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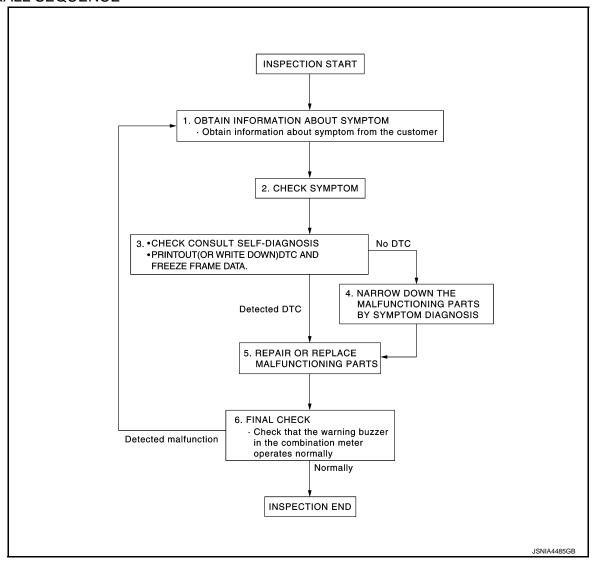
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BASIC INSPECTION

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 SELF-DIAGNOSIS RESULTS

Connect CONSULT and perform self-diagnosis. Refer to <u>WCS-47, "DTC Index"</u>.

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

- 2. When DTC is detected, follow the instructions below:
- Record DTC and Freeze Frame Data.

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:0000000008157633

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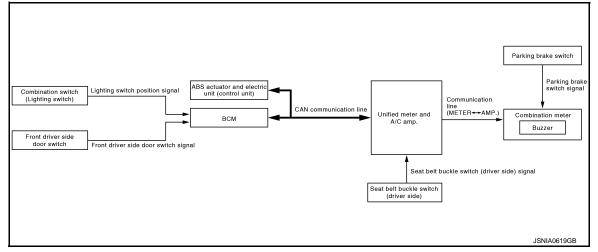
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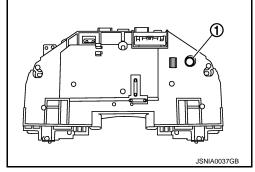


WARNING CHIME SYSTEM: System Description

INFOID:0000000008157634

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.
- 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.



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

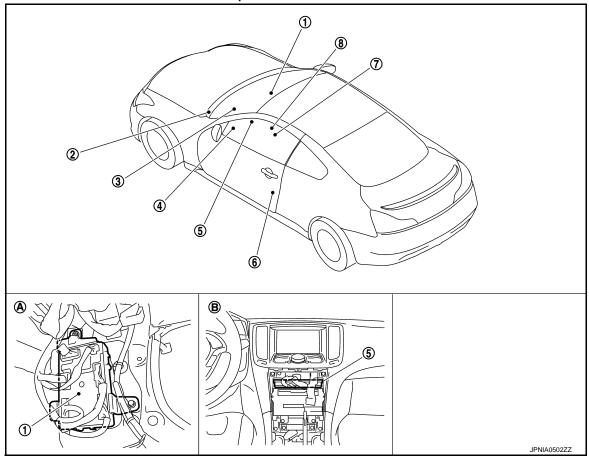
Warning functions	Signal name
Light reminder warning chime	Lighting switch position signal Driver side door switch signal
Seat belt warning chime	Ignition switch signal Seat belt buckle switch (driver side) signal

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WARNING CHIME SYSTEM : Component Parts Location

INFOID:0000000008157635



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

WARNING CHIME SYSTEM : Component Description

INFOID:0000000008157636

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 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. Receives a vehicle speed signal from ABS actuator and electric unit (control unit) 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 (driver side) signal to the unified meter and A/C amp.		
Combination switch (Lighting switch)	Transmits the lighting switch position signal to BCM.		

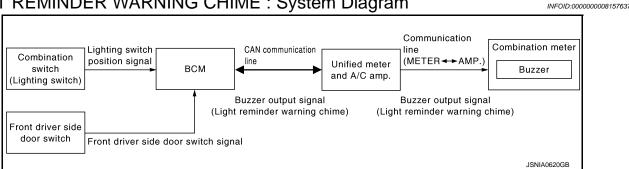
WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

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

LIGHT REMINDER WARNING CHIME

LIGHT REMINDER WARNING CHIME: System Diagram



LIGHT REMINDER WARNING CHIME: System Description

DESCRIPTION

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

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

WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled.

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

WARNING CANCEL CONDITIONS

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

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

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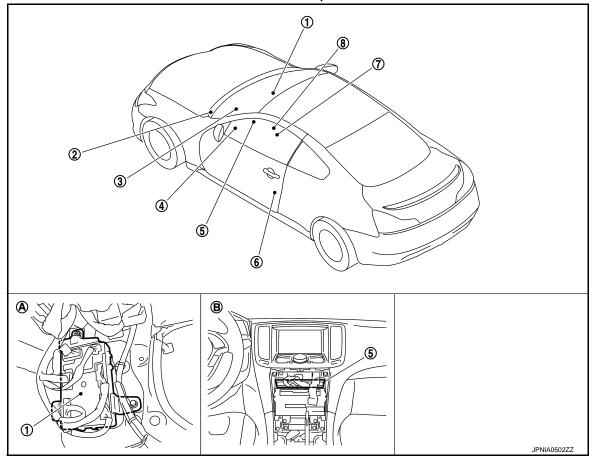
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LIGHT REMINDER WARNING CHIME: Component Parts Location

INFOID:0000000008751410



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

LIGHT REMINDER WARNING CHIME : Component Description

INFOID:0000000008157640

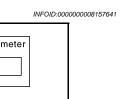
Unit	Description		
Combination meter	Receives a buzzer output signal from the unified meter and A/C amp. and sounds the buzzer.		
Unified meter and A/C amp.	Receives a buzzer output signal from BCM via CAN communication line and transmits it to the combination meter by means of communication line.		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

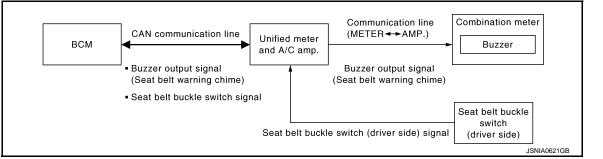
SEAT BELT WARNING CHIME

WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

SEAT BELT WARNING CHIME: System Diagram





SEAT BELT WARNING CHIME: System Description

INFOID:0000000008157642

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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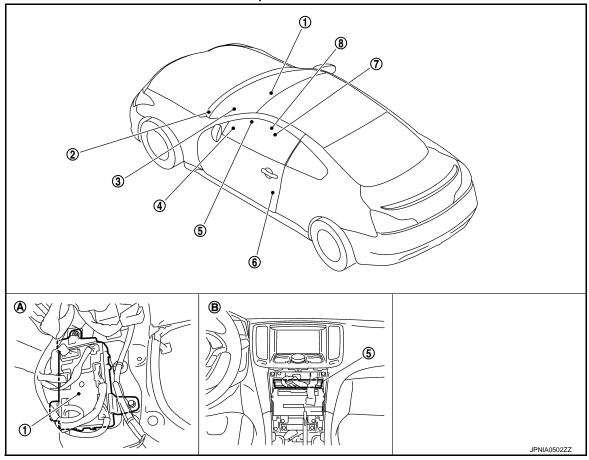
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SEAT BELT WARNING CHIME: Component Parts Location

INFOID:0000000008751411



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

SEAT BELT WARNING CHIME : Component Description

INFOID:0000000008157644

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

Unified meter

and A/C amp.

Communication line

(METER ↔ AMP.) Vehicle speed

signal

< SYSTEM DESCRIPTION >

ABS actuator and

electric unit

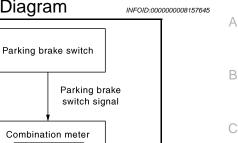
(control unit)

PARKING BRAKE RELEASE WARNING CHIME: System Diagram

CAN communication

line

Vehicle speed signal



JSNIA0622GB

Buzzer

PARKING BRAKE RELEASE WARNING CHIME: System Description

INFOID:0000000008157646

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 communi-
- 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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WCS-11 Revision: 2012 July 2013 G Convertible

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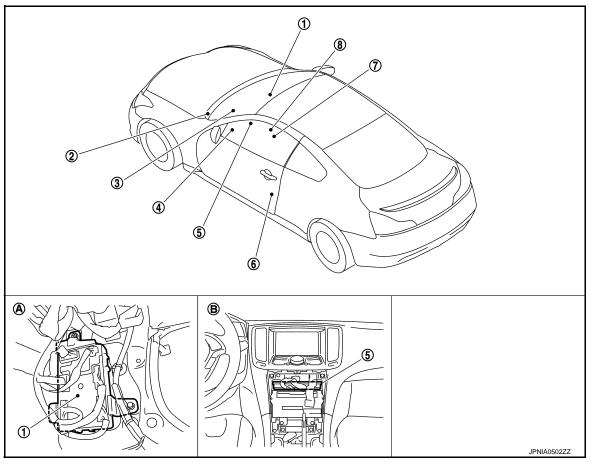
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PARKING BRAKE RELEASE WARNING CHIME: Component Parts Location

IFOID:0000000008751412



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

PARKING BRAKE RELEASE WARNING CHIME: Component Description INFOID.000000008157648

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 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 unified meter and A/C amp. via CAN communication line.		
Parking brake switch	Refer to MWI-59, "Description".		

< SYSTEM DESCRIPTION >

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

CONSULT Function (METER/M&A)

INFOID:0000000008751413

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CONSULT APPLICATION ITEMS

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

System	Diagnosis mode	Description
	Self Diagnostic Result	Unified meter and A/C amp. checks the conditions and displays memorized error.
METER/M&A	Data Monitor	Displays unified meter and A/C amp. input/output data in real time.
	Ecu Identification	The unified meter and A/C amp. part number is displayed.

SELF DIAG RESULT

Refer to MWI-84, "DTC Index".

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Display Item List

X: Applicable

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

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< SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description
BRAKE W/L [On/Off]		Status of brake warning lamp judged from brake warning lamp signal received from ABS actuator and electric unit (control unit) with CAN communication line. NOTE: Displays "Off" if the brake warning lamp is illuminated when the valve check starts the parking brake switch is turned ON or the brake fluid level switch is turned ON
DOOR W/L [On/Off]		Status of door warning judged from door switch signal received from BCM with CAN communication line.
TRUNK/GLAS-H [On/Off]		Status of trunk warning judged from trunk switch signal received from BCM with CAN communication line.
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 BCN 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 [Off]		This item is displayed, but cannot be monitored.
C-ENG2 W/L [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 ECM with CAN communication line.
CRUISE W/L [On/Off]		Status of CRUISE warning lamp judged from ASCD status signal received from ECM with CAN communication line.
BA W/L [On/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 [Off]		This item is displayed, but cannot be monitored.
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 TPMS malfunction warning lamp 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.

< SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description	
DDS W/L [Off]		This item is displayed, but cannot be monitored.	
LANE W/L [Off]		This item is displayed, but cannot be monitored.	
LDP IND [Off]		This item is displayed, but cannot be monitored.	
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, Short, Middle, Long]		Status of set distance indicator judged from meter display signal received from ICC sensor integrated unit with CAN communication line.	
ACC OWN VHL [On/Off]		Status of own vehicle indicator judged from meter display signal received from ICC sensor integrated unit with CAN communication line.	
ACC SET SPEED		Display ICC set vehicle speed from meter display signal received from ICC sensor integrated unit with CAN communication line.	
ACC UNIT [On/Off]		Status of display unit judged from meter display signal received from ICC sensor integrated unit with CAN communication line.	
O/D OFF SW [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 [Off]		This item is displayed, but cannot be monitored.	
M RANGE SW [On/Off]		Status of manual mode switch.	
NM RANGE SW [On/Off]		Status of not manual mode switch.	
AT SFT UP SW [On/Off]		Status of A/T shift up switch.	
AT SFT DWN SW [On/Off]		Status of A/T shift down switch.	
ST SFT UP SW [On/Off]		Status of paddle shifter up switch.	
ST SFT DWN SW [On/Off]		Status of paddle shifter down switch.	
COMP F/B SIG [On/Off]		A/C compressor activation condition that ECM judges according to the engine coolant 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 (driver side).	
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.	

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< SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description
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.)
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 Function (BCM - COMMON ITEM)

INFOID:0000000008788791

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APPLICATION ITEM

CONSULT 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.	
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

System

Turn signal and hazard warning lamps

BCM can perform the following functions for each system.

NOTE:

Door lock

Warning chime

Exterior lamp

Wiper and washer

Rear window defogger

Interior room lamp timer

· Intelligent Key system

· Engine start system

Combination switch

Body control system

Vehicle security system

Signal buffer system

Interior room lamp battery saver

IVIS - NATS

Trunk lid open

RAP system

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

DOOR LOCK

BUZZER

INT LAMP

HEAD LAMP

WIPER

FLASHER

COMB SW **BCM**

IMMU

TRUNK

THEFT ALM

RETAINED PWR

SIGNAL BUFFER

AIR PRESSURE MONITOR

REAR DEFOGGER

MULTI REMOTE ENT*1

AIR CONDITONER*1

INTELLIGENT KEY

BATTERY SAVER

Sub system selection item

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×

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x: Applicable item

Active Test

Diagnosis mode

Data Monitor

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Work Support

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NOTE:

TPMS

- *1: This item is displayed, but is not used.
- *2: At models with rain sensor this mode is displayed, but is not used.

FREEZE FRAME DATA (FFD)

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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

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

NOTE:

- *: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position (A/T models), and any of the following conditions are met.
- Closing door
- · Opening door
- · Door is locked using door request switch
- · Door is locked using Intelligent Key

The power supply position shifts to "ACC" when the push-button ignition switch (push switch) is pushed at "LOCK".

BUZZER

BUZZER: CONSULT Function (BCM - BUZZER)

INFOID:0000000008157651

CONSULT APPLICATION ITEMS

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

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	J
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).	K
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).	L

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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:0000000008751414

1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	11
Ignition switch ON or START	4

Is the inspection result normal?

YES >> GO TO 2.

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

2. CHECK POWER SUPPLY CIRCUIT

Check voltage between combination meter harness connector terminal and ground.

Terminals				
(+)			Ignition switch	Voltage (Approx.)
Combina	Combination meter		Igrillion switch	
Connector	Terminals			
M53	1	Ground	OFF	Battery voltage
	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	
M53	15		Existed
	22		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

UNIFIED METER AND A/C AMP.

UNIFIED METER AND A/C AMP. : Diagnosis Procedure

INFOID:0000000008751415

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

Is the inspection result normal?

YES >> GO TO 3.

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

3. CHECK GROUND CIRCUIT

- 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.		Continuity	
Connector	Connector Terminals		Continuity	
M67	55	Ground	Existed	
IVIO7	71		LXISIEU	

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.
Pottoni novor gunniu	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

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

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

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Connector Terminal		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:0000000008157655 • 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:0000000008157656 ${f 1}$.CHECK OPERATION OF METER BUZZER Connect the CONSULT. 2. Perform "LIGHT WARN ALM" in "ACTIVE TEST" of "BCM (BUZZER)". D 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" of "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-79, "Removal and Installation". Diagnosis Procedure INFOID:0000000008157657 $oldsymbol{1}$.CHECK POWER SUPPLY OF COMBINATION METER Check power supply of combination meter. Refer to MWI-49, "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-49, "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:000000008157658

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

Component Function Check

INFOID:0000000008157659

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

- Connect the CONSULT.
- 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:0000000008157660

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

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

${f 3.}$ CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE) GROUND CIRCUIT

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

Seat belt buckle 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.

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

Is the inspection result normal?

YES >> INSPECTION END

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

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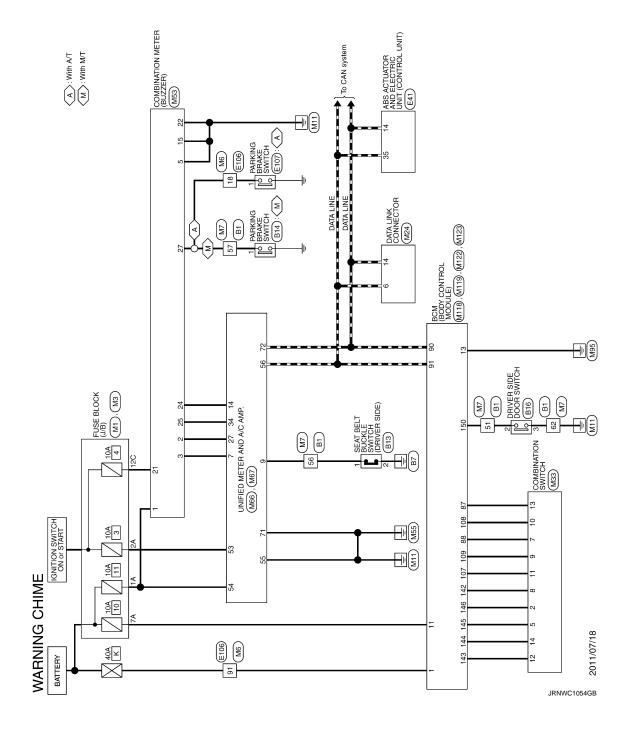
Revision: 2012 July WCS-25 2013 G Convertible

WARNING CHIME SYSTEM

Wiring Diagram - WARNING CHIME -

INFOID:0000000008157662

For connector terminal arrangements, harness layouts, and alphabets in a \bigcirc (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".



< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

COMBINATION METER

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Refer to WCS-35, "Reference Value".

TERMINAL LAYOUT

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

PHYSICAL VALUES

	nal No. e color)	Description			Condition	Value	
+	_	Signal name	Input/ Output	Condition		(Approx.)	
1 (V)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage	
2 (LG)	Ground	Communication signal (METER→ AMP.)	Output	Ignition switch ON		(V) 6 4 2 0 ■ 200 µs JSNIA0027GB	
3 (GR)	Ground	Communication signal (AMP.→ METER)	Input	Ignition switch ON	_	(V) 6 4 2 0 µs JSNIA0027GB	
5 (B)	Ground	Ground	_	Ignition switch ON	_	0 V	
6	Ground	Alternator aignal	Innut	Ignition switch	Charge warning lamp ON	0 V	
(W)	Giodila	Alternator signal		ON	Charge warning lamp OFF	12 V	
7	Crousd	Air bag aignal	Innut	Ignition switch	Air bag warning lamp ON	4 V	
(LG)	Ground	Air bag signal	Input	ON	Air bag warning lamp OFF	0 V	
10	Ground	Socurity signal	Innut	Ignition	Security warning lamp ON	0 V	
(R)	(R) Ground	ound Security signal Inp	input	Input switch OFF	Security warning lamp OFF	12 V	

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	nal No. color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
15 (B)	Ground	Ground	_	Ignition switch ON	_	0 V
16 (B)	Ground	Meter control switch ground	_	Ignition switch ON	_	0 V
21 (R)	Ground	Ignition signal	Input	Ignition switch ON	_	12 V
22 (B)	Ground	Ground	_	Ignition switch ON	_	0 V
24 (SB)	Ground	Communication signal (LCD→ AMP.)	Output	Ignition switch ON		(V) 15 10 5 400 μs JSNIA0028GB
25 (B)	Ground	Communication signal (AMP.→ LCD)	Input	Ignition switch ON		(V) 6 4 2 0 200 µs JSNIA0027GB
26 (R)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	Speedometer operated [When vehicle speed is ap- prox. 40 km/h (25 MPH)]	NOTE: The maximum voltage varies depending on the specification (destination unit).
					Parking brake applied	0 V
27 (V)	Ground	Parking brake switch signal	Input	Ignition switch ON	Parking brake released	(V) 8 4 0 10 ms JSNIA0007GB

Terminal No. (Wire color) Description		Description			Condition	Value	
+	-	Signal name	Input/ Output	Condition		(Approx.)	
28 (SB)	Ground	Brake fluid level switch signal	Input	Ignition switch ON	Brake fluid level is normal.	(V) 10 0 10 ms JSNIA0008GB	
					The brake fluid level is low- er than the low level	0 V	
29 (L)	Ground	Seat belt buckle switch signal (driver side)	Input	Ignition switch ON	When driver seat belt is fas- tened	12 V	
	Ground				When driver seat belt is un- fastened	0 V	
30 (G)	Ground	Seat belt buckle switch signal (passenger side)	Input	Ignition switch ON	When getting in the passenger seat When passenger seat belt is fastened	12 V	
					When getting in the passenger seatWhen passenger seat belt is unfastened	0 V	
31		round Washer level switch signal Input switch ON		Ignition	Washer level switch ON	0 V	
(L)	Ground			Washer level switch OFF	5 V		
		nd Illumination control signal	Output	Ignition switch ON	Lighting switch 1ST When meter illumination is maximum	(V) 15 10 5 0 2.5 ms JPNIA1363GB	
33 (R)	Ground				Lighting switch 1STWhen meter illumination is step 12	(V) 15 10 5 0 2.5 ms JPNIA1362GB	
					Lighting switch 1ST When meter illumination is minimum	10 V	
36 (LG)	16 (B)	Select switch signal	Input	Ignition switch ON	When is pressed Other than the above	0 V 5 V	
37 (SB)	16 (B)	Enter switch signal	Input	Ignition switch ON	When is pressed Other than the above	0 V 5 V	
38	16	Trip A/B reset switch signal	Input	Ignition switch	When trip A/B reset switch is pressed	0 V	
(L)	(B)	p / v D 1000t Switch Signal	mpat	ON	Other than the above	5 V	

