	Off
4WD LOCK SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
	Ignition switch	Parking brake applied	On
PKB SW	ŎN	Parking brake released	Off
	Ignition switch	Seat belt (driver side) unfastened	On
BUCKLE SW	ŎN	Seat belt (driver side) fastened	Off
	Ignition switch	Brake fluid level is lower than the low level	On
BRAKE OIL SW	ŎN	Brake fluid level is normal	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.
	Ignition switch	Low-fuel warning signal output	On
FUEL LOW SIG	ON	Low-fuel warning signal not output	Off
	Ignition switch	Buzzer ON	On
BUZZER	ON	Buzzer OFF	Off

NOTE

Some items are not available according to vehicle specification.

TERMINAL LAYOUT

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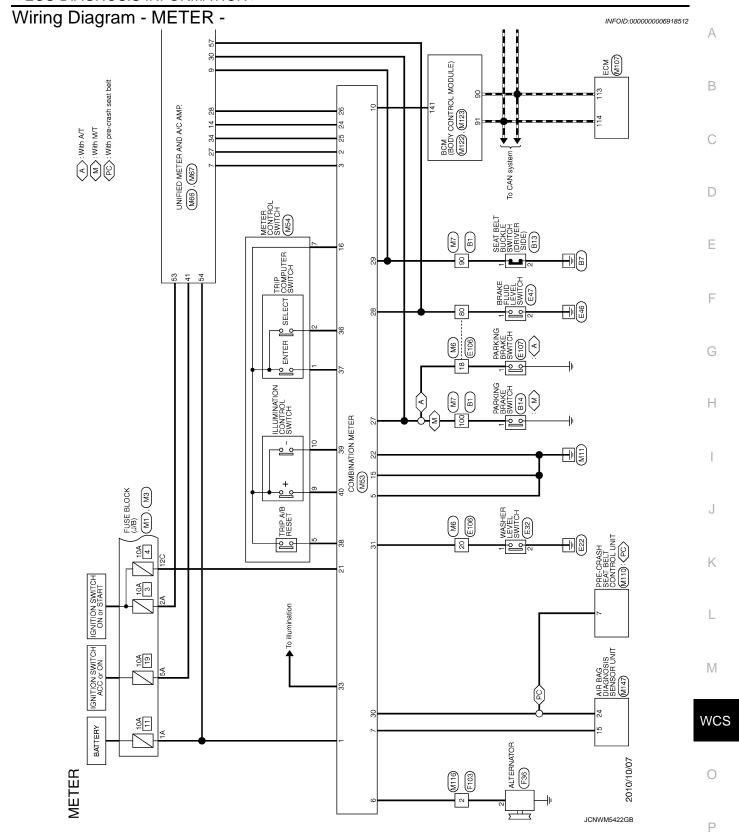


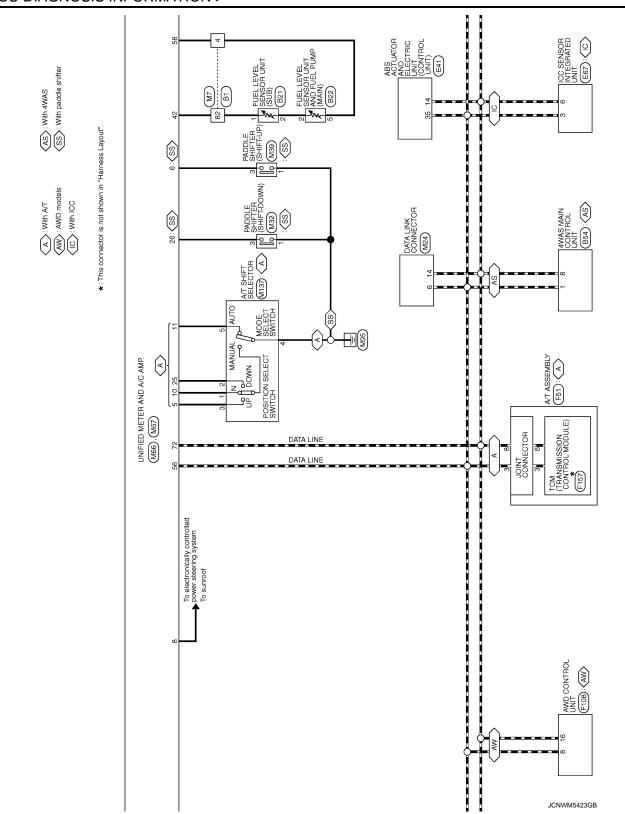
PHYSICAL VALUES

	nal No. color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
4	01	Circle and it is a second	1	Ignition	Brake pedal is depressed	12 V
(G)	Ground	Stop lamp switch signal	Input	switch OFF	Other than the above	0 V
5	Ground	Manual mode shift up sig-	Input	Ignition switch	Selector lever up position	0 V
(L)	Giodila	nal	Input	ON	Other than the above	12 V
6	Cround	Daddla shiftar un aignal	lanut	Ignition	Paddle shifter up operation	0 V
(BG)	Ground	Paddle shifter up signal	Input	switch 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 (driver side) is fastened	12 V
(SB)	Ground	nal (driver side)	Input	switch ON	When seat belt (driver side) is unfastened	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	0	Net manual must be stored	lan t	Ignition	Selector lever DS position	12 V
(G)	Ground	Not manual mode signal	Input	switch ON	Other than the above	0 V

	inal No. e color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
14 (BR)	Ground	Communication signal (LCD → AMP.)	Input	Ignition switch ON	_	(V) 15 10 5 0 400 µs JSNIA0028GB
23 (Y)	Ground	A/T snow switch signal	Input	Ignition switch	Snow mode switch ON	12 V
		Manual made shift days		ON Ignition	Snow mode switch OFF Selector lever down posi-	0 V
25 (V)	Ground	Manual mode shift down signal	Input	switch ON	tion Other than the above	12 V
26	Ground	Paddle shift down signal	Input	Ignition switch	Paddle shifter down operation	0 V
(G)	0.00	- addie omit domi olginal		ON	Other than the above	12 V
27 (LG)	Ground	Communication signal (METER → AMP.)	Input	Ignition switch ON		(V) 6 4 2 0 1ms SKIA3361E
28 (R)	Ground	Vehicle speed signal output (8-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).
					Parking brake applied	0 V
30 (V)	Ground	Parking brake switch signal	Input	Ignition switch ON	Parking brake released	(V) 8 4 0 10 ms JSNIA0007GB
34 (Y)	Ground	Communication signal (AMP. \rightarrow LCD)	Output	Ignition switch ON	_	(V) 6 4 2 0 JSNIA0027GB

	nal No. color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
41 (L)	Ground	ACC power supply	Input	Ignition switch ACC	_	Battery voltage
42 (BR)	Ground	Fuel level sensor signal	Input	Ignition switch ON	_	(V) 4 3 2 1 0 E 1/4 1/2 3/4 F JSNIA0013GB
45 (V)	Ground	Ambient sensor signal	Input	_	_	(V) 4 3 2 1 0 -10 0 10 20 30 40 [°F] JSNIA0014GB
53 (W)	Ground	Ignition signal	Input	Ignition switch ON	_	Battery voltage
54 (SB)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage
55 (B)	Ground	Ground	_	Ignition switch ON	_	0 V
56 (L)	Ground	CAN-H	_	_	_	_
57 (LG)	Ground	Brake fluid level switch signal	Input	Ignition switch ON	Brake fluid level is normal.	(V) 10 0 10 ms JSNIA0008GB
					The brake fluid level is low- er than the low level	0 V
58 (Y)	Ground	Fuel level sensor signal ground	_	Ignition switch ON	_	0 V
61 (B)	Ground	Ambient sensor signal ground	_	Ignition switch ON	_	0 V
71 (GR)	Ground	Ground	_	Ignition switch ON	_	0 V
72 (P)	Ground	CAN-L	_	_	_	_





