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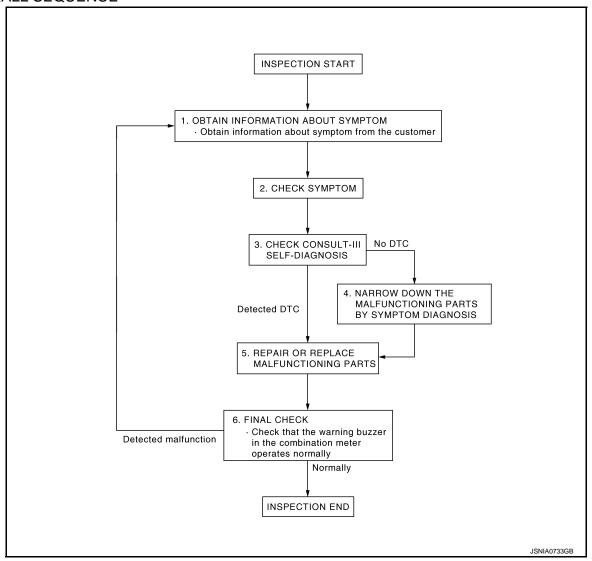
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

OVERALL SEQUENCE



DETAILED FLOW

1. OBTAIN INFORMATION ABOUT SYMPTOM

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

>> GO TO 2.

2.CHECK SYMPTOM

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

>> GO TO 3.

3. CHECK CONSULT-III SELF-DIAGNOSIS RESULTS

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

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

Are self-diagnosis results normal?

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

4. NARROW DOWN MALFUNCTIONING PARTS BY SYMPTOM DIAGNOSIS

Perform symptom diagnosis and narrow down the malfunctioning parts.

>> GO TO 5.

5. REPAIR OR REPLACE MALFUNCTIONING PARTS

Repair or replace malfunctioning parts.

NOTE:

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

>> GO TO 6.

6. FINAL CHECK

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

Does it operate normally?

YES >> INSPECTION END

NO >> GO TO 1.

SYSTEM DESCRIPTION

WARNING CHIME SYSTEM WARNING CHIME SYSTEM

WARNING CHIME SYSTEM: System Diagram

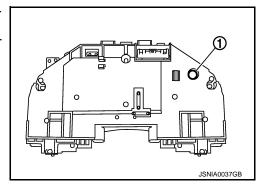
INFOID:0000000006209847 Parking brake switch Parking brak Combination switch (Lighting switch) Communication line (METER ← AMP. CAN communication line Unified meter and A/C amp. Combination meter Buzzer Door switch signa Front door switch Seat belt buckle switch signal JSNIA0500GB

WARNING CHIME SYSTEM: System Description

COMBINATION METER

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

 The buzzer sounds when the combination meter receives buzzer output signal from each unit through unified meter and A/C amp.



UNIFIED METER AND A/C AMP.

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

BCM

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

BCM warning function list

Warning functions	Signal name
Light reminder warning chime	Lighting switch position signal Door switch signal
Seat belt warning chime	Seat belt buckle switch signal

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INFOID:0000000006209848

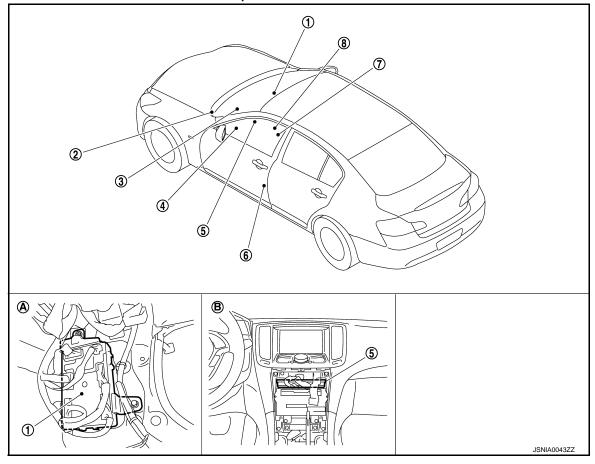
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WARNING CHIME SYSTEM : Component Parts Location

INFOID:0000000006209849



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

WARNING CHIME SYSTEM : Component Description

INFOID:0000000006209850

Unit	Description
Combination meter	 Receives a buzzer output signal from the unified meter and A/C amp. and sounds the buzzer. Judges whether the parking brake is released from the vehicle speed signal received from the unified meter and A/C amp. with CAN communication line and the parking brake switch signal from the parking brake switch, and sounds the buzzer if necessary.
Unified meter and A/C amp.	 Receives the seat belt buckle switch signal from the seat belt buckle switch and transmits it to BCM with CAN communication line. Receives a buzzer output signal from BCM with CAN communication line and transmits it to the combination meter by means of communication line.
BCM	Transmits signals provided by various units to the unified meter and A/C amp. with CAN communication line.
ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal to BCM with CAN communication line.
Seat belt buckle switch (driver side)	Transmits a seat belt buckle switch signal to the unified meter and A/C amp.
Combination switch (Lighting switch)	Transmits the lighting switch position signal to BCM.

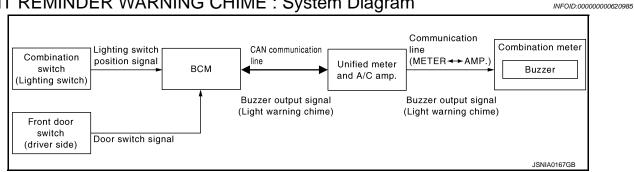
WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

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

LIGHT REMINDER WARNING CHIME

LIGHT REMINDER WARNING CHIME: System Diagram



LIGHT REMINDER WARNING CHIME: System Description

INFOID:0000000006209852

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DESCRIPTION

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

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

WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled.

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

WARNING CANCEL CONDITIONS

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

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

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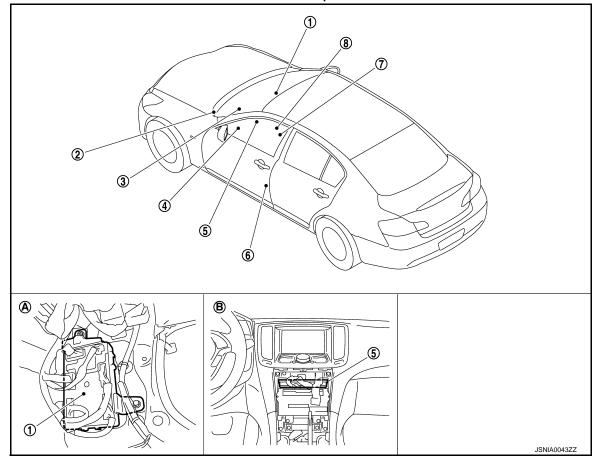
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WCS-7 Revision: 2011 November 2011 G Sedan

LIGHT REMINDER WARNING CHIME: Component Parts Location

INFOID:000000000620985



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

LIGHT REMINDER WARNING CHIME : Component Description

INFOID:0000000006209854

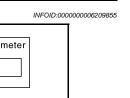
Unit	Description
Combination meter	Receives a buzzer output signal from the unified meter and A/C amp. and sounds the buzzer.
Unified meter and A/C amp.	Receives a buzzer output signal from BCM via CAN communication line and transmits it to the combination meter by means of communication line.
BCM	Judges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

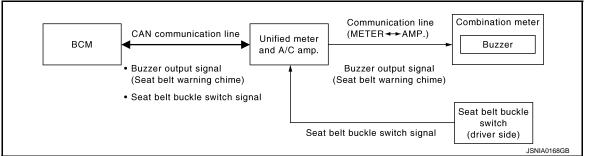
SEAT BELT WARNING CHIME

WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

SEAT BELT WARNING CHIME: System Diagram





SEAT BELT WARNING CHIME: System Description

INFOID:0000000006209856

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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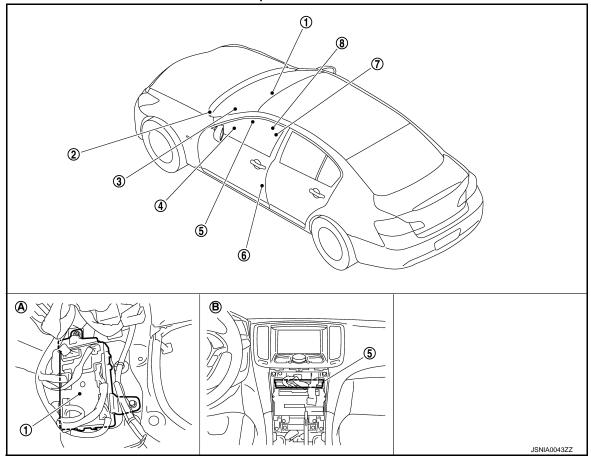
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SEAT BELT WARNING CHIME: Component Parts Location

INFOID:0000000006209857



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

SEAT BELT WARNING CHIME : Component Description

INFOID:0000000006209858

Unit	Description
Combination meter	Receives a buzzer output signal from the unified meter and A/C amp. and sounds the buzzer.
Unified meter and A/C amp.	 Receives the seat belt buckle switch signal from the seat belt buckle switch and transmits it to BCM via CAN communication line. Receives a buzzer output signal from BCM via CAN communication line and transmits it to the combination meter by means of communication line.
BCM	Judges the seat belt warning condition from the seat belt buckle switch signal received from the unified meter and A/C amp. and transmits a buzzer output signal to the unified meter and A/C amp via CAN communication line if necessary.
Seat belt buckle switch (driver side)	Refer to WCS-24, "Description".

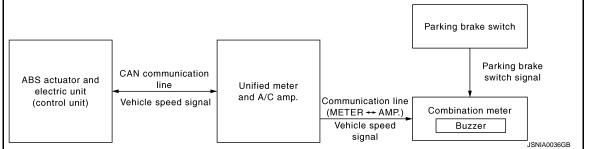
PARKING BRAKE RELEASE WARNING CHIME

WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

PARKING BRAKE RELEASE WARNING CHIME : System Diagram





PARKING BRAKE RELEASE WARNING CHIME: System Description

INFOID:0000000006209860

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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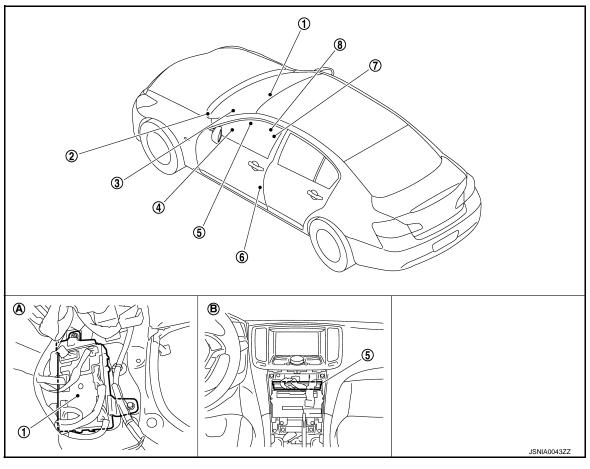
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PARKING BRAKE RELEASE WARNING CHIME: Component Parts Location

VFOID:0000000006209861



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

- 3. Combination meter
- 6. Front door switch (driver side)

PARKING BRAKE RELEASE WARNING CHIME: Component Description INFOID-00000000209862

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:0000000006844858

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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		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-107, "DTC Index".

DATA MONITOR

Display Item List

[On/Off]

X: Applicable 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/h or mph] 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. K **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. M 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 SLIP indicator lamp judged from slip indicator 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. DOOR W/L Status of door warning judged from door switch signal received from BCM with

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CAN communication line.

< 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 ECN with CAN communication line.
SET IND [On/Off]		Status of set indicator judged from ASCD SET indicator signal received from ECN 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 [Off]		This item is displayed, but cannot be monitored.
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 [On/Off]		Status of set vehicle speed indicator judged 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 manual mode shift up switch.
AT SFT DWN SW [On/Off]		Status of manual mode shift down switch.
ST SFT UP SW [On/Off]		Status of paddle shifter up switch.
ST SFT DWN SW [On/Off]		Status of paddle shifter down switch.
COMP FB SIG [On/Off]		A/C compressor activation condition that ECM judges according to the water temperature and the acceleration degree.
4WD LOCK SW [Off]		This item is displayed, but cannot be monitored.
PKB SW [On/Off]		Status of parking brake switch.
BUCKLE SW [On/Off]		Status of seat belt buckle switch.
BRAKE OIL SW [On/Off]		Status of brake fluid level switch.
DISTANCE [km]		Value of possible driving distance calculated by unified meter and A/C amp.
OUTSIDE TEMP [°C or °F]		Ambient 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.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

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APPLICATION ITEM

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

Diagnosis mode	Function Description	
Work Support	Changes the setting for each system function.	
Self 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.

x: Applicable item Diagnosis mode System Sub system selection item Work Support **Data Monitor Active Test** Door lock DOOR LOCK X × × REAR DEFOGGER Rear window defogger X × 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 Signal buffer system SIGNAL BUFFER × × **TPMS** TPMS (AIR PRESSURE MONITOR) X × X

NOTE:

FREEZE FRAME DATA (FFD)

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

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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit	Description			
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected			
Odo/Trip Meter	km	Total mileage (Odometer	r 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" (Vehicle is stopping and selector lever is except P position.)		
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)		
	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emergency stop operation)		
	ACC>OFF		While turning power supply position from "ACC" to "OFF"		
	OFF>LOCK	-	While turning power supply position from "OFF" to "LOCK"		
Vehicle Condition	OFF>ACC	Power position status of the moment a particular	While turning power supply position from "OFF" to "ACC"		
	ON>CRANK	DTC is detected	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. 			

BUZZER

BUZZER: CONSULT-III Function (BCM - BUZZER)

INFOID:0000000006209865

CONSULT-III APPLICATION ITEMS

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

DATA MONITOR

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Display item [Unit]	Description		
VEH SPEED 1 [Km/h]	Value of vehicle speed signal received from ABS actuator and electric unit (control unit) with CAN communication line.		
PUSH SW [On/Off]	Status of push button ignition switch judged by BCM.		
UNLK SEN-DR [On/Off]	Status of unlock sensor judged by BCM.		
KEY SW-SLOT [On/Off]	Status of key slot judged by BCM.		
TAIL LAMP SW [On/Off]	Status of each switch judged by BCM using the combination switch readout function.		
FR FOG SW [On/Off]	Status of front fog lamp switch judged by BCM.		
DOOR SW-DR [On/Off]	Status of driver side door switch judged by BCM.		

ACTIVE TEST

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

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT COMBINATION METER

COMBINATION METER: Diagnosis Procedure

INFOID:0000000006209866

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.)	
Combination meter		(–)	ignition switch		
Connector	Terminals				
M53	1	Ground	OFF	Battery voltage	
WIJJ	21	Glound	ON	Battery Voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between combination meter and fuse.

3. CHECK GROUND CIRCUIT

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

Combination meter			Continuity
Connector	Terminals		Continuity
	5	Ground	Existed
M53	15		
	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

INFOID:0000000006209867

1. CHECK FUSE

Check for blown fuses.

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	Unified meter and A/C amp.		ignition switch	
Connector	Terminals			
	54		OFF	
M67	41	Ground	ACC	Battery voltage
	53		ON	

Is the inspection result normal?

YES >> GO TO 3.

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

3. CHECK GROUND CIRCUIT

- Turn ignition switch OFF.
- Disconnect unified meter and A/C amp. connector. 2.
- Check continuity between unified meter and A/C amp. harness connector terminal and ground.

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

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.
Pottony navor gunnly	К
Battery power supply	10

Is the fuse fusing?

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

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

WCS-21 Revision: 2011 November 2011 G Sedan

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INFOID:0000000006845201

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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.

	Terminals		
(+)	(-)	Voltage
В	CM		(Approx.)
Connector	Terminal	Ground	
M118	1	Giodila	Pottony voltogo
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.

METER BUZZER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

METER BUZZER CIRCUIT Α Description INFOID:0000000006209869 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:0000000006209870 1. CHECK OPERATION OF METER BUZZER Select "BUZZER" of "BCM" on CONSULT-III. D Perform "LIGHT WARN ALM" of "ACTIVE TEST". Does meter buzzer beep? YES >> INSPECTION END Е NO >> GO TO 2. 2.CHECK UNIFIED METER AND A/C AMP. INPUT SIGNAL Select the "Data Monitor" for the "METER/M&A" and check the "BUZZER" monitor value. F **BUZZER** Under the condition of buzzer input : ON : OFF Except above Is the inspection result normal? YES >> Replace combination meter. NO >> Replace BCM. Refer to BCS-82, "Removal and Installation". Diagnosis Procedure INFOID:000000000620987 $oldsymbol{1}$.CHECK POWER SUPPLY OF COMBINATION METER Check power supply of combination meter. Refer to MWI-51, "COMBINATION METER: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. K >> Repair power supply circuit of combination meter. NO 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 MWI-51, "UNIFIED METER AND A/C AMP.: Diagnosis Procedure". Is the inspection result normal? YES M >> INSPECTION END NO >> Repair power supply circuit of unified meter and A/C amp.

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SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

Description INFOID:000000006209872

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

Component Function Check

INFOID:0000000006209873

$1.\mathsf{CHECK}$ 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

>> INSPECTION END

Diagnosis Procedure

INFOID:0000000006209874

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

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

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

Unified meter	and A/C amp.	Seat belt buckle s	switch (driver side)	Continuity
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.

Unified meter	and A/C amp.		Continuity
Connector	Terminal	Ground	Continuity
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

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

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.