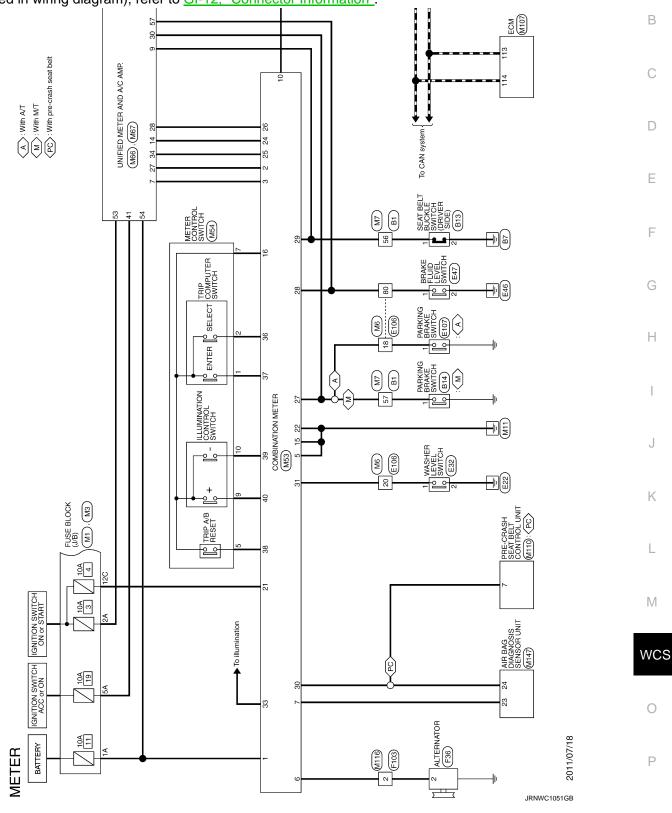
	nal No. color)	Description		Condition		Value
+	_	Signal name	Input/ Output	Condition		(Approx.)
39 (P)	16 (B)	Illumination control switch signal (–)	Input	Ignition switch ON	When 📆 switch is pressed	0 V
					Other than the above	5 V
40 (BG)	16 (B)	Illumination control switch signal (+)	Input	Input Ignition switch ON	When 👸 + switch is pressed	0 V
(20)					Other than the above	5 V

Wiring Diagram - METER -

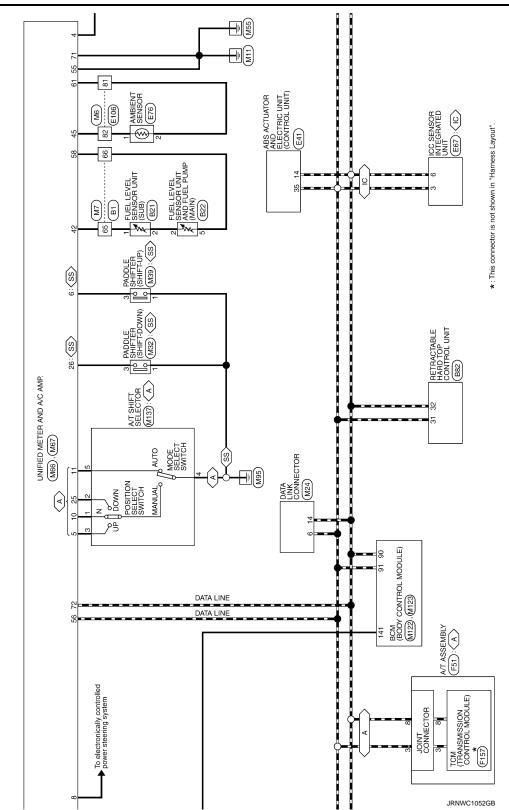
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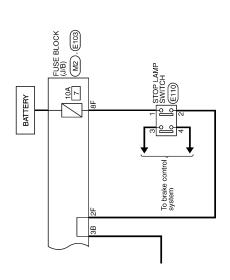
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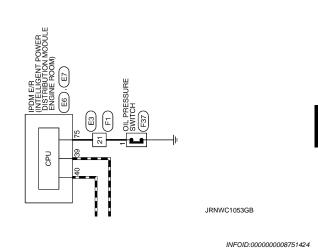
For connector terminal arrangements, harness layouts, and alphabets in a \bigcirc (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".



(A): With A/T
(IC): With ICC
(SS): With paddle shifter







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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			
Engine coolant temperatur	re gauge		
Illumination control		When suspending communication, change to nighttime mode.	
	Door open warning	The display turns off by suspending communication.	
	Parking brake release warning		
	Low tire pressure warning		
	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. When reception time of an abnormal signal is more than two seconds, the last result calculated during normal condition is indicated. 	
	Average vehicle speed		
	Travel distance		
Buzzer		The buzzer turns off by suspending communication.	
	ABS warning lamp		
	VDC warning lamp		
	Brake warning lamp	The lamp turns on by suspending communication.	
	CRUISE warning lamp		
	Malfunction indicator lamp		
	High beam indicator		
	Turn signal indicator lamp		
Warning lamp/indicator	Oil pressure warning lamp		
lamp	A/T CHECK warning lamp	1	
	VDC OFF indicator lamp		
	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-47, "DTC Index".

UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

UNIFIED METER AND A/C AMP.

Α Reference Value INFOID:0000000008751426

VALUES ON THE DIAGNOSIS TOOL

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

CONSULT MONITOR ITEM		O and distant	Value (0)	
Monitor Item		Condition	Value/Status Equivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received	
SPEED METER [km/h]	Ignition switch ON	While driving		
SPEED OUTPUT [km/h]	Ignition switch ON	While driving	Equivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received	
ODO OUTPUT [km]	Ignition switch ON	_	Equivalent to odometer reading in combination meter	
TACHO METER [rpm]	Ignition switch ON	While driving	Equivalent to tachometer reading NOTE: 8191.875 is displayed when the malfunction signal is received	
FUEL METER [L]	Ignition switch ON	_	Values according to fuel level	
W TEMP METER [°C]	Ignition switch ON	_	Values according to engine coolant temperature NOTE: 215 is displayed when the malfunction signal is input	
FUEL CAP W/L	Ignition switch	Fuel filler cap warning display ON	On	
TOLL GAF W/L	ON	Fuel filler cap warning display OFF	Off	
ABS W/L	Ignition switch	ABS warning lamp ON	On	
ADO W/E	ON	ABS warning lamp OFF	Off	
VDC/TCS IND	Ignition switch ON	VDC OFF indicator lamp ON	On	
VB0/100 IIVB		VDC OFF indicator lamp OFF	Off	
SLIP IND	Ignition switch	VDC warning lamp ON	On	
OEII IIVD	ON	VDC warning lamp OFF	Off	
BRAKE W/L	Ignition switch ON	Blake warning lamp ON	On	
DIVARLE W/L		Blake warning lamp OFF	Off	
DOOR W/L	Ignition switch	Door warning displayed	On	
DOOK W/L	ON	Door warning not displayed	Off	
TRUNK/GLAS-H	Ignition switch	Trunk warning displayed	On	
TRONIVOLAS-TI	ON	Trunk warning not displayed	Off	
HI-BEAM IND	Ignition switch	Hi-beam indicator lamp ON	On	
	ON	Hi-beam indicator lamp OFF	Off	
TURN IND	Ignition switch	Turn indicator lamp ON	On	
TORN IND	ON	Turn indicator lamp OFF	Off	
FR FOG IND	Ignition switch	Front fog lamp indicator lamp ON	On	
TICT OO IIND	ON	Front fog lamp indicator lamp OFF	Off	

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UNIFIED METER AND A/C AMP.

Monitor Item		Condition	Value/Status	
RR FOG IND	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off	
LICUTIND	Ignition switch	Tail lamp indicator lamp ON	On	
LIGHT IND	ŎN	Tail lamp indicator lamp OFF	Off	
011 14/1	Ignition switch	Oil pressure warning lamp ON	On	
OIL W/L	ŎN	Oil pressure warning lamp OFF	Off	
NAU	Ignition switch	Malfunction warning lamp ON	On	
MIL	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	
CDI HCE IND	Ignition switch ON	Cruise indicator displayed	On	
CRUISE IND		Cruise indicator not displayed	Off	
OFT IND	Ignition switch	Set indicator lamp ON	On	
SET IND	ON	Set indicator lamp OFF	Off	
ODLUCE W/I	Ignition switch	Cruise warning lamp ON	On	
CRUISE W/L	ON	Cruise warning lamp OFF	Off	
BA W/L	Ignition switch ON	Models with ICC NOTE: This item is displayed, but cannot be monitored.	On	
S/(VV/E		Models without ICC NOTE: This item is displayed, but cannot be monitored.	Off	
ATC/T-AMT W/L	Ignition switch ON	A/T check warning lamp ON	On	
ATC/T-AWIT W/L		A/T check warning lamp OFF	Off	
4WD W/L	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	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 lamp displayed	On	
FUEL W/L	ON	Low-fuel warning lamp 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	
AIN PRES W/L	ON	Low tire pressure lamp OFF	Off	
VEV C/V W/I	Ignition switch	Key warning lamp ON	On	
KEY G/Y W/L	ŎN	Key warning lamp OFF	Off	
AEC OFF IND	Ignition switch	AFS OFF indicator lamp ON	On	
AFS OFF IND	ON	AFS OFF indicator lamp OFF	Off	
WAS/RAS W/L Ignition switch ON This		NOTE: This item is displayed, but cannot be monitored.	Off	