⟨IC⟩: With ICC ⟨OI⟩: Without ICC FUSE BLOCK (J/B) (MZ), (E103) BATTERY To brake control system M11 M55 UNIFIED METER AND A/C AMP. (M66), (M67) CPU AMBIENT SENSOR E76 JCNWM5424GB Α

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< ECU DIAGNOSIS INFORMATION >

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Connector Type	or Type	TH80FW-CS16-TM4	19	H		Connector Type P01FB-A			
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匮			63	3	-		Connector Name	4WAS MAIN CONTROL LINIT	
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3	SB	1	98	GR GR	-		Ja	Simal Nama [Spacification]	
4	Υ	-	87	7 R	•	Connector No. B21	No. of Wire		
9	>		88	>	1	г	-	CAN-H	
15	>	1	96	GR	1	Connector Name FUEL LEVEL SENSOR UNIT (SUB)	4 BR	R-ANG GND	
16	æ	1	91	┝	1	Connector Type E02FGY-RS	M 2	R-ANG VCC	
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17							+	STOR CAMP	
2	1	1	Ļ				SP SB	K-MIK KLY	
23	۵	1	Conn	Connector No.	B13)	+	IGN	
24	S.	1	Conn	Connector Name	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)		31 BR	CAN-H	
22	SB	_					32 Y	CAN-L	
56	9	-	Conn	Connector Type	A03FW	lal	34 B	GND	
27	М	-	þ			No. of Wire	36 LG	TOS S/d	
28	G	1	彦	_	E	- B	37 P	R-MTR PWR SUPPLY	
31	>	1	7	۷ ت		2 w	H	R-MTR (RH)	
32	SB	1		1	-		39 G	R-MTR (LH)	
33	SHELD	Q			0		40 B	R-MTR GND	
34	М	1			7	Connector No. B22			
32	æ				3	t			
38	>					Connector Name FUEL LEVEL SENSOR UNIT AND FUEL PUMP (MAIN)			
37	. III	1	Terminal	In Color		Goppector Type F05FCV-RS			
ŝ	>	1	2	_	Signal Name [Specification]	1			
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Name	F
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EEG THOSP-W-NH Signal Name [Specification] E7 E7 E8 Signal Name [Specification] Signal Name [Specification] Signal Name [Specification] Signal Name [Specification]	1
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	Connector No.		W W Connector Type ModEW-I C						3 4		'		Ť		- 3	- 4 SB		Connector No F119	Τ	Connector Name						7 - ×		- - - -	Signal Name [Specification]		- 2 > 2	3 ×	tor No. E107 –	Connector Name PARKING BRAKE SWITCH	╗	tor Type TB01FW					3			
	39	40	41	7.7	44	45	46	47	48	49	59	99	/9	69	70	80	81	82	84	85	86	6	8 8	91	93	95	96	97	88	100	3		Connector No.	Connecto		Connector Type	1	F	2					
	for Signal Name [Specification]	VIICE	1 7							E106	MIRE TO WIRE	┱	e ITH80FW-CS16-IM4		- 100 mm m	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	90 00 00 00 00 00 00 00 00 00 00 00 00 0	00 00 00 00 00 00 00 00 00 00 00 00 00		lor Simal Nama [Snavification]		E (59	BG -	Ц	LG – [Without daytime running light]	4	R - [Without daytime running light]			-	GR -		M		BG -			Ψ -		1 1		- "	
	inal Color	+	+	╀	╁	╀	╀	$\left\{ \right.$		Connector No.	Connector Name	,	Connector Type	_	S E					\vdash	of Wire	+	+	H	Н	+	\dashv	+	+	+	╀	H	Ь	\dashv	┥	+	+	+	+	+	+	╀	╀	ł
METER	\Box	Connector Name ICC SENSOR INTEGRATED UNIT	Connector Type RSORER-DP					<u>ୀ</u>	4 5 6			Terminal Color Signal Name [Specification]	or wife	+	L CAN-H	GND	6 P CAN-L		Connector No F76	AMBIENT SENSOP	Т	ROUZFB		9)	<u>ه ا</u>	Tominal Color	of Wire Signal Name [Specification]	- 5		91		Connector No. E103	Connector Name FUSE BLOCK (J/B)		Connector Lype NS16FW-CS 20	06		1.3.		16F13F13F13F12F111F10F9F18F1	96

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Connector No. Connector Typ. H.S.	Terminal Co of V No. of V 18 18 28 28 28 28 28 28 28 28 28 28 28 28 28	Connectt Connectt
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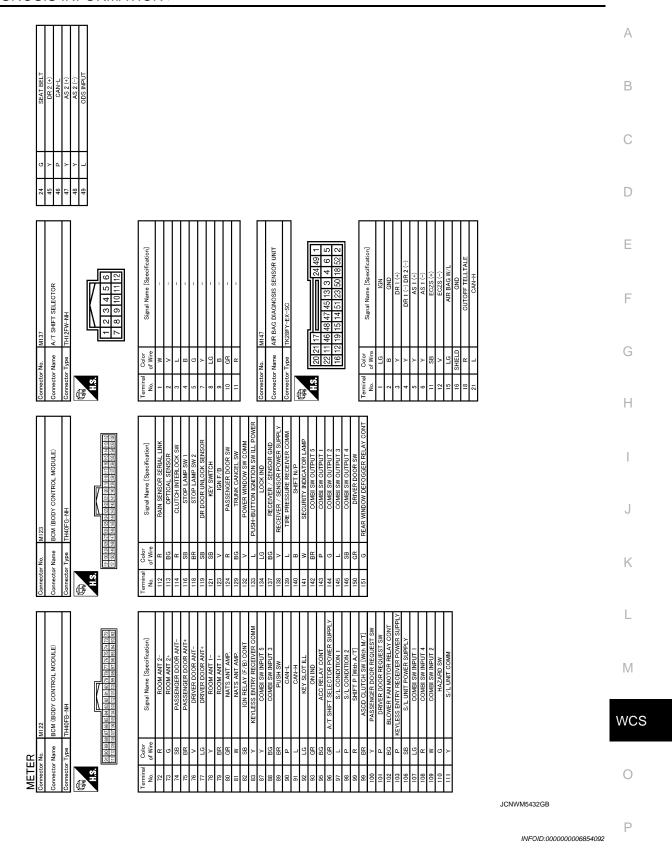
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< ECU DIAGNOSIS INFORMATION >

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Se		J K
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JCNWM5431GB



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.

< ECU DIAGNOSIS INFORMATION >

	Function	Specifications		
Speedometer				
Tachometer		December of the second state of the second sta		
Fuel gauge		Reset to zero by suspending communication.		
Water temperature gauge				
Illumination control		When suspending communication, change to nighttime mode.		
	Door open warning			
	Parking brake release warning	The display turns off by suspending communication.		
	Low tire pressure warning	The display turns on by suspending communication.		
	Fuel filler cap warning			
Information display	Instantaneous fuel warning	When reception time of an abnormal signal is 2 seconds or		
	Average fuel consumption	less, the last received datum is used for calculation to indicate the result.		
	Average vehicle speed	When reception time of an abnormal signal is more than two		
	Travel distance	seconds, the last result calculated during normal condition is indicated.		
Buzzer		The buzzer turns off by suspending communication.		
	ABS warning lamp			
	VDC warning lamp	The lamp turns on by suspending communication.		
	Brake warning lamp			
	CRUISE warning lamp			
	Malfunction indicator lamp			
	High beam indicator			
	Turn signal indicator lamp			
	Oil pressure warning lamp			
Warning lamp/indicator	A/T CHECK warning lamp			
lamp	VDC OFF indicator lamp			
	Low tire pressure warning lamp			
	Key warning lamp	The lamp turns off by suspending communication.		
	AFS OFF indicator lamp			
	4WAS warning lamp			
	Master warning lamp			
	AWD warning lamp			
	Tail lamp indicator lamp			
	Front fog lamp indicator lamp	7		