Terr	minal	Seat belt buckle switch (driver side)	Continuity
1	2	When seat belt is fastened	Not existed
ı	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>

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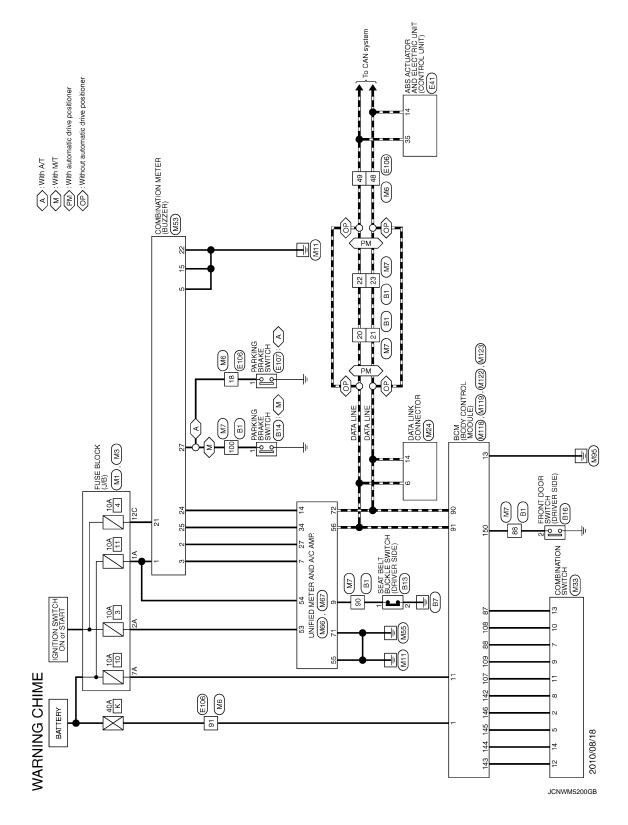
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Revision: 2011 November WCS-25 2011 G Sedan

INFOID:0000000006209876

WARNING CHIME SYSTEM

Wiring Diagram - WARNING CHIME -



WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

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reation]	Е
Name	F
	G
Connector No. Connector Name	Н
BUOKLE SMITCH (DRIVER SIDE)	I
813 Signal Name (Specification) Signal Name (Specification)	J
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Common C	L
o wire	M
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Connector No.	0
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WAR	NING	WARNING CHIME					
Connector No.	or No.	E106	99	GR	1	Connector No.	MI
Connector Name	yr Name	WIRE TO WIRE	67	ΓG	1	Connector Name	FLISE BLOCK (L/B)
			89	SB	1		. cor proof (a) b)
Connector Type	or Type	TH80FW-CS16-TM4	69	Ь	Í	Connector Type	NS06FW-M2
q			70	9	Í	á	
厚			80	ď	Í	厚	
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	_	97 00 00 00 00 00 00 00 00 00 00 00 00 00	82	9	İ		3A 2A 1A
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			82	Μ	Ī		
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Terminal	_	Signal Name [Specification]	87	BR	1	lal	Signal Name [Specification]
Š.	of Wire		88	GR	Ī	₽	
-	g	1	88	>	1	4	-
3	BG	1	91	Μ	1	2A G	_
2	g	1	93	GR	1	3A L	-
9	_	_	95	LG	-	4A P	_
7	>	-	97	SB	_	5A L	_
6	ч	-	98	SHIELD	-	. ∀	-
10	Μ	1	66	٦	-	7A R	1
=	>	1	100	Ь	1	L	1
12	œ	1					
13	_	1					
14	GR	1	Connector No.	r No.	E107	Connector No.	M3
15	۵	1					
16	×	1	Connector Name	r Name	PARKING BRAKE SWITCH	Connector Name	FUSE BLOCK (J/B)
-1	SB	1	Connector Type	r Type	TB01FW	Connector Type	NS12FW-CS
18	BG	1				[
16	SB	1				19	
20	P	1					
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31	_				F		000
33	P.S.]		1241141149C18C17C19C
83	۵						
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32	×	1	Terminal		4	Terminal Color	4 4 4
98	SB	1	O	of Wire	Signal Name [Specification]	_	Signal Name [Specification]
37	>	ı	-	BG	í	ec SB	
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46	_	1					
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WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

Specification]	A B
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2011 G Sedan

WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

WARNIN Connector No.	NING	WARNING CHIME Donnector No. M33	61	۵	ILL GND	Connector No.	M67	la l	ecification
Connect	Connector Name	COMBINATION SWITCH	20	æ c	ILL IGNITION SIGNAL	Connector Name	UNIFIED METER AND A/C AMP.	No. of Wire	
Connect	Connector Type	TH16FW-NH	22	9 @	GROUND	Connector Type	TH32FW-NH	Н	ER SUPPLY (BAT)
1			24	ag :	COMMUNICATION SIGNAL (LCD->AMP.)	4		3 BG POWER WINDOW POWER SUPPLY (RAP)	ER SUPPLY (RAP)
季			22	>	COMMUNICATION SIGNAL (AMP.—>LCD)	事			
ES.	72		27	۵.	PARKING BRAKE SWITCH SIGNAL	H.S.		Connector No. M119	
		123 456	28	SB	BRAKE FLUID LEVEL SWITCH		43 44 45 46 47 48 49 50 51 52 53	8	ODIII E)
		7 8 9 10 11 12 13 14	29	۵	SEAT BELT BUCKLE SW SIGNAL (DRIVER SIDE)	G/G	28 29 60 61 62 63 64 65 66 67 68 68 70 71 72	П	, and a second
			30	σ -	SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE) WASCHED EVEL SWITCH STONAL			Connector Type NS16FW-CS	
Tarmina	Color		5 %	10	II I IIMINATION CONTROL SIGNAL	Torminal Color		£	
No.		Signal Name [Specification]	36	2 2	SELECT SWITCH SIGNAL		Signal Name [Specification]		
-	GR	FF	37	>	ENTER SWITCH SIGNAL	Н	ACC POWER SUPPLY	4 5 6 7 0 8	9 10
2	SB		38	g	TRIP A/B RESET SWITCH SIGNAL	+	료	11 12 13 14 15 16 17	7 18 19
2	، ا	OUTPUT 3	gg 9	۵	\neg	+	1		
9 ~	n g		04	200	ILLUMINATION CONTROL SWITCH SIGNAL (+)	44 45 \	AMBIENT SENSOR SIGNAL		
∞	8					46 Y	SUNLOAD SENSOR SIGNAL	Terminal Color	
6	Μ		Connector No.	or No.	M66	47 G	EXHAUST GAS / OUTSIDE ODOR DETECTING SENSOR SIGNAL	No. of Wire Signal Name Lopecinication.	ecification
10	۳		Connector Name	yr Name	UNIFIED METER AND A/G AMP.	\dashv	IGNITION POWER SUPPLY	_	POWER SUPPLY
Ξ	Ľ					+	BATTERY POWER SUPPLY	PASSEN	NLOCK OUTPUT
12	<u>-</u>		Connector Type	or Type	TH40FW-NH	22 B	GROUND	SB	OUTPUT
€ 3	> (€.			+	_	> <	LOCK OUTPUT
4	5	OUIPUI 2	手			2) FG	BRAKE FLUID LEVEL SWITCH	+	ONLOCK OUTPUT
			H.S.			29 ag	+	11 R BAT (FISE	SF)
Connector No.	or No.	M53		1 2 3	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	H	≦	: 00	ì
100000	ow Mama	OMBINATION METER		21 22 2	3 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	61 B	AMBIENT SENSOR GROUND	H	TON SW ILL GND
Colline	Connector Name	コ				62 SB	Н	15 BG ACC IND	Q
Connect	Connector Type	SAB40FW		Ŀ		+	ION CONTROL MODE OUTPUT SIGNAL	*	th (FRONT)
Œ.	_		Terminal	Color	Signal Name [Specification]	65 BG	ECV SIGNAL	18 BG TURN SIGNAL LH (FRONT)	H (FRONT)
事			4	٥	STOP I AMP SWITCH SIGNAL	+	FACH DOOR MOTOR POWER SLIPPLY	>	INOO LI
Z T Z	_		. 2	, _	MANUAL MODE SHIFT UP SIGNAL	ľ	╀		
	1 20	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	9	BG	PADDLE SHIFTER UP SIGNAL	72 P	CAN-L		
			7	GR	COMMUNICATION SIGNAL (AMP>METER)				
			8	-	VEHICLE SPEED SIGNAL (2-PULSE)				
	L		6	8	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)	Connector No.	M118		
Terminal	Color	or Signal Name [Specification]	0 ;	≥ <	MANUAL MODE SIGNAL	Connector Name	BCM (BODY CONTROL MODULE)		
,	10		= :	9 8	+	F	Т		
- -	> =	COMMINICATION SIGNAL (METER-SAMB)	4 %	ž 8	COMMUNICATION SIGNAL (LCD-ZAMP.)	connector Type	MUSHB-LC		
7 6	3 8	t	02	<u>ځ</u>	AT SNOW SMITCH SIGNAL	Œ			
2 15	<u></u>	t	25	- >	MANUAL MODE SHIFT DOWN SIGNAL	=			
9	>	ALTER	56	. 0	PADDLE SHIFTER DOWN SIGNAL	Š	Į.		
7	១		27	ย	COMMUNICATION SIGNAL (METER->AMP.)		1 3		
10	>	SECURITY SIGNAL	28	~	VEHICLE SPEED SIGNAL (8-PULSE)		727		
15	В	Ц	30	>	PARKING BRAKE SWITCH SIGNAL				
91	BB	METER CONT	34	>	COMMUNICATION SIGNAL (AMP>LCD)				
18	æ	ILL GND	88	۵	BLOWER MOTOR CONTROL SIGNAL				

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M123	BCM (BODY CONTROL MODULE) TH40FG-NH		क्षत्र कर कि कि कि कर का का कि तह । का कि	Signal Name [Specification]	RAIN SENSOR SERIAL LINK	OPTICAL SENSOR	CLUICH INTERLOCK SW	STOP LAMP SW 2	DR DOOR UNLOCK SENSOR	KEY SLOT SW	IGN F/B		TRUNK LID OPENER CANCEL SW	POWER WINDOW SW COMM	PUSH-BUTTON IGNITION SW ILL POWER	LOCK IND	£.	RECEIVER / SENSOR POWER SUPPLY	TIRE PRESSURE RECEIVER COMM	SHIFT N/P		COMBI SW OUTPUT 5	COMBI SW OUTPUT I	COMBLSW OUTPULZ		DRIVER DOOR SW	REAR WINDOW DEFOGGER RELAY CONT									
oN :	Name Type		151 150 129 1	Color of Wire	œ	BG	2 8	8 %	SB	SB	>	œ	BG	>	_	e P	BG	>	_	В	>	BR	۰	5 -	88	GR	5									
Connector No.	Connector Name Connector Type	是 H.S.		Terminal No.	112	113	41.	2 = 8	119	121	123	124	129	132	133	134	137	138	139	140	141	142	143	145	146	150	151									
WARNING CHIME	BCM (BODY CONTROL MODULE) TH40FB-NH		258 677 66 65 64 63 62 61 60 70 78 77 76 73 74 73 72 72 72 72 72 72 72 72 72 72 72 72 72	Signal Name [Specification]	ROOM ANT 2-	ROOM ANT 2+	PASSENGER DOOR ANT	DRIVER DOOR ANT-	DRIVER DOOR ANT+	ROOM ANT 1-	ROOM ANT 1+	NATS ANT AMP.	NATS ANT AMP.	IGN RELAY (F/B) CONT	KEYLESS ENTRY RECEIVER COMM		COMBI SW INPUT 3	PUSH SW	CAN-L	CAN-H	KEY SLOT ILL	GNI NO	ACC RELAY CONT	A/1 SHIFT SELECTOR POWER SUPPLY	S/L CONDITION 2	SHIFT P [With A/T]	ASCD CLUTCH SW [With M/T]	PASSENGER DOOR REQUEST SW	DRIVER DOOR REQUEST SW	BLOWER FAN MOTOR RELAY CONT	NETLESS ENTRY RECEIVER POWER SUPPLY	S/L UNIT POWER SUPPLY	COMBI SW INDIT 4	COMBI SW INPUT 2	HAZARD SW	S/L UNIT COMM
NING:	r Name r Type		91 90 89	Color of Wire	۳	5	88	5 >	LG	٨	BR	GR	М	SB	>	≻	BG	BR	а	٦	5	SR	BG	<u>+</u>	۵	۳	BR	Å	۵	BG	- E	2	3 0	Μ	g	>
WARNIN Connector No.	Connector Name Connector Type	康		Terminal No.	72	73	4/	9/	77	78	79	80	81	82	SS	87	88	88	90	91	95	93	95	96	86	66	66	100	101	102	20 90	100	108	109	110	111

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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

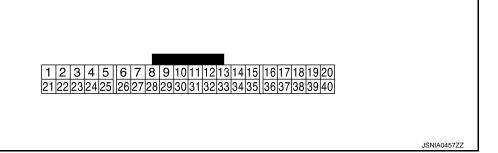
ECU DIAGNOSIS INFORMATION

COMBINATION METER

Reference Value

VALUES ON THE DIAGNOSIS TOOL Refer to WCS-49, "Reference Value".

TERMINAL LAYOUT



PHYSICAL VALUES

	nal No. color)	Description			Condition	Value (Approx.)				
+	_	Signal name	Input/ Output		Condition					
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 				
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	Ground	Alternator signal	Input	Ignition switch	Charge warning lamp ON	0 V				
(W)				ON	Charge warning lamp OFF	12 V				
7	Ground	Air bag signal	Input	Ignition switch	Air bag warning lamp ON	4 V				
(LG)			·	ON	Air bag warning lamp OFF	0 V				
10	Ground	Security signal	Input	Ignition switch	Security warning lamp ON	0 V				
(W)		, , ,		OFF	Security warning lamp OFF	12 V				

COMBINATION METER

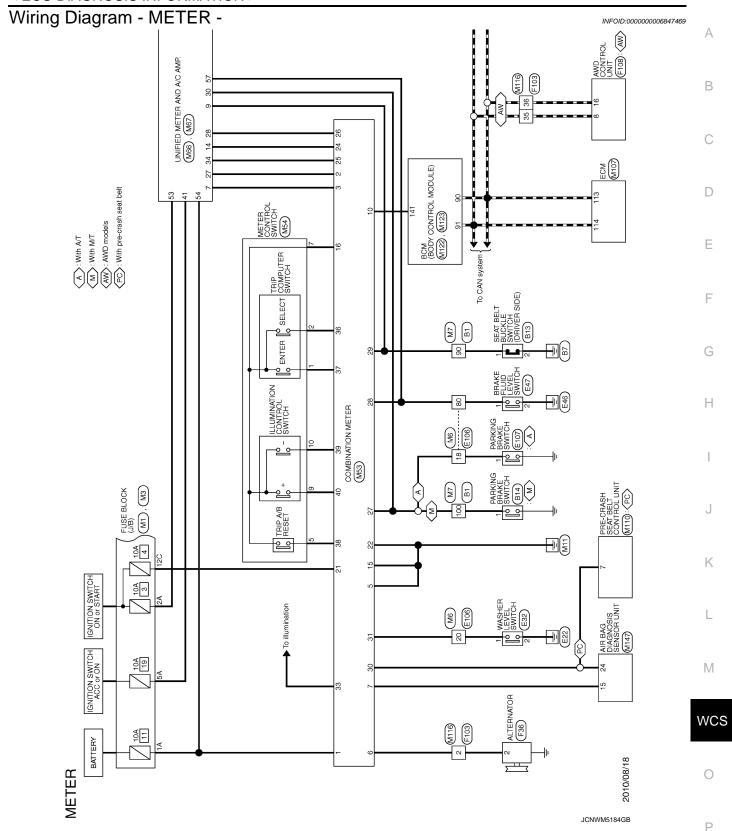
< ECU DIAGNOSIS INFORMATION >

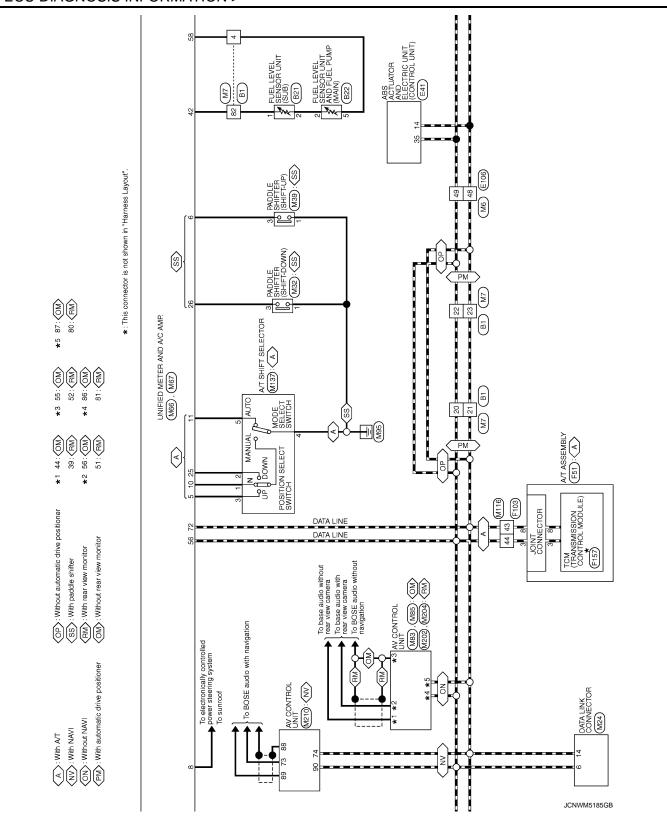
Terminal No. (Wire color) Description					Condition	Value				
+	-	- Signal name			Condition	(Approx.)				
15 (B)	Ground	Ground	_	Ignition switch ON	_	0 V				
16 (BR)	Ground	Meter control switch ground	_	Ignition switch ON	_	0 V				
21 (G)	Ground	Ignition signal	Input	Ignition switch ON	_	12 V				
22 (B)	Ground	Ground	_	Ignition switch ON	_	0 V				
24 (BR)	Ground	Communication signal (LCD→ AMP.)	Output	Ignition switch ON	-	(V) 15 10 5 0 4400 µs JSNIA0028GB				
25 (Y)	Ground	Communication signal (AMP.→ LCD)	Input	Ignition switch ON	_	(V) 6 4 2 0 				
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 ON	0 V	V			
27 (P)	Ground	Parking brake switch signal	Input	Ignition switch ON	Parking brake OFF	(V) 8 4 0 10 ms JSNIA0007GB	V			