< ECU DIAGNOSIS INFORMATION >

Monitor Item		Condition	Value/Status	A
DDS W/L	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off	A
LANE W/L	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off	В
LDP IND	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off	С
	Ignition switch	Engine start information display (A/T model)	B&P I	D
	ON	Engine start information display (M/T model)	C&P I	
	Ignition switch	Engine start information display (A/T model)	B&P N	
	ACC	Engine start information display (M/T model)	C&P N	Е
	Ignition switch LOCK	Key ID warning display	ID NG	
	Ignition switch LOCK	Steering lock information display	ROTAT	-
LCD	Ignition switch LOCK	P position warning display	SFT P	G
	Ignition switch LOCK	Intelligent Key insert information display	INSRT	
	Ignition switch LOCK	Intelligent Key low battery warning display	BATT	Н
	Ignition switch ON	Take away warning display	NO KY	
	Ignition switch LOCK	Key warning display	OUTKY	
	Ignition switch ON	ICC sensor integrated unit warning display	LK WN	J
	120	Vehicle ahead detection indicator displayed	On	
ACC TARGET	Ignition switch ON	Vehicle ahead detection indicator not displayed	Off	K
		When following distance set to "LONG"	Long	
ACC DICTANCE	Ignition switch	When following distance set to "MIDDLE"	Middle	L
ACC DISTANCE	ŎN	When following distance set to "SHORT"	Short	
		Set distance indicator not displayed	Off	M
A C C C (A) (A () () () ()	Ignition switch	Own vehicle indicator displayed	On	
ACC OWN VHL	ŎN	Own vehicle indicator not displayed	Off	
ACC SET SPEED	Ignition switch ON	ICC set vehicle speed display	Vehicle speed	WCS
A OO LINUT	Ignition switch	Set vehicle speed indicator unit display ON	On	
ACC UNIT	ON	Set vehicle speed indicator unit display OFF	Off	0
O/D OFF SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off	<u> </u>

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Monitor Item Condition		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
	OIV	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 C MODE CW	Ignition switch	Snow mode switch ON	On
AT S MODE SW	ON	Snow mode switch OFF	Off
AT P MODE SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
M D A N O E O W	Ignition switch	Selector lever DS position	On
M RANGE SW	ŎN	Other than the above	Off
NIM DANIOE OW	Ignition switch	Selector lever DS position	Off
NM RANGE SW	ŎN	Other than the above	On
	Ignition switch	Selector lever up position	On
AT SFT UP SW	ŎN	Other than the above	Off
AT OFT DIAME OVA	Ignition switch	Selector lever – position	On
AT SFT DWN SW	ŎN	Other than the above	Off
OT OFT UP OW	Ignition switch	Paddle shifter up operation	On
ST SFT UP SW	ON	Other than the above	Off
CT CET DWM CW	Ignition switch	Paddle shifter down operation	On
ST SFT DWN SW	ŎN	Other than the above	Off
COMP E/D CIC	Ignition switch	A/C compressor activation condition	On
COMP F/B 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 applied	On
PND SVV	ON	Parking brake released	Off
BUCKLE SW	Ignition switch	Seat belt (driver side) unfastened	On
BUCKLE 3W	ON	Seat belt (driver side) fastened	Off
BRAKE OIL SW	Ignition switch	Brake fluid level is lower than the low level	On
BRARE OIL SW	ON	Brake fluid level is normal	Off
DISTANCE [km]	Ignition switch ON	_	Possible driving distance calculated by unified meter and A/C amp.
OUTSIDE TEMP [°C] or [°F]	Ignition switch ON	_	Equivalent to ambient temperature NOTE: This may not match the indicated value on the information display.
FUEL LOW CIO	Ignition switch	Low-fuel warning signal output	On
FUEL LOW SIG	ON	Low-fuel warning signal not output	Off

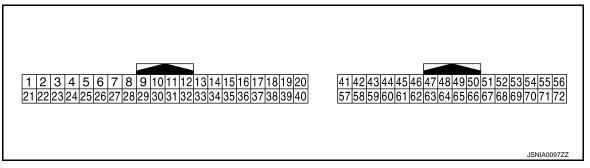
< ECU DIAGNOSIS INFORMATION >

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

NOTE:

Some items are not available according to vehicle specification.

TERMINAL LAYOUT



PHYSICAL VALUES

	nal No. color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
4	0	Charles and the charles and	1	Ignition	Brake pedal is depressed	12 V
(G)	Ground	Stop lamp switch signal	Input	switch OFF	Other than the above	0 V
5	0	Manual mode shift up sig-	lanut	Ignition	Selector lever up position	0 V
(L)	Ground	nal	Input	switch ON	Other than the above	12 V
6	0	B. Ille of West or Stand	1	Ignition	Paddle shifter up operation	0 V
(BG)	Ground	Paddle shifter up signal	Input	switch ON	Other than the above	12 V
7 (GR)	Ground	Communication signal (AMP. → METER)	Output	Ignition switch ON	_	(V) 6 4 2 0 + 1 ms SKIA3362E
8 (L)	Ground	Vehicle speed signal (2-pulse)	Output	Ignition switch ON	Speedometer operated [When vehicle speed is ap- prox. 40 km/h (25 MPH)]	NOTE: The maximum voltage varies depending on the specification (destination unit).
9	Ground	Seat belt buckle switch sig-	Innut	Ignition switch	When seat belt (driver side) is fastened	12 V
(SB)	Giouna	nal (driver side)	Input	ON	When seat belt (driver side) is unfastened	0 V

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	Terminal No. (Wire color) Description		Condition		Value	
+	_	Signal name	Input/ Output	Solidation		(Approx.)
10	0	Manualmada simal	lanut	Ignition	Selector lever DS position	0 V
(W)	Ground	Manual mode signal	Input	switch ON	Other than the above	12 V
11				Ignition	Selector lever DS position	12 V
(G)	Ground	Non-manual mode signal	Input	switch ON	Other than the above	0 V
14 (SB)	Ground	Communication signal (LCD \rightarrow AMP.)	Input	Ignition switch ON	_	(V) 15 10 5 0 ■ 400 µs JSNIA0028GB
20			_	Ignition	Blower motor: ON	0 V
(G)	Ground	ION ON/OFF signal	Output	switch ON	Blower motor: OFF	12 V
25	Ground	Manual mode shift down	Input	Ignition switch	Selector lever down position	0 V
(V)		signal	·	ON	Other than the above	12 V
26	Ground	Paddle shifter down signal	Input	Ignition switch	Paddle shifter down operation	0 V
(G)		•	·	ON	Other than the above	12 V
27 (LG)	Ground	Communication signal (METER → AMP.)	Input	Ignition switch ON	_	(V) 6 4 2 0 ** 1 ms SKIA3361E
28 (R)	Ground	Vehicle speed signal (8-pulse)	Output	Ignition switch ON	Speedometer operated [When vehicle speed is ap- prox. 40 km/h (25 MPH)]	NOTE: The maximum voltage varies depending on the specification (destination unit).
30 (V)	Ground	Parking brake switch signal	Input	Ignition switch ON	Parking brake applied Parking brake released	0 V (V) 8 4 0 10 ms JSNIA0007GB

	inal No. e color)	Description			Condition	Value	А
+	_	Signal name	Input/ Output		Condition	(Approx.)	_
34 (B)	Ground	Communication signal (AMP. → LCD)	Output	Ignition switch ON	_	(V) 6 4 2 0 JSNIA0027GB	С
38 (P)	Ground	Blower motor control signal	Output	Ignition switch ON	Fan speed: 1st speed (manual)	(V) 6 4 2 0	E
41 (BR)	Ground	ACC power supply	Input	Ignition switch ACC	_	Battery voltage	G
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	Η
43 (R)	Ground	Intake sensor signal	Input	Ignition switch ON	_	0 - 4.8 V Output voltage varies with intake temperature.	J
44 (LG)	Ground	In-vehicle sensor signal	Input	Ignition switch ON	_	0 - 4.8 V Output voltage varies with in-ve- hicle temperature.	K
45 (V)	Ground	Ambient sensor signal	Input	Ignition switch ON	_	(V) 4 3 2 1 0 -10 0 10 20 30 40 1 C C T C C C C C C C C C C C C C C C C	M WCS
46 (BG)	Ground	Sunload sensor signal	Input	Ignition switch ON	_	0 - 4.8 V Output voltage varies with amount of sunload.	0
47 (G)	Ground	Exhaust gas/outside odor detecting sensor signal	Input	Ignition switch ON	NOTE: The signal is different by measurement environment of a vehicle	(V) 6 4 2 0 4 ms 2 JIA1163J	Р
53 (W)	Ground	Ignition power supply	Input	Ignition switch ON	_	Battery voltage	

	nal No. color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
54 (BG)	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
59 (GR)	Ground	Intake sensor ground	_	Ignition switch ON	_	0 V
60 (L)	Ground	In-vehicle sensor ground	_	Ignition switch ON	_	0 V
61 (R)	Ground	Ambient sensor ground		Ignition switch ON		0 V
62 (SB)	Ground	Sunload sensor ground		Ignition switch ON		0 V
63 ^{*1} (L)	_	_	_	_	_	_
65 (BG)	Ground	ECV signal	Output	Ignition switch ON	Self-diagnosis. STEP-4 (Code No. 45)	(V) 15 10 5 0
69 (L)	Ground	A/C LAN signal	Input/ Output	Ignition switch ON	_	(V) 15 10 5 0 20 ms
70 (R)	Ground	Each door motor power supply	Output	Ignition switch ON	_	Battery voltage

< ECU DIAGNOSIS INFORMATION >

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

^{*1:} Unified meter and A/C amp. does not use this terminal for control.