DTC Index

Display contents of CONSULT-III	Time		Diagnostic item is detected when	Refer to
U1000: CAN COMM CIRCUIT	CRNT	PAST	When unified meter and A/C amp. is not transmitting or receiving CAN communication signal for 2 seconds or more.	<u>MWI-42</u>
U1010: CONTROL UNIT (CAN)	CRNT	PAST	When detecting error during the initial diagnosis of CAN controller of unified meter and A/C amp.	MWI-43
B2201: COMM ERROR 1	CRNT	PAST	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>
B2202: COMM ERROR 2	CRNT	PAST	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-46</u>

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT-III	Time		Diagnostic item is detected when	Refer to
B2205: VEHICLE SPEED	CRNT	PAST	The abnormal vehicle speed signal is input from ABS actuator and electric unit (control unit) for 2 seconds or more.	MWI-48
B2267: ENGINE SPEED CRNT PAST If ECM continuously transmits abnormal engine speed for 2 seconds or more.		If ECM continuously transmits abnormal engine speed signals for 2 seconds or more.	MWI-49	
B2268: WATER TEMP	CRNT	PAST	If ECM continuously transmits abnormal engine coolant temperature signals for 60 seconds or more.	MWI-50

NOTE:

The details of TIME display are as follows.

- CRNT: The malfunctions that are detected now.
- PAST: The malfunctions was detected in the past. IGN counter is displayed on FFD (Freeze Frame data).
- 1 39: The number is indicated when it is normal at present and a malfunction was detected in the past. It increases like 0 → 1 → 2 ··· 38 → 39 after returning to the normal condition whenever IGN OFF → ON. It is fixed to 39 until the self-diagnosis results are erased if it is over 39. It returns to 0 when a malfunction is detected again in the process.

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
TIX WIF LIX TII	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
	Front washer switch ON	On
ED WIDED INT	Other than front wiper switch INT/AUTO	Off
FR WIPER INT	Front wiper switch INT/AUTO	On
FR WIPER STOP	Front wiper is not in STOP position	Off
FR WIPER STOP	Front wiper is in STOP position	On
INT VOLUME	Wiper volume dial is in a dial position 1 - 7	Wiper volume dial posi tion
TUDNI SICNAL D	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
TUDN SIGNAL I	Other than turn signal switch LH	Off
TURN SIGNAL L	Turn signal switch LH	On
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off
TAIL LAIVIP SVV	Lighting switch 1ST or 2ND	On
LILDEANA CVA	Other than lighting switch HI	Off
HI BEAM SW	Lighting switch HI	On
LIEAD LAMB CW/A	Other than lighting switch 2ND	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
DA CCINIC CW	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
ALITO LIQUIT OW	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
ED EOC SW	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
DOOD CW DD	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
DOOD CW AC	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
DOOR SW-RR	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-RL	NOTE: The item is indicated, but not monitored.	Off

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

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	_
CDL LOCK SW	Power door lock switch LOCK	On	_
CDL UNLOCK SW	Other than power door lock switch UNLOCK	Off	_
	Power door lock switch UNLOCK	On	_
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off	_
KET CTL LK-SW	Driver door key cylinder LOCK position	On	_
KEY CYLLIN CW	Other than driver door key cylinder UNLOCK position	Off	_
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On	_
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off	-
114.74.DD 0\4/	Hazard switch is OFF	Off	_
HAZARD SW	Hazard switch is ON	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	_
TD CANCEL CW	Trunk lid opener cancel switch OFF	Off	_
TR CANCEL SW	Trunk lid opener cancel switch ON	On	_
TD/DD 005N 004	Trunk lid opener switch OFF	Off	-
TR/BD OPEN SW	While the trunk lid opener switch is turned ON	On	-
	Trunk lid closed	Off	-
TRNK/HAT MNTR	Trunk lid opened	On	_
	LOCK button of the Intelligent Key is not pressed	Off	-
RKE-LOCK	LOCK button of the Intelligent Key is pressed	On	_
	UNLOCK button of the Intelligent Key is not pressed	Off	-
RKE-UNLOCK	UNLOCK button of the Intelligent Key is pressed	On	-
	TRUNK OPEN button of the Intelligent Key is not pressed	Off	_
RKE-TR/BD	TRUNK OPEN button of the Intelligent Key is pressed	On	-
	PANIC button of the Intelligent Key is not pressed	Off	-
RKE-PANIC	PANIC button of the Intelligent Key is pressed	On	-
	UNLOCK button of the Intelligent Key is not pressed	Off	-
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is pressed and held	On	-
RKE-MODE CHG	LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously	Off	-
	LOCK/UNLOCK button of the Intelligent Key is pressed and held simultaneously	On	-
	Bright outside of the vehicle	Close to 5 V	_
OPTICAL SENSOR	Dark outside of the vehicle	Close to 0 V	-
	Driver door request switch is not pressed	Off	_
REQ SW -DR	Driver door request switch is pressed	On	-
	Passenger door request switch is not pressed	Off	_
REQ SW -AS	Passenger door request switch is pressed	On	_
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off	_
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off	_

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BCM (BODY CONTROL MODULE)

Monitor Item	Condition	Value/Status
REQ SW -BD/TR	Trunk lid opener request switch is not pressed	Off
REQ SW -BD/TR	Trunk lid opener request switch is pressed	On
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
	Push-button ignition switch (push switch) is pressed	On
ION DIVO. E/D	Ignition switch in OFF or ACC position	Off
IGN RLY2 -F/B	Ignition switch in ON position	On
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off
OLLIGIT OW	The clutch pedal is not depressed	Off
CLUCH SW	The clutch pedal is depressed	On
	The brake pedal is depressed when No. 7 fuse is blown	Off
BRAKE SW 1	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
	The brake pedal is not depressed	Off
BRAKE SW 2	The brake pedal is depressed	On
	Selector lever in P position (Except M/T models) The clutch pedal is depressed (M/T models)	Off
DETE/CANCL SW	Selector lever in any position other than P (Except M/T models) The clutch pedal is not depressed (M/T models)	On
CET DAI/AL CVA/	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 unlocked	Off
NOTE: For models without steering lock unit, this item is not monitored.	Steering is locked	On
S/L -UNLOCK	Steering is locked	Off
NOTE: For models without steering lock unit, this item is not monitored.	Steering is unlocked	On
S/L RELAY-F/B	Ignition switch in OFF or ACC position	Off
NOTE: For models without steering lock unit, this item is not monitored.	Ignition switch in ON position	On
UNLK SEN -DR	Driver door is unlocked	Off
CIVER OF IN-DIV	Driver door is locked	On
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off
I USITOW TEDIVI	Push-button ignition switch (push-switch) is pressed	On
ION DIVA E/D	Ignition switch in OFF or ACC position	Off
IGN RLY1 -F/B	Ignition switch in ON position	On
DETE SW -IPDM	Selector lever in any position other than P	Off
	Selector lever in P position	On
SFT PN -IPDM	Selector lever in any position other than P and N (Except M/T models) The clutch pedal is not depressed (M/T models)	Off
	Selector lever in P or N position The clutch pedal is depressed	On
SET D MET	Selector lever in any position other than P	Off
SFT P -MET	Selector lever in P position	On