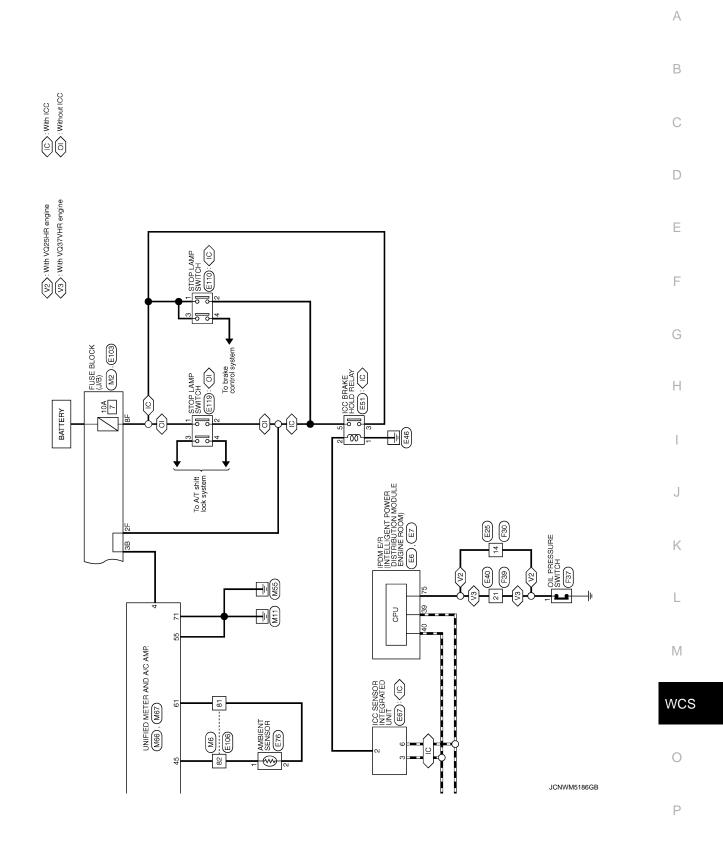
COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description			Condition	Value					
+	_	Signal name	Input/ Output		Condition	(Approx.)					
28 (SB)	Ground	Brake fluid level switch sig- nal	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	Cround	Seat belt buckle switch sig-	lanut	Ignition switch	When driver seat belt is fastened	12 V					
(P)	Ground	nal (driver side)	Input	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 seat When 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 (L)	Ground	Washer level switch signal	Input	Ignition switch	Washer level switch ON	0 V					
33 (R)	Ground	Illumination control signal	Output	Ignition switch ON	Washer level switch OFF Lighting switch ON, then operate the illumination control switch.	NOTE: When brightness level is midway (V) 10 0 2 ms JSNIA0010GB					
36 (LG)	16 (BR)	Select switch signal	Input	Ignition switch	When is pressed	0 V					
37 (Y)	16 (BR)	Enter switch signal	Input	ON Ignition switch ON	Other than the above When is pressed Other than the above	5 V 0 V 5 V					
38 (G)	16 (BR)	Trip A/B reset switch signal	Input	Ignition switch ON	When trip A/B reset switch is pressed	0 V					
39 (P)	16 (BR)	Illumination control switch signal (–)	Input	Ignition switch ON	Other than the above When **T* switch is pressed Other than the above	5 V 0 V 5 V					
40	16	Illumination control switch	Input	Ignition switch	When 🕳 + switch is pressed	0 V					
(BG)	(BR)	signal (+)	•	ON	Other than the above	5 V					







ŀ	+		Γ		Connector Name Engine ROOM)	Connector Type TH08FW-NH	¢	修	K	֓֞֜֜֜֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	42 41 40	46 45 44 43		- 1-	lerminal Color Signal Name [Specification]	†	F -	7	$^{+}$	╀	F	45 V =					pecification]		T				PINAP MAIN						C	<u></u>)			pecification			
- 1	- Connector No. B14	Connector Name PARKING BRAKE SWITCH	- Connector Type P01FB-A		ę		-		-		Terminal Golor Signal Name [Specification]	No. of Wire			-	Connector No. BZI	Connector Name FUEL LEVEL SENSOR UNIT (SUB)	SQUANT Town					(112)			- 1-	Terminal Color Signal Name [Specification]	+	0 M	+		Connector No. B22	Connector Name File Level SPASOR LINE AND FILE DIMP (MAIN)		1 Connector Type E05FGY-RS	4	手	SH		Signal Name [Specification]			Terminal Color		1 P	2 W	0 0
ŀ	_	56 R	Н	60 BR	H	Н	┪	S	71 BG	Н	73 P	+	+	+	+	5 ii	+	Y 00	+	BS 06	91 BG	┝	93 P	95 BG	\dashv	100 GR		- Name	Т	Connector Name SEAT BELT BUCK!	Connector Type A03FW	4			_				- 0	nai Color		98 88	2				
	B1	WIRE TO WIRE	TH80FW-CS16-TM4		80 80 40 XV	- 0 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Signal Name [Specification]		1		1				- [With rear anti-ninch system]	- [Without rear anti-pinch system]		,	-	-	1	1		1		-	-	-	-	_	-		-	-	-					1	1	,	
METER	Connector No.	Connector Name	Connector Type	Œ	2	ė E				- 1	Terminal Color	No. of Wire	+	2 BG	+	+	0 1	ı ∃	╀	H	┝	16 BR	Н	18 BG	\perp	+	22 L	Z Z	+	26 52	H	28 R	Н		σ̈	+	38 S	+	37 SHIELD	+	38 SB	╀	42 SHIELD	t	П	45 SHIELD	:

JCNWM5187GB

< ECU DIAGNOSIS INFORMATION >

No. E41	АВ
Connector No. E41 Connector Name ass array assessment of the connector Type BA442F H.S. Color No. of Wire B B B B B B B B B B B B B B B B B B B	C D
	E F
2 S B B C C B B B C C B B B C C C C C C C	G
C C C C C C C C C C	ı
No No No No No No No No	J K
00) 000	L
Theorem from the first in the	WCS
Connector Name Conn	O JCNWM5188GB

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METER Connector No. E51	Connector No. E76	Terminal Golor		87 BR	-
SA 170 G COT	COUNTY FAITHURN	No. of Wire	Signal Name [Specification]	L	
		1 GR	1	H	1
Connector Type MS02FL-M2-LC	Connector Type RS02FB	3 BG	ı	91 W	
 		5	1	Ĺ	
		>- 9	П	H	
		۷ /	П	97 SB	
e e		8	П	98 SHIELD	
ري ا		H	1	Г	
֚֓֞֞֜֞֞֓֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֡֓֓֡֓֓֡֓֓֡֓֡֓֡֓֡		┞	ī	100	1
2 1		12 R	1	ł	
		╀	1		
Terminal Color	Terminal Color	14 GR	1	Connector No.	E107
	No. of Wire Signal Name [Specification]	H	1	-	TOTAL CITY OF
- B	- 5	16 W	ı	Connector Name	
2 SB –	2 P –	Н	1	Connector Type	TB01FW
3 L		18 BG	1	4	
5 W =		Н	1	· 修	
	Connector No. E103	Н	1	Ě	(
	Connector Name FLISE BLOCK (/B)	30 BR	1		Q
Connector No. E67	П	\dashv	1		-
Connector Name ICC SENSOR INTEGRATED UNIT	Connector Type NS16FW-CS	32 BG	1]
Т	Q	+	1		
Connector Type RS06FB-PR		34 ^	1		
4		35 W	1	Terminal Color	or Signal Name [Specification]
生力	7F 6F 5F 4F 15 3F 2F 1F	+	1	No. of V	
	16F15F14F13F12F11F10F9F8F	+	1	- BG	
		+	ı		
		39 B	Í		
	Ŀ	+	1	Connector No.	E110
	la	+	1	Connector Name	e STOP LAMP SWITCH
- 1	of Wire	42 LG	ī		Т
ē	SB	+	1	Connector Type	M04FW-LC
re	M	+	1	1	
<u></u>	9	+	1	季	
SB BRAKE HOLD	BR	7	1	\ \ \	
	+	+	1		1
В	9F P	48 P	1		1 -
6 P CAN-L		+	ı		9 4
	ſ	29 B	ı		
	Connector No. E106	+	1	ŀ	
	Connector Name WIRE TO WIRE	+	1	la	or Signal Name [Specification]
	Т	+	ı	No. of Wire	
	Connector Type TH80FW-CS16-TM4	е 69	II.	-	
	Q	\dashv	I	2 W	1
		\dashv	ı	3	-
	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4	ı	4 SB	
	7 200 200 200 200 200 200 200 200 200 20	82 G	1		
	91 92 93 93 93 93 93 93 93 93 93 93 93 93 93	83 ^	ı		
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4	ı		
		85 W	1		
		86 L			

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< ECU DIAGNOSIS INFORMATION >

Company Comp	АВ
RKIOFG- B	С
40 6 41 6 42 43 44 44 44 44 44 44	D
2 1 2 1 1 1 1 1 1 1	Е
SAA38FB-RS8-SHZ8	F
Connector No. Connector No. Connector Name Connector Type Connec	G
Decification] HR engine] HR engine]	I
F36 ALTERNATOR HSQ3FB ALTERNATOR HSQ3FB C [With VQ37VHR engine] C [With VQ37	J
29 W 30 R 3	K
	L
9 PLAMP SWITCH	M
STOP LA SANIER TO SANIER T	WCS
METER Connector Name Connector Name Connector Type Connector Type Connector Name Connector Nam	0
JCNWM5190GB	Р

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METER	11.03	Connector No E1/8	Connector No MI		Connector No M2	
OIIIIECCOI NO.	Т	Т	T		Τ	
Connector Name	e WIRE TO WIRE	Connector Name AWD CONTROL UNIT	Connector Name FUSE BLOCK (J/B)	Ж (J/B)	Connector Name FUSE BLOCK (J/B)	
Connector Type	TK36FW-NS10	Connector Type TH16FW-NH	Connector Type NS06FW-M2	5	Connector Type NS12FW-CS	
H.S.		HS. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	H.S.	3A2A1A 8A 7A6A5A4A	(H.S.) 50 40 (C.) 10 10 10 10 10 10 10 10 10 10 10 10 10	
		01 +1 01 71 11 01				
Terminal Color No. of Wire	or Signal Name [Specification]	Terminal Color Signal Name [Specification]	Terminal Color Sig	Signal Name [Specification]	Terminal Color Signal Name [Specification]	
T	1		т	1	- SB 29	
Н		>-	2A G	1	В	
+	1	OIL	4	1	M	
+	E de la Contraction de la Cont	o .	4A P	1	- BG 26	
+	1	S L CANATION OF THE DATE OF THE CANATION OF TH	9A L	1	7 .	
- 1 6		Ŧ	7A PA		2 0	
╁	Ĺ	n n	╀	-	1	
19 BG	- [VOZŠHR engine					
19 0	- [Snopt for V035HP cepins with left and Afric ventilates temporature separately control system)	LG OIL				
4	1	*	Connector No. M2			
+	-	16 P CAN-L	Connector Name FUSE BLOCK (J/B)	K (J/B)		
29 LG			┰			
╀		Coppector No E157	1			
╁	1	┰				
╀	1	Connector Name TCM (TRANSMISSION CONTROL MODULE)				
35 L	-	Connector Type SP10FG	4838	2818		
36 P	1	q	108 98	22 77 AB		
+	1		ne no	00,000,000		
9 0		HS				
ł	-	1 2 3 4 5	Terminal Color			
H	-	σ. α	of Wire	Signal Name [Specification]		
44 L	-		IB SB	-		
45 Y			3B P	-		
+	- [With VQ37VHR engine]	la l	+	1		
46 ∨	-	No. of Wire	5B BG	-		
		1 - VIGN	+	1		
		2 – BATT	\dashv	1		
		3 – CAN-H	\dashv	1		
		-	BS B6	ı		
		S = GND				
		730				
		1				
		+				

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Signal Parameter Paramet	A B C
	E
	F
C C C C C C C C C C	G
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Н
M7 WRE TO WIRE THBOMW-CSI 6-TM4 THBOMW-CSI 6-TM4 THBOMW-CSI 6-TM4 THBOMW-CSI 6-TM4 THBOMW-CSI 6-TM4	I J
Second S	K
	L
Stand Name (Specification) Stand Name (Specification) Stand Name (Specification)	M
	WCS
Connector No. Connector No	0
	ICNWM5192GB
	Г

MEIEK			ı			ŀ				
Connector No.	M39	30	G SEAT BE	SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)	7	SP.	COMMUNICATION SIGNAL (AMP>METER)	71	GR	GROUND
Connector Name	PADDLE SHIFTER (SHIFT-UP)	33		WASHER LEVEL SWITCH SIGNAL	ω σ	ر ا	VEHICLE SPEED SIGNAL (2-PULSE)	72	а	CAN-L
Connector Type	A04FW	36	$\frac{\parallel}{\parallel}$	SELECT SWITCH SIGNAL	01	П	MANUAL MODE SIGNAL			
Q		37		ENTER SWITCH SIGNAL	=	ŋ	NON-MANUAL MODE SIGNAL	Connector No.		M83
手		38	ť		4 8	BB 6	COMMUNICATION SIGNAL (LCD->AMP.)	Connector Name		AV CONTROL UNIT
E.S.	[38	P ILLUMIT	ILLUMINATION CONTROL SWITCH SIGNAL (=)	20	뚪 >	AT SNOW SWITCH SIGNAL	Connector Type	T	TU34CW-NIU
	{	ĵ.	1	MATION CONTINUE SMITCH SIGNAL (1)	20	- >	MANITAL MODE SHIFT DOWN SIGNAL		1	IIZHLW MI
	1 2 3				98	> @	PADDI E SHIETER DOWN SIGNAL	€		
		Connector No.	No. M54		27	t	COMMUNICATION SIGNAL (METER->AMP.)	E		
		Name	П	HOTIMS LOGINGS GET AN	28	œ	VEHICLE SPEED SIGNAL (8-PULSE)	ė		
lal	Cimal Nama [Specification]	Collinector		CONTROL SWITCH	30	^	PARKING BRAKE SWITCH SIGNAL		47 46 4	46 45 44 43 42 41 40 39 38 37 36
No. of Wire		Connector Type	Type TH12FW-NH	V-NH	34	>	COMMUNICATION SIGNAL (AMP>LCD)		59 58 5	59 58 57 56 55 54 53 52 51 50 49 48
- В	1	ģ			38	۵	BLOWER MOTOR CONTROL SIGNAL			
3 BG	-	厚	•							
		S II		7		Ī		Terminal	Color	Signal Name [Specification]
			Ŀ	Ė	Connector No.		M67	No.	of Wire	o'State terms [choomers or]
Connector No.	M53		<u>- I</u>	2 3 4 5 6	Connector Name		INIFIED METER AND A / C AMP	36	BR	COMPOSITE IMAGE SIGNAL
Connector Name	COMBINATION METER		7	8 9 10 11 12				37	Υ	COMPOSITE IMAGE GND
alle control]		Connector Type		TH32FW-NH	38	Ь	RGB (B:BLUE) SIGNAL
Connector Type	SAB40FW				4			39	٦	RGB (G:GREEN) SIGNAL
		Terminal	Color	[::t::3]W1:3	ほ			40	9	RGB (R:RED) SIGNAL
修		No.	of Wire	olgilar Marine Copecinication	Ę			41	W	RGB SYNC
Ę		-	×	i	į		7	42	SHIELD	SHIELD
2		2	57	1		42	47 48 49 50 51 52 53	43	В	RGB AREA (YS) SIGNAL
- 5	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	3	В	1		57 58 59	60 61 62 63 64 65 66 67 68 69 70 71 72	44	7	COMM (DISP->CONT)
77 77	[23] 24[25] [26] 25] 26] 26] 26] 26] 26] 26] 26] 26] 26] 26	4	œ	1				42	۲	HP
		5	9	1				46	57	SIGNAL GND
		7	BR	1	Terminal	Color	Simpl Nama [Specification]	47	BG	SIGNAL VCC
Terminal Color	Complement Name Consideration	8	GR	1	No.	of Wire	orginal realite Copecification	48	BR	COMP SYNC
No. of Wire		6	BG	-	41	٦,	ACC POWER SUPPLY	49	Υ	SHIELD
۱ ۸	BATTERY POWER SUPPLY	10	Ь	ī	42	BR	FUEL LEVEL SENSOR SIGNAL	20	SHIELD	SHIELD
2 LG	COMMU				43	BR	INTAKE SENSOR SIGNAL	55	æ	SHIELD
3 GR	COMMUNICATION SIGNAL (AMP>METER)				44	57	IN-VEHICLE SENSOR SIGNAL	26	57	COMM (CONT->DISP)
2 2	GROUND	Connector No.	No. M66		45	>	AMBIENT SENSOR SIGNAL	22	g	ΛÞ
M 9	ALTERNATOR SIGNAL			INICION MOTED AND A /C AMD	46	Υ	SUNLOAD SENSOR SIGNAL	28	BR	INVERTER GND
7 LG		Collinector		METER AND A/ CAMIP.	47	G	EXHAUST GAS / OUTSIDE ODOR DETECTING SENSOR SIGNAL	69	Υ	INVERTER VCC
10 W	SECURITY SIGNAL	Connector Type	Type TH40FW-NH	N-NH	53	٨	IGNITION POWER SUPPLY			
\dashv	4	q			54	SB	BATTERY POWER SUPPLY			
\dashv	METER CONT	厚			22	В	GROUND			
18 GR	ILL GND	Ę			26	_	CAN-H			
19 B	ILL GND			7	57	ΓC	BRAKE FLUID LEVEL SWITCH			
20 R	ILL		1 2 3 4 5 6	7 8 9 10 11 12 13 14 15 16 17 18 19 20	28	Υ	FUEL LEVEL SENSOR GROUND			
21 G	IGNITION SIGNAL		21 22 23 24 25 26 2	7 28 29 30 31 32 33 34 35 36 37 38 39 40	59	GR	INTAKE SENSOR GROUND			
Н	Н				09	W	IN-VEHICLE SENSOR GROUND			
24 BR	COMMUNICATION SIGNAL (LCD->AMP.)				19	В	AMBIENT SENSOR GROUND			
25 Y	COMMUNICATION SIGNAL (AMP>LCD)	la	Color	Signal Name [Specification]	62	SB	SUNLOAD SENSOR GROUND			
26 R	VEHICLE SPEED SIGNAL (8-PULSE)	o O	of Wire	Ogna i war o copo do a company a copo do a cop	63	1	ION CONTROL MODE OUTPUT SIGNAL			
+	۵	4	g	STOP LAMP SWITCH SIGNAL	92	BG	ECV SIGNAL			
+	7	2	4	MANUAL MODE SHIFT UP SIGNAL	69	۵	A/C LAN SIGNAL			
29 P	SEAT BELT BUCKLE SW SIGNAL (DRIVER SIDE)	9	BG	PADDLE SHIFTER UP SIGNAL	70	œ	EACH DOOR MOTOR POWER SUPPLY			