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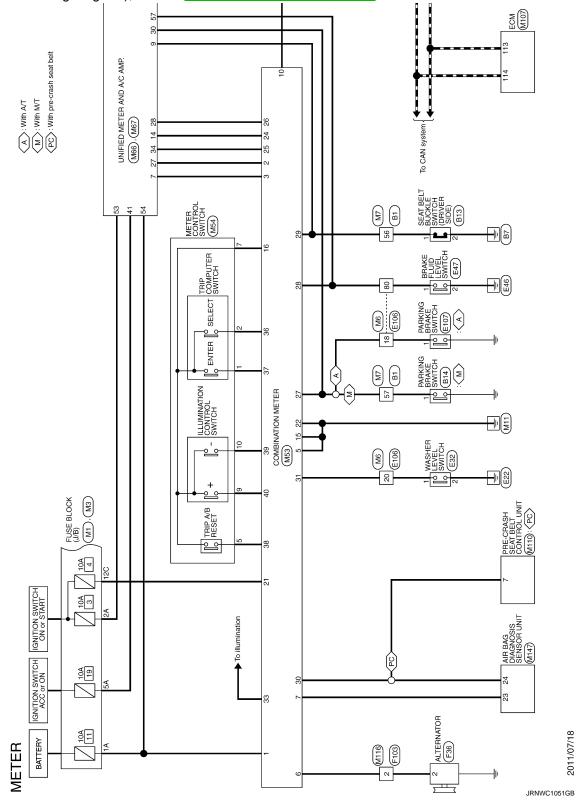
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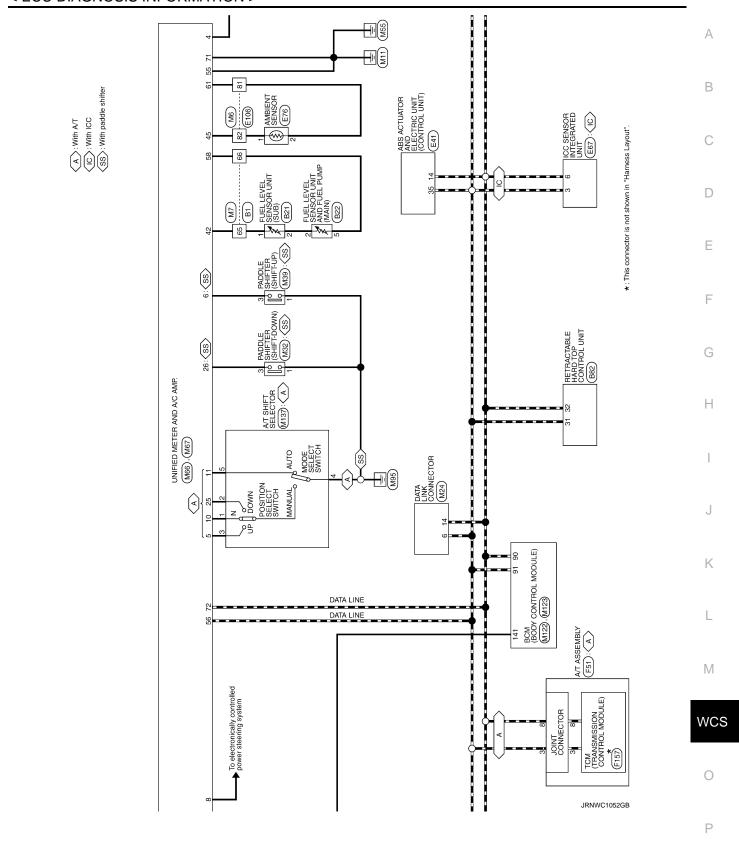
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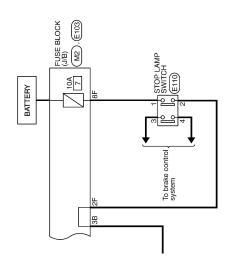
Wiring Diagram - METER -

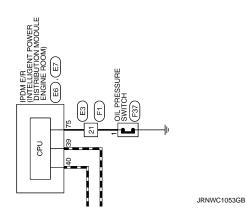
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For connector terminal arrangements, harness layouts, and alphabets in a \bigcirc (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".









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		Poset to make his assessment in a communication		
Fuel gauge		Reset to zero by suspending communication.		
Engine coolant temperatu	re gauge			
Illumination control		When suspending communication, change to nighttime mode.		
	Door open warning			
	Parking brake release warning	The display turns off by suspending communication.		
	Low tire pressure warning	The display turns on by suspending communication.		
	Fuel filler cap warning			
Information display	Instantaneous fuel warning	When reception time of an abnormal signal is 2 seconds or		
	Average fuel consumption	less, the last received datum is used for calculation to indicate the result.		
	Average vehicle speed	When reception time of an abnormal signal is more than two		
	Travel distance	seconds, the last result calculated during normal condition is indicated.		
Buzzer	,	The buzzer turns off by suspending communication.		
	ABS warning lamp			
	VDC warning lamp			
	Brake warning lamp	The lamp turns on by suspending communication.		
	CRUISE warning lamp			
	Malfunction indicator lamp			
	High beam indicator			
	Turn signal indicator lamp			
Warning lamp/indicator	Oil pressure warning lamp			
lamp	A/T CHECK warning lamp			
	VDC OFF indicator lamp			
	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 CONSULT	Tiı	me	Diagnostic item is detected when	Refer to
U1000: CAN COMM CIRCUIT	CRNT	PAST	When unified meter and A/C amp. is not transmitting or receiving CAN communication signal for 2 seconds or more.	MWI-40
U1010: CONTROL UNIT (CAN)	CRNT	PAST	When detecting error during the initial diagnosis of CAN controller of unified meter and A/C amp.	MWI-41
B2201: COMM ERROR 1	CRNT	PAST	If a communication error is present in the communication line between unified meter and A/C amp. and combination meter for 2 seconds or more.	MWI-42
B2202: COMM ERROR 2	CRNT	PAST	If a communication error is present in the communication line between unified meter and A/C amp. and combination meter for 2 seconds or more.	MWI-44
B2205: VEHICLE SPEED	CRNT	PAST	The abnormal vehicle speed signal is input from ABS actuator and electric unit (control unit) for 2 seconds or more.	MWI-46

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< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Time		Diagnostic item is detected when	Refer to
B2267: ENGINE SPEED	CRNT	PAST	If ECM continuously transmits abnormal engine speed signals for 2 seconds or more.	<u>MWI-47</u>
B2268: WATER TEMP	CRNT	PAST	If ECM continuously transmits abnormal engine coolant temperature signals for 60 seconds or more.	MWI-48

NOTE:

The details of TIME display are as follows.

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

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Reference Value

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VALUES ON THE DIAGNOSIS TOOL

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

CONSULT MONITOR ITEM

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
I IX WIII LIXIII	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
I K WII EK LOW	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
FR 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
TUDNI CICNIAL D	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
TUDNI CIONAL I	Other than turn signal switch LH	Off
TURN SIGNAL L	Turn signal switch LH	On
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off
TAIL LAWIP SVV	Lighting switch 1ST or 2ND	On
LILDEAM CM	Other than lighting switch HI	Off
HI BEAM SW	Lighting switch HI	On
HEAD LAMP SW 1	Other than lighting switch 2ND	Off
HEAD LAWF SW 1	Lighting switch 2ND	On
HEAD LAMP SW 2	Other than lighting switch 2ND	Off
HEAD LAWIP SW 2	Lighting switch 2ND	On
PASSING SW	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
AUTO LIGHT SW	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
FR FOG SW	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
DOOD SW DD	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
DOOD SW AC	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
DOOR SW-RR	NOTE: The item is indicated, but not monitored.	Off

Monitor Item	Condition	Value/Status
DOOR SW-RL	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-BK	NOTE: The item is indicated, but not monitored.	Off
CDL I OCK SW	Other than power door lock switch LOCK	Off
CDL LOCK SW	Power door lock switch LOCK	On
CDL UNLOCK SW	Other than power door lock switch UNLOCK	Off
CDL UNLOCK 3W	Power door lock switch UNLOCK	On
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off
KET OTE EK-SW	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
NET OTE ON-OW	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
HAZARD SW	Hazard switch is OFF	Off
	Hazard switch is ON	On
REAR DEF 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
TR/BD OPEN SW	Trunk lid opener switch OFF	Off
IN/BD OF EN SW	While the trunk lid opener switch is turned ON	On
TRNK/HAT MNTR	Trunk lid closed	Off
TRINICITAL WINTE	Trunk lid opened	On
REVERSE SW	NOTE: The item is indicated, but not monitored.	Off
DKE I OCK	LOCK button of the Intelligent Key is not pressed	Off
RKE-LOCK	LOCK button of the Intelligent Key is pressed	On
RKE-UNLOCK	UNLOCK button of the Intelligent Key is not pressed	Off
RKE-UNLOCK	UNLOCK button of the Intelligent Key is pressed	On
RKE-TR/BD	TRUNK OPEN button of the Intelligent Key is not pressed	Off
KKE-TK/DD	TRUNK OPEN button of the Intelligent Key is pressed	On
RKE-PANIC	PANIC button of the Intelligent Key is not pressed	Off
RRE-FAINIC	PANIC button of the Intelligent Key is pressed	On
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is not pressed	Off
KKL-F/W OF LIN	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
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V
OI HOAL GENOOR	Dark outside of the vehicle	Close to 0 V
REQ SW -DR	Driver door request switch is not pressed	Off
NEW OW -DK	Driver door request switch is pressed	On
REQ SW -AS	Passenger door request switch is not pressed	Off
NEW OW THO	Passenger door request switch is pressed	On
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off	-
DEO OM DD/TD	Trunk lid opener request switch is not pressed	Off	-
REQ SW -BD/TR	Trunk lid opener request switch is pressed	On	-
DI IOI I OW	Push-button ignition switch (push switch) is not pressed	Off	=
PUSH SW	Push-button ignition switch (push switch) is pressed	On	-
IGN RLY2 -F/B	NOTE: The item is indicated, but not monitored.	Off	=
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off	-
CLUCH SW	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	=
DDAKE OM 2	The brake pedal is not depressed	Off	-
BRAKE SW 2	The brake pedal is depressed	On	=
DETE/CANCL SW	Selector lever in P position (Except M/T models) The clutch pedal is depressed (M/T models)	Off	_
DETE/OANCE 3W	 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	_
01 1 1 14/14 0 0 0	Selector lever in P or N position	On	
S/L -LOCK	NOTE: The item is indicated, but not monitored.	Off	
S/L -UNLOCK	NOTE: The item is indicated, but not monitored.	Off	_
S/L RELAY-F/B	NOTE: The item is indicated, but not monitored.	Off	_
UNLK SEN -DR	Driver door is unlocked	Off	_
	Driver door is locked	On	_
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off	_
	Push-button ignition switch (push-switch) is pressed	On	_
IGN RLY1 -F/B	Ignition switch in OFF or ACC position	Off	_
	Ignition switch in ON position	On	
DETE SW -IPDM	Selector lever in any position other than P	Off	
DETE GVV -IF DIVI	Selector lever in P position	On	١
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	
O. 1114 II DIVI	Selector lever in P or N position The clutch pedal is depressed	On	_
SFT P -MET	Selector lever in any position other than P	Off	
SI I F -IVIE I	Selector lever in P position	On	=
CETN MET	Selector lever in any position other than N	Off	-
SFT N -MET	Selector lever in N position	On	-