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
OCT N. MCT	Selector lever in any position other than N	Off
SFT N -MET	Selector lever in N position	On
	Engine stopped	Stop
ENIONE OTATE	While the engine stalls	Stall
ENGINE STATE	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	Steering is unlocked	Off
NOTE: For models without steering lock unit, this item is not monitored.	Steering is locked	On
S/L UNLK-IPDM	Steering is locked	Off
NOTE: For models without steering lock unit, this item is not monitored.	Steering is unlocked	On
S/L RELAY-REQ NOTE:	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK	Off
For models without steering lock unit, this item is not monitored.	Steering lock system are not the LOCK condition or the changing condition from LOCK to UNLOCK	On
VEH SPEED 1	While driving	Equivalent to speed- ometer reading
VEH SPEED 2	While driving	Equivalent to speed- ometer reading
	Driver door is locked	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (60 seconds)	READY
	Driver door is unlocked	UNLOCK
	Passenger door is locked	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (60 seconds)	READY
	Passenger door is unlocked	UNLOCK
ID OK FLAG	Driver side door is open after ignition switch is turned OFF (Selector lever is in the P position except for M/T models)	Reset
	Ignition switch is ON	Set
PRMT ENG STRT	The engine start is prohibited	Reset
PRIVITEING STRT	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
ZEV SW. SLOT	The Intelligent Key is not inserted into key slot	Off
KEY SW -SLOT	The Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	_
CONFRM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
CONFRIVI ID ALL	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done

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Monitor Item	Condition	Value/Status
CONFIRM ID4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
CONFIRM ID4	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done
CONFIRM ID3	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet
CON INWIED	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
OOM IKWIBZ	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done
CONFIRM ID1	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
CONTINUED I	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done
TP 4	The ID of fourth Intelligent Key is not registered to BCM	Yet
11 4	The ID of fourth Intelligent Key is registered to BCM	Done
TP 3	The ID of third Intelligent Key is not registered to BCM	Yet
IP 3	The ID of third Intelligent Key is registered to BCM	Done
TDO	The ID of second Intelligent Key is not registered to BCM	Yet
TP 2	The ID of second Intelligent Key is registered to BCM	Done
TD 4	The ID of first Intelligent Key is not registered to BCM	Yet
TP 1	The ID of first Intelligent Key is registered to BCM	Done
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	ID of front LH tire transmitter is registered	Done
ID NEODITEI	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID REGGITINI	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
ID REGOT KKT	ID of rear RH tire transmitter is not registered	Yet
ID DECCT DL4	ID of rear LH tire transmitter is registered	Done
ID REGST RL1	ID of rear LH tire transmitter is not registered	Yet
MADNING LAND	Tire pressure indicator OFF	Off
WARNING LAMP	Tire pressure indicator ON	On
DUZZED	Tire pressure warning alarm is not sounding	Off
BUZZER	Tire pressure warning alarm is sounding	On

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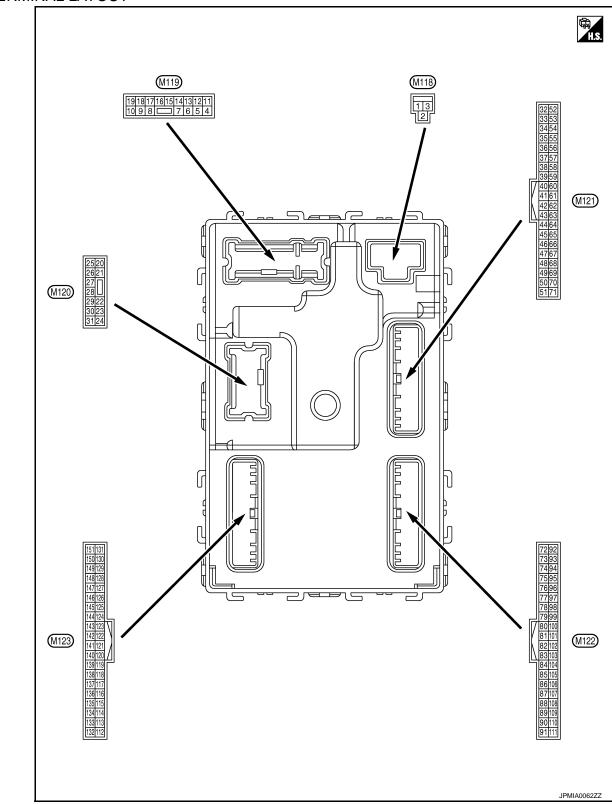
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TERMINAL LAYOUT



PHYSICAL VALUES

Revision: 2011 December WCS-75 2011 G Coupe

	nal No.	Description			0 100	Value
+ (vvire	color)	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 (OFF	12 V
3 (BG)	Ground	P/W power supply (RAP)	Output	Ignition switch (ON	12 V
					mp battery saver is activated. or room lamp power supply)	0 V
4 (LG)	Ground	Interior room lamp power supply	Output	vated.	mp battery saver is not acti- erior room lamp power sup-	12 V
5	Ground	Passenger door UN-	Output	Passenger	UNLOCK (Actuator is activated)	12 V
(P)	Ground	LOCK	Output	door	Other than UNLOCK (Actuator is not activated)	0 V
7	Ground	Step lamp	Output	Step lamp	ON	0 V
(SB)	Cround	Ctop tamp	Output	Otop tamp	OFF	12 V
8	Ground	All doors, fuel lid	, fuel lid Output	All doors, fuel	LOCK (Actuator is activated)	12 V
(V)	Cround	LOCK	Output	lid	Other than LOCK (Actuator is not activated)	0 V
9	Ground	Driver door, fuel lid	Output	Driver door,	UNLOCK (Actuator is activated)	12 V
(G)	Ground	UNLOCK	Output	fuel lid	Other than UNLOCK (Actuator is not activated)	0 V
11 (R)	Ground	Battery power supply	Input	Ignition switch (OFF	Battery voltage
13 (B)	Ground	Ground	_	Ignition switch (ON	0 V
					OFF	0 V
14 (W)	Ground	Push-button ignition switch illumination	Output	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position.
(**)		ground			ON	10 0 2 ms JSNIA0010GB
15 (BC)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
(86)	(BG)	7.00 indicator famp		J	ACC	0 V

(Mire color)		Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
					Turn signal switch OFF	(V)
17 (W)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch RH	10 5 0 1 s PKID0926E 6.5 V
					Turn signal switch OFF	0 V
18 (BG)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
19 (V)	Ground	Room lamp timer control	Output	Interior room lamp	OFF	12 V
(•)		CONTROL		штр	ON Turn signal switch OFF	0 V
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
23	Ground	Trunk lid open	Output	Trunk lid	OPEN (Trunk lid opener actuator is activated)	12 V
(LG)	Ground	типк на орен	Output	TIGHN HU	Other than OPEN (Trunk lid opener actuator is not activated)	0 V
					Turn signal switch OFF	0 V
25 (Y)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
30	Ground	Trunk room lamp	Output	Trunk room	ON	0 V
(P)	Cround		Catput	lamp	OFF	12 V

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
34		Trunk room antenna			When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 S S S S S S S S S
(SB)	Ground	(-)	Output	Ignition switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 1
35	Ground	Trunk room antenna	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(V)	Sissand	(+)	Supu	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0063GB
38	Ground	Rear bumper anten-	Output	When the trunk lid opener re- quest switch is	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(B)	Glound	na (–)	Output	operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

	nal No.	Description				Value	٨	
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)	А	
39		Rear bumper anten-		When the trunk lid opener re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	B C D	
(W)	Ground	na (+)	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	E F	
47		Ignition relay (IPDM			OFF or ACC	12 V	G	
(Y)	Ground	E/R) control	Output	Ignition switch	ON	0 V		
50 (BG)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (Trunk lid is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB	H	
						ON (Trunk lid is opened)	0 V	
				Ignition switch	When selector lever is in P or N position	12 V	K	
52	Ground	Starter relay control	Output	ON (A/T models)	When selector lever is not in P or N position	0 V	L	
(R)	Ground	Starter relay control	Output	Ignition switch ON (M/T mod-	When the clutch pedal is depressed	Battery voltage		
				els)	When the clutch pedal is not depressed	0 V	M	
60* ³	Ground	Push-button ignition	Input	Push-button ig- nition switch	Pressed	0 V		
(BR)	Oroana	switch (Push switch)	mpat	(Push switch)	Not pressed	Battery voltage	WCS	
					ON (Pressed)	0 V		
61 (SB)	Ground	Trunk lid opener request switch	Input	Trunk lid open- er request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V	O P	
		Intelligent Key warn-		Intelligent Key	Sounding	0 V		
64 (G)	Ground	ing buzzer (Engine room)	Output	warning buzzer (Engine room)	Not sounding	12 V		
	1	,	1	,				

