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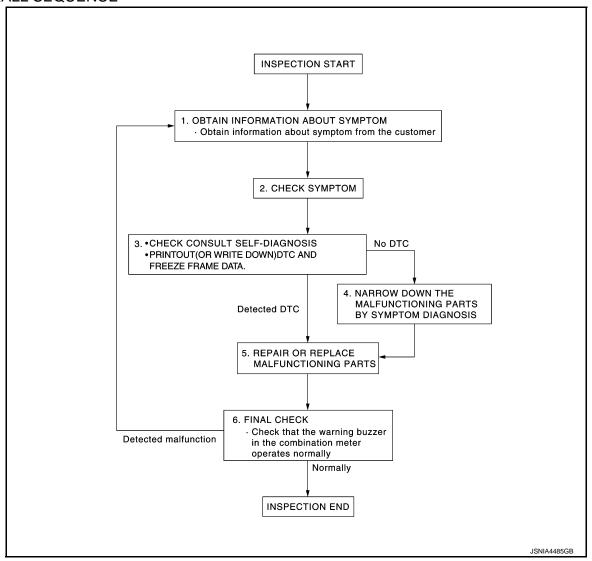
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BASIC INSPECTION

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 if any other malfunctions are present.

>> GO TO 3.

3. CHECK CONSULT SELF-DIAGNOSIS RESULTS

Connect CONSULT and perform self-diagnosis. Refer to <u>MWI-40, "DTC Index"</u>.

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Revision: 2013 February WCS-3 2012 ROGUE

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

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

If any DTC detected?

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

4. NARROW DOWN THE 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:0000000007352893 ABS actuator and electric unit (control unit) communication Key switch signal line Intelligent Key unit Key switch Lighting switch Combination meter position signal Combination switch (Lighting switch) всм Buzzer Front door switch (driver side) signal Front door switch (driver side) Seat belt buckle switch (driver side) signal Seat belt buckle switch (driver side) Parking brake switch signal Parking brake switch JSNIA0663GE

WARNING CHIME SYSTEM: System Description

The buzzer for the warning chime system is integrated in the combination meter. Combination meter sounds warning buzzer in the following conditions.

- When receiving the buzzer output signal (light reminder warning chime, key warning chime, seat belt reminder warning chime) from BCM.
- · When it judges the necessity of buzzer output according to vehicle speed signal received from ABS actuator and electric unit (control unit) with CAN communication and parking brake switch signal received from parking brake switch.
- · When receiving the buzzer output signal (Intelligent Key warning chime) from Intelligent Key unit. For the further details, refer to DLK-32, "KEY REMINDER FUNCTION: System Description".

WARNING CHIME FUNCTION LIST

Warning functions	Signal name	Warning chime judge unit
Light reminder warning chime	Ignition switch signalLighting switch position signalFront door switch signal (driver side)	
Key warning chime	 Ignition switch signal Key switch signal Front door switch signal (driver side)	BCM
Seat belt reminder warning chime	Seat belt buckle switch (driver side) signal Ignition switch signal	

WCS-5 Revision: 2013 February **2012 ROGUE**

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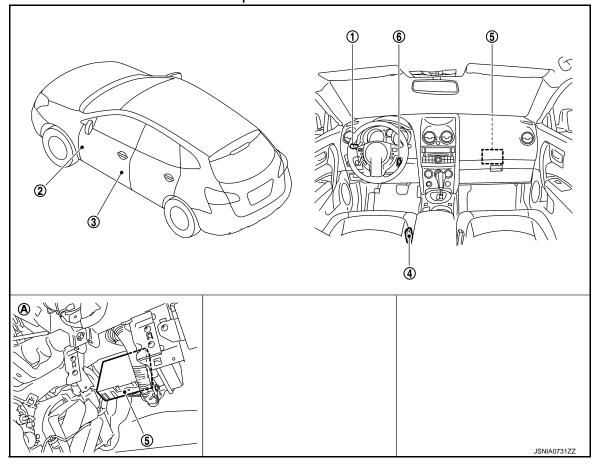
WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

Warning functions	Signal name	Warning chime judge unit
Parking brake release warning chime	Vehicle speed signalParking brake switch signal	Combination meter
Intelligent Key warning chime	Refer to DLK-32, "KEY REMINDER FUNC-TION: System Description".	Intelligent Key unit

WARNING CHIME SYSTEM : Component Parts Location

INFOID:0000000007352895



- 1. Combination switch (Lighting switch)
- 4. Seat belt buckle switch (driver side)
- A. Over the glove box
- 2. Parking brake switch
- 5. BCM

- 3. Front door switch (driver side)
- 6. Key switch

WARNING CHIME SYSTEM : Component Description

INFOID:0000000007352896

Unit	Description	
Combination meter	 Receives the buzzer output signal from BCM and Intelligent Key unit with the CAN communication line and sounds the buzzer. Judges the parking brake release warning according to the vehicle speed signal received from the ABS actuator and electric unit (control unit) via CAN communication and the parking brake switch signal from parking brake switch and sounds the warning buzzer. 	
BCM	Transmits signals received from each unit to the combination meter with the CAN communication line.	
ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal to combination meter with the CAN communication line.	
Seat belt buckle switch (driver side)	Transmits the seat belt buckle switch (driver side) signal to the combination meter.	

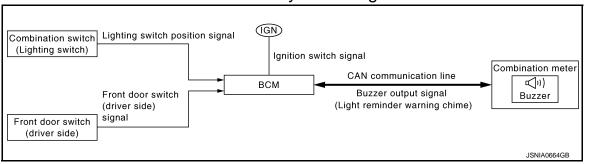
WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

Unit	Description
Combination switch (Lighting switch)	Transmits the lighting switch position signal to BCM.
Front door switch (driver side)	Transmits the front door switch (driver side) signal to BCM.
Key switch	Transmits the key switch signal to BCM and Intelligent Key unit.
Parking brake switch	Refer to WCS-25, "Description".

LIGHT REMINDER WARNING CHIME

LIGHT REMINDER WARNING CHIME: System Diagram



LIGHT REMINDER WARNING CHIME: System Description

INFOID:0000000007352898

INFOID:0000000007352897

DESCRIPTION

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

- BCM detects ignition switch except in ON or START position, front door switch (driver side) ON, and lighting switch in 1ST or 2ND position. And then transmits buzzer output signal (light reminder warning chime) to combination meter with CAN 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 at 1ST or 2ND position
- Ignition switch except at ON or START
- Front door switch (driver side) ON

WARNING CANCEL CONDITIONS

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

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

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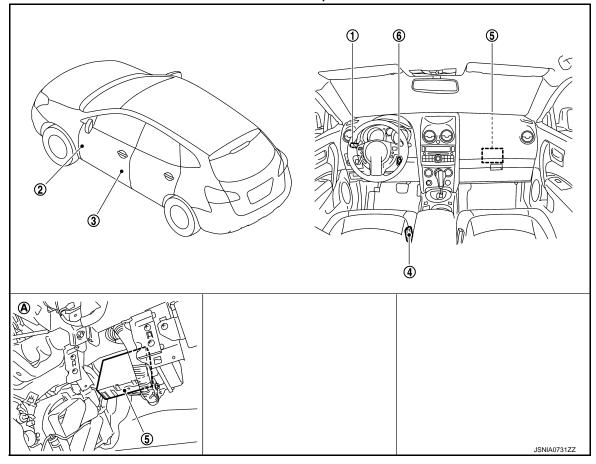
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LIGHT REMINDER WARNING CHIME: Component Parts Location

INFOID:0000000007547352



- 1. Combination switch (Lighting switch)
- 4. Seat belt buckle switch (driver side)
- A. Over the glove box
- 2. Parking brake switch
- 5. BCM

- 3. Front door switch (driver side)
- 6. Key switch

LIGHT REMINDER WARNING CHIME: Component Description

INFOID:000000000735290

Unit	Description
Combination meter	Receives a buzzer output signal from the BCM and sounds the buzzer.
BCM	Judges light reminder warning according to the front door switch (driver side) signal from the front door switch (driver side) and the lighting position signal from the combination switch (lighting switch) and transmits the buzzer output signal to the combination meter via CAN communication.
Combination switch (Lighting switch)	Transmits the lighting switch position signal to BCM.
Front door switch (driver side)	Transmits the front door switch (driver side) signal to BCM.