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Monitor Item	Condition	Value/Status
	Engine stopped	Stop
ENCINE STATE	While the engine stalls	Stall
ENGINE STATE	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	NOTE: The item is indicated, but not monitored.	Off
S/L UNLK-IPDM	NOTE: The item is indicated, but not monitored.	Off
S/L RELAY-REQ	NOTE: The item is indicated, but not monitored.	Off
VEH SPEED 1	While driving	Equivalent to speed- ometer reading
VEH SPEED 2	While driving	Equivalent to speed- ometer reading
	Driver door is locked	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (60 seconds)	READY
	Driver door is unlocked	UNLOCK
	Passenger door is locked	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (60 seconds)	READY
	Passenger door is unlocked	UNLOCK
ID OK FLAG	Driver side door is open after ignition switch is turned OFF (Selector lever is in the P position except for M/T models)	Reset
	Ignition switch ON	Set
DDMT ENG CTDT	The engine start is prohibited	Reset
PRMT ENG STRT	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
KEY CW CLOT	The Intelligent Key is not inserted into key slot	Off
KEY SW -SLOT	The Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	_
CONFRM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
CONFRINTID 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
CONFIDMIDS	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
CONFIDMIDS	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
CONFIRM ID2	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
CONFIRM ID1	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
CONFIRM ID I	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done
TP 4	The ID of fourth Intelligent Key is not registered to BCM	Yet
17 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
1173	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
IF Z	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
IF I	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 DECCT EL 4	ID of front LH tire transmitter is registered	Done
ID REGST FL1	ID of front LH tire transmitter is not registered	Yet
ID DECOT ED4	ID of front RH tire transmitter is registered	Done
ID REGST FR1	ID of front RH tire transmitter is not registered	Yet
ID DECCE DD4	ID of rear RH tire transmitter is registered	Done
ID REGST RR1	ID of rear RH tire transmitter is not registered	Yet
ID DECCT DI 4	ID of rear LH tire transmitter is registered	Done
ID REGST RL1	ID of rear LH tire transmitter is not registered	Yet
A/A DNIINIC I ANAD	Tire pressure indicator OFF	Off
WARNING LAMP	Tire pressure indicator ON	On
DI 177ED	Tire pressure warning alarm is not sounding	Off
BUZZER	Tire pressure warning alarm is sounding	On

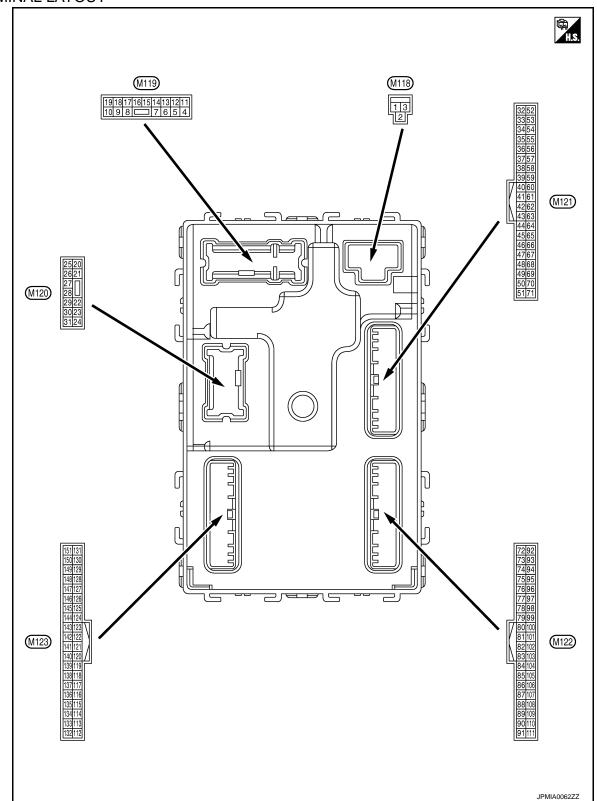
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TERMINAL LAYOUT



PHYSICAL VALUES

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description		0 - 177		Value	Α
+	-	Signal name	Input/ Output	Condition		(Approx.)	
1 (W)	Ground	Battery power supply	Input	Ignition switch (DFF	Battery voltage	Е
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	-
					np battery saver is activated. r 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	Е
5	Ground	Passenger door UN-	Cutout	Passenger	UNLOCK (Actuator is activated)	12 V	F
(P)	Ground	LOCK	Output	door	Other than UNLOCK (Actuator is not activated)	0 V	-
7	Ground	Step lamp	Output	Step lamp	ON	0 V	
(SB)	Cround	Otop lamp	Output	Otop lamp	OFF	12 V	
8	Ground	All doors, fuel lid LOCK	Output	All doors, fuel	LOCK (Actuator is activated)	12 V	ŀ
(V)	Ground			lid	Other than LOCK (Actuator is not activated)	0 V	
9	Ground	Driver door, fuel lid	Output	Driver door,	UNLOCK (Actuator is activated)	12 V	=
(G)	Ground	UNLOCK	Output	fuel lid	Other than UNLOCK (Actuator is not activated)	0 V	
11 (GR)	Ground	Battery power supply	Input	Ignition switch (DFF	Battery voltage	
13 (B)	Ground	Ground	_	Ignition switch (ON	0 V	-
					OFF	0 V	.
14		Push-button ignition				NOTE: When the illumination brightening/dimming level is in the neutral position.	N
(W)	Ground	d switch illumination Output ground		out Tail lamp	ON	10 0 2 ms	W
15	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage	
(BG)				5	ACC	0 V	-

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	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
17 (BR)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch OFF Turn signal switch RH	0 V (V) 15 10 5 0 PKID0926E 6.5 V
					Turn signal switch OFF	0 V
18 (BG)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
19		Interior room lamp		Interior room lamp	OFF	12 V
(V)	Ground	control	Output		ON	0 V
					Turn signal switch OFF	0 V
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
23		T	0.1.1	T. 11:1	OPEN (Trunk lid opener actuator is activated)	12 V
(Y)	Ground	Trunk lid open	Output	Trunk lid	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		T	<u> </u>	Trunk room	ON	0 V
(P)	Ground	Trunk room lamp	Output	lamp	OFF	12 V

	nal No. color)	Description			Condition	Value	А			
+	-	Signal name	Input/ Output		Condition	(Approx.)	\wedge			
34	Ground	Trunk room antenna	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	С			
(SB)	Glound	(-)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	E			
35	0	Trunk room antenna	Out	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	G H			
(V)	Ground	(+)	Output	Output	Output	Cuput	Output OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	J K
38	0	Rear bumper anten-	0.1	When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	W			
(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	P			

	nal No.	Description				Value	
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)	
39	Ground	Rear bumper anten-	Output	When the trunk lid opener re- quest switch is	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(W)	Clound	na (+)	Culput	operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	
47 (Y)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC	12 V 0 V	
50 (G)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (Trunk lid is closed)	(V) 15 10 5 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	Stortor roley control	Output	els)	When selector lever is not in P or N position	0 V	
(BR)	Ground	Starter relay control	Output	Ignition switch ON (M/T mod-	When the clutch pedal is depressed	Battery voltage	
				els)	When the clutch pedal is not depressed	0 V	
60	Ground	Push-button ignition	Input	Push-button ig- nition switch	Pressed	0 V	
(BR)	Oroana	switch (Push switch)	mpar	(push switch)	Not pressed	Battery voltage	
					ON (Pressed)	0 V	
61 (SB)	Ground	Trunk lid opener request switch	Input	Trunk lid open- er request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V	
		Intelligent Key warn-		Intelligent Key	Sounding	0 V	
64 (G)	Ground	ing buzzer (Engine room)	Output	warning buzzer (Engine room)	Not sounding	12 V	

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description	I		0 10	Value	А
+	-	Signal name	Input/ Output		Condition	(Approx.)	/ (
67 (GR)	Ground	Trunk lid opener switch	Input	Trunk lid open- er switch	Pressed Not pressed	(V) 15 10 5 0	ВС
72	Ground	Room antenna 2 (–)	Output	Ignition switch	When Intelligent Key is in the passenger compartment	JPMIA0011GB 11.8 V (V) 15 10 5 0 JMKIA0062GB	E F
(R)		(Center console)		OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	H
73		Room antenna 2 (+)		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 S S S S S S S S S	K
73 (G)	Ground	(Center console)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	M WCS

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	nal No. color)	Description	ı		0 100	Value					
+	-	Signal name	Input/ Output	Condition		(Approx.)					
74	Ground	Passenger door an-	Output	When the passenger door request switch is	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB					
(SB)	Ground	tenna (–)	Cutput	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					
75	Ground	Passenger door an-	Output q o iç	When the passenger door re-	senger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB				
(BR)		tenna (+)				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0063GB				
76		Driver door antenna						When the driver door request		When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(V)	Ground	Ground (-) Ou	Output	switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 1					

nal No.	Description		Condition		Value	Α
color)	Signal name	Input/ Output		Condition	(Approx.)	^
	Driver door antenna		When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 S S S S S S S S S	B C
Ground	(+)	Output	switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	E
					(V)[G
				When Intelligent Key is in the passenger compartment	10 5 0 1 1 s	Н
Ground	Room antenna 1 (–) (Instrument panel)	Output	Ignition switch OFF			
				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0	J K
					JMKIA0063GB	L
				When Intelligent Key is in the passenger compartment	(V) 15 10 5 0	M
	D		1		JMKIA0062GB	WC
Ground	(Instrument panel)	Output	OFF		(V)	0
				When Intelligent Key is not in the passenger compartment	15 10 5 0	Ρ
	Ground Ground	Ground Room antenna 1 (-) (Instrument panel) Room antenna 1 (+)	Ground Signal name Input/Output Driver door antenna (+) Ground Room antenna 1 (-) (Instrument panel) Ground Room antenna 1 (+) Output Output	Ground Room antenna 1 (-) (Instrument panel) Ground Room antenna 1 (+) Output Ignition switch OFF	Ground Room antenna 1 (+) (Instrument panel) Ground Room antenna 1 (+) (Instrument panel)	Ground Room antenna 1 (-) (Instrument panel) Ground Room antenna 1 (+) Ground Room antenna 1 (-) (Instrument panel) Ground Room antenna 1 (+) Ground Roo

	nal No. color)	Description	I		O contract	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
81 (W)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
82 (R)	Ground	Ignition relay [Fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V 12 V
83	Ground	Remote keyless entry		During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB
(Y)	Clound	receiver communication	Output	When operating gent Key	either button on the Intelli-	(V) 15 10 5 0 1 ms JMKIA0065GB
			Input		All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
87 (Y)	Ground	Combination switch INPUT 5		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

	nal No.	Description				Value	٨
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)	А
					All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	B C
90		Combination switch		Combination	Lighting switch HI (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	E
88 (BG)	Ground	INPUT 3	Input	switch	Lighting switch 2ND (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB	G H
					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
90 (P)	Ground	CAN-L	Input/ Output		_	_	
91 (L)	Ground	CAN-H	Input/ Output		_	_	M
92 (LG)	Ground	Key slot illumination	Output	Key slot illumi- nation	OFF	12 V (V) 15 10 5 0 1 s JPMIA0015GB 6.5 V	O P
93 (V)	Ground	ON indicator lamp	Output	Ignition switch	ON OFF (LOCK indicator is not illuminated) ON	0 V Battery voltage 0 V	

	nal No.	Description				Value
+ (VVire	color)	Signal name	Input/ Output		Condition	(Approx.)
95	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
(BG)	Ground	Acc relay control	Output	ignition switch	ACC or ON	12 V
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output		_	12 V
		Selector lever P posi-			P position	0 V
00		tion switch (A/T mod- els)		Selector lever	Any position other than P	12 V
99 (R)	Ground	ASCD clutch switch	Input	ASCD clutch	OFF (Clutch pedal is depressed)	0 V
		(M/T models)		switch	ON (Clutch pedal is not depressed)	12 V
				Passenger Input door request	ON (Pressed)	0 V
100 (Y)	Ground	Passenger door request switch	Input		OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
					ON (Pressed)	0 V
101 (P)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
102	Ground	Blower fan motor re-	Output	Ignition switch	OFF or ACC	0 V
(BG)	Giouria	lay control	Output	ignition switch	ON	12 V
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch (DFF	12 V