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
67 (GR)	Ground	Trunk lid opener switch	Input	Trunk lid open- er switch	Pressed Not pressed	0 V (V) 15 10 5 0 JPMIA0011GB
72	Ground	Room antenna 2 (–)	Qutout	Ignition switch	When Intelligent Key is in the passenger compartment	11.8 V (V) 15 10 1
(R)	Ground	(Center console)	Output O	OFF OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB
73	Ground	Room antenna 2 (+)	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(G)	Giound	(Center console)	Output	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB

	inal No. e color)	Description			Condition	Value	А
+	-	Signal name	Input/ Output		Condition	(Approx.)	, ,
74	Constant	Passenger door an-	0.4.4	When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	B C
(SB)	Ground	tenna (-)	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	E
75		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	G H
(BR)	Ground	tenna (+)	Output	quest 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	J K L
76		Driver door antenna		When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	WC
(V)	Ground	(-)	Output	switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	O P

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
77		Driver door antenna		When the driv- er door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(LG)	Ground	(+)	Output	switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
78	Ground	Room antenna 1 (–)	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(Y)	J. G.	(Instrument panel)	Suipui	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0063GB
79	Ground	Room antenna 1 (+)	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(BR)	Sibulia	(Instrument panel)	Сари	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0063GB

	nal No. color)	Description			Condition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
80 (GR)	Ground	NATS antenna amp.	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.	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 (SB)	Ground	Ignition relay [Fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V 12 V
83	Ground	Remote keyless entry receiver communica-	Input/	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB
(Y)	Glound	tion	Output	When operating gent Key	either button on the Intelli-	(V) 15 10 5 0 1 ms JMKIA0065GB
					All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
87 (Y)	Ground	Combination switch INPUT 5	Input	Combination switch	Front fog lamp switch ON (Wiper volume dial 4)	(V) 15 10 5 2 ms JPMIA0037GB
					Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 2 Wiper volume dial 6 Wiper volume dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V

	nal No.	Description				Value
+	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
88	Ground	Combination switch	Input	Combination switch	Lighting switch HI (Wiper volume dial 4)	(V) 15 10 5 2 ms JPMIA0036GB 1.3 V
(BG)		INPUT 3			Lighting switch 2ND (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB
					Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 2 Wiper volume dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V
89* ⁴	Ground	Push-button ignition	Input	Push-button ig- nition switch	Pressed	0 V
(BR)	Crodita	switch (Push switch)	-	(push switch)	Not pressed	Battery voltage
90 (P)	Ground	CAN-L	Input/ Output		_	_
91 (L)	Ground	CAN-H	Input/ Output		_	_
					OFF	0 V
92 (LG)	Ground	Key slot illumination	Output	Key slot illumi- nation	Blinking	(V) 15 10 5 0 1 s JPMIA0015GB
					ON	6.5 V 12 V

	nal No.	Description			•	Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
93 (GR)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
(GR)					ON	0 V
95	Cround	ACC relevine metrel	0454	lamition outlab	OFF	0 V
(BG)	Ground	ACC relay control	Output	Ignition switch	ACC or ON	12 V
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output		_	12 V
97* ⁴	Ground	Steering lock condi-	Input	Steering lock	LOCK status	0 V
(L)	Cround	tion No. 1	прас	Otooning look	UNLOCK status	12 V
98* ⁴	Ground	Steering lock condi-	Input	Steering lock	LOCK status	12 V
(P)	Ground	tion No. 2	IIIput	Steering lock	UNLOCK status	0 V
		Selector lever P posi-		Selector lever	P position	0 V
		tion switch	Selector level	Any position other than P	12 V	
99		ASCD clutch switch (M/T models without	ASCD cluto	ASCD clutch	OFF (Clutch pedal is depressed)	0 V
(R)* ¹ (BR)* ²	Ground	ICC)	Input	out	ON (Clutch pedal is not depressed)	12 V
,		ICC clutch switch (M/	ICC clutch switch	ICC clutch	OFF (Clutch pedal is depressed)	0 V
		T models with ICC)		ON (Clutch pedal is not depressed)	12 V	
					ON (Pressed)	0 V
100 (Y)	Ground	Passenger door request switch	Input	Passenger door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V
					ON (Pressed)	0 V
101 (P)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
102		Blower fan motor re-		120	OFF or ACC	0 V
(BG)	Ground	lay control	Output	Ignition switch	ON	12 V
103 (P)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch (DFF	12 V
106*4	C=====================================	Steering lock unit	Cutout Issisias suitate		OFF or ACC	12 V
(SB)	Ground	power supply	Output	Ignition switch	ON	0 V

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper volume dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V
			Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V		

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description			Value		
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)	А
					All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	B C
108	Ground	Combination switch	Input	Combination	Lighting switch AUTO (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V	E F
(R)	Clound	INPUT 4	трис	switch	Lighting switch 1ST (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB	G H
					Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 5 Wiper volume dial 6	(V) 15 10 5 0 2 ms	J K
						1.3 V	L

M

WCS

0

P

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB
109 (W)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper volume dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V
					Front wiper switch INT/ AUTO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB
					ON	0 V
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V

Terminal No. Description (Wire color)				Value	Λ		
(Wire	color)	Signal name	Input/ Output	Condition		(Approx.)	А
-					LOCK status	12 V	В
111* ⁴ (Y)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK or UNLOCK	(V) 15 10 5 0 JMKIA0066GB	С
					For 15 seconds after UN- LOCK	12 V	Е
					15 seconds or later after UNLOCK	0 V	F
112 (R)	Ground	Rain sensor serial link	Input/ Output	Ignition switch C	DN	(V) 15 10 5 0 10 10 10 10 10 10 10 10 10 10 10 10 1	G
113 (BG)	Ground	Optical sensor	Input	Ignition switch	When bright outside of the vehicle When dark outside of the	8.7 V Close to 5 V Close to 0 V	I
					vehicle OFF (Clutch pedal is not		J
114 (R)	Ground	Clutch interlock switch	Input	Clutch interlock switch	depressed) ON (Clutch pedal is de-	0 V	
44.0					pressed)	Battery voltage	K
116 (SB)	Ground	Stop lamp switch 1	Input		_	Battery voltage	
		Stop lamp switch 2		Stop lamp	OFF (Brake pedal is not depressed)	0 V	L
118	Ground	(Without ICC)	Innut	switch	ON (Brake pedal is depressed)	Battery voltage	M
(BR)	(BK)	Stop lamp switch 2	Input		h OFF (Brake pedal is not ICC brake hold relay OFF	0 V	
		(With ICC)			h ON (Brake pedal is de- brake hold relay ON	Battery voltage	WCS
119 (SB)	Ground	Driver side door lock assembly (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	(V) 15 10 5 0 10 ms JPMIA0012GB	O P
					UNLOCK status (Unlock switch sensor ON)	0 V	

	nal No.	Description				Value
+	color)	Signal name	Input/ Output		Condition	(Approx.)
121 (SD)	Ground	Key slot switch	Input	When the Intelligent Key is inserted into key slot		12 V
(SB)				When the Intellig	gent Key is not inserted into	0 V
123 (V)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V Battery voltage
124 (R)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) 15 10 10 ms JPMIA0011GB 11.8 V
					ON (Door open)	0 V
129 (BG)	Ground	Trunk lid opener can- cel switch	Input	Trunk lid open- er cancel switch	CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V
					ON	0 V
132 (V)	Ground	Power window switch communication	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB
				Ignition switch C	OFF or ACC	12 V
		<u> </u>			ON (Tail lamps OFF)	9.5 V
133 (L)	Ground	Push-button ignition switch illumination	Output	Push-button ig- nition switch il- lumination	ON (Tail lamps ON)	NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level. (V) 15 10 5 0 JPMIA0159GB
					OFF	0 V
134 (LG)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF ON	Battery voltage 0 V
137 (BG)	Ground	Receiver and sensor ground	Input	Ignition switch C		0 V