SEAT BELT REMINDER WARNING CHIME

WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

SEAT BELT REMINDER WARNING CHIME: System Diagram

INFOID:0000000007352901

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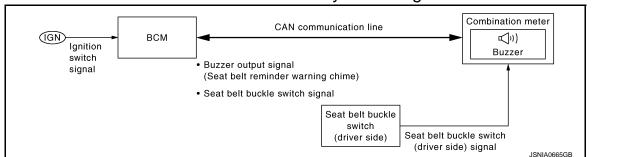
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SEAT BELT REMINDER WARNING CHIME: System Description

INFOID:0000000007352902

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 combination meter 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 combination meter with CAN 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 belt buckle switch (driver side) is ON (driver seat belt not fastened)

WARNING CANCEL CONDITIONS

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

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

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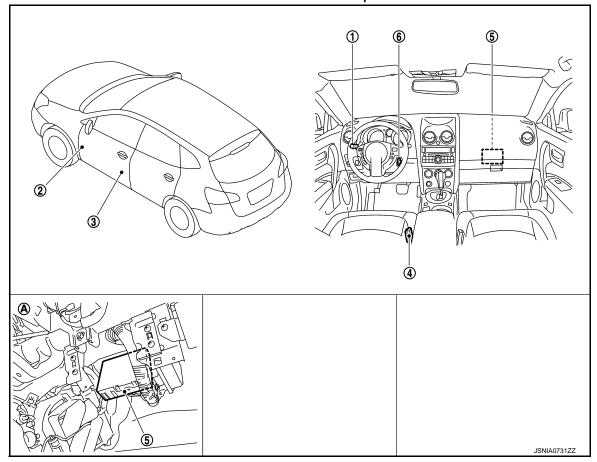
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SEAT BELT REMINDER WARNING CHIME : Component Parts Location

INFOID:000000000754735



- 1. Combination switch (Lighting switch)
- 4. Seat belt buckle switch (driver side)
- A. Over the glove box
- 2. Parking brake switch
- 5. BCM

- 3. Front door switch (driver side)
- 6. Key switch

SEAT BELT REMINDER WARNING CHIME : Component Description

INFOID:0000000007352904

Unit	Description	
Combination meter	Receives a buzzer output signal from the BCM and sounds the buzzer.	
ВСМ	Judges the seat belt warning condition from the seat belt buckle switch (driver side) signal received from the combination meter and transmits a buzzer output signal to the combination meter via CAN communication line if necessary.	
Seat belt buckle switch (driver side)	Refer to WCS-23, "Description".	

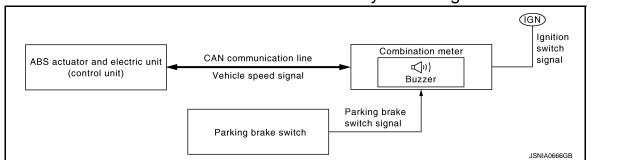
PARKING BRAKE RELEASE WARNING CHIME

WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

PARKING BRAKE RELEASE WARNING CHIME: System Diagram





PARKING BRAKE RELEASE WARNING CHIME: System Description

INFOID:0000000007352906

DESCRIPTION

Parking brake release warning chime judges the remaining parking brake according to the vehicle speed signal received from the ABS actuator and electric unit (control unit) via CAN communication and the parking brake switch signal from parking brake switch to sound the warning buzzer.

WARNING OPERATION CONDITIONS

IF all of the following conditions are fulfilled.

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

WARNING CANCEL CONDITIONS

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

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

PARKING BRAKE RELEASE WARNING CHIME: Component Parts Location

INFOID:0000000007547354 1 6 (5) Ø 4

WCS-11 Revision: 2013 February **2012 ROGUE**

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WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

- 1. Combination switch (Lighting switch)
- 2. Parking brake switch
- 3. Front door switch (driver side)

- 4. Seat belt buckle switch (driver side)
- BCM

6. Key switch

A. Over the glove box

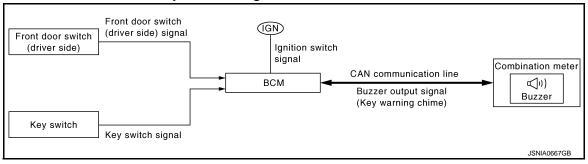
PARKING BRAKE RELEASE WARNING CHIME: Component Description INFOID-000000007352908

Unit	Description
Combination meter	Judges the remaining parking brake according to the vehicle speed signal received from the ABS actuator and electric unit (control unit) via CAN communication and the parking brake switch signal from parking brake switch and sounds the warning buzzer.
ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal to the combination meter via CAN communication.
Parking brake switch	Refer to WCS-25, "Description".

KEY WARNING CHIME

KEY WARNING CHIME: System Diagram

INFOID:0000000007352909



KEY WARNING CHIME: System Description

INFOID:0000000007352910

DESCRIPTION

With the key inserted into the ignition key cylinder, and the ignition switch except in ON or START position, when driver door open, the key warning chime will sound.

- BCM detects key inserted into the ignition key cylinder, ignition switch except in ON or START position, front door switch (driver side) ON. And then transmits buzzer output signal (Key warning chime) to combination meter with CAN communication line.
- When combination meter receives buzzer output signal (Key warning chime), it sounds the buzzer.

NOTE:

With Intelligent Key system: refer to DLK-32, "KEY REMINDER FUNCTION: System Description".

WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled.

- Key inserted into the ignition key cylinder (Key switch signal ON)
- Ignition switch except in ON or START (Ignition switch signal OFF)
- Front door switch (driver side) open [Front door switch (driver side) signal ON]

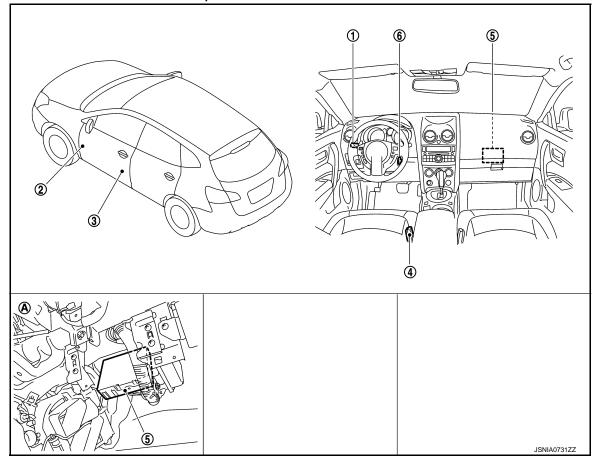
WARNING CANCEL CONDITIONS

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

- Key removed from key cylinder (Key switch signal OFF)
- Ignition switch in ON or START (Ignition switch signal ON)
- Front door switch (driver side) close [Front door switch (driver side) signal OFF]

KEY WARNING CHIME: Component Parts Location

INFOID:0000000007547355



- Combination switch (Lighting switch)
- Seat belt buckle switch (driver side)
- A. Over the glove box
- Parking brake switch
- 5. BCM

- 3. Front door switch (driver side)
- 6. Key switch

KEY WARNING CHIME: Component Description

INFOID:0000000007352912

Unit	Description
Combination meter	Received a buzzer output signal from the BCM and sounds the buzzer.
BCM	Judges key warning according to the door switch signal from the front door switch (driver side) and the key switch signal from the key switch and transmits the buzzer output signal to the combination meter via CAN communication.
Front door switch (driver side)	Transmits the door switch signal to BCM.
Key switch	Transmits the key switch signal to BCM and Intelligent Key unit.