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value	А
(Wire +	color)	Signal name	Input/ Output		Condition	(Approx.)	А
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB	B C D
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB	E F
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	G H I
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB	J K L
					Front washer switch ON	(V) 15 10 5 0 JPMIA0039GB 1.3 V	M WCS

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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 switch	Lighting switch AUTO (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB
(R)	Sissand	INPUT 4			Lighting switch 1ST (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB
					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

	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	С
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB	E F
109 (W) Ground Combination sw INPUT 2	Combination switch INPUT 2		Combination switch (Wiper volume dial 4)	1	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	G H	
					Front wiper switch INT/ AUTO	(V) 15 10 5 0 2 ms JPMIA0038GB	J K
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V	W
					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
(Wire	color)	Signal name	Input/ Output		Condition	value (Approx.)
112 (BR)	Ground	Rain sensor serial link	Input/ Output	Ignition switch (DN	(V) 15 10 5 0 10ms JPMIA0156GB 8.7 V
113 (G)	Ground	Optical sensor	Input	Ignition switch	When bright outside of the vehicle When dark outside of the	Close to 5 V
(0)					vehicle	Close to 0 V
114	Ground	Clutch interlock	Input	Clutchinterlock	OFF (Clutch pedal is not depressed)	0 V
(R)	Ground	switch	Прис	switch	ON (Clutch pedal is depressed)	Battery voltage
116 (SB)	Ground	Stop lamp switch 1	Input		_	Battery voltage
		Stop lamp switch 2		Stop lamp	OFF (Brake pedal is not depressed)	0 V
118	Ground		- Input	switch	ON (Brake pedal is depressed)	Battery voltage
(BR)	Ground				h OFF (Brake pedal is not ICC brake hold relay OFF	0 V
		(With ICC)			h ON (Brake pedal is de- brake hold relay ON	Battery voltage
119 (GR)	Ground	Driver side door lock assembly (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V
					UNLOCK status (Unlock switch sensor ON)	0 V
121	Ground	Key slot switch	Input	When the Intellig	gent Key is inserted into key	12 V
(SB)	Giodila	nay siot switch	прис	When the Intelli- key slot	gent Key is not inserted into	0 V
123	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
(W)	Ciodila	-SIT IOSUBUIC	input	-gindon switch	ON	Battery voltage

	nal No.	Description				Value	А
+	- COIOI)	Signal name	Input/ Output		Condition	(Approx.)	
124 (BG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB	В
					ON (Door open)	11.8 V 0 V	D
129 (BG)	Ground	Trunk lid opener can- cel switch	Input	Trunk lid open- er cancel switch	CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB	E F G
					ON	1.1 V 0 V	O
132 (LG)	Ground	Power window switch and R.H.T. control unit communication	Input/ Output	Ignition switch C	DN	(V) 15 10 5 0 10 ms JPMIA0013GB	H I J
				Ignition switch C		12 V	
133 (Y)	Ground	Push-button ignition switch illumination	Output	Push-button ig- nition switch il- lumination	ON (Tail lamps OFF) ON (Tail lamps ON)	9.5 V NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level. (V) 15 10 5 0	K L M
134	Ground	LOCK indicator lamp	Output	LOCKindicator	OFF OFF	JPMIA0159GB 0 V Battery voltage	wcs
(LG) 137		Receiver and sensor	-	lamp	ON	0 V	
(BG) 138 (Y)	Ground	ground Receiver and sensor power supply	Input Output	Ignition switch C	OFF ACC or ON	0 V 0 V 5.0 V	Р

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
139	Ground	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 ** 0.2s
(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	Input	Selector lever	P or N position	12 V
(GR)	Orouna	position	mpat	00100101 10101	Except P and N positions	0 V
					ON	0 V
141 (R)	Ground	Security indicator lamp	Output	Security indicator lamp	Blinking	(V) 15 10 5 0 1 1 s JPMIA0014GB
					OFF	12 V
					All switches OFF	0 V
					Lighting switch 1ST	
				Combination	Lighting switch HI	(V)
142	Ground	Combination switch	Output	Combination switch	Lighting switch 2ND	15
(BR)	Ground	OUTPUT 5	Output	(Wiper volume dial 4)	Turn signal switch RH	0
						10.7 V
					All switches OFF (Wiper volume dial 4)	0 V
					Front wiper switch HI (Wiper volume dial 4)	(V) 15
143 (V)	Ground	Combination switch OUTPUT 1	Output	Combination switch	Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 2 Wiper volume dial 3 Wiper volume dial 6 Wiper volume dial 7	15 10 5 0 2 ms JPMIA0032GB

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description				Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper volume dial 4)	0 V
					Front washer switch ON (Wiper volume dial 4)	(V)
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 5 Wiper volume dial 6	10.7 V
					All switches OFF	0 V
				l A	Front wiper switch INT/ AUTO	(V)
145	Cravind	Combination switch	Outnut	Combination switch	Front wiper switch LO	15
(L)	Ground	OUTPUT 3	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)
146	Ground	Combination switch	Output	switch	Lighting switch PASS	10
(SB)		OUTPUT 4		(Wiper volume dial 4)	Turn signal switch LH	0
150 (R)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 5 0 JPMIA0011GB 11.8 V
					ON (Door open)	0 V
151	Ground	Rear window defog-	Output	Rear window	Active	0 V
(G)		ger relay control		defogger	Not activated	Battery voltage

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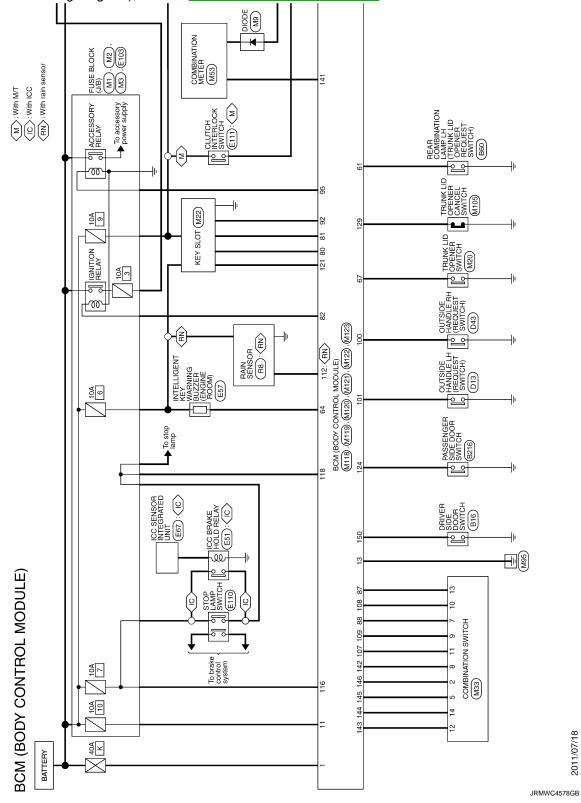
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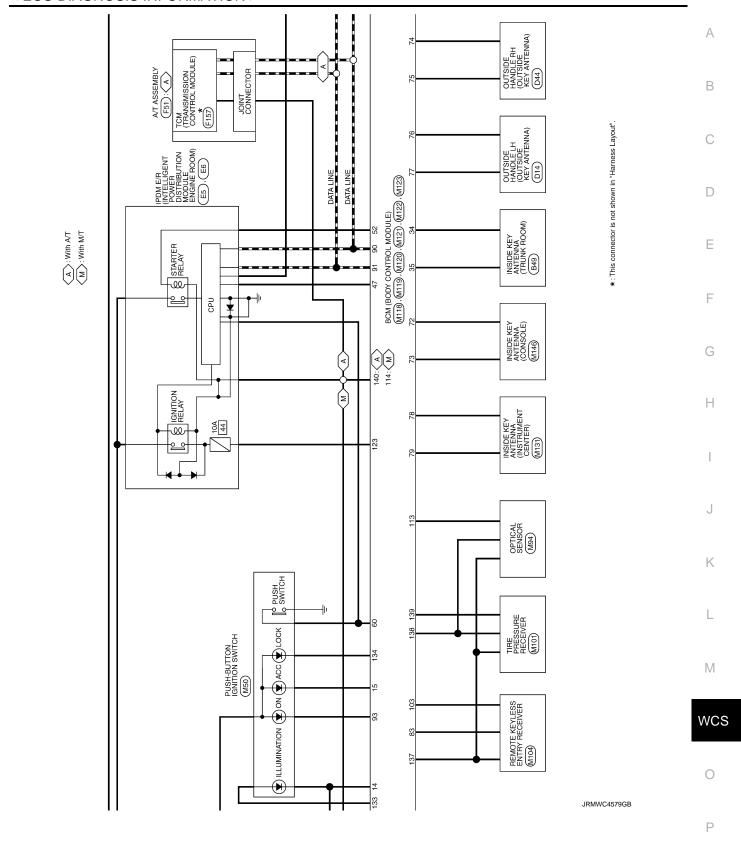
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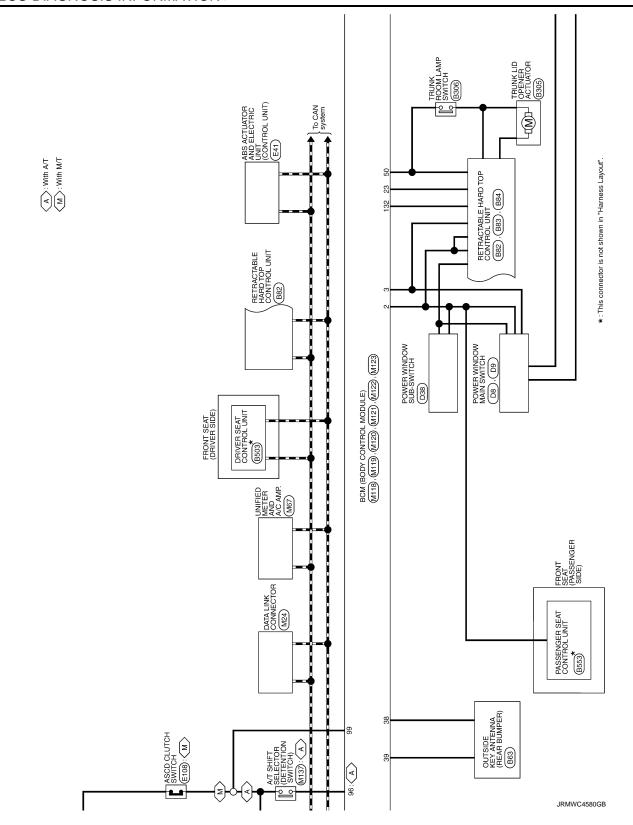
Wiring Diagram - BCM -