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	А
BOM (BODY CONTROL MODULE) TH40/FB-1/H FIGURE 1/H Signal Reliable Reliabl	В
	С
Connector No. Connector Name Conne	D
ONT) STREET STR	Е
	F
S B GND	G
Corrector Name Corrector Name Corrector Name Corrector Name Corrector Type Color No. Or Name Color Or Name Color Or Name Color Or Name Color Or Name Or	Н
AVOC-APS 2 GND-APS 2 FDPRESS IT AVOC FTPRS GNDA ASDD NEUT-H TACHO GND GND GND GND GND GND GND GN	I
The control of the	J
Color Colo	К
	L
NUTROL UNIT W-NH	M
NEST	WC
Connector Name A	0
<u> </u>	JCNWM5194GB
	Р

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< ECU DIAGNOSIS INFORMATION >

METER	M193	On respector No.	Γ	10 IM	2	,	TIBOLIA	On software No.		POOM	
	Т		Т	1018	45	p >	DR 2 (+)		Ι	WZO4	
Connector Name	ne BCM (BODY CONTROL MODULE)	Connec	Connector Name	A/T SHIFT SELECTOR	46	- 4	CAN-L	Connect	Connector Name	AV CONTROL UNIT	
Connector Type	e TH40FG-NH	Connec	Connector Type T	TH12FW-NH	47	>-	AS 2 (+)	Connect	Connector Type	TH32FW-NH	
偃		Œ			48	× ¬	AS 2 (-) ODS INPUT	Œ			
ĦS.		HS	76	/				HS			
131 13.	0 (128) 128 (127) 126 (125) 125 (124) 129 (122) (120) 118 (118) 111 (116) 111 (115) 114 (113) 112 (116) 1149 (148) 144 (149) 142 (141) 140 (128) 128 (139) 139 (139) 139 (139) 139			7 8 9 10 11 12	Connector No.		M202 AV CONTROL UNIT		76 77 78 92 93 94	76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 1 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 101	
					Connector Type	П	M-NH				
Terminal Color No. of Wire	olor Signal Name [Specification]	Terminal No.	al Color of Wire	Signal Name [Specification]	Œ			Terminal No.	I Color of Wire	Signal Name [Specification]	
112 R	R RAIN SENSOR SERIAL LINK	-	W	1	E		7	92	ΓG	AV COMM (L)	
113 B(2	>	Ī	2	00 00 20 00	40 41 40 40 44 45 46 47	7.7	SB	AV COMM (H)	
+	3	က	_	ı		ोऽ	40 41 42 43 44 43 40	78	ΓG	AV COMM (L)	
+	SB STOP LAMP SW 1	4 4	ш (1 1		48 49 50 51	1 52 53 54 55 56 57 58 59	79	SB c	AV COMM (H)	
911 88	DRD	2	5 >-					8 8	-	CAN-L CAN-H	
╀		ω	. ₅	ī	Terminal	Color	99	82	H	SW GND	
123 V	/ IGN F/B	6	В	1		of Wire	Signal Name [Specification]	98	SHIELD	SHIELD	
Н	R PASSENGER DOOR SW	10	GR	1	36	BG	SIGNAL VCC	87	٦	TEL VOICE SIGNAL (+)	
\dashv	BG TRUNK LID OPENER CANCEL SW	Ξ	œ	1	37	FG	SIGNAL GND	88	۵	TEL VOICE SIGNAL (-)	
+	V POWER WINDOW SW COMM				38	œ	롸	92	ď	VEHICLE SPEED (8-PULSE)	
+	PUSH-BUTTON	¢	ſ	!	33		COMM (DISP->CONT)	93	88	PARKING BRAKE	
134 LG	LG LOCK IND RG BECEIVED / SENSOB CND	Connec	т	M147	9 =	B	RGB AREA (YS) SIGNAL	94	BG G	REVERSE	
╀	RECE	Connec	Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT	t	W	RGB SYNG	96	>	DISK F.IECT SIGNAL	
139 L	TIRE PRESSURE RECEIVER COMM	Connec	Connector Type T	TK28FY-EX-SC	43	. 0	RGB (R:RED) SIGNAL				
Ц	B SHIFT N/P	4			44	٦	RGB (G:GREEN) SIGNAL				
Н	SE	厚			45	Ь	RGB (B:BLUE) SIGNAL				
\dashv	BR COMBI SW OUTPUT 5	S II	20 21	17	46	*	COMPOSITE IMAGE GND	_			
+	P COMBI SW OUTPUT 1		3 8	12 AC A7 AE 12 2 A	47	BR:	COMPOSITE IMAGE SIGNAL				
4	G COMBI SW OUTPUL 2		77	40 40 47 43 13 3 4 0	48	<u> </u>	INVERTIER VCC				
146	SB COMBLSW OUTPULT 4		16 12	19 15 14 51 23 50 18 52 2	50	¥ c	INVERTER GND				
╀					51	۵	COMM (CONT->DISP)				
H	REAR WIND	Terminal	_	Control State of Stat	T	SHIELD	SHIELD				
		No.	of Wire	Ogliai Maille [Opecilication]	Ħ	SHIELD	SHIELD				
		-	ΓG	IGN	58	SHIELD	SHIELD	_			
		2	ω;	GND							
		e5	>	DR 1 (+)							
		4 u	> >	DR 1 (=) DR 2 (=)							
		9	- >	AS 1 (1)							
		=	- SB	ECZS (+)							
		12	>	ECZS (-)							
		15	υ	AIR BAG W/L							
		91	SHIELD	GND							
		<u>@</u> 3	œ .	CUTOFF TELLTALE							
		21	7	CAN-H							

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	AV CONTROL UNIT	TH32FW-NH			65 66 67 68 69 70 71 72 73 74 75 76 81 82 83 84 85 86 87 88 89 90 91 92	Signal Name [Specification]	PARKING BRAKE	COMPOSITE IMAGE GND	COMPOSITE IMAGE SIGNAL	MICROPHONE GND	MICROPHONE VCC	COMM (CONT->DISP)	CAN-L	AV COMM (L)	AV COMM (L)	ILLUMINATION	IGNITION	REVERSE	VEHICLE SPEED (8-PULSE)	SHIELD	MICROPHONE SIGNAL	SHIELD	COMM (DISP->CONT)	CAN-H	AV COMM (H)
Z N		Type			61 62 63 64 77 78 79 80	Color of Wire	SB	۵	٦	SHIELD	G	Ь	Ь	LG	LG	Т	9	BG	ч	SHIELD	Я	SHIELD	7	7	SB
MEIER	Connector Name	Connector	匮	S.		Terminal	92	67	89	71	72	73	74	75	92	79	80	81	82	83	87	88	68	06	91

WCS

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Α

В

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F

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Fail-safe

FAIL-SAFE

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

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

< ECU DIAGNOSIS INFORMATION >

	Function	Specifications							
Speedometer									
Tachometer		Reset to zero by suspending communication.							
Fuel gauge		Teset to zero by suspending communication.							
Engine coolant temperatu	re gauge								
	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.							
Illumination control	•	When suspending communication, change to nighttime mode.							
Buzzer		The buzzer turns off by suspending communication.							
	ABS warning lamp								
	SLIP indicator 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 lamp	A/T CHECK warning lamp								
iamp	VDC OFF indicator lamp								
	AWD warning lamp	The least turns off by even and in a communication							
	Low tire pressure warning lamp	The lamp turns off by suspending communication.							
	Key warning lamp								
	AFS OFF indicator lamp								
	Master warning lamp								
	Tail lamp indicator lamp								
	Front fog lamp indicator lamp								

DTC Index

Refer to WCS-70, "DTC Index".

< ECU DIAGNOSIS INFORMATION >

UNIFIED METER AND A/C AMP.

Reference Value INFOID:0000000006844861

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VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR	RITEM
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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	C
SPEED OUTPUT [km/h]	Ignition switch ON	While driving	Equivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received	Е
ODO OUTPUT [km/h] or [mph]	Ignition switch ON	_	Equivalent to odometer reading in combination meter	
TACHO METER [rpm]	Ignition switch ON	While driving	Equivalent to tachometer reading NOTE: 8191.875 is displayed when the malfunction signal is received	F G
FUEL METER [lit.]	Ignition switch ON	_	Values according to fuel level	
W TEMP METER [°C]	Ignition switch ON	_	Values according to engine coolant temperature NOTE: 215 is displayed when the malfunction signal is input	Н
FUEL CAR W/	Ignition switch	Fuel filler cap warning display ON	On	
FUEL CAP W/L	ON	Fuel filler cap warning display OFF	Off	ı
A D.C. \A//	Ignition switch	ABS warning lamp ON	On	J
ABS W/L	ON	ABS warning lamp OFF	Off	
VDC/TCS IND	Ignition switch	VDC OFF indicator lamp ON	On	K
VDC/TCS IND	ON	VDC OFF indicator lamp OFF	Off	
SLIP IND	Ignition switch	SLIP indicator lamp ON	On	
SLIF IND	ON	SLIP indicator lamp OFF	Off	L
BRAKE W/L	Ignition switch	Brake warning lamp ON	On	
BRAKE W/L	ON	Brake warning lamp OFF	Off	M
DOOR W/L	Ignition switch	Door warning displayed	On	
DOOK W/L	ON	Door warning not displayed	Off	14/04
TRUNK/GLAS-H	Ignition switch	Trunk warning displayed	On	WCS
TRONN/GLAS-IT	ON	Trunk warning not displayed	Off	
HI-BEAM IND	Ignition switch	Hi-beam indicator lamp ON	On	0
TII-DEAW IND	ON	Hi-beam indicator lamp OFF	Off	
TURN IND	Ignition switch	Turn indicator lamp ON	On	
TORN IND	ON	Turn indicator lamp OFF	Off	Р
ED EOC IND	Ignition switch	Front fog lamp indicator lamp ON	On	
FR FOG IND	ON	Front fog lamp indicator lamp OFF	Off	
RR FOG IND	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off	

Monitor Item		Condition	Value/Status
LIGHT IND	Ignition switch	Tail lamp indicator lamp ON	On
LIGHT IND	ON	Tail lamp indicator lamp OFF	Off
OIL W/L	Ignition switch	Oil pressure warning lamp ON	On
OIL W/L	ON	Oil pressure warning lamp OFF	Off
MIL	Ignition switch	Malfunction warning lamp ON	On
IVIIL	ON	Malfunction warning lamp OFF	Off
GLOW IND	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
C-ENG2 W/L	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
CRUISE IND	Ignition switch	Cruise indicator displayed	On
	ON	Cruise indicator not displayed	Off
SET IND	Ignition switch	Set indicator lamp ON	On
	ON	Set indicator lamp OFF	Off
CRUISE W/L	Ignition switch	Cruise warning lamp ON	On
	ON	Cruise warning lamp OFF	Off
BA W/L	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
ATC/T-AMT W/L	Ignition switch	A/T check warning lamp ON	On
ATO/T-AWIT W/L	ON	A/T check warning lamp OFF	Off
4WD W/L	Ignition switch	AWD warning lamp ON	On
4WD W/E	ON	AWD warning lamp OFF	Off
4WD LOCK IND	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
FUEL W/L	Ignition switch	Low-fuel warning displayed	On
FUEL W/L	ON	Low-fuel warning not displayed	Off
WASHER W/L	Ignition switch	Washer warning displayed	On
WASHER W/L	ON	Washer warning not displayed	Off
AIR PRES W/L	Ignition switch	Low tire pressure lamp ON	On
AMATIALO VV/L	ON	Low tire pressure lamp OFF	Off
KEY G/Y W/L	Ignition switch	Key warning lamp ON	On
NET G/T W/L	ON	Key warning lamp OFF	Off
AFS OFF IND	Ignition switch	AFS OFF indicator lamp ON	On
	ON	AFS OFF indicator lamp OFF	Off
4WAS/RAS W/L	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
DDS W/L	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
LANE W/L	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off

< ECU DIAGNOSIS INFORMATION >

Monitor Item		Condition	Value/Status	
LDP IND	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off	— A
	Ignition switch	Engine start information display (A/T model)	B&P I	В
	ON	Engine start information display (M/T model)	C&P I	
	Ignition switch	Engine start information display (A/T model)	B&P N	C
	ACC	Engine start information display (M/T model)	C&P N	
	Ignition switch LOCK	Key ID warning display	ID NG	D
	Ignition switch LOCK	Steering lock information display	ROTAT	
LCD	Ignition switch LOCK	P position warning display	SFT P	Е
	Ignition switch LOCK	Intelligent Key insert information display	INSRT	F
	Ignition switch LOCK	Intelligent Key low battery warning display	BATT	
	Ignition switch ON	Take away warning display	NO KY	G
	Ignition switch LOCK	Key warning display	OUTKY	
	Ignition switch ON	ACC 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	J
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	K
ACC OWN VHL	Ignition switch	Own vehicle indicator displayed	On	
NOO OVVIN VIIL	ON	Own vehicle indicator not displayed	Off	L
ACC SET SPEED	Ignition switch	Set vehicle speed indicator not displayed	Off	
NOO OLT OF LLD	ON	Set vehicle speed indicator displayed	On	
ACC UNIT	Ignition switch	Set vehicle speed indicator unit display ON	On	M
ACC CIVIT	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	WC

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Monitor Item		Condition	Value/Status
		Shift position indicator P display	Р
		Shift position indicator R display	R
		Shift position indicator N display	N
		Shift position indicator D display	D
		Shift position indicator M1 display	M1
SHIFT IND	Ignition switch ON	Shift position indicator M2 display	M2
	311	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
AT S MODE SW	Ignition switch	Snow mode switch ON	On
AT 3 MODE 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 DANCE CW	Ignition switch	Selector lever manual mode position	On
M RANGE SW	ON	Other than the above	Off
NIM DANCE SW	Ignition switch	Selector lever manual mode position	Off
NM RANGE SW	ON	Other than the above	On
AT CET LID CW	Ignition switch	Selector lever + position	On
AT SFT UP SW	ON	Other than the above	Off
AT SFT DWN SW	Ignition switch	Selector lever – position	On
AI SEI DWN SW	ON	Other than the above	Off
ST SFT UP SW	Ignition switch	Paddle shifter switch up operation	On
ST SET OF SW	ON	Other than the above	Off
ST SFT DWN SW	Ignition switch	Paddle shifter switch down operation	On
31 31 1 DWW 3W	ON	Other than the above	Off
COMP F/B SIG	Ignition switch	A/C compressor activation condition	On
COMI 175 SIG	ON	A/C compressor deactivation condition	Off
4WD LOCK SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
PKB SW	Ignition switch	Parking brake switch ON	On
PND SVV	ON	Parking brake switch OFF	Off
BUCKLE SW	Ignition switch	Seat belt not fastened	On
BUCKLE SW	ON	Seat belt fastened	Off
DDVKE OII SW	Ignition switch	Brake fluid level switch ON	On
BRAKE OIL SW	ON	Brake fluid level switch OFF	Off
DISTANCE [km]	Ignition switch ON	_	Possible driving distance calculated by unified meter and A/C amp.
OUTSIDE TEMP [°C] or [°F]	Ignition switch ON	_	Equivalent to ambient temperature NOTE: This may not match the indicated value on the information display.
FUEL LOW SIG	Ignition switch	Low-fuel warning displayed	On
FUEL LOW SIG	ON	Low-fuel warning not displayed	Off

< ECU DIAGNOSIS INFORMATION >

Monitor Item		Condition	Value/Status
BUZZER	Ignition switch	Buzzer ON	On
DOZZEN	ON	Buzzer OFF	Off

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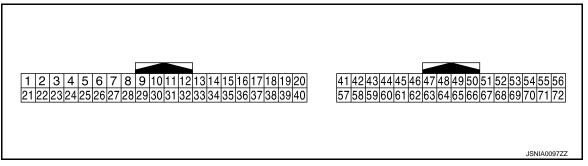
0

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NOTE:

Some items are not available according to vehicle specification.