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WCS-13 Revision: 2013 February **2012 ROGUE**

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< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (METER)

CONSULT Function

INFOID:0000000007547356

CONSULT APPLICATION ITEMS

CONSULT can perform the following diagnosis modes via CAN communication and the combination meter.

System	Diagnosis mode	Description
	Self Diagnostic Result	The combination meter checks the conditions and displays memorized errors.
METER/M&A	Data Monitor	Displays the combination meter input/output data in real time.
	Warning History	Lighting history of the warning lamp and indicator lamp can be checked.

SELF DIAG RESULT

Refer to MWI-40, "DTC Index".

DATA MONITOR

Display Item List

X: Applicable

	MAIN		
Display item [Unit]	SIGNALS	Description	
SPEED METER [km/h]	×	Value of vehicle speed signal received from ABS actuator and electric unit (control unit) via CAN communication. NOTE: 655.35 is displayed when the malfunction signal is received.	
SPEED OUTPUT [km/h]	Х	Vehicle speed signal value transmitted to other units via CAN communication. NOTE: 655.35 is displayed when the malfunction signal is received.	
ODO OUTPUT [km/h or mph]		Odometer signal value transmitted to other units via CAN communication.	
TACHO METER [rpm]	Х	Value of the engine speed signal received from ECM via CAN communication. 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 is received from ECM via CAN of munication. NOTE: 215 is displayed when the malfunction signal is input.	
ABS W/L [On/Off]		Status of ABS warning lamp detected from ABS warning lamp signal is received from ABS actuator and electric unit (control unit) via CAN communication.	
VDC/TCS IND [On/Off]		Status of VDC OFF indicator lamp detected from VDC OFF indicator lamp signal is received from ABS actuator and electric unit (control unit) via CAN communication.	
SLIP IND [On/Off]		Status of VDC warning lamp detected from VDC warning lamp signal received from ABS actuator and electric unit (control unit) via CAN communication.	
BRAKE W/L [On/Off]		Status of brake warning lamp detected from brake warning lamp signal is received from ABS actuator and electric unit (control unit) via CAN communication. 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 open warning detected from door switch signal received from BCM via CAN communication.	
TRUNK/GLAS-H [Off]		This item is displayed, but cannot be monitored.	
HI-BEAM IND [On/Off]		Status of high beam indicator lamp detected from high beam request signal is received from BCM via CAN communication.	

< SYSTEM DESCRIPTION >

Display item [Unit] MAIN SIGNALS		Description		
TURN IND [On/Off]		Status of turn indicator lamp detected from turn indicator signal is received from BCM via CAN communication.		
FR FOG IND [On/Off]		This item is displayed, but cannot be monitored.		
RR FOG IND [Off]		This item is displayed, but cannot be monitored.		
LIGHT IND [On/Off]		Status of position lamp indicator lamp detected from position light request signal is received from BCM via CAN communication.		
OIL W/L [On/Off]		Status of oil pressure warning lamp detected from oil pressure switch signal is received from BCM via CAN communication.		
MIL [On/Off]		Status of malfunction indicator (Yellow) detected from malfunctioning indicator signal is received from ECM via CAN communication.		
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 detected from ASCD status signal is received from ECM via CAN communication.		
SET IND [On/Off]		Status of SET indicator detected from ASCD status signal is received from ECM via CAN communication.		
O/D OFF IND [On/Off]		Status of OD OFF indicator lamp detected from OD OFF indicator signal is received from TCM via CAN communication.		
ATC/T-AMT W/L [Off]		This item is displayed, but cannot be monitored.		
ATF TEMP W/L [Off]		This item is displayed, but cannot be monitored.		
CVT IND [Off]		This item is displayed, but cannot be monitored.		
4WD W/L [On/Off]		Status of AWD warning lamp judged from AWD warning lamp signal received from AWD control unit with CAN communication line.		
4WD LOCK IND [On/Off]		Status of AWD lock indicator lamp judged from mode lamp signal received from AWD control unit with CAN communication line.		
FUEL W/L [On/Off]		Low fuel warning status detected by the identified fuel level.		
WASHER W/L [On/Off]		Status of low washer fluid warning judged from washer level switch input to combination meter.		
AIR PRES W/L [On/Off]		Status of low tire pressure warning judged from TPMS malfunction warning lamp signal received from BCM with CAN communication line.		
KEY G/Y W/L [On/Off]		Status of Intelligent Key system malfunction detected from KEY/LOCK warning request signal is received from BCM via CAN communication.		
KEY R W/L [Off]		This item is displayed, but cannot be monitored.		
KEY KNOB W/L [Off]		This item is displayed, but cannot be monitored.		
EPS W/L [On/Off]		Status of EPS warning lamp detected from EPS warning lamp signal is received from EPS control unit via CAN communication.		
DDS [*] W/L [Off]		This item is displayed, but cannot be monitored.		
SPORT MODE IND [On/Off]		Status of SPORT mode indicator lamp detected from SPORT mode switch signal is received from ECM via CAN communication.		
DPF W/L [Off]		This item is displayed, but cannot be monitored.		

< SYSTEM DESCRIPTION >

Display item [Unit] M. SIGI		Description	
TRAILER IND [Off]		This item is displayed, but cannot be monitored.	
SHIFT IND [P, R, N, D, L, M1, M2, M3, M4, M5, M6]		Status of shift position indicator judged from shift position signal received from TCM with CAN communication line.	
O/D OFF SW [On/Off]		Status of overdrive control switch.	
M RANGE SW [On/Off]		Status of manual mode switch.	
NM RANGE SW [On/Off]		Status of non-manual mode switch.	
AT SFT UP SW [On/Off]		Status of manual mode shift up switch.	
AT SFT DWN SW [On/Off]		Status of manual mode shift down switch.	
ST SFT UP SW [On/Off]		Status of paddle shifter shift up switch.	
ST SFT DWN SW [On/Off]		Status of paddle shifter shift down switch.	
A/C LOW TEMP [Off]		This item is displayed, but cannot be monitored.	
COMP F/B SIG [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.	
A/C AMP CONN [On/Off]		Status of A/C auto amp. connection recognition signal.	
DISTANCE [km]		Value of distance to empty calculated by combination meter.	
OUTSIDE TEMP [°C or °F]		Ambient temperature value converted from ambient sensor signal received from ambient sensor. NOTE: This may not match with the temperature value indicated on the information display. (Because the information display value is a corrected value from the ambient sensor input value.)	
FUEL LOW SIG [On/Off]		Status of fuel level low warning signal to output to AV control unit via CAN communication.	
SPORT MODE SW [On/Off]		Status of SPORT mode switch.	
BUZZER [On/Off]	Х	Buzzer status (in the combination meter) is detected from the buzzer output signs received from each unit via CAN communication and the warning output condition of the combination meter.	
ASCD SPD BLNK [Off]		This item is displayed, but cannot be monitored.	
ASCD STATUS [Off]		This item is displayed, but cannot be monitored.	
ASCD REQ SPD [Off]		This item is displayed, but cannot be monitored.	