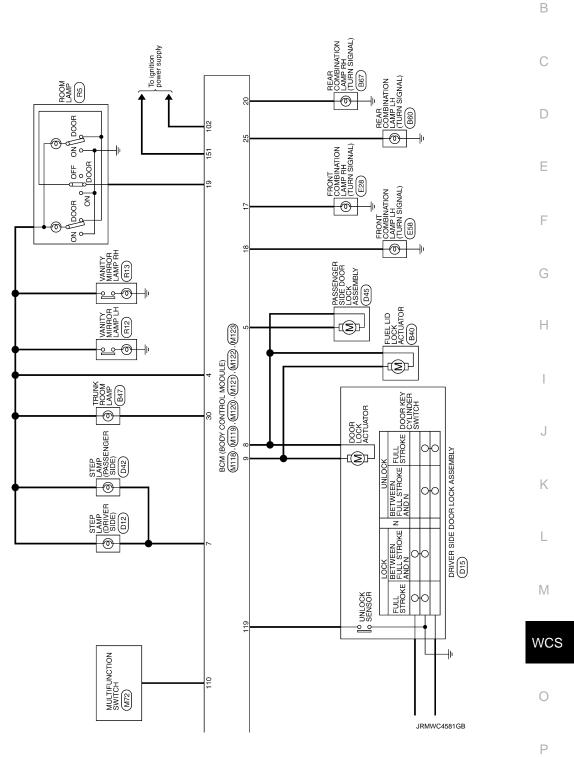
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For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".









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Fail-safe INFOID:0000000008788794

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
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 $ON \rightarrow OFF$
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
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)
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)
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
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)

DTC Inspection Priority Chart

INFOID:0000000008788795

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	Λ
	B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED	В
	 B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP/CLUTCH SW 	С
4	 B2605: PNP/CLUTCH SW B2608: STARTER RELAY B260A: IGNITION RELAY B260F: ENG STATE SIG LOST B2614: BCM 	D
	B2615: BCMB2616: BCMB2617: BCM	Е
	 B2618: BCM B261A: PUSH-BTN IGN SW B261E: VEHICLE TYPE B26E8: CLUTCH SW 	F
	 B26EA: KEY REGISTRATION C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED 	G
	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL	Н
5	 C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RL C1716: [PRESSDATA ERR] FL 	I
	 C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RL C1734: CONTROL UNIT 	J
6	B2621: INSIDE ANTENNA B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA	K

DTC Index

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 <u>WCS-17, "COM-MON ITEM"</u>.

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-36
U1010: CONTROL UNIT (CAN)	_	_	_	_	BCS-37
U0415: VEHICLE SPEED	_	_	_	_	BCS-38
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-40

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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
B2191: DIFFERENCE OF KEY	×	_	_	_	SEC-43
B2192: ID DISCORD BCM-ECM	×	_	_	_	<u>SEC-44</u>
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-46
B2195: ANTI-SCANNING	×	_	_	_	<u>SEC-47</u>
B2553: IGNITION RELAY	_	×	_	_	PCS-47
B2555: STOP LAMP	_	×	_	_	<u>SEC-48</u>
B2556: PUSH-BTN IGN SW	_	×	×	_	<u>SEC-50</u>
B2557: VEHICLE SPEED	×	×	×	_	<u>SEC-52</u>
B2560: STARTER CONT RELAY	×	×	×	_	SEC-53
B2562: LOW VOLTAGE	_	×	_	_	BCS-39
B2601: SHIFT POSITION	×	×	×	_	SEC-54
B2602: SHIFT POSITION	×	×	×	_	SEC-57
B2603: SHIFT POSI STATUS	×	×	×	_	SEC-59
B2604: PNP/CLUTCH SW	×	×	×	_	SEC-62
B2605: PNP/CLUTCH SW	×	×	×	_	SEC-64
B2608: STARTER RELAY	×	×	×	_	SEC-66
B260A: IGNITION RELAY	×	×	×	_	PCS-49
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-68
B2614: BCM	_	×	×	_	PCS-51
B2615: BCM	_	×	×	_	PCS-54
B2616: BCM	_	×	×	_	PCS-57
B2617: BCM	×	×	×	_	<u>SEC-72</u>
B2618: BCM	×	×	×	_	PCS-60
B261A: PUSH-BTN IGN SW	_	×	×	_	PCS-61
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	SEC-74
B2621: INSIDE ANTENNA	_	×	_	_	DLK-61
B2622: INSIDE ANTENNA	_	×	_	_	DLK-63
B2623: INSIDE ANTENNA	_	×	_	_	DLK-65
B26E8: CLUTCH SW	×	×	×		<u>SEC-69</u>
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	SEC-71
C1704: LOW PRESSURE FL	_	_	_	×	
C1705: LOW PRESSURE FR	_	_	_	×	\\/T_24
C1706: LOW PRESSURE RR	_	_	_	×	<u>WT-21</u>
C1707: LOW PRESSURE RL	_	_	_	×	
C1708: [NO DATA] FL	_	_	_	×	
C1709: [NO DATA] FR	_	_	_	×	<u>WT-23</u>
C1710: [NO DATA] RR			_	×	<u> </u>
C1711: [NO DATA] RL	_	_	_	×	

< 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
C1716: [PRESSDATA ERR] FL	_	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	_	×	WT-26
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u> </u>
C1719: [PRESSDATA ERR] RL	_	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	_	×	WT-27
C1734: CONTROL UNIT	_	_	_	×	<u>WT-28</u>

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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:000000008157676

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

Diagnosis Procedure

INFOID:0000000008157677

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

- Connect the CONSULT.
- Select the "Data Monitor" of the "METER/M&A" and check the "PKB SW" monitor value. Refer to MWI-59, "Component Function Check".

Is the inspection result normal?

YES >> Replace combination meter.

NO >> GO TO 2.

2.CHECK PARKING BRAKE SWITCH SIGNAL CIRCUIT

Check the parking brake switch signal circuit. Refer to MWI-59, "Diagnosis Procedure (A/T models)" (A/T models) or MWI-60, "Diagnosis Procedure (M/T models)" (M/T models).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK PARKING BRAKE SWITCH

Check the parking brake switch. Refer to BRC-86, "Component Inspection".

Is the inspection result normal?

YES >> Replace the combination meter.

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

THE LIGHT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >	
THE LIGHT REMINDER WARNING DOES NOT SOUND	А
Description	INFOID:0000000008157678
Light reminder warning chime does not sound even though headlamp is illuminated.	В
Diagnosis Procedure	INFOID:0000000008157679
1. CHECK COMBINATION SWITCH (LIGHT SWITCH) OPERATION	С
Check that the headlamps operate normally by operating the combination switch (light switch).	
<u>Do they operate normally?</u> YES >> GO TO 2.	D
NO >> Refer to EXL-125, "Diagnosis Procedure".	
2.CHECK FRONT DRIVER SIDE DOOR SWITCH SIGNAL CIRCUIT	E
Check the front driver side door switch signal circuit. Refer to <u>DLK-70. "Diagnosis Procedure"</u> . <u>Is the inspection result normal?</u>	
YES >> GO TO 3.	F
NO >> Repair harness or connector.	
3. CHECK FRONT DRIVER SIDE DOOR SWITCH Check the front driver side door switch. Befor to DLK 71. "Component Inspection"	G
Check the front driver side door switch. Refer to DLK-71 , "Component Inspection". Is the inspection result normal?	
YES >> Replace the BCM. Refer to <u>BCS-79</u> , "Removal and Installation". NO >> Replace the front driver side door switch. Refer to <u>DLK-258</u> , "Removal and Installation".	H
NO >> Replace the nont unverside door switch. Refer to <u>DER-236. Removal and histalian</u>	<u>011</u> .
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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 INFOID:000000008157680

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

Diagnosis Procedure

INFOID:0000000008157681

1. CHECK SEAT BELT WARNING LAMP

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

Seat belt fastened : OFF Seat belt unfastened : ON

Is the inspection result normal?

YES >> Replace the BCM.

NO >> GO TO 2.

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

- 1. Connect the CONSULT.
- Select the "Data Monitor" of the "METER/M&A" and check the "BUCKLE SW" monitor value. Refer to WCS-24, "Component Function Check".

Is the inspection result normal?

YES >> Replace the combination meter.

NO >> GO TO 3.

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

Check the seat belt buckle switch (driver side) signal circuit. Refer to WCS-24, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 4.

NO

NO >> Repair harness or connector.

4. CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

Check the seat belt buckle switch (driver side). Refer to WCS-25, "Component Inspection".

Is the inspection result normal?

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

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

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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.

Precaution for Battery Service

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

Service Procedure Precautions for Models with a Pop-up Roll Bar

WARNING:

Always observe the following items for preventing accidental activation.

- Risk of passenger injury or death may increase if the pop-up roll bar does not deploy during a roll over collision. In order to reduce the chance of an incident where the pop-up roll bar is inoperative, all maintenance must be performed by a NISSAN or INFINITI dealer.
- Before removing and installing the pop-up roll bar component parts and harness, always turn the
 ignition switch OFF, disconnect the battery negative terminal, and wait for 3 minutes or more. (The
 purpose of this operation is to discharge electricity that is accumulated in the auxiliary power supply
 circuit in the air bag diagnosis sensor unit.)
- When repairing, removing, and installing a pop-up roll bar, always refer to SRS AIR BAG and SRS AIR BAG CONTROL warnings in the Service Manual.

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