Terminal No. Description (Wire color)		Description			0 100	Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)	
138		Receiver and sensor	0		OFF	0 V	
(V)	Ground	power supply	Output	Ignition switch	ACC or ON	5.0 V	
139	Ground	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 + 0.2s OCC3881D	
(L)	Cround	er communication	Output ON	ON	When receiving the signal from the transmitter	(V) 6 4 2 0 • 0.2s OCC3880D	
140	Ground	Selector lever P/N	Input	Selector lever	P or N position	12 V	
(B)	2.34.14	position (A/T models)		20.00.01	Except P and N positions	0 V 0 V	
141 (W)	Ground	Security indicator	Output	Security indicator	Blinking	(V) 15 10 5 0 1 1 s JPMIA0014GB	
			OFF	12 V			
				Combination	All switches OFF Lighting switch 1ST Lighting switch HI	0 V	
142 (BR) Ground Combination switch OUTPUT 5	Output	switch (Wiper volume dial 4)	Lighting switch 2ND Turn signal switch RH	10 5 0 2 ms JPMIA0031GB 10.7 V			
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switches OFF (Wiper volume dial 4) Front wiper switch HI (Wiper volume dial 4) Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 2 Wiper volume dial 3 Wiper volume dial 6 Wiper volume dial 7	0 V (V) 15 10 5 0 2 ms JPMIA0032GB 10.7 V	

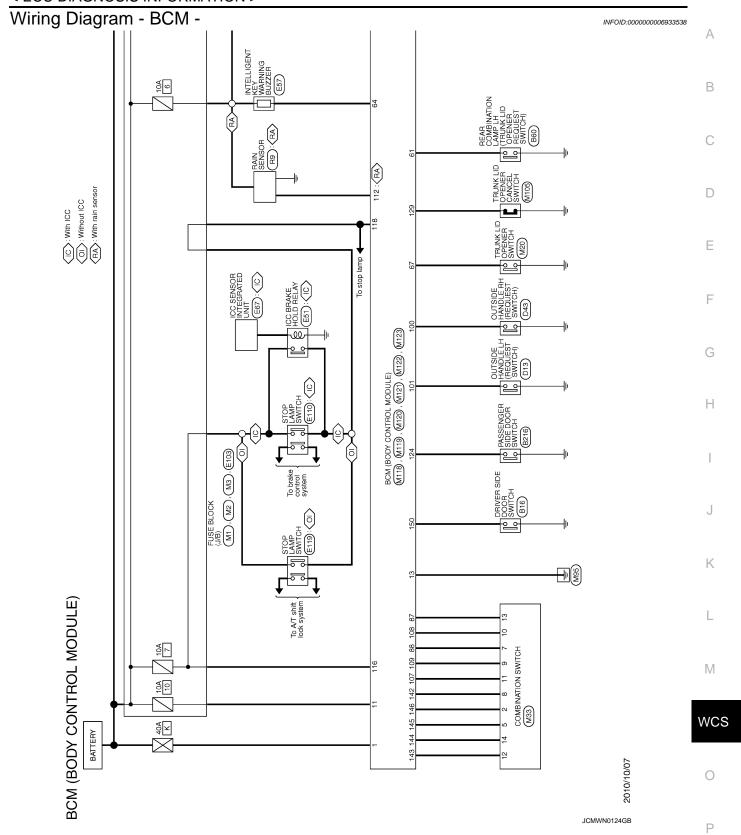
	nal No.	Description				Value
+	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper volume dial 4)	0 V
					Front washer switch ON (Wiper volume dial 4)	(V)
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 5 Wiper volume dial 6	10 5 0 2 ms JPMIA0033GB
					All switches OFF	0 V
					Front wiper switch INT/ AUTO	(V)
145		Combination switch		Combination switch	Front wiper switch LO	15
(L)	Ground	OUTPUT 3		(Wiper volume	Lighting switch AUTO	5 0 2 ms JPMIA0034GB
					All switches OFF	0 V
				Combination	Front fog lamp switch ON	
		Combination switch OUTPUT 4			Lighting switch 2ND	(V) 15
146	Ground			switch	Lighting switch PASS	10
(SB)		OUTPUT 4		dial 4)	Turn signal switch LH	0
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (Door open)	0 V
151	Ground	Rear window defog-	Output	Rear window	Active	0 V
(G)	2.303	ger relay control		defogger	Not activated	Battery voltage