TERMINAL LAYOUT



PHYSICAL VALUES

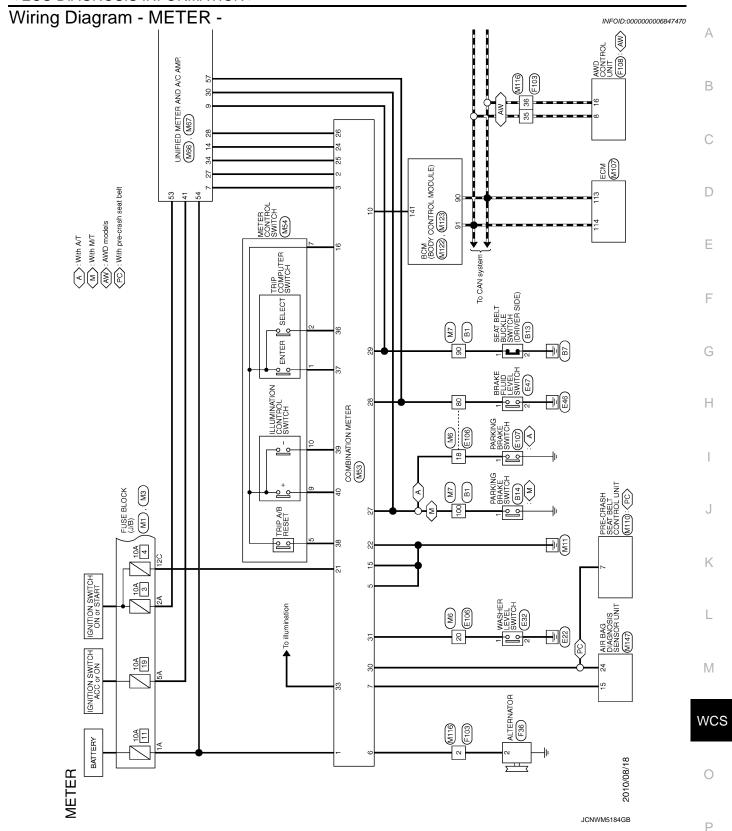
	nal No. e color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
4		0		Ignition	Brake pedal is depressed	12 V
(G)	Ground	Stop lamp switch signal	Input	switch OFF	Other than the above	0 V
5	Ground	Manual mode shift up sig-	Input	Ignition switch	Selector lever UP operation	0 V
(L)	Ground	nal	Input	ON	Other than the above	12 V
6 (BG)	Ground	Paddle shifter up signal	Input	Ignition switch	Selector lever DS positionPaddle shift up operation	0 V
, ,				ON	Other than the above	12 V
7 (GR)	Ground	Communication signal (AMP. → METER)	Output	Ignition switch ON	_	(V) 6 4 2 0 1 ms SKIA3362E
8 (L)	Ground	Vehicle speed signal output (2-pulse)	Output	Ignition switch ON	Speedometer operated [When vehicle speed is ap- prox. 40 km/h (25 MPH)]	NOTE: The maximum voltage varies depending on the specification (destination unit).
9		Seat belt buckle switch sig-		Ignition	When seat belt is fastened	12 V
(SB)	Ground	nal (driver side)	Input	switch ON	When seat belt is not fastened	0 V

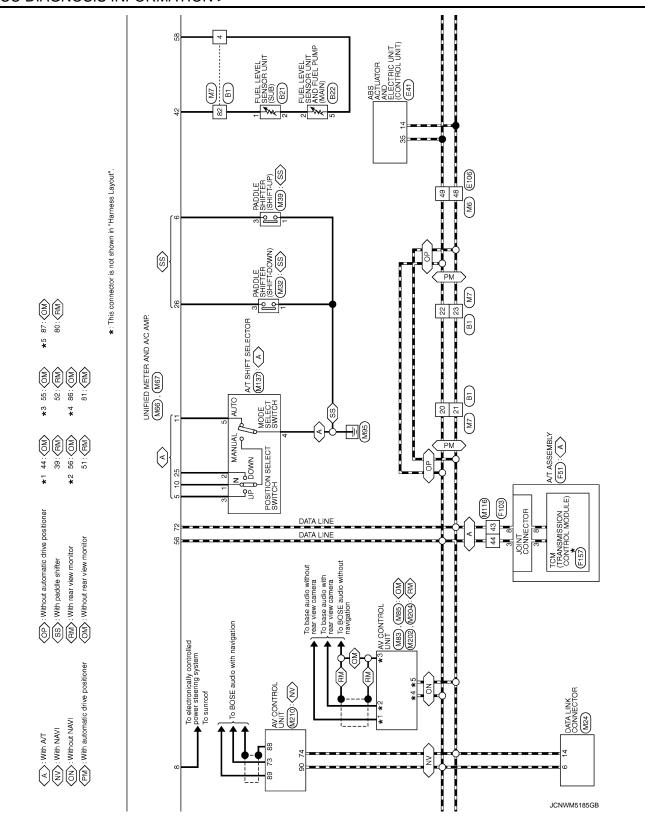
Revision: 2011 November WCS-53 2011 G Sedan

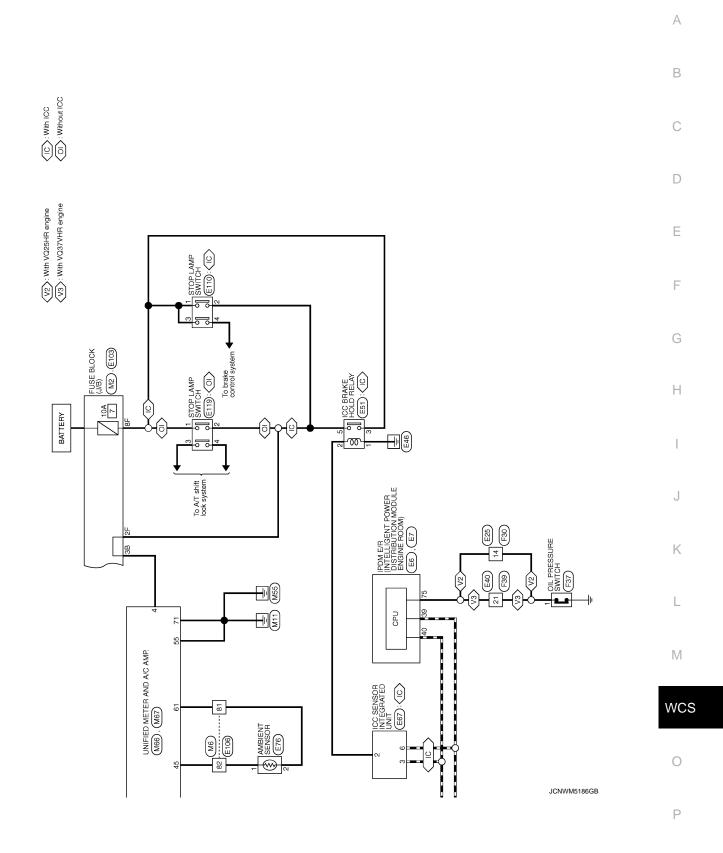
	nal No. color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
10	0	Manual made signal	la a t	Ignition	Selector lever DS position	0 V
(W)	Ground	Manual mode signal	Input	switch ON	Other than the above	12 V
11	Cround	Not manual made signal	Innut	Ignition switch	Selector lever DS position	12 V
(G)	Ground	Not manual mode signal	Input	ON	Other than the above	0 V
14 (BR)	Ground	Communication signal (LCD → AMP.)	Input	Ignition switch ON	_	(V) 15 10 5 0 4400 µs JSNIA0028GB
23	Ground	A/T snow switch signal	Input	Ignition switch	Snow mode switch ON	12 V
(Y)	Orouna	7V1 Show Switch Signal	трис	ON	Snow mode switch OFF	0 V
25 (V)	Ground	Manual mode shift down signal	Input	Ignition switch	Selector lever down operation	0 V
		o.g		ON	Other than the above	12 V
26 (G)	Ground	Paddle shifter down signal	Input	Ignition switch ON	Selector lever DS position Paddle shift down operation	0 V
					Other than the above	12 V
27 (LG)	Ground	Communication signal (METER → AMP.)	Input	Ignition switch ON	_	(V) 6 4 2 0 *** 1ms SKIA3361E
28 (R)	Ground	Vehicle speed signal (8-pulse)	Output	Ignition switch ON	Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)]	NOTE: The maximum voltage varies depending on the specification (destination unit).
					Parking brake ON	0 V
30 (V)	Ground	Parking brake switch signal	Input	Ignition switch ON	Parking brake OFF	(V) 8 4 0 10 ms JSNIA0007GB

	nal No. e color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
34 (Y)	Ground	Communication signal (AMP. → LCD)	Output	Ignition switch ON	_	(V) 6 4 2 0 200 µs JSNIA0027GB
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 ground	_	Ignition switch ON	_	0 V
61 (B)	Ground	Ambient sensor ground	_	Ignition switch ON	_	0 V

	nal No. color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
71 (GR)	Ground	Ground	_	Ignition switch ON	_	0 V
72 (P)	Ground	CAN-L			_	_







ŀ	- 4 V	PARKING BRAKE SWITCH 5 Y -			Connector Name	Connector Type TH08FW-NH		<u>3</u>		• [_	1		la.	of Wire	FUEL LEVEL SENSOR UNIT (SUB)	40 L		43 G	F	Н	[1 2]) 46 SB -				Signal Name [Specification]		1			CHELL FOR SENSOD HINT AND CHEL DUMP (MARK)	פסר טואן אינט רעבר רעוויד (אומווא)					10 0 F	Ð١			Signal Name [Specification]			
	- Connector No. B14	Connector Name PARKING E	- Connector Type P01FB-A				1				color of Wire	-			Connector No. B21	Connector Name FUEL LEVE	C	- Connector Type EU2FGY-KS			, TIS		1			of Wire	8 -	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)		Connector No. B22			Connector Type E05FGY-RS	2	447	T .		Signal Name [Specification]		1	Terminal Color S	\top	ł	3
-	\dashv	56 R	Н	60 BR	Н	\dashv	╅	8	50 B	72 GR	+	Ļ	82 B	84 Y	85 G	\dashv	87 R	+	8S 06	91 BG	Н	93 P	95 BG	+	100 GR		Connector No. B13	Connector Name SEAT BELT BUCKLI	Т	1	<u></u>							of Wire	П	2 B		_		_
	BI	WIRE TO WIRE	TH80FW-CS16-TM4		10 10 10 10 10 10 10 10 10 10 10 10 10 1						Signal Name [Specification]	1	ı	1	1	1	1	- [With rear anti-ninch evetem]	- [Without rear anti-pinch system]		1	1	T	1	ı	1 11	1	ı	1 1	1	-	-	Ť.	1	1 1	r i	1	1	1	1	1			1
	Connector No.	Connector Name	Connector Type	1	U E	H.S.				L	No. of Wire	1	2 BG	3 L	4 Y	9 R	+	s 6	+	H	16 BR	17 LG	18 BG	+	+	23 P	H	Н	26 G	╀	H	32 SB	Ś	+	38 SR	13	t	39 SB	Н	П	42 SHIELD	3 4 5 6	ł	

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< ECU DIAGNOSIS INFORMATION >

Connector No. E41	A B C
	E
4 SHELD 1 10 9 W W W W W W 1 11 10 0 W W W W W W W 1 11 10 0 W W W W W W W 1 12 12 12 12 12 12 12 12 12 12 12 12 12	G
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Company Comp	I
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10 V 11 R 14 SB 14 SB 16 SB SB SB SB SB SB SB S	K
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Specificati	М
	WCS
METER	0
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	Р

Revision: 2011 November WCS-61 2011 G Sedan

METER Connector No. E51	Connector No. E76	Terminal Golor		87 BR	-
SA 170 G COT	COUNTY FAITHURN	No. of Wire	Signal Name [Specification]	L	
		1 GR	1	H	1
Connector Type MS02FL-M2-LC	Connector Type RS02FB	3 BG	ı	91 W	
 		5	1	Ĺ	
		>- 9	П	H	
		۷ /	П	97 SB	
e e		8	П	98 SHIELD	- 071
ري ا		H	1	Г	
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		╀	1		
Terminal Color	Terminal Color	14 GR	1	Connector No.	E107
	No. of Wire Signal Name [Specification]	H	1	-	TOTAL CITY OF
- B	- 5	16 W	ı	Connector Name	
2 SB –	2 P –	Н	1	Connector Type	TB01FW
3 L		18 BG	1	4	
5 W =		Н	1	· 修	
	Connector No. E103	Н	1	Ě	(
	Connector Name FLISE BLOCK (/B)	30 BR	1		Q
Connector No. E67	П	\dashv	1		-
Connector Name ICC SENSOR INTEGRATED UNIT	Connector Type NS16FW-CS	32 BG	1]
Т	Q	+	1		
Connector Type RS06FB-PR		34 ^	1		
4		35 W	1	Terminal Color	or Signal Name [Specification]
生力	7F 6F 5F 4F 15 3F 2F 1F	+	1	No. of V	
	16F15F14F13F12F11F10F9F8F	+	1	- BG	
		+	ı		
		39 B	Í		
	Ŀ	+	1	Connector No.	E110
	la	+	1	Connector Name	e STOP LAMP SWITCH
- 1	of Wire	42 LG	ī		Т
ē	SB	+	1	Connector Type	M04FW-LC
re	M	+	1	1	
<u></u>	9	+	1	季	
SB BRAKE HOLD	BR	7	1	\ \ \	
	+	+	1		1
В	9F P	48 P	1		1 -
6 P CAN-L		+	ı		9 4
	ſ	29 B	ı		
	Connector No. E106	+	1	ŀ	
	Connector Name WIRE TO WIRE	+	1	la	or Signal Name [Specification]
	Т	+	ı	No. of Wire	
	Connector Type TH80FW-CS16-TM4	е 69	II.	-	
	Q	\dashv	I	2 W	1
		\dashv	ı	3	-
	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4	ı	4 SB	
	7 200 200 200 200 200 200 200 200 200 20	82 G	1		
	91 92 93 93 93 93 93 93 93 93 93 93 93 93 93	83 ^	ı		
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4	ı		
		85 W	1		
		86 L			

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< ECU DIAGNOSIS INFORMATION >

freation] origine] engine]	А
FEI	В
Color Colo	C
Conness Conn	D
Specification	Е
11 10 0 0 0 0 0 0 0	F
	G
Connector Name Conn	Н
ification]	ı
Signal Name [Specification] Signal Name [Specification] C [With VO37VHR engine] C [With VO37VHR engine] Signal Name [Specification]	
	J
	1.6
Connector Name Conn	K
	L
NP SWTCH 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 4 5 6 7 7 7 8 9	M
Signal Name [Sp. Signal	
NOTE TO THE PROPERTY OF THE PR	WCS
METER	0
Connecto	J
	Р

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METER							ſ
Connector No.	F103	Connector No.		F108	Connector No.	MI	Connector No. M3
Connector Name	WIRE TO WIRE	Connect	Connector Name A	AWD CONTROL UNIT	Connector Name	FUSE BLOCK (J/B)	Connector Name FUSE BLOCK (J/B)
Connector Type	TK36FW-NS10	Connector Type	П	TH16FW-NH	Connector Type	NS06FW-M2	Connector Type NS12FW-CS
HS SSOSS SSOSS		H.S.		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	语.	3A 2813 8A 7A 8A 5A 4A	#S. 5040 302010 12011010030807060
Terminal Color No. of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	Terminal Color No. of Wire	Signal Name [Specification]	Terminal Color Signal Name [Specification]
2 G	-	-	BR	AWD SOL (+)	1A V	-	- SB
3 ×		2	> 3	AWD SOL (-)	2A G	1 1	7C B -
+		,	= 0	OL LEMP (-)	Ŧ		. Sa
+	- [With VQ25HR engine]	- &	, _	CAN-H	╀	1	DQ _
6	- [With VQ37VHR engine]	6	BG	AWD SOL BAT [With VQ25HR engine]	. ∀	-	11C LG -
Н	- [With VQ25HR engine]	6	0	AWD SOL BAT [With VQ37VHR engine]	7A R	1	12C G –
OR GR	- [With VQ37VHR engine]	2 €	<u>_</u>	GND	8A L	1	
+	- [VQ25HR wighs with left and right vertibation tenserature separately control system)	= 5	m 5	GND GND			
6 6	Theody NY VIZZANS on the wift set ago, welling us temporates separately control system.	5 4	2 >	OIL IEMP (+)	Connector No	W	
╁	1	91	- a	GAN-L		2111	
╀	1				Connector Name	FUSE BLOCK (J/B)	
+	1				Connector Type	NS10FW-CS	
Н	1	Connector No.	П	F157	4		
33 B	-	Connect	Connector Name	TCM (TBANSMISSION CONTBOL MODILLE)	F		
34 B	-	50		OIII (TOURGEROUS CONTROL INCOOLE)	Ě		
+	1	Connect	Connector Type S	SP10FG	12	48 38 28 18	
36 P	1	q				a7 a9	
33 ×		事		≪			
╀		5.					
+				12345	Terminal Golor		
╁	1			6 7 8 9 10	_	Signal Name [Specification]	
44	1			000	1B SB	1	
45 Y	- [With VQ25HR engine]				3B P	1	
45 G	- [With VQ37VHR engine]	Terminal	_	C	4B G	П	
46 V	-	No.	of Wire	oignai Name [opecimcation]	5B BG	1	
		-	-	VIGN	Н	=	
		2	-	BATT	7B P	1	
		3	-	CAN-H	8B R	-	
		4	-	K-LINE	9B SB	-	
		2	-	GND			
		9	'	VIGN			
		_	-	REV LAMP RLY			
		∞ (CAN-L			
		s 5		SIAKIEK KLY			
		2		, and			