^{*:} DDS (hill descent control)

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< SYSTEM DESCRIPTION >

NOTE:

Some items are not available according to vehicle specification.

WARNING HISTORY

- Stores histories when warning/indicator lamp is turned on.
- "WARNING HISTORY" indicates the "TIME" when the warning/ indicator lamp is turned on.
- The "TIME" above is:
- 0: The condition that the warning/indicator lamp has been turned on 1 or more times after starting the engine and waiting for 30 seconds.
- 1 39: The number of times the engine was restarted after the 0 condition.
- NO WARNING HISTORY: Stores NO (0) turning on history of warning/indicator lamp.

NOTE:

- WARNING HISTORY is not stored for approximately 30 seconds after the engine starts.
- Brake warning lamp does not store any history when the parking brake is applied or the brake fluid level gets low.

Display Item

Display item	Description
ABS W/L	Lighting history of ABS warning lamp.
VDC/TCS IND	Lighting history of VDC OFF indicator lamp.
SLIP IND	Lighting history of VDC warning lamp.
BRAKE W/L	Lighting history of brake warning lamp.
DOOR W/L	Lighting history of door open warning.
OIL W/L	Lighting history of oil pressure warning lamp.
C-ENG W/L	Lighting history of malfunction indicator lamp.
CRUISE IND	Lighting history of CRUISE indicator.
SET IND	Lighting history of SET indicator.
O/D OFF IND	Lighting history of OD OFF indicator lamp.
4WD W/L	Lighting history of AWD warning lamp.
FUEL W/L	Lighting history of low fuel level warning.
WASHER W/L	Lighting history of low washer fluid warning.
AIR PRES W/L	Lighting history of low tire pressure warning lamp.
KEY G/Y W/L	Lighting history of Intelligent Key system malfunction.
EPS W/L	Lighting history of EPS warning lamp.

NOTE:

In items displayed on the CONSULT screen, only those listed in the above table are used.

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000007605203

APPLICATION ITEM

CONSULT can display each diagnostic item using the diagnostic test modes shown following.

Diagnosis mode	Function description		
ECU Identification	BCM part number is displayed.		
Self-Diagnostic Result	Displays the diagnosis results judged by BCM. Refer to BCS-61, "DTC Index".		
Data Monitor	BCM input/output signals are displayed.		
Active Test	The signals used to activate each device are forcibly supplied from BCM.		
Work Support	Changes the setting for each system function.		
Configuration	 Read and save the vehicle specification. Write the vehicle specification when replacing BCM. 		
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.		

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

System	CONSULT sub system selection item	Diagnosis mode		
System		Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp control	INT LAMP	×	×	×
Remote keyless entry system	MULTI REMOTE ENT	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER		×	×
Auto air conditioning system Manual air conditioning system	AIR CONDITONER		×	
Intelligent Key system	INTELLIGENT KEY		×	
Combination switch	COMB SW		×	
Body control system	BCM	×		
Immobilizer	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR	×	×	×
Signal buffer system	SIGNAL BUFFER		×	×
_	FUEL LID*			
TPMS	AIR PRESSURE MONITOR	×	×	×
Panic alarm system	PANIC ALARM			×

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

BUZZER

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

BUZZER: CONSULT Function (BCM - BUZZER)

INFOID:0000000007352915

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CONSULT FUNCTION (BCM - BUZZER)

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

DATA MONITOR

Display item [Unit]	Description		
IGN ON SW [On/Off]	Ignition switch (ON) status judged by ignition power supply input.		
KEY ON SW [On/Off]	Key switch status.		
DOOR SW -DR [On/Off]	Front door switch (driver side) status judged by BCM.		
LIGHT SW 1ST [On/Off]	Lighting switch status judged by the lighting switch signal read with combination switch reading function.		
BUCKLE SW [On/Off]	Seat belt buckle switch (driver side) status judged by BCM.		

ACTIVE TEST

Display item	Description		
LIGHT WARN ALM	The light reminder warning chime operation can be checked by operating the relevant function (On/Off).		
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).		

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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:0000000007547357

1.CHECK FUSE

Check for blown fuses.

Terminal No.	Signal name	Fuses No.
1	Battery power supply	9
2	Ignition signal	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 combination meter harness connector and ground.

Terminals			Ignition switch position	
(+)		(–)	ignition switch position	
Combination meter			OFF	ON
Connector	Terminal		Orr	ON
M34	1	Ground	Battery voltage	Battery voltage
	2		Approx. 0 V	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 and ground.

Combina	tion meter		Continuity
Connector	Terminal	Ground	Continuity
M34	3		Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE): Diagnosis Procedure

INFOID:0000000007605202

1. CHECK FUSES AND FUSIBLE LINK

Check that the following fuses and fusible link are not fusing.

Signal name	Fuses and fusible link No.
Rattery nower supply	10
Battery power supply	J

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Signal name	Fuses and fusible link No.
ACC power supply	20
Ignition power supply	1

Is the fuse fusing?

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

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

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

Terminals			Ignition switch position		
(+)			ignition switch position		
BCM		(–)	OFF	ACC	ON
Connector	Terminal		OFF	ACC	ON
M67	70	_	Battery	Battery	Battery
IVIO7	57		voltage	voltage	voltage
M65	11	Ground	Approx. 0 V	Battery voltage	Battery voltage
IVIOS	38		Approx. 0 V	Approx. 0 V	Battery voltage

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair the harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and the ground.

В	СМ		Continuity	
Connector Terminal		Ground	Continuity	
M67	67		Existed	

Does continuity exist?

YES >> INSPECTION END

NO >> Repair the harness or connector.

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METER BUZZER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

METER BUZZER CIRCUIT

Description INFOID:0000000007352918

- 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:0000000007352919

1. CHECK OPERATION OF METER BUZZER

- Connect the CONSULT.
- Perform "LIGHT WARN ALM", "IGN KEY WARN ALM" or "SEAT BELT WARN TEST" in "ACTIVE TEST" of "BCM (BUZZER)".

Does meter buzzer beep?

YES >> INSPECTION END

NO >> GO TO 2.

2. CHECK COMBINATION METER INPUT SIGNAL

Select the "Data Monitor" of "METER/M&A" and check the "BUZZER" monitor value.

"BUZZER"

Under the condition of buzzer input : On Except above : Off

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-69, "Removal and Installation".

NO >> Replace BCM. Refer to BCS-65, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000007352920

1. CHECK POWER SUPPLY AND GROUND CIRCUIT OF COMBINATION METER

Check power supply and ground circuit of combination meter. Refer to <u>WCS-20. "COMBINATION METER: Diagnosis Procedure".</u>

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace malfunctioning parts.

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

Transmits a seat belt buckle switch signal to the combination meter.

Component Function Check

INFOID:0000000007352922

INFOID:0000000007352921

1. CHECK COMBINATION METER INPUT SIGNAL

1. Connect the CONSULT.

Description

2. Select the "Data Monitor" of "METER/M&A" and check the "BUCKLE SW" monitor value.

"BUCKLE SW"

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

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>> INSPECTION END

Diagnosis Procedure

INFOID:0000000007352923

1. CHECK COMBINATION METER INPUT SIGNAL

Turn ignition switch ON.