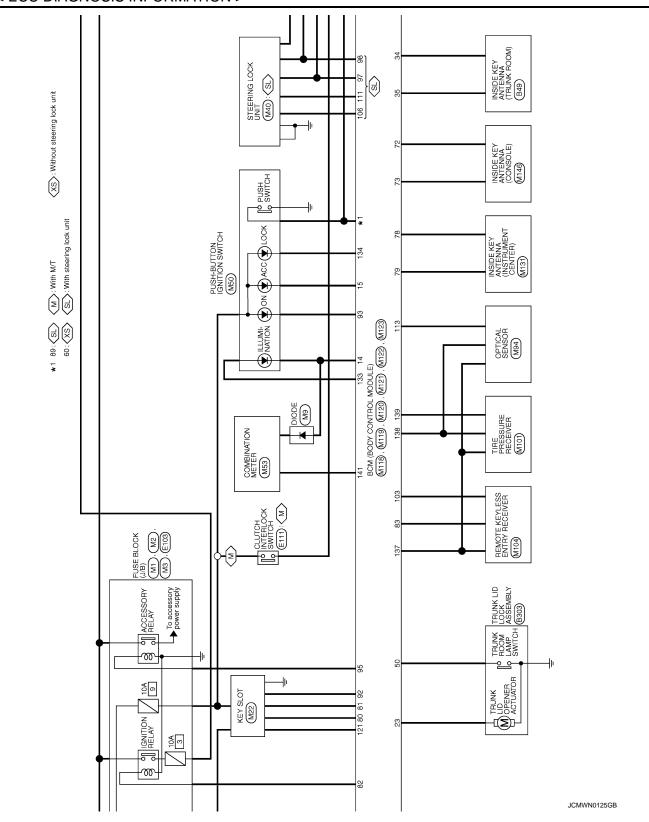
^{• *1:} A/T models

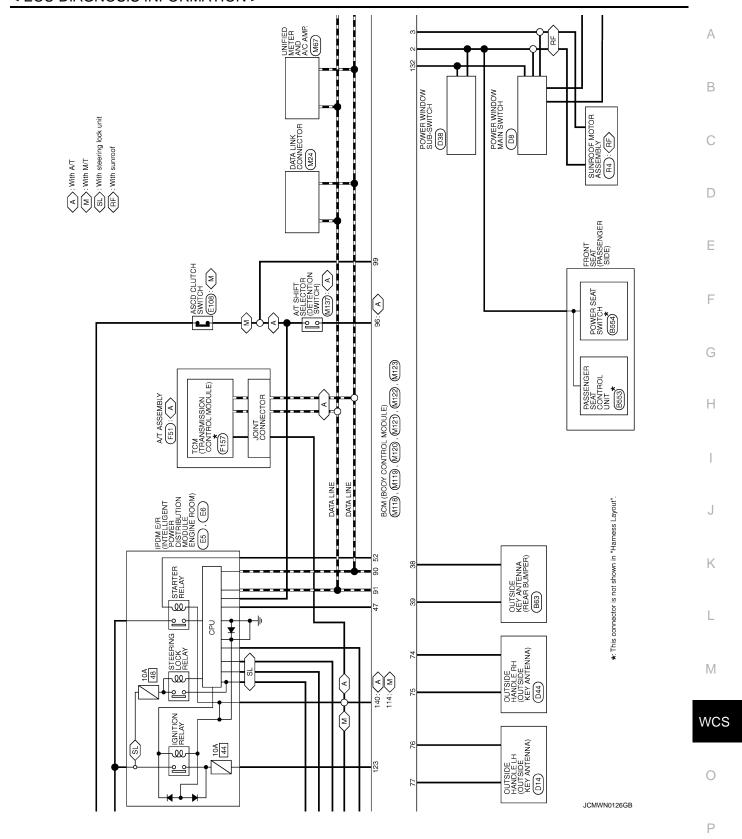
^{• *2:} M/T models

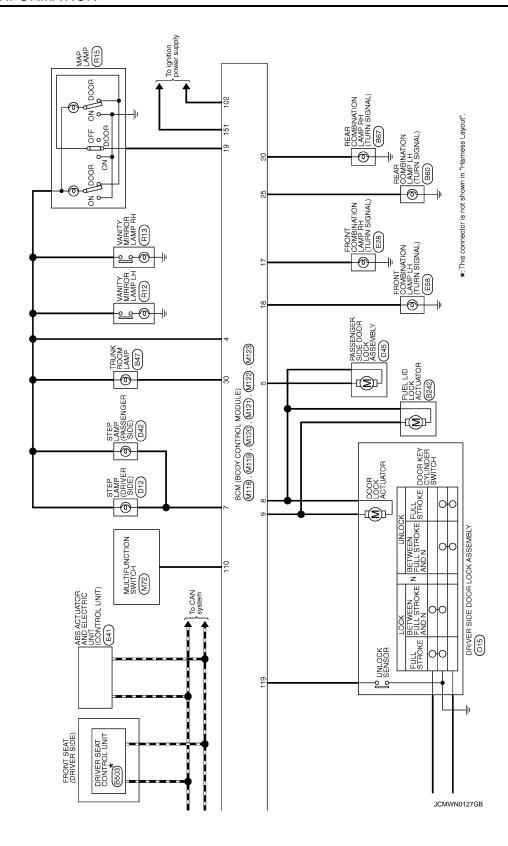
^{• *3:} Without steering lock unit

^{• *4:} With steering lock unit





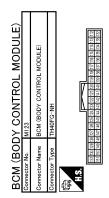




< ECU DIAGNOSIS INFORMATION >

R SUIPPLY I SSY WY CONT WER SUIPPLY PLY PLY PLY PLY PLY PLY PLY PLY PLY	А
Y KEYLESS ENTRY RECEIVER COMM	В
Y Y Y Y Y Y H H H H H B B B	С
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L MODULE) SECTION SEC	Е
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MI19	1
M119	J
Commetter No. M	К
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BCM (BODY CONTROL MODULE) Johnseicor No. M33	M
	WCS
Connector No.	0
JCMWN	10128GB

Revision: 2011 December WCS-97 2011 G Coupe



Thermody	17.0	
N I	1000	Signal Name [Specification]
No.	ot Wire	
112	æ	RAIN SENSOR SERIAL LINK
113	bВ	OPTICAL SENSOR
114	۳	CLUTCH INTERLOCK SW
116	SB	STOP LAMP SW 1
118	BR	STOP LAMP SW 2
119	SB	DR DOOR UNLOCK SENSOR
121	SB	KEY SWITCH
123	۸	IGN F/B
124	ď	PASSENGER DOOR SW
129	BG	TRUNK CANCEL SW
132	^	POWER WINDOW SW COMM
133	٦	PUSH-BUTTON IGNITION SWILL POWER
134	PC	LOCK IND
137	BG	RECEIVER / SENSOR GND
138	۸	RECEIVER / SENSOR POWER SUPPLY
139	7	TIRE PRESSURE RECEIVER COMM
140	В	SHIFT N/P
141	М	SECURITY INDICATOR LAMP
142	BR	COMBI SW OUTPUT 5
143	Ь	COMBI SW OUTPUT 1
144	5	COMBI SW OUTPUT 2
145	٦	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
150	GR	DRIVER DOOR SW
151	5	REAR WINDOW DEFOGGER RELAY CONT

JCMWN0129GB

Fail-safe

FAIL-SAFE CONTROL BY DTC

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

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation	1
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC	
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC	
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC	
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC	
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC	
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC	
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch ON → OFF	
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals are received from ABS actuator and electric unit (control unit) for 500 ms	
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent Starter control relay signal Starter relay status signal	
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 ful- filled • Ignition switch is in the ON position • Selector lever P position switch signal: Except P position (12 V) • Vehicle speed: 4 km/h (2.5 MPH) or more	
B2603: SHIFT POSI STATUS	Inhibit steering lock	 500 ms after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (12 V) Selector lever P/N position signal: Except P and N positions (0 V) 	
B2604: PNP/CLUTCH SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled • Status 1 - Ignition switch is in the ON position - Selector lever P/N position signal: P and N position (12 V) - 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/CLUTCH SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled • Status 1 - Ignition switch is in the ON position - 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 (12 V) - PNP switch signal (CAN): ON	V
B2606: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes 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 becomes consistent • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal)	

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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 (12 V) 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 are 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 are 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: BCM	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 inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E8: CLUTCH SW	Inhibit engine cranking	When any of the following BCM recognition conditions are fulfilled • Status 1 - Clutch switch signal (CAN from ECM): ON - Clutch interlock switch signal: OFF (0 V) • Status 2 - Clutch switch signal (CAN from ECM): OFF - Clutch interlock switch signal: ON (Battery voltage)
B26E9: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When BCM transmits the LOCK request signal to steering lock unit, and receives LOCK response signal from steering lock unit, the following conditions are fulfilled • Steering condition No. 1 signal: LOCK (0 V) • Steering condition No. 2 signal: LOCK (12 V)

DTC Inspection Priority Chart

INFOID:0000000006933540

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
2	U1000: CAN COMM U1010: CONTROL UNIT(CAN)
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI-SCANNING

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Priority	DTC	Α.
	B2013: ID DISCORD BCM-S/L B2014: CHAIN OF S/L-BCM B2553: IGNITION RELAY B2555: STOP LAMP	А В
	 B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION 	C
	 B2603: SHIFT POSI STATUS B2604: PNP/CLUTCH SW B2605: PNP/CLUTCH SW B2606: S/L RELAY B2607: S/L RELAY 	D
	B2608: STARTER RELAY B2609: S/L STATUS B260A: IGNITION RELAY	Е
4	 B260B: STEERING LOCK UNIT B260C: STEERING LOCK UNIT B260D: STEERING LOCK UNIT B260F: ENG STATE SIG LOST B2612: S/L STATUS 	F
	B2614: BCMB2615: BCMB2616: BCM	G
	 B2617: BCM B2618: BCM B2619: BCM B261A: PUSH-BTN IGN SW 	Н
	B261E: VEHICLE TYPE B26E8: CLUTCH SW B26E9: S/L STATUS B26EA: KEY REGISTRATION	I
	C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED	J
	 C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL 	К
5	 C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RL C1716: [PRESSDATA ERR] FL 	L
	 C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RL C1734: CONTROL UNIT 	M
6	B2621: INSIDE ANTENNA B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA	WC

DTC Index

INFOID:0000000006933541

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NOTE:

The details of time display are as follows.