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cation]	А
12 13 14 15 15 17 17 18 19 19 19 19 19 19 19	В
0 0 0 0 0 0 0 0 0 0	С
100 P 100	D
	Е
	F
	G
	Н
E TO WRE Communication of the positioner] Signal Name (Specification) Signal Name (Specification) Signal Name (Specification) - (With rear anti-pinch system) - (With out automatic drive positioner) - (With out anti-pinch system) - (Without rear anti-pinch system)	I
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Wife CS16-TM4 Signal Name (Specification) Signal Name (Specification)	M
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Connector Name Conn	0
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MEIEK		ŀ	ı				-		
Connector No.	M39	_	G SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)	7	GR	COMMUNICATION SIGNAL (AMP>METER)	7.1	2	UND
Connector Name	e PADDLE SHIFTER (SHIFT-UP)	33 31	L WASHER LEVEL SWITCH SIGNAL B II HIMINATION CONTROL SIGNAL	∞ σ	J 8	VEHICLE SPEED SIGNAL (2-PULSE)	72	P CAN-L	N-L
Connector Type	A04FW	+	_	° 01	Т	MANUAL MODE SIGNAL			
þ		37	Y ENTER SWITCH SIGNAL	11	5	NON-MANUAL MODE SIGNAL	Connector No.	lo. M83	
厚		\dashv	┪	14	BR	COMMUNICATION SIGNAL (LCD->AMP.)	Connector Name	AV CONTROL LINIT	
Ę		+	7	20	æ	ION ON / OFF SIGNAL		Т	
		40 B	BG ILLUMINATION CONTROL SWITCH SIGNAL (+)	23	>	AT SNOW SWITCH SIGNAL	Connector Type	ype TH24FW-NH	
	1 2 3			25	>	MANUAL MODE SHIFT DOWN SIGNAL	þ		
			ſ	26	5	PADDLE SHIFTER DOWN SIGNAL	季		1
		Connector No.	M54	27	<u>5</u>	COMMUNICATION SIGNAL (METER->AMP.)	Š	<u> </u>	7
ŀ		Connector Name	ne METER CONTROL SWITCH	28	<u>~</u> ;	VEHICLE SPEED SIGNAL (8-PULSE)		17 16 15 11 13 13 11 10	20 38 37 36
l erminal Golor	or Signal Name [Specification]		Т	30	>	PARKING BRAKE SWITCH SIGNAL		74 04 44 04 04 04 04 04 04 04 04 04 04 04	00 00 00 00
ING. OI WIE	2	Connector Type	De IHIZEW-NH	5 c	- a	COMMUNICATION SIGNAL (AMP.=>LCD)		59 58 57 56 55 54 53 52 51 50 49 48	251504948
- 6		4		9		DECMER MOTOR CONTROL SIGNAL			
200	-	手					L		
		S	7	ď	ſ		e		Signal Name [Specification]
				Connector No.	T	M6 /	†	.	
Connector No.	M53		-	Connector Name		UNIFIED METER AND A/C AMP.	36	BR COMPOSITE IMAGE SIGNAL	MAGE SIGNAL
Connector Name	e COMBINATION METER		7 8 9 10 11 12		┪		37	1	IMAGE GND
	Т			Connector Type	٦	TH32FW-NH	38	P RGB (B:BLL	RGB (B:BLUE) SIGNAL
Connector Type	SAB40FW			4			39	L RGB (G:GREEN) SIGNAL	EN) SIGNAL
[Terminal Co	Color S:: S: S	ほ			40	G RGB (R:RED) SIGNAI	D) SIGNAL
E		No. of V	of Wire	Ž			41	W RGB	RGB SYNC
· ·		_	-	2		7	42 S	SHIELD	ELD
2		2	- 51		41 42 40	44 45 46 47 48 49 50 51 52 53 54 55 56	43	B RGB AREA (YS) SIGNAI	(YS) SIGNAL
1 2	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	3	- 8		57 58 59	60 61 62 63 64 65 66 67 68 69 70 71 72	44		SP->CONT)
21 22	2 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	4					45	π π	롸
		2	- 5				46	LG SIGNA	SIGNAL GND
		7 B	BR -	Terminal	Color	3	47		SIGNAL VCC
Terminal Color		8	GR -	No.	of Wire	Signal Name [Specification]	48		SYNC
No. of Wire	Signal Name [Specification]	9 6	- BG	41	_	ACC POWER SUPPLY	49		SHIELD
>	BATTERY DOWER SLIPPLY	H		42	ä	FIJEL LEVEL SENSOR SIGNAL	t	SHELD	SHIELD
	COMM	┨		43	á	INTAKE SENSOR SIGNAL	t		31
3 6	t			944	9	IN-VEHICLE SENSOR SIGNAL	95	OMM	NT->DISD)
t	t	Coppositor No	Mee	45	3 >	AMBIENT SENSOB SIGNAL	8 2		, 500 M
ł	AI TER		Т	46	. >	SLINI OAD SENSOR SIGNAL	85		INVERTER GND
F		Connector Name	ne UNIFIED METER AND A/C AMP.	47		EXHAUST GAS / OUTSIDE ODOR DETECTING SENSOR SIGNAL	65		INVERTER VGG
M 01		Connector Type	De TH40FW-NH	53	T	IGNITION POWER SUPPLY			
15 B		֓֞֞֜֜֞֜֜֜֓֓֓֓֓֜֜֜֟֜֜֜֓֓֓֓֓֜֜֟֜֜֜֜֜֜֜֟֜֜֜֓֓֓֡֓֡֡֜֜֜֜֡֓֓֡֡֡֡֜֜֡֡֡֓֜֜֜֡֡֡֜֜֜֜֡֡֡֡֡֡	1	54	SB	BATTERY POWER SUPPLY			
16 BR	RETER CONTROL SWITCH GROUND	13		55	В	GROUND			
18 GR	S ILL GND	ŧ		56	_	CAN-H			
H		ė E		57	5 D	BRAKE FLUID LEVEL SWITCH			
┝			2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	28	>	FUEL LEVEL SENSOR GROUND			
21	IGNITION SIGNAL	212	2 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	29	g	INTAKE SENSOR GROUND			
┞				09	3	IN-VEHICLE SENSOR GROUND			
24 BR	COMMINICATION SIGNAL (LCD->AMP.)			19	ď	AMBIENT SENSOR GROTIND			
╀	╀	Terminal	Color	62	SS	SUNLOAD SENSOR GROUND			
26 R	┝		of Wire Signal Name [Specification]	63	_	ION CONTROL MODE OUTPUT SIGNAL			
ł	ŀ	t	G STOP LAMP SWITCH SIGNAL	65	i g	FCV SIGNAL			
ľ	L	H	È	69	3	A/C LAN SIGNAL			
H	SEAT E	H	BG PADDLE SHIFTER UP SIGNAL	70	œ	EACH DOOR MOTOR POWER SUPPLY			

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DY CONTROL MC	Terminal Color Sign PAS	KEVLES AAOT SHIFT AAT SHIFT AAT SHIFT AAT SHIFT AAT SHIFT AAT SHIFT AAOT BELOWER KEVLESS ENW	
26 B GND (CONT)	No line Company of the Company of th	19 BG 28 B 28 C 30 LG 31 W 31 W 31 B 32 C 33 B 34 B 34 B 34 C 35 C 43 C 44 C 45 C 46 C 47 C 48	
103 GR	113 P VEHCAN+L 114 L VEHCAN+H 117 V KLINE 121 LG COCV 122 P BRAKE 123 B GND 124 B GND 126 BR BNC SW 127 B GND 127 B GND 128 B GND 129 B GND 120 B GND 121 B GND 122 B GND 123 B GND 124 B GND 125 B GND 126 CMD 127 CMD 128 CMD 129 CMD 120 CMD 120 CMD 120 CMD 121 CMD 122 CMD 123 CMD 124 CMD 125 CMD 126 CMD 127 CMD 128 CMD 129 CMD 120		
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Figure Stand Name Stand N	121 221	126 125 124 1		<u> </u>	2 3 4 5 8 9 10 11	Connector I	e e	ONTROL UNIT		77 78 79 93 94 95	82 83 84 85 86 87 98 99 100 101 102 103
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Figure 1989 Street Link*	lŏ⊊		Terminal	Color of Wire	Signal Name [Specification]	€			_	Color of Wire	Signal Name [Specification]
CULTION HTERLOCK SWIGH STOCK LAMP SWITE STOCK LAMP SWIGH STOCK	.1-		-	М	ı	E		[t	57	AV COMM (L)
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POWER WINDOW DEFOGGER RELAY CONTINUED WINDOW DEFOGGER RELAY	٩.	1	=	×		3/	5 E	SIGNAL GND	88	a (IEL VOICE SIGNAL (=)
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RECEVER COMPANY COMP	1-	$^{+}$	2000	Г		65 Ç	_ _ °	COMM (DISP->CONT)	E 2	9 6	PARKING BRAKE
RECEIVER / SENSOR NUMBER S	٦I°	1	Connector	┰		†	2 12 12	RGB AREA (15) SIGNAL	99	5 G	KEVEKSE
THE PRESSURE RECEIVER COMM SIGNAL TAGBY - EX-SC As a connector Type TAGBY - EX-SC TA	"[+	Connector		3AG DIAGNOSIS SENSOR UNIT	Ť	M W	SHIELD BOB SYNC	cs o	5 >	DISK E IECT SIGNAL
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COMBI SW OUTPUT 5 COMBI SW OUTPUT 1 COMBI SW OUTPUT 2 COMBI SW OUTPUT 3 COMBI SW OUTPUT 4 COMBI SW OUTPUT 5 COMB	13	_	1			44	-	PCP (B:BLIE) SIGNAL			
COMBIS SW OUTPUT 2 COMBIS SW OUTPUT 3 COMBIS SW OUTPUT 3 COMBIS SW OUTPUT 4 COMBIS	16	1	主	II		0.4	1 >	COMPOSITE IMAGE OND			
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× × × × × × × × × × × × × × × × × × ×			S	>	AS 1 (+)						
SB V V LG SHIELD			9	>	AS 1 (-)						
V LG SHIELD			=	SB	ECZS (+)						
LG SHIELD R			12	^	ECZS (-)						
SHIELD			15	PC	AIR BAG W/L						
۲.			Н	SHIELD	GND						
			18	~	CUTOFF TELLTALE						
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Color Signal Name [Specification] Color

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Fail-safe

FAIL-SAFE

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

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

< ECU DIAGNOSIS INFORMATION >

	Function	Specifications	
Speedometer			
Tachometer		Decette and by supporting a supporting	
Fuel gauge		Reset to zero by suspending communication.	
Engine coolant temperature	gauge		
	Door open warning		
	Parking brake release warning	The diaples turns off his even and in a communication	
	Low tire pressure warning	The display turns off 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.	
Illumination control Buzzer		When suspending communication, change to nighttime mode.	
-		The buzzer turns off by suspending communication.	
	ABS warning lamp		
	SLIP indicator 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 lamp	A/T CHECK warning lamp		
	VDC OFF indicator lamp		
	AWD warning lamp	The lamp turns off by augmending communication	
	Low tire pressure warning lamp	The lamp turns off by suspending communication.	
	Key warning lamp		
	AFS OFF indicator lamp		
	Master warning lamp		
	Tail lamp indicator lamp		
	Front fog lamp indicator lamp		

DTC Index

Display contents of CON- SULT-III	Time	Diagnostic item is detected when	Refer to
CAN COMM CIRCUIT [U1000]	CRNT, 1 - 39	When unified meter and A/C amp. is not transmitting or receiving CAN communication signal for 2 seconds or more.	MWI-42, "Diagnosis Procedure"
CONTROL UNIT (CAN) [U1010]	CRNT, 1 - 39	When detecting error during the initial diagnosis of CAN controller of unified meter and A/C amp.	MWI-43, "Diagnosis Procedure"
COMM ERROR 1 [B2201]	CRNT, 1 - 39	If a communication error is present in the communication line between unified meter and A/C amp. and combination meter for 2 seconds or more.	MWI-44, "Diagnosis Procedure"

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Display contents of CON- SULT-III	Time	Diagnostic item is detected when	Refer to
COMM ERROR 2 [B2202]	CRNT, 1 - 39	If a communication error is present in the communication line between unified meter and A/C amp. and combination meter for 2 seconds or more.	MWI-46. "Diagnosis Procedure"
VEHICLE SPEED [B2205]	CRNT, 1 - 39	The abnormal vehicle speed signal is input from ABS actuator and electric unit (control unit) for 2 seconds or more.	MWI-48, "Diagnosis Procedure"
ENGINE SPEED [B2267]	CRNT, 1 - 39	If ECM continuously transmits abnormal engine speed signals for 2 seconds or more.	MWI-49, "Diagnosis Procedure"
WATER TEMP [B2268]	CRNT, 1 - 39	If ECM continuously transmits abnormal engine coolant temperature signals for 60 seconds or more.	MWI-50, "Diagnosis Procedure"

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BCM (BODY CONTROL MODULE)

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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
TIC VVIII EICTII	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
TR WII ER LOW	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
TR WASHER SW	Front washer switch ON	On
FR WIPER INT	Other than front wiper switch INT/AUTO	Off
I IX WIF LIX IIVI	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 position
TUDN CICNAL D	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
TUDNI CIONALI	Other than turn signal switch LH	Off
TURN SIGNAL L	Turn signal switch LH	On
TAIL AAAD 0\A4	Other than lighting switch 1ST and 2ND	Off
TAIL LAMP SW	Lighting switch 1ST or 2ND	On
	Other than lighting switch HI	Off
HI BEAM SW	Lighting switch HI	On
1154514450144	Other than lighting switch 2ND	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
115 A D 1 A M D O M 4	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
ALITO L 101 IT 014	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
ED E00 0W	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
D00D 0W DD	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
DOOD OW 12	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
D00D 0W ==	Rear RH door closed	Off
DOOR SW-RR	Rear LH door opened	On
	Rear LH door closed	Off
DOOR SW-RL	Rear LH door opened	On

< 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 LINI OCK SW	Other than power door lock switch UNLOCK	Off
CDL UNLOCK SW	Power door lock switch UNLOCK	On
KEY CYL LK-SW	Other than driver door key cylinder LOCK	Off
KET CTL LK-SW	Driver door key cylinder LOCK	On
KEY CYLLIN CW	Other than driver door key cylinder UNLOCK	Off
KEY CYL UN-SW	Driver door key cylinder LOCK	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
LIAZADD CM	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
TR CANCEL SW	Trunk lid opener cancel switch OFF	Off
TR CANCEL SW	Trunk lid opener cancel switch ON	On
TD/DD ODEN OW	Trunk lid opener switch OFF	Off
TR/BD OPEN SW	While the trunk lid opener switch is turned ON	On
TONIC/LIAT MANTO	Trunk lid closed	Off
TRNK/HAT MNTR	Trunk lid opened	On
DIVE I COV	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
ODTION 07:17.7	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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Monitor Item	Condition	Value/Status	
REQ SW -BD/TR	Trunk lid opener request switch is not pressed	Off	
CLG OW -DD/TR	Trunk lid opener request switch is pressed	On	
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off	
-0311344	Push-button ignition switch (push switch) is pressed Ignition switch in OFF or ACC position		
CN DIV2 E/D	Ignition switch in OFF or ACC position		
GN RLY2 -F/B	Ignition switch in ON position	On	
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off	
OLLICIT C/W	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	
BRAKE SW 2	The brake pedal is not depressed	Off	
SINAINE ON A	The brake pedal is depressed	On	
DETE/CANCL SIA/	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	
SFT PN/N SW	Selector lever in any position other than P and N	Off	
SET FIN/IN SVV	Selector lever in P or N position	On	
S/L -LOCK	Steering is unlocked	Off	
5/L -LOOK	Steering is locked	On	
C/L LINILOCK	Steering is locked	Off	
S/L -UNLOCK	Steering is unlocked	On	
2/L DELAY E/D	Ignition switch in OFF or ACC position	Off	
S/L RELAY-F/B	Ignition switch in ON position	On	
INI K CEN DD	Driver door is unlocked	Off	
JNLK SEN -DR	Driver door is locked	On	
DUCULOW IDDM	Push-button ignition switch (push-switch) is not pressed	Off	
PUSH SW -IPDM	Push-button ignition switch (push-switch) is pressed	On	
CN DIV4 E/D	Ignition switch in OFF or ACC position	Off	
GN RLY1 -F/B	Ignition switch in ON position	On	
DETE CM/ IDDM	Selector lever in any position other than P	Off	
DETE SW -IPDM	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	
OI I FIN -IFUIVI	Selector lever in P or N position (Except M/T models) The clutch pedal is depressed (M/T models)	On	
CET D MET	Selector lever in any position other than P	Off	
SFT P -MET	Selector lever in P position	On	
DET NI MET	Selector lever in any position other than N	Off	
SFT N -MET	Selector lever in N position	On	