2. Check voltage between combination meter harness connector terminal and ground.

Н

	Terminal			
(+) Combination meter			Condition	Voltage (Approx.)
		(-)	Condition	
Connector	Terminal			
M34	35	Ground	When driver seat belt is fastened	12 V
IVIO4	33	Giodila	When driver seat belt is unfastened	0 V

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

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

Turn ignition switch OFF.

- 2. Disconnect combination meter connector and seat belt buckle switch (driver side) connector.
- 3. Check continuity between combination meter harness connector terminal and front seat belt buckle switch (driver side) harness connector terminal.

WCS-23

Combina	tion meter	Seat belt buckle switch (driver side)		Continuity
Connector	Terminal	Connector Terminal		Continuity
M34	35	B409	1	Existed

4. Check harness continuity between combination meter harness connector terminal and ground.

Combination meter			Continuity
Connector	Terminal	Ground	Continuity
M24	35		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

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

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SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

Seat belt buckle s		Continuity	
Connector	Terminal	Ground	Continuity
B409	2		Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

Component Inspection

INFOID:0000000007352924

1. CHECK SEAT BELT BUCKLE SWITCH

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

Term	Terminals Condition		Continuity
1	2	When driver seat belt is fastened	Not existed
	۷	When driver seat belt is unfastened	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace the seat belt buckle. Refer to <u>SB-9</u>, "<u>SEAT BELT BUCKLE</u>: Removal and Installation".

PARKING BRAKE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

PARKING BRAKE SWITCH SIGNAL CIRCUIT

Description INFOID:0000000007352925

Transmits the parking brake switch signal to the combination meter.

Diagnosis Procedure

INFOID:0000000007352926

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1. CHECK COMBINATION METER INPUT SIGNAL

- 1. Turn ignition switch ON.
- 2. Check voltage between combination meter harness connector terminal and ground.

Terminal				
(+) Combination meter			Condition	Voltage (Approx.)
		(-)	Condition	
Connector	Terminal			
M34	26	Ground	Parking brake ON	0 V
10134	20	Giodila	Parking brake OFF	5 V

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2.CHECK PARKING BRAKE SWITCH SIGNAL CIRCUIT

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

Combination meter		Parking bi	Continuity	
Connector	Terminal	Connector Terminal		Continuity
M34	26	E103	1	Existed

4. Check continuity between combination meter harness connector terminal and ground.

Combination meter			Continuity
Connector	Terminal	Ground	Continuity
M34	26		Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

Component Inspection

INFOID:0000000007352927

Refer to BRC-50, "Component Inspection" (ABS) or BRC-151, "Component Inspection" (VDC/TCS/ABS).

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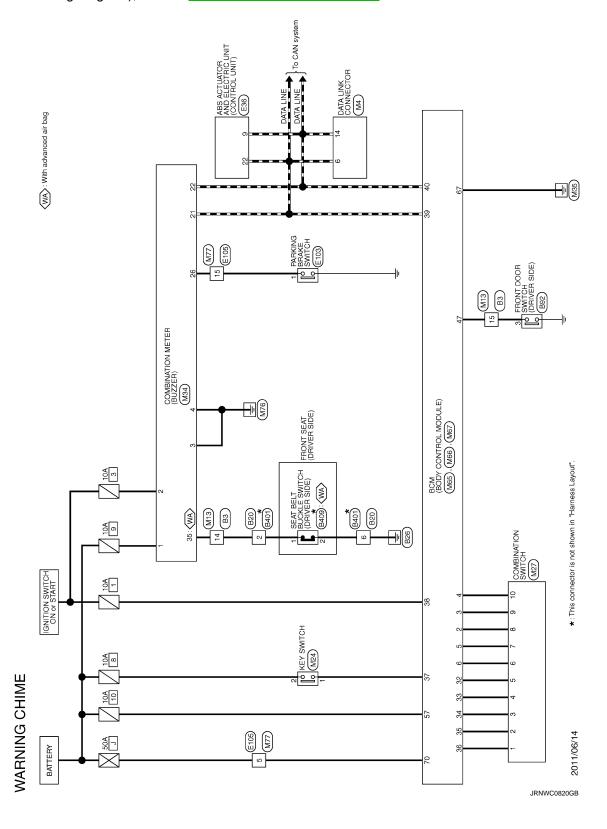
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WARNING CHIME SYSTEM

Wiring Diagram - WARNING CHIME -

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

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< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

COMBINATION METER

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item		Condition	Value/Status
SPEED METER [km/h]	Ignition switch ON	While driving	Input value of vehicle speed signal (CAN communication signal) NOTE: 655.35 is displayed when the malfunction signal is received
SPEED OUTPUT [km/h]	Ignition switch ON	While driving	Output value of vehicle speed signal (CAN communication signal) NOTE: 655.35 is displayed when the malfunction signal is received
ODO OUTPUT	Ignition switch ON	_	Output value of odometer signal (CAN communication signal)
TACHO METER [rpm]	Ignition switch ON	While driving	Input value of engine speed signal (CAN communication signal) NOTE: 8191.875 is displayed when the malfunction signal is received
FUEL METER [lit]	Ignition switch ON	_	Input value of fuel level sensor signal
W TEMP METER [°C]	Ignition switch ON	_	Input value of engine coolant temperature signal (CAN communication signal) NOTE: 215 is displayed when the malfunction signal is input
ADC M/I	Ignition switch	ABS warning lamp ON	On
ABS W/L	ON	ABS warning lamp OFF	Off
VDC/TCS IND	Ignition switch	VDC OFF indicator lamp ON	On
VDC/TC3 IND	ON	VDC OFF indicator lamp OFF	Off
SLIP IND	Ignition switch	VDC warning lamp ON	On
SLIF IND	ON	VDC warning lamp OFF	Off
BRAKE W/L	Ignition switch	Brake warning lamp ON	On
DIVAILE W/L	ON	Brake warning lamp OFF	Off
DOOR W/L	Ignition switch	During door open warning indication	On
2001(11/12	ON	Other than the above	Off
TRUNK/GLAS-H	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
HI-REAM IND	Ignition switch	High beam indicator lamp ON	On
HI-BEAM IND	ON	High beam indicator lamp OFF	Off
TURNIND	Ignition switch	Turn signal indicator lamp ON	On
TURN IND	ON	Turn signal indicator lamp OFF	Off
FR FOG IND	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off