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

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to BCS-15, "COM-MON ITEM: CONSULT-III Function (BCM - COMMON ITEM)".

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Refer- ence page
No DTC is detected. further testing may be required.	_	_	_	_	_
U1000: CAN COMM	_	_	_	_	BCS-34
U1010: CONTROL UNIT(CAN)	_	_	_	_	BCS-35
U0415: VEHICLE SPEED	_	_	_	_	BCS-36
B2013: ID DISCORD BCM-S/L*	×	×	_	_	SEC-57
B2014: CHAIN OF S/L-BCM*	×	×	_	_	SEC-58
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-49
B2191: DIFFERENCE OF KEY	×	_	_	_	<u>SEC-52</u>
B2192: ID DISCORD BCM-ECM	×	_	_	_	<u>SEC-53</u>
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-55
B2195: ANTI-SCANNING	X	_	_	_	<u>SEC-56</u>
B2553: IGNITION RELAY	_	×	_	_	PCS-51
B2555: STOP LAMP	_	×	_	_	SEC-61
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-63
B2557: VEHICLE SPEED	×	×	×	_	SEC-65
B2560: STARTER CONT RELAY	×	×	×	_	SEC-66
B2562: LOW VOLTAGE	_	×	_	_	BCS-37
B2601: SHIFT POSITION	×	×	×	_	SEC-67
B2602: SHIFT POSITION	×	×	×	_	SEC-70
B2603: SHIFT POSI STATUS	×	×	×	_	SEC-72
B2604: PNP/CLUTCH SW	×	×	×	_	SEC-75
B2605: PNP/CLUTCH SW	×	×	×	_	SEC-77
B2606: S/L RELAY*	×	×	×	_	SEC-79
B2607: S/L RELAY*	×	×	×	_	SEC-80
B2608: STARTER RELAY	×	×	×	_	SEC-82
B2609: S/L STATUS*	×	×	×	_	SEC-84
B260A: IGNITION RELAY	×	×	×	_	PCS-53
B260B: STEERING LOCK UNIT*	_	×	×	_	SEC-88
B260C: STEERING LOCK UNIT*	_	×	×	_	SEC-89
B260D: STEERING LOCK UNIT*	_	×	×	_	SEC-90
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-91
B2612: S/L STATUS*	×	×	×	_	SEC-96
B2614: BCM	_	×	×	_	PCS-55
B2615: BCM	_	×	×	_	PCS-57
B2616: BCM	_	×	×	-	PCS-59
B2617: BCM	×	×	×	-	SEC-100
B2618: BCM	X	×	×	_	PCS-61
B2619: BCM*	×	×	×	_	SEC-102
B261A: PUSH-BTN IGN SW	_	×	×	_	PCS-62
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	SEC-103

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Refer- ence page	
B2621: INSIDE ANTENNA	_	×	_	_	DLK-56	
B2622: INSIDE ANTENNA	_	×	_	_	DLK-58	
B2623: INSIDE ANTENNA	_	×	_	_	DLK-60	
B26E8: CLUTCH SW	×	×	×	_	SEC-92	
B26E9: S/L STATUS*	×	×	× (Turn ON for 15 seconds)	_	<u>SEC-94</u>	
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	<u>SEC-95</u>	
C1704: LOW PRESSURE FL	_	_	_	×		
C1705: LOW PRESSURE FR	_	_	_	×	N/T O4	
C1706: LOW PRESSURE RR	_	_	_	×	<u>WT-24</u>	
C1707: LOW PRESSURE RL	_	_	_	×		
C1708: [NO DATA] FL	_	_	_	×		
C1709: [NO DATA] FR	_	_	_	×	W/T oc	
C1710: [NO DATA] RR	_	_	_	×	<u>WT-26</u>	
C1711: [NO DATA] RL	_	_	_	×		
C1716: [PRESSDATA ERR] FL	_	_	_	×		
C1717: [PRESSDATA ERR] FR	_	_	_	×	MT 00	
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u>WT-29</u>	
C1719: [PRESSDATA ERR] RL	_	_	_	×		
C1729: VHCL SPEED SIG ERR	_	_	_	×	WT-30	
C1734: CONTROL UNIT	_	_	_	×	WT-31	

^{*:} For models without steering lock unit, this DTC is not applied.

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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:000000006458046

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

Diagnosis Procedure

INFOID:0000000006458047

${f 1}$.CHECK UNIFIED METER AND A/C AMP. INPUT SIGNAL

- Connect the CONSULT-III.
- Select the "Data Monitor" of the "METER/M&A" and check the "PKB SW" monitor value. Refer to MWI-61,
 "Component Function Check".

Is the inspection result normal?

YES >> Replace combination meter.

NO >> GO TO 2.

2.CHECK PARKING BRAKE SWITCH SIGNAL CIRCUIT

Check the parking brake switch signal circuit. Refer to MWI-61, "Diagnosis Procedure (A/T models)" (A/T models) or MWI-62, "Diagnosis Procedure (M/T models)" (M/T models).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK PARKING BRAKE SWITCH

Check the parking brake switch. Refer to MWI-62, "Component Inspection".

Is the inspection result normal?

YES >> Replace combination meter.

NO >> Replace parking brake switch. Refer to <u>PB-6</u>, "<u>PEDAL TYPE</u>: <u>Exploded View</u>" (pedal type) or <u>PB-7</u>, "<u>LEVER TYPE</u>: <u>Exploded View</u>" (lever type).

THE LIGHT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >	-
THE LIGHT REMINDER WARNING DOES NOT SOUND	А
Description INFOID:000000006458048	3
Light reminder warning chime does not sound even though headlamp is illuminated.	В
Diagnosis Procedure)
1. CHECK COMBINATION SWITCH (LIGHT SWITCH) OPERATION	С
Check that the headlamps operate normally by operating the combination switch (light switch).	
<u>Do they operate normally?</u> YES >> GO TO 2.	D
NO >> Refer to <u>BCS-77, "Symptom Table"</u> .	
2. CHECK FRONT DRIVER SIDE DOOR SWITCH SIGNAL CIRCUIT	Е
Check the front driver side door switch signal circuit. Refer to DLK-63 , "Diagnosis Procedure". Is the inspection result normal?	
YES >> GO TO 3. NO >> Repair harness or connector.	F
3. CHECK FRONT DRIVER SIDE DOOR SWITCH	
Check the front driver side door switch. Refer to <u>DLK-64</u> , "Component Inspection".	G
Is the inspection result normal? YES >> Replace BCM. Refer to BCS-80, "Removal and Installation".	Н
NO >> Replace front driver side door switch. Refer to <u>DLK-242</u> , "Removal and Installation".	П
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THE SEAT BELT WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE SEAT BELT WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

Description

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

Diagnosis Procedure

INFOID:0000000006458051

1. CHECK SEAT BELT WARNING LAMP

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

Seat belt fastened : OFF Seat belt unfastened : ON

Is the inspection result normal?

YES >> Replace BCM.

NO >> GO TO 2.

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

- 1. Connect the CONSULT-III.
- Select the "Data Monitor" of the "METER/M&A" and check the "BUCKLE SW" monitor value. Refer to WCS-27, "Component Function Check".

Is the inspection result normal?

YES >> Replace combination meter.

NO >> GO TO 3.

3.check seat belt buckle switch (driver side) signal circuit

Check the seat belt buckle switch (driver side) signal circuit. Refer to WCS-27, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair harness or connector.

4. CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

Check the seat belt buckle switch (driver side). Refer to WCS-28, "Component Inspection".

Is the inspection result normal?

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

NO >> Replace seat belt buckle switch (driver side). Refer to <u>SB-8. "SEAT BELT BUCKLE : Removal and Installation"</u>.

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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 AIR BAG" and "SEAT BELT" of this Service Manual.

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precaution for Battery Service

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

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