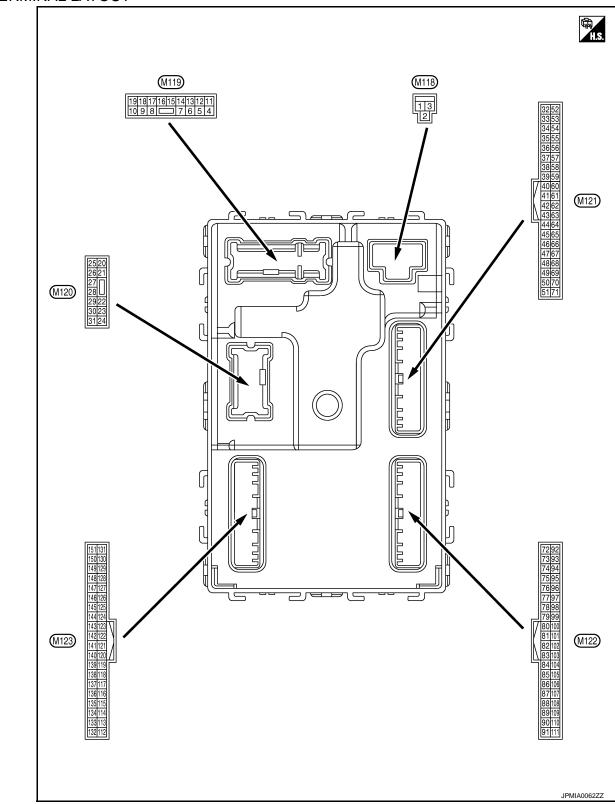
< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
	Engine stopped	Stop
ENGINE STATE	While the engine stalls	Stall
LINGING STATE	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	Steering is unlocked	Off
O/E LOOK-II DIWI	On	
S/L UNLK-IPDM	Steering is locked	Off
3/L UNLK-IF DIVI	Steering is unlocked	On
S/L RELAY-REQ	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK	Off
O/E NELAT-NEQ	Steering lock system is 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	Steering is locked	Reset
ID OKT LAG	Steering is unlocked	Set
PRMT ENG STRT	The engine start is prohibited	Reset
. I I I I I I I I I I I I I I I I I I I	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
KEY SW -SLOT	The Intelligent Key is not inserted into key slot	Off
NL I OVV -OLU I	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
CONFIDM 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
CONFIBM ID3	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet
CONFIRM ID3	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done

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Monitor Item	Condition	Value/Status
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
COM IKW ID2	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
CONFIRMIDI	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
1P 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
173	The ID of third Intelligent Key is registered to BCM	Done
TP 2	The ID of second Intelligent Key is not registered to BCM	Yet
IP 2	The ID of second Intelligent Key is registered to BCM	Done
TP 1	The ID of first Intelligent Key is not registered to BCM	Yet
IFI	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 REGST FLT	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID REGST FRT	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
ID REGST RRT	ID of rear RH tire transmitter is not registered	Yet
ID DECCE DI 4	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

TERMINAL LAYOUT



PHYSICAL VALUES

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	nal No.	Description				Value
(Wire	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	0	Oten Inner	0	Otan Inna	ON	0 V
(SB)	Ground	Step lamp	Output	Step lamp	OFF	12 V
8	Ground	All doors, fuel lid	Output	All doors, fuel	LOCK (Actuator is activated)	12 V
(V)	Ground	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)	Oround	UNLOCK	Output	fuel lid	Other than UNLOCK (Actuator is not activated)	0 V
10	Ground	Rear RH door and rear LH door UN-	Output	Rear RH door and rear LH	UNLOCK (Actuator is activated)	12 V
(P)	Oround	LOCK	Output	door	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 ground	Output	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position (V) 10 0 JSNIA0010GB
15 (BG)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
(66)					ACC	0 V

Terminal No. (Wire color)		Description			_	Value
+	color)	Signal name	Input/ Output		Condition	(Approx.)
					Turn signal switch OFF	0 V
17 (W)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E
					Turn signal switch OFF	6.5 V 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
19	On a consider	Room lamp timer	Outrot	Interior room	OFF	6.5 V 12 V
(V)	Ground	control	Output	lamp	ON	0 V
		Turn signal RH (Rear) Outpu	ear) Output Ignition switc ON		Turn signal switch OFF	0 V
20 (V)	Ground			Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
23				Trunk lid	OPEN (Trunk lid opener actuator is activated)	12 V
(LG)	Ground	Trunk lid open	Output		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				Trunk room	ON	0 V
(P)	Ground	Trunk room lamp	Output	lamp	OFF	12 V

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
34		Trunk room antenna		Ignition switch	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	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 1
35	Ground	Trunk room antenna	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(V)	Sissand	(+)			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	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(B)	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

Terminal No. (Wire color)		Description				Value					
+	color)	Signal name	Input/ Output		Condition	(Approx.)					
39	Onesed	Rear bumper anten-	0.4.4	When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB					
(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					
47		Ignition relay (IPDM			OFF or ACC	12 V					
(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 0 10 ms JPMIA0011GB					
					ON (Trunk lid is opened)	0 V					
									Ignition switch ON (A/T mod-	When selector lever is in P or N position	12 V
52	Ground	Starter relay control	Output	els)	When selector lever is not in P or N position	0 V					
(R)	Ground	Giarter 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					
					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					
		Intelligent Key warn-		Intelligent Key	Sounding	1.0 V					
64 (G)	Ground	ing buzzer (Engine	Output	warning buzzer	Not sounding	12 V					
(-)		room)		(Engine room)	INOL SOURIDING	1∠ V					

	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	Not pressed	0 V (V) 15 10 10 ms JPMIA0011GB 11.8 V
68 (BG)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (When rear RH door closes) ON (When rear RH door	(V) 15 10 5 0 10 ms JPMIA0011GB
					opens)	0 V
69 (L)	Ground	Rear LH door switch	Input	Rear LH door switch	OFF (When rear LH door closes)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (When rear LH door opens)	0 V
72 (R)	Ground	Room antenna 2 (–)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(R)		(Center console)		OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB

Terminal No. Description (Wire color)				Condition	Value	А	
+	-	Signal name	Input/ Output		Condition	(Approx.)	, \
73	Canada	Room antenna 2 (+)	Outout	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB	B C
(G)	Ground	(Center console)	Output	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	E
74	0	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
	tenna (–) Output	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	
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	W
(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	P

	nal No.	Description	I	Condition		Value		
+	color)	Signal name	Input/ Output			(Approx.)		
76	Ground	Driver door antenna	When the driver door antenna		When Intelligent Key is in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0062GB		
(V)	Sidurid	(-)	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 1 s JMKIA0063GB		
77	Ground	Driver door antenna	Output	Out.	Output	When the driver door request switch is oper-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(LG)		(+)		ated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB		
78		Room antenna 1 (–)		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB		
(Y)		(Instrument panel)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 1		

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	nal No. color)	Description	ı			Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
79		Room antenna 1 (+)		Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB
(BR)	Ground	(Instrument panel)	Output	ŎFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB
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		Remote keyless entry	Input/	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB
(Y)	Ground	receiver communication	Output	When operating gent Key	geither button on the Intelli-	(V) 15 10 5 0 1 ms JMKIA0065GB

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	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					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 0 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	А
+	color)	Signal name	Input/ Output		Condition	(Approx.)	\wedge
					All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	ВС
88	Ground	Combination switch	Input	Combination	Lighting switch HI (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	E F
(BG)		INPUT 3		switch	Lighting switch 2ND (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V	G H I
					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	J K L
89 (BR)	Ground	Push-button ignition switch (Push switch)	Input	Push-button ig- nition switch (push switch)	Pressed Not pressed	0 V Battery voltage	M
90 (P)	Ground	CAN-L	Input/ Output		_	_	
91 (L)	Ground	CAN-H	Input/ Output		_	_	WCS
					OFF	0 V	
92 (LG)	Ground	Key slot illumination	Output	Key slot illumi- nation	Blinking	(V) 15 10 5 0 1 s JPMIA0015GB	Р
					ON	6.5 V 12 V	
	<u> </u>						

		Description				Value
95 (BG) Ground A 96 (GR) Ground Sti 97 (L) Ground Sti 98 (P) Ground A (N) 100 (R)*1 (BR)*2 Ground A (N) 101 (P) Ground P q 102 Ground B 103 (P) Ground S 106 Ground S 107 (R) 108 Ground S 109 (R)*1 109 Ground S 100 R	Signal name	Input/ Output		Condition	(Approx.)	
	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
(-)					ON	0 V
	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
(BG)	Ground ON indicator Ground ACC relay content of the following of the foll	•	<u>'</u>	0	ACC or ON	12 V
	Ground	A/T shift selector (Detention switch) power supply	Output		_	12 V
	Ground	Steering lock condi-	Input	Steering lock	LOCK status	0 V
(L)	Cround	tion No. 1	трис	Oteching lock	UNLOCK status	12 V
	Ground	Steering lock condi-	Input	Steering lock	LOCK status	12 V
(P)	Giodila	tion No. 2	прис	Steering lock	UNLOCK status	0 V
		Selector lever P posi-			P position	0 V
		tion switch (A/T models)		Selector lever	Any position other than P	12 V
99	Ground ASCD clutch swite (M/T models with ICC) ICC clutch switch			ASCD clutch	OFF (Clutch pedal is depressed)	0 V
	Ground		Input	switch	ON (Clutch pedal is not depressed)	12 V
	Ground ASCD ci (M/T mo ICC) ICC clutt T model	ICC clutch switch (M/		ICC clutch	OFF (Clutch pedal is depressed)	0 V
		T models with ICC)		switch	ON (Clutch pedal is not depressed)	12 V
					ON (Pressed)	0 V
	(around		Input	Passenger door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
					ON (Pressed)	0 V
			Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
	Ground	Blower fan motor re- lay control	Output	Ignition switch	OFF or ACC	0 V 12 V
	Ground	Remote keyless entry receiver power supply	Output	Ignition switch (DFF	12 V
	Ground	Steering lock unit	Output	Ignition switch	OFF or ACC	12 V
(SB)	Giound	power supply	Output	ignition switch	ON	0 V

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	nal No.	Description				Value	/
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)	
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V	
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	1
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V	V

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	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
108	Ground	Combination switch	Input	Combination	Lighting switch AUTO (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V
(R)	Gloane	INPUT 4		switch	Lighting switch 1ST (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V
					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 JPMIA0039GB 1.3 V

	nal No.	Description				Value	А
+	color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	B C
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V	E
109 (W)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper volume dial 4)	Lighting switch 2ND	(V) 15 10 5 2 ms JPMIA0036GB 1.3 V	G H
					Front wiper switch INT/ AUTO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V	J K L
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V	M WC
					ON	0 V	0
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V	Р

	nal No.	Description				Value				
+ (vvire	color)	Signal name	Input/Output Steering lock Input/Output Input/Output Input/Output Ignition switch Input Ignition switch Input Ignition switch Clutchinterlock switch Input Stop lamp switch Stop lamp switch Input Stop lamp switch Stop lamp switch Input Stop lamp switch Stop lamp switch Input Condition	(Approx.)						
111 (Y)	Ground	Steering lock unit communication		Steering lock	LOCK status LOCK or UNLOCK	12 V				
					For 15 seconds after UN- LOCK 15 seconds or later after UNLOCK	12 V 0 V				
112 (R)	Ground	Light and rain sensor serial link		Ignition switch C		(V) 15 10 5 0 10ms JPMIA0156GB 8.7 V				
113 (BG)	Ground	Optical sensor Clutch interlock switch Stop lamp switch 1	Input		When bright outside of the vehicle When dark outside of the	Close to 5 V				
114 (R)	Ground		Innut		Vehicle OFF (Clutch pedal is not depressed)	0 V				
116				pressed)		Rattery voltage				
(SB)	Ground	Stop lamp switch 1	Input			Battery voltage				
		Stop lamp switch 2			OFF (Brake pedal is not depressed)	0 V				
118	Crownd	(Without ICC)	lmm. it	switch	ON (Brake pedal is depressed)	Battery voltage				
(BR)	Ground	Stop lamp switch 2	input		n 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				
119 (SB)	Ground	Front door lock assembly driver side (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	(V) 15 10 5 0 10 ms 10 ms 1.1 V				
					UNLOCK status (Unlock switch sensor ON)	0 V				

	nal No.	Description				Value	۵
(Wire	color)	Signal name	Input/ Output		Condition	Value (Approx.)	Α
121 (SB)	Ground	Key slot switch	Input	slot	gent Key is inserted into key	12 V 0 V	В
123 (V)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V Battery voltage	С
124 (R)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V	D E F
					ON (Door open)	0 V	
129 (BG)	Ground	Trunk lid opener cancel switch	Input	Trunk lid open- er cancel switch	CANCEL	(V) 15 10 5 0	G H
						ЈРМIA0012GB 1.1 V	
					ON	0 V	
132 (V)	Ground	Power window switch communication	Input/ Output	Ignition switch C	DN	(V) 15 10 5 0 10 ms	J K
						10.2 V	_
				Ignition switch C	1	12 V	
					ON (Tail lamps OFF)	9.5 V NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level.	WCS
133 (L)	Ground	Push-button ignition switch illumination	Output	Push-button ig- nition switch il- lumination	ON (Tail lamps ON)	(V) 15 10 5 0 JPMIA0159GB	O P
					OFF	0 V	-
134 (LG)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF	Battery voltage	-
137 (BG)	Ground	Receiver and sensor ground	Input	Ignition switch C	ON	0 V	

	nal No.	Description				Value					
+ (VVire	color)	Signal name	Signal name Output Receiver and sensor ower supply Combination switch Output Combination switch Output Combination switch Combination Combination switch Combination	Condition	(Approx.)						
138	Ground	Receiver and sensor	Input/ Output Ignition switch OFF ACC or ON	OFF	0 V						
(V)	Oround	power supply	e Input/ Output Ignition Ceiv- on Output Ignition Output On Input/ Output Selector Output Security tor Output Combin switch (Wiper v dial 4)	ignition switch	ACC or ON	5.0 V					
139	Ground	Tire pressure receiv-			Standby state	(V) 6 4 2 0 					
(L)		er communication	Output	ON	When receiving the signal from the transmitter	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
140	Ground	Selector lever P/N	Innut	Selector lever	P or N position	12 V					
(B)	Oround	position	mput	Coloctor level	Except P and N positions	0 V					
					ON	0 V					
141 (W)	Ground	Security indicator	Output	-	Blinking	(V) 15 10 5 0 1 s JPMIA0014GB					
					OFF	12 V					
					All switches OFF	0 V					
					Lighting switch 1ST						
				Combination	Lighting switch HI	(V) 15					
	Ground	Combination switch	Input/ Of Of Other Of Other Input Set of Output Set of Output Input Set of Output Input In	switch	Lighting switch 2ND	10					
(BIV)	Olound	OUTPUT 5	Output		Turn signal switch RH	0					
						0 V					
						(V)					
142	Ground	Combination switch OUTPUT 1	Output		Wiper volume dial 2Wiper volume dial 3Wiper volume dial 6	10 5 0 2 ms JPMIA0032GB					

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		Description	ı		0 111	Value
+	Ground Combination OUTPUT 3 Ground Combination OUTPUT 3 Ground Driver door s	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	JPMIA0033GB 10.7 V
					All switches OFF	0 V
					Front wiper switch INT/ AUTO	(V)
145		Combination switch	_	Combination switch	Front wiper switch LO	15
(L)	Ground		Output	(Wiper volume dial 4)	Lighting switch AUTO	2 ms JPMIA0034GB
					All switches OFF	0 V
					Front fog lamp switch ON	
				Combination	Lighting switch 2ND	(V) 15
146	Ground	Combination switch	Output	switch	Lighting switch PASS	10
(SB)	Ground	OUTPUT 4	Output	(Wiper volume dial 4)	Turn signal switch LH	0 JPMIA0035GB 10.7 V
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)	Ground	ger relay control	Cutput	defogger	Not activated	Battery voltage