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Monitor Item		Condition	Value/Status		
RR FOG IND	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off		
LIGUETINE	Ignition switch	Position lamp indicator lamp ON	On		
LIGHT IND	ŎN	Position lamp indicator lamp OFF	Off		
O	Ignition switch	Oil pressure warning lamp ON	On		
OIL W/L	ŎN	Oil pressure warning lamp OFF	Off		
NAU.	Ignition switch	Malfunction indicator (Yellow) ON	On		
MIL	ŎN	Malfunction indicator (Yellow) OFF	Off		
GLOW IND	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off		
C-ENG2 W/L	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off		
CRUISE IND	Ignition switch	Cruise indicator ON	On		
CINUISE IND	ON	Cruise indicator OFF	Off		
SET IND	Ignition switch	SET indicator ON	On		
SET IND	ON	SET indicator OFF	Off		
O/D OFF IND	Ignition switch	OD OFF indicator lamp ON	On		
O/D OFF IND	ON	OD OFF indicator lamp OFF	Off		
ATC/T-AMT W/L	Ignition switch	A/T CHECK indicator lamp ON	On		
ATC/T-AIVIT VV/L	ON	A/T CHECK indicator lamp OFF	Off		
ATF TEMP W/L	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off		
CVT IND	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off		
ANAID NAIII	Ignition switch	AWD warning lamp ON	On		
4WD W/L	ŎN	AWD warning lamp OFF	Off		
AND LOOK IND	Ignition switch	AWD LOCK indicator lamp ON	On		
4WD LOCK IND	ON	AWD LOCK indicator lamp OFF	Off		
	Ignition switch	During low fuel warning indication	On		
FUEL W/L	ON	Other than the above	Off		
MACHED M/I	Ignition switch	During low washer fluid warning indication	On		
WASHER W/L	ON	Other than the above	Off		
AID DDEC W//	Ignition switch	Low tire pressure warning lamp ON	On		
AIR PRES W/L	ŎN	Other than the above	Off		
KEV C/V M/I	Ignition switch	Intelligent Key system malfunction ON	On		
KEY G/Y W/L	ON	Intelligent Key system malfunction OFF	Off		
KEY R W/L	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off		
KEY KNOB W/L	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off		
EDC W/I	Ignition switch	EPS warning lamp ON	On		
EPS W/L	ŎN	EPS warning lamp OFF	Off		

< ECU DIAGNOSIS INFORMATION >

Monitor Item		Condition	Value/Status
DDS W/L*	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
CDODT MODE IND	Ignition switch	SPORT mode indicator lamp ON	On
SPORT MODE IND	ŎN	SPORT mode indicator lamp OFF	Off
DPF W/L	Engine running	NOTE: This item is displayed, but cannot be monitored.	Off
TRAILER IND	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
		During the indication of "P" by shift position indicator	Р
		During the indication of "R" by shift position indicator	R
		During the indication of "N" by shift position indicator	N
		During the indication of "D" by shift position indicator	D
		During the indication of "L" by shift position indicator	L
SHIFT IND	Ignition switch ON	During the indication of "M1" by shift position indicator	M1
		During the indication of "M2" by shift position indicator	M2
		During the indication of "M3" by shift position indicator	M3
		During the indication of "M4" by shift position indicator	M4
		During the indication of "M5" by shift position indicator	M5
		During the indication of "M6" by shift position indicator	M6
0/0 055 0/4/	Ignition switch	Overdrive control switch ON	On
O/D OFF SW	ON	Overdrive control switch OFF	Off
MADANOE OW	Ignition switch	Selector lever in manual mode position	On
M RANGE SW	ŎN	Other than the above	Off
NIM DANIOE OW	Ignition switch	Selector lever in manual mode position	Off
NM RANGE SW	ŎN	Other than the above	On
AT OFT UP OW	Ignition switch	Selector lever in + position	On
AT SFT UP SW	ŎN	Other than the above	Off
AT OFT DIAME OVA	Ignition switch	Selector lever in – position	On
AT SFT DWN SW	ŎN	Other than the above	Off
OT OFT LID C'A'	Ignition switch	Paddle shifter in + position	On
ST SFT UP SW	ŎN	Other than the above	Off
OT OFT DIAM'S COM	Ignition switch	Paddle shifter in – position	On
ST SFT DWN SW	ON	Other than the above	Off
A/C LOW TEMP	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off

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< ECU DIAGNOSIS INFORMATION >

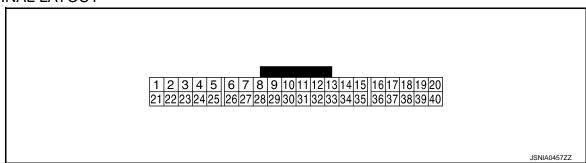
Monitor Item		Condition	Value/Status
COMP F/B SIG	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
PKB SW	Ignition switch	Parking brake switch ON	On
PND SVV	ON	Parking brake switch OFF	Off
BUCKLE SW	Ignition switch	Driver seat belt not fastened	On
BUCKLE SW	ON	Driver seat belt fastened	Off
BRAKE OIL SW	Ignition switch	Brake fluid level switch ON	On
BRAKE OIL SW	ON	Brake fluid level switch OFF	Off
	Ignition switch	Other than the following	On
A/C AMP CONN	ON ON	Receives A/C auto amp. connection recognition signal	Off
DISTANCE [km]	Ignition switch ON	_	Distance to empty calculated by combination meter
OUTSIDE TEMP [°C or °F]	Ignition switch ON	_	Input value of ambient sensor signal (CAN communication signal) NOTE: This may not match the indicated value on the information display.
FUEL LOW SIG	Ignition switch	Low fuel warning displayed	On
FUEL LOW SIG	ON	Low fuel warning not displayed	Off
SPORT MODE SW	Ignition switch	SPORT mode switch ON	On
SPORT WIDDE SW	ON	SPORT mode switch OFF	Off
BUZZER	Ignition switch	Buzzer ON	On
BUZZEK	ON	Buzzer OFF	Off
ASCD SPD BLNK	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
ASCD STATUS	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
ASCD REQ SPD [km/h or Off]	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off

^{*:} DDS (hill descent control)

NOTE:

Some items are not available according to vehicle specification.

TERMINAL LAYOUT



PHYSICAL VALUES

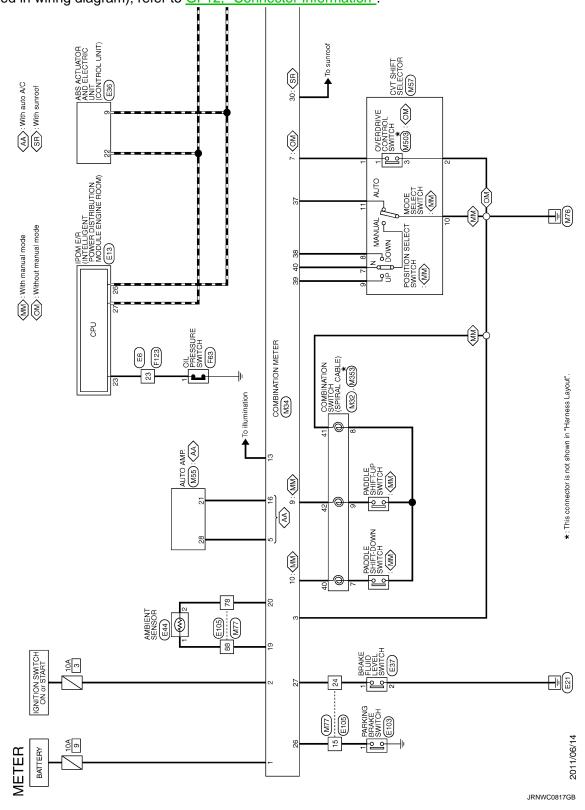
Terminal No. (Wire color) Description		Condition		Value			
+	_	Signal name	Input/ Output			(Approx.)	
1 (LG)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage	
2 (BG)	Ground	Ignition signal	Input	Ignition switch ON	_	Battery voltage	
3 (B)	Ground	Ground	_	Ignition switch ON	_	0 V	
4	Ground	SPORT mode switch signal	Input	Ignition switch	SPORT mode switch pressed	0 V	
(L)	Giodila	SFORT House Switch Signal	iliput	ON	SPORT mode switch not pressed	12 V	
5 (BR)	Ground	A/C auto amp. connection recognition signal	Input	Ignition switch	When auto amp. is connected	5 V	
(DIV)		1000gridori sigridi		ON	Other than the above	0 V	
7	Ground	Overdrive control switch	Input	Ignition switch	Overdrive control switch pressed	0 V	
(GR)	Cround	signal	mput	ON	Overdrive control switch not pressed	12 V	
9 (L)	Ground	Paddle shifter shift up sig-	Input	Ignition switch	Paddle shifter shift up operation	0 V	
(L)		IIai		ON	Other than the above	12 V	
10 (G)	Ground	Paddle shifter shift down	Input	Ignition switch	Paddle shifter shift down operation	0 V	
(G)		signal		ON	Other than the above	12 V	
					Lighting switch 1ST position When meter illumination is maximum	(V) 15 10	
13 (Y)	Ground	Illumination control signal	Output	Ignition switch ON	Lighting switch 1ST position When meter illumination is step 11	(V) 15 10 5 0 2.5 ms JPNIA1686GB	
					Lighting switch 1ST position When meter illumination is minimum	12 V	
15	Ground	Air bag signal	Input	Ignition switch	Air bag warning lamp ON	4 V	
(LG)		99		ON	Air bag warning lamp OFF	0 V	

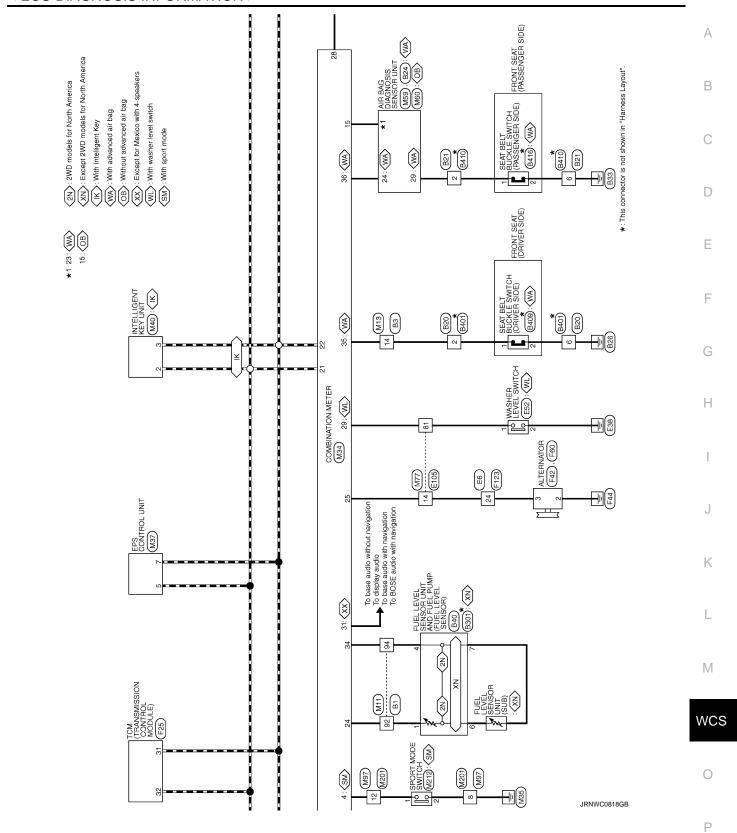
	nal No. color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
16 (W)	Ground	Engine coolant tempera- ture signal	Output	Ignition switch	Engine idling [Approximate- ly 20°C (68°F)]	(V) 6 4 2 0 200 ms PKID0590E
(**)		tare digital		ON	Engine idling [Approximate- ly 80°C (176°F)]	(V) 6 4 2 0 + 200ms SKIB3661J
19 (BR)	Ground	Ambient sensor signal	Input	Ignition switch ON		(V) 4 3 2 1 0 -10 0 10 20 30 40 [**C] (14) (32) (50) (68) (86) (104) [**C**] JSNIA0014GB
20 (SB)	Ground	Ambient sensor ground	_	Ignition switch ON	_	0 V
21 (L)	_	CAN-H	_	_	_	_
22 (P)	_	CAN-L	_	_	_	_
24 (B)	Ground	Fuel level sensor signal ground	_	Ignition switch ON	_	0 V
25 (SB)	Ground	Alternator signal	Input	Ignition switch	Charge warning lamp ON	0 V
(36)				ON Ignition	Charge warning lamp OFF Parking brake ON	12 V 0 V
26 (V)	Ground	Parking brake switch signal	Input	switch	Parking brake OFF	5 V
07		Droke fluid level switch of		Ignition	Brake fluid level is normal	5 V
27 (BR)	Ground	Brake fluid level switch signal	Input	switch ON	Brake fluid level is less than low level	0 V
28	Ground	Security signal	Input	Ignition switch	Security warning lamp ON	0 V
(B)		, 5		OFF	Security warning lamp OFF	12 V
29 (W)	Ground	Washer level switch signal	Input	Ignition switch	Washer level switch ON Washer level switch OFF	0 V 12 V
. ,				OFF	VVGSHOLIGVOLSWILGH OLI	14 V

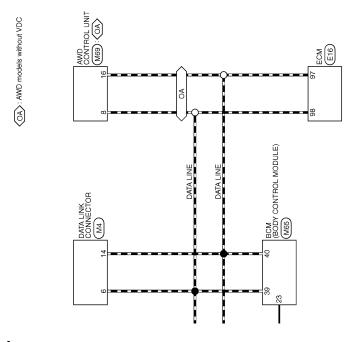
Terminal No. (Wire color) Description		Condition		Value			
+	_	Signal name	Input/ Output	Condition		(Approx.)	
30 (Y)	Ground	Vehicle speed signal (2-pulse)	Output	Ignition switch ON	Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)]	NOTE: The maximum voltage varies depending on the specification (destination unit).	
31 (L)	Ground	Vehicle speed signal (8-pulse)	Output	Ignition switch ON	Vehicle speed is approximately 40 km/h (25 MPH)	NOTE: The maximum voltage varies depending on the specification (destination unit).	
34 (G)	Ground	Fuel level sensor signal	Input	Ignition switch ON	_	(V) 4 3 2 1 0 0 1/4 1/2 3/4 1 JSNIA3463ZZ	
35 (BG)	Ground	Seat belt buckle switch signal (driver side)	Input	Ignition switch	When driver seat belt is fastened	12 V	
(66)		riai (urivei side)		ON	When driver seat belt is not fastened	0 V	
36				seat belt buckle switch sig-	Seat belt buckle switch sig- Seat belt buckle switch sig- Ignition Ignition Switch Switch Seat belt is fastened	When passenger seat	12 V
(G)							0 V
37	Ground	Non-manual mode signal	Input	Ignition	Manual mode	12 V	
(P)	Citatia	14011 manual mode signal	mput	switch ON	Other than the above	0 V	
38 (BG)	Ground	Manual mode shift down signal	Input	Ignition switch ON	Selector lever (–) position Other than the above	0 V 12 V	
20		Manual mode shift up siz		Ignition	Selector lever (+) position	0 V	
39 (V)	Ground	Manual mode shift up sig- nal	Input	switch ON	Other than the above	12 V	
40	40		Ignition	Manual mode	0 V		
(LG)	Ground	Manual mode signal	Input	switch ON	Other than the above	12 V	

Wiring Diagram

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".







JRNWC0819GB

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Fail-safe

The combination meter activates the fail-safe control if the CAN communication lines between each unit are malfunctioning.