^{• *1:} A/T models

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В

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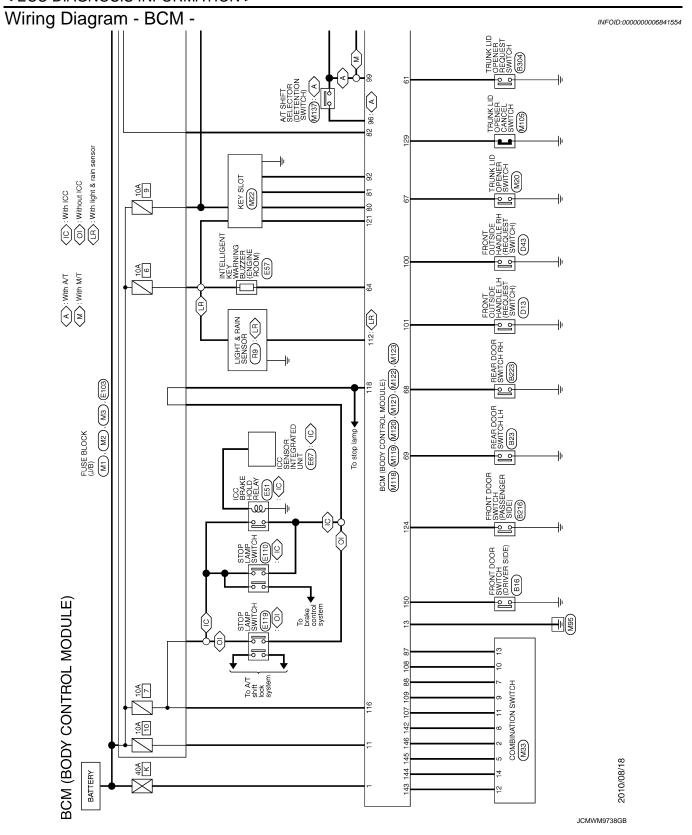
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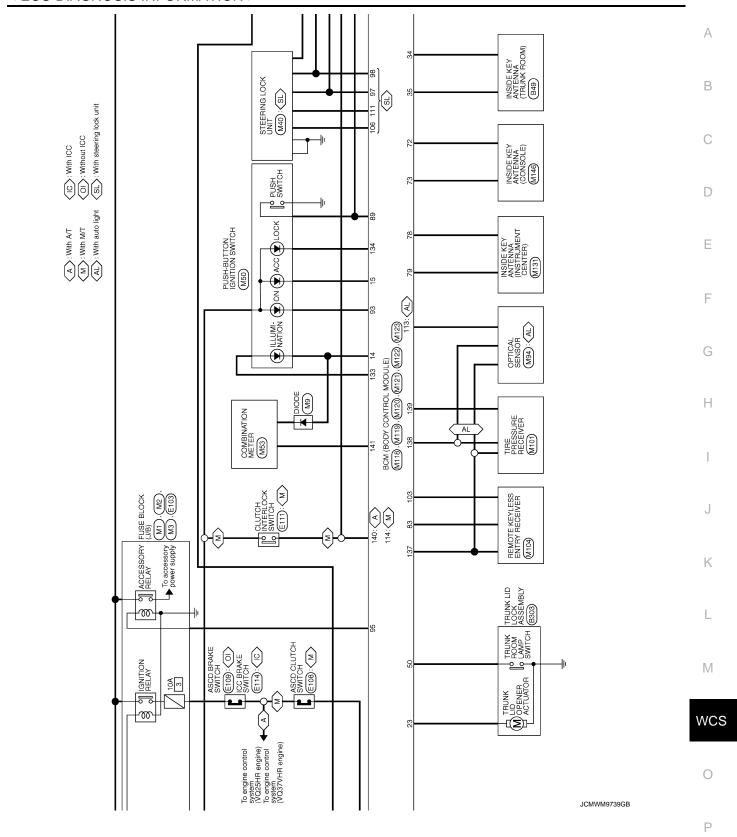
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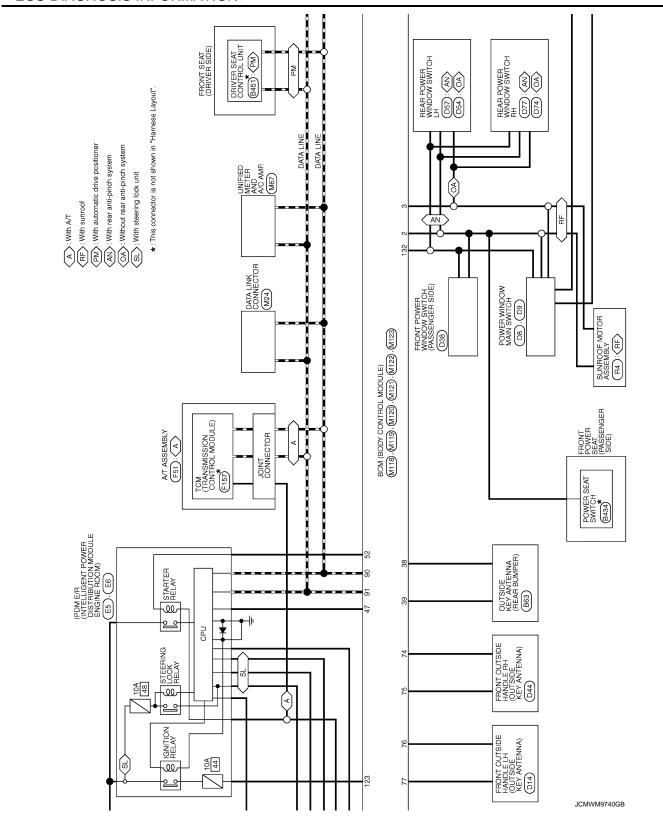
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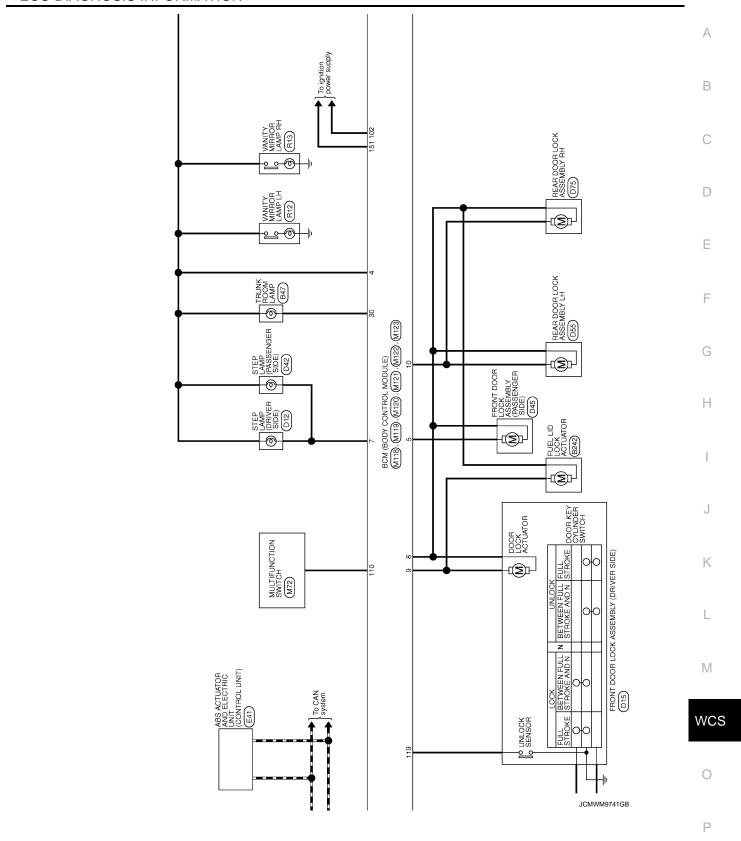
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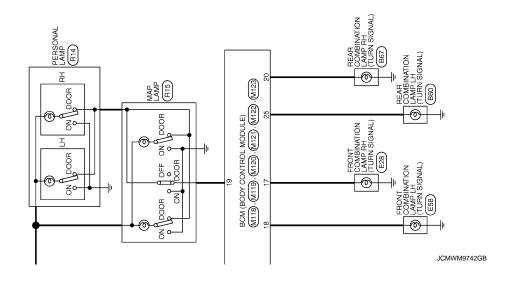
^{• *2:} M/T models







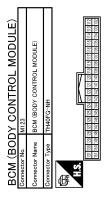




< ECU DIAGNOSIS INFORMATION >

NIT R COMM 5 3 3 1 SUPPLY RESTSW RESTSW RESTSW AY CONT WER SUPPLY AY CONT HER SUPPLY AY CONT AY CONT A	А
IGN PELAY (F-(B) CONT KEYLESS ENITRY RECEIVER COMM COMBIS SWI INPUT 3 COMBIS SWI INPUT 3 PUSSE STATE SELECTOR POWER SUPPLY A.T SHIFT SELECTOR POWER SUPPLY S.L CONDITION 2 S.L CONDITION 2 S.L CONDITION 2 S.L CONDITION 2 S.L CONDITION 1 ASCO CLUTCH SWI WIGH M.T] COMBIS SWI INPUT 4 COMBIS SWI INPUT 6 COMBIS SWI INPUT 6 COMBIS SWI INPUT 7 COMBIS SWI INPUT 6 COMBIS SWI INPUT 7 COMBIS SWI INPUT 7 COMBIS SWI INPUT 7 COMBIS SWI INPUT 7 COMBIS SWI INPUT 6 COMBIS SWI INPUT 7 COMBIS SWI INPUT 8 COMBIS SWI I	В
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Y CONTROL MODULE) MA33 COMBINATION SWITCH THIGFW-NH THIGFW-NH Signal Name (Specification) FR WASHER (-) OUTPUT 3 OUTPUT 4 OUTPUT 1 OUTPUT 1 OUTPUT 2 INPUT 1 OUTPUT 2 OUTPUT 2 INPUT 1 OUTPUT 1 INPUT 1 OUTPUT 2 INPUT 1 OUTPUT 2 INPUT 1 OUTPUT 1 INPUT 1 OUTPUT 1 INPUT 1 OUTPUT 1 INPUT 1 OUTPUT 1 INPUT 1 OUTPUT 2 INPUT 1 INPUT 1 OUTPUT 1 INPUT 1 INPUT 1 OUTPUT 2 INPUT 1 INPUT 2 INPUT 1 INPU	M
CONTROL	wcs
Connector Name	0
JCMWM9743GB	Р

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	Signal Name [Specification]	RAIN SENSOR SERIAL LINK	OPTICAL SENSOR	CLUTCH INTERLOCK SW	STOP LAMP SW 1	STOP LAMP SW 2	DR DOOR UNLOCK SENSOR	KEY SLOT SW	IGN F/B	PASSENGER DOOR SW	TRUNK LID OPENER CANCEL SW	POWER WINDOW SW COMM	PUSH-BUTTON IGNITION SWILL POWER	LOCK IND	RECEIVER / SENSOR GND	RECEIVER / SENSOR POWER SUPPLY	TIRE PRESSURE RECEIVER COMM	SHIFT N/P	SECURITY INDICATOR LAMP	COMBI SW OUTPUT 5	COMBI SW OUTPUT 1	COMBI SW OUTPUT 2	COMBI SW OUTPUT 3	COMBI SW OUTPUT 4	DRIVER DOOR SW	REAR WINDOW DEFORGER BELAY CONT
Color	of Wire	~	BG	ď	SB	BB	SB	SB	^	œ	BG	^	٦	ΓC	BG	۸	7	В	М	BR	Ь	9	٦	SB	GR	ď
Tarminal	Š	112	113	114	116	118	119	121	123	124	129	132	133	134	137	138	139	140	141	142	143	144	145	146	150	121

JCMWM9744GB

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
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
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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< ECU DIAGNOSIS INFORMATION >

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:0000000006841556

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

< ECU DIAGNOSIS INFORMATION >

Priority	DTC	
	B2013: ID DISCORD BCM-S/L	
	B2014: CHAIN OF S/L-BCM B2552 LONITION BELAY	
	B2553: IGNITION RELAY B2555: STOP LAMP	
	B2556: PUSH-BTN IGN SW	
	B2557: VEHICLE SPEED	
	B2560: STARTER CONT RELAY	
	B2601: SHIFT POSITION	
	B2602: SHIFT POSITION	
	B2603: SHIFT POSI STATUS	
	B2604: PNP/CLUTCH SW	
	B2605: PNP/CLUTCH SW	
	B2606: S/L RELAY B2007: O''. BELAY	
	B2607: S/L RELAY B2608: STARTER RELAY	
	B2609: S/L STATUS	
	B260A: IGNITION RELAY	
4	B260B: STEERING LOCK UNIT	
	B260C: STEERING LOCK UNIT	
	B260D: STEERING LOCK UNIT	
	B260F: ENG STATE SIG LOST	
	B2612: S/L STATUS	
	• B2614: BCM	
	B2615: BCM B2616: BCM	
	• B2617: BCM	
	• B2618: BCM	
	• B2619: BCM	
	B261A: PUSH-BTN IGN SW	
	B261E: VEHICLE TYPE	
	B26E8: CLUTCH SW	
	B26E9: S/L STATUS B26E4: VEV BEGINDED ATION	
	B26EA: KEY REGISTRATION C1729: VHCL SPEED SIG ERR	
	U0415: VEHICLE SPEED	
	C1704: LOW PRESSURE FL	
	C1705: LOW PRESSURE FR	
	C1706: LOW PRESSURE RR	
	C1707: LOW PRESSURE RL	
	• C1708: [NO DATA] FL	
_	• C1709: [NO DATA] FR	
5	• C1710: [NO DATA] RR	
	• C1711: [NO DATA] RL	
	C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR	
	C1717. [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR	
	C1719: [PRESSDATA ERR] RL	
	C1734: CONTROL UNIT	
_	B2621: INSIDE ANTENNA	
6	B2622: INSIDE ANTENNA B2622: INSIDE ANT	
	B2623: INSIDE ANTENNA	

DTC Index

INFOID:0000000006841557

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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	×	×	_	_	<u>SEC-55</u>
B2014: CHAIN OF S/L-BCM	×	×	_	_	<u>SEC-56</u>
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-47
B2191: DIFFERENCE OF KEY	×	_	_	_	SEC-50
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-51
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-53
B2195: ANTI-SCANNING	×	_	_	_	SEC-54
B2553: IGNITION RELAY	_	×	_	_	PCS-49
B2555: STOP LAMP	_	×	_	_	SEC-59
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-61
B2557: VEHICLE SPEED	×	×	×	_	SEC-63
B2560: STARTER CONT RELAY	×	×	×	_	SEC-64
B2562: LOW VOLTAGE	_	×	_	_	BCS-37
B2601: SHIFT POSITION	×	×	×	_	SEC-65
B2602: SHIFT POSITION	×	×	×	_	SEC-68
B2603: SHIFT POSI STATUS	×	×	×	_	SEC-70
B2604: PNP/CLUTCH SW	×	×	×	_	SEC-73
B2605: PNP/CLUTCH SW	×	×	×	_	SEC-75
B2606: S/L RELAY	×	×	×	_	SEC-77
B2607: S/L RELAY	×	×	×	_	SEC-78
B2608: STARTER RELAY	×	×	×	_	SEC-80
B2609: S/L STATUS	×	×	×	_	SEC-82
B260A: IGNITION RELAY	×	×	×	_	PCS-51
B260B: STEERING LOCK UNIT	_	×	×	_	SEC-86
B260C: STEERING LOCK UNIT	_	×	×	_	SEC-87
B260D: STEERING LOCK UNIT	_	×	×	_	SEC-88
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-89
B2612: S/L STATUS	×	×	×	_	SEC-94
B2614: BCM	_	×	×	_	PCS-53
B2615: BCM	_	×	×	_	PCS-55
B2616: BCM	_	×	×	_	PCS-57
B2617: BCM	×	×	×	_	SEC-98
B2618: BCM	×	×	×	_	PCS-59
B2619: BCM	×	×	×	<u> </u>	SEC-100
B261A: PUSH-BTN IGN SW		×	×	<u> </u>	PCS-60
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	SEC-101

< 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	А
B2621: INSIDE ANTENNA	_	×	_	_	DLK-59	В
B2622: INSIDE ANTENNA	_	×	_	_	DLK-61	
B2623: INSIDE ANTENNA	_	×	_	_	DLK-63	
B26E8: CLUTCH SW	×	×	×	_	SEC-90	С
B26E9: S/L STATUS	×	×	× (Turn ON for 15 seconds)	_	SEC-92	Б
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	<u>SEC-93</u>	D
C1704: LOW PRESSURE FL	_	_	_	×	WT 04	Е
C1705: LOW PRESSURE FR	_	_	_	×		
C1706: LOW PRESSURE RR	_	_	_	×	<u>WT-24</u>	
C1707: LOW PRESSURE RL	_	_	_	×		F
C1708: [NO DATA] FL	_	_	_	×		
C1709: [NO DATA] FR	_	_	_	×	W/T OC	
C1710: [NO DATA] RR	_	_	_	×	<u>WT-26</u>	G
C1711: [NO DATA] RL	_	_	_	×		
C1716: [PRESSDATA ERR] FL	_	_	_	×	WT-29	Н
C1717: [PRESSDATA ERR] FR	_	_	_	×		
C1718: [PRESSDATA ERR] RR	_	_	_	×		
C1719: [PRESSDATA ERR] RL	_	_	_	×		
C1729: VHCL SPEED SIG ERR	_	_	_	×	WT-30	
C1734: CONTROL UNIT	_	_	_	×	<u>WT-31</u>	Į,

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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:0000000006209890

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

Diagnosis Procedure

INFOID:0000000006209891

1. CHECK PARKING BRAKE WARNING LAMP

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

Parking brake ON : ON Parking brake OFF : OFF

Is the inspection result normal?

YES >> Replace the combination meter.

NO >> GO TO 2.

2.CHECK PARKING BRAKE SWITCH SIGNAL CIRCUIT

Perform a check for the parking brake switch signal circuit. Refer to MWI-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 UNIT

Perform a unit check for the parking brake switch. Refer to MWI-62, "Component Inspection".

Is the inspection result normal?

YES >> Replace the combination meter.

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

THE LIGHT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >	
THE LIGHT REMINDER WARNING DOES NOT SOUND	А
Description INFOID.0000000000209892	
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).	
Do they operate normally? YES >> GO TO 2.	D
NO >> Refer to <u>EXL-166</u> , " <u>Diagnosis Procedure</u> ".	
2.CHECK FRONT DOOR SWITCH (DRIVER SIDE) SIGNAL CIRCUIT	Е
Perform the check for the front door switch (driver side) signal circuit. Refer to <u>DLK-66, "Diagnosis Procedure"</u> . <u>Is the inspection result normal?</u>	
YES >> GO TO 3.	F
NO >> Repair harness or connector. 3.CHECK FRONT DOOR SWITCH (DRIVER SIDE) UNIT	
Perform a unit check for the front door switch (driver side). Refer to <u>DLK-68</u> , "Component Inspection".	G
Is the inspection result normal?	
YES >> Replace the BCM. Refer to <u>BCS-82, "Removal and Installation"</u> . NO >> Replace the front door switch (driver side). Refer to <u>DLK-252, "Removal and Installation"</u> .	Н
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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 does not sound even though driver seat belt is not fastened.
- Seat belt warning sounds even though driver seat belt is fastened.

Diagnosis Procedure

INFOID:0000000006209895

1. CHECK SEAT BELT WARNING LAMP

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

Seat belt fastened : OFF Seat belt not fastened : ON

Is the inspection result normal?

YES >> GO TO 2. NO >> GO TO 4.

$2.\mathsf{CHECK}$ UNIFIED METER AND A/C AMP. INPUT SIGNAL

Check the buckle switch input signal with the "Data Monitor". Refer to WCS-24, "Component Function Check".

Is the inspection result normal?

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

NO >> GO TO 3.

3. CHECK SEAT BELT BUCKLE SWITCH CIRCUIT

Perform the check for the seat belt buckle switch circuit. Refer to WCS-24, "Diagnosis Procedure".

Is the inspection result normal?

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

NO >> Repair harness or connector.

4. CHECK SEAT BELT BUCKLE SWITCH UNIT

Perform a unit check for the seat belt buckle switch (driver side). Refer to <u>WCS-25, "Component Inspection"</u>. Is the inspection result normal?

YES >> Replace the combination meter.

NO >> Replace the seat belt buckle. Refer to SB-8, "SEAT BELT BUCKLE: Removal and Installation".

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.

WARNING:

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.

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