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

	Function		Specifications	
Speedometer				
Tachometer		Reset to zero by suspending communication.		
Engine coolant to	emperature gauge			
Meter illumination	n control		When suspending communication, changes to nighttime mode.	
Buzzer			Turned off by suspending communication.	
		Current fuel consumption	When reception time of an abnormal signal is	
		Average fuel consumption	2 seconds or less, the last received datum is used for calculation to indicate the result.	
	Trip computer	Average vehicle speed	When reception time of an abnormal signal is	
	Trip computer	Range (Distance to empty)	more than 2 seconds, the last result calculat- ed during normal condition is indicated.	
Information dis-		Driving distance	An indicated value is maintained at communications blackout.	
play	Door open warning			
	Interrupt indication	Low tire pressure warning	The indicator turns OFF by suspending communication.	
		Fuel filler cap warning		
	Odo/trip meter		An indicated value is maintained at communications blackout.	
	Shift position indicator		The indicator turns OFF by suspending communication.	
	ABS warning lamp			
	Brake warning lamp			
	EPS warning lamp		Turned on by suspending communication.	
	VDC warning lamp		- Turned on by suspending communication.	
	AWD warning lamp			
	Malfunction indicator lamp		7	
	VDC OFF indicator lamp			
Warning lamp/	SPORT mode indicator lamp			
indicator lamp	AWD LOCK indicator lamp			
	Oil pressure warning lamp			
	High beam indicator lamp		Turned off by suspending communication.	
	Turn signal indicator lamp			
	Position lamp indicator lamp			
	A/T CHECK indicator lamp			
	OD OFF indicator lamp			
	Low tire pressure warning lamp		After blinking for 1 minute, the lamp remains ON.	

DTC Index

Display contents of CONSULT	Time	Diagnostic item is detected when	Refer to
CAN COMM CIRCUIT [U1000]	CRNT, 1 - 39	Combination meter is not transmitting or receiving CAN communication signal for 2 seconds or more.	<u>MWI-50</u>
CONTROL UNIT (CAN) [U1010]	CRNT, 1 - 39	Detecting error during the initial diagnosis of CAN controller of combination meter.	<u>MWI-51</u>
VEHICLE SPEED [B2205]	CRNT, 1 - 39	The abnormal vehicle speed signal is input from ABS actuator and electric unit (control unit) for 2 seconds or more.	MWI-52

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COMBINATION METER

Display contents of CONSULT	Time	Diagnostic item is detected when	Refer to
ENGINE SPEED [B2267]	CRNT, 1 - 39	ECM continuously transmits abnormal engine speed signals for 2 seconds or more.	<u>MWI-53</u>
WATER TEMP [B2268]	CRNT, 1 - 39	ECM continuously transmits abnormal engine coolant temperature signals for 60 seconds or more.	<u>MWI-54</u>

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

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VALUES ON THE DIAGNOSIS TOOL

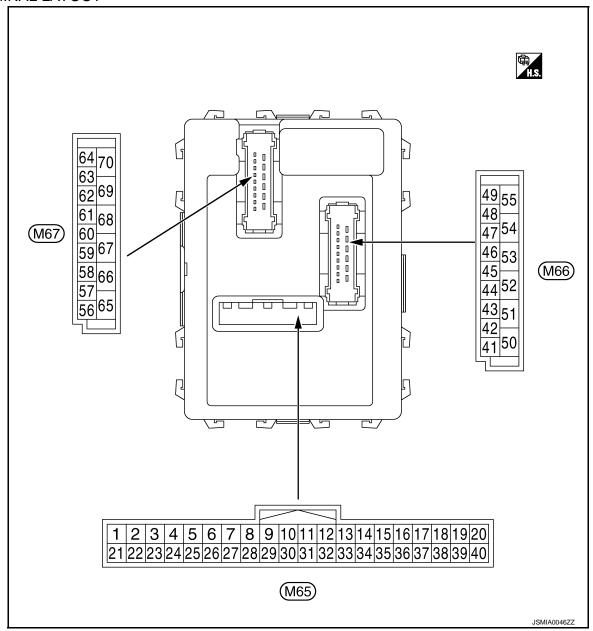
Monitor Item	Condition	Value/Status
IGN ON SW	Ignition switch OFF or ACC	Off
IGN ON SW	Ignition switch ON	On
KEY ON CW	Mechanical key is removed from key cylinder	Off
KEY ON SW	Mechanical key is inserted to key cylinder	On
CDL LOCK SW	Door lock/unlock switch does not operate	Off
CDL LOCK 3W	Press door lock/unlock switch to the lock side	On
CDL UNLOCK SW	Door lock/unlock switch does not operate	Off
CDL UNLOCK 3W	Press door lock/unlock switch to the unlock side	On
DOOR SW-DR	Driver's door closed	Off
DOOK SW-DK	Driver's door opened	On
DOOD SW AS	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
DOOD OW DD	Rear RH door closed	Off
DOOR SW-RR	Rear RH door opened	On
DOOR SW-RL	Rear LH door closed	Off
DOOK SW-KL	Rear LH door opened	On
BACK DOOR SW	Back door closed	Off
	Back door opened	On
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off
	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
KET CTE ON-SW	Driver door key cylinder UNLOCK position	On
KEYLESS LOCK	"LOCK" button of key fob is not pressed	Off
NETELOO LOOK	"LOCK" button of key fob is pressed	On
KEYLESS UNLOCK	"UNLOCK" button of key fob is not pressed	Off
KETELSS UNLOCK	"UNLOCK" button of key fob is pressed	On
I-KEY LOCK	"LOCK" button of Intelligent Key or door request switch are not pressed	Off
	"LOCK" button of Intelligent Key or door request switch are pressed	On
I KEY IINI OOK	"UNLOCK" button of Intelligent Key or door request switch are not pressed	Off
I-KEY UNLOCK	"UNLOCK" button of Intelligent Key or door request switch are pressed	On
ACC ON SW	Ignition switch OFF	Off
AGG ON GW	Ignition switch ACC or ON	On
REAR DEF SW	Rear window defogger switch OFF	Off
VEAK DEL 9M	Rear window defogger switch ON	On
LIGHT SW 1ST	Lighting switch OFF	Off
LIGHT SW 1ST	Lighting switch 1ST	On

Monitor Item	Condition	Value/Status
BUCKLE SW	The seat belt (driver side) is unfastened. [Seat belt switch (driver side) OFF]	Off
BUCKLE SW	The seat belt (driver side) is fastened. [Seat belt switch (driver side) ON]	On
KEYLESS PANIC	PANIC button of key fob is not pressed	Off
NETLESS PAINIC	PANIC button of key fob is pressed	On
KEYLESS TRUNK	NOTE: The item is indicated, but not monitored.	Off
TRNK OPN MNTR	NOTE: The item is indicated, but not monitored.	Off
RKE LCK-UNLCK	LOCK/UNLOCK button of key fob is not pressed and held simultaneously	Off
THE EUR-ONLOR	LOCK/UNLOCK button of key fob is pressed and held simultaneously	On
RKE KEEP UNLK	UNLOCK button of key fob is not pressed	Off
MALINEEF UNLIN	UNLOCK button of key fob is pressed and held	On
HI BEAM SW	Lighting switch OFF	Off
II DEAM OW	Lighting switch HI	On
HEAD LAMP SW 1	Lighting switch OFF	Off
	Lighting switch 2ND	On
HEAD LAMP SW 2	Lighting switch OFF	Off
	Lighting switch 2ND	On
AUTO LIGHT SW	Other than lighting switch AUTO	Off
	Lighting switch AUTO	On
PASSING SW	Other than lighting switch PASS	Off
ASSING SW	Lighting switch PASS	On
-D 500 0W	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
TUDNI CIONIAL D	Turn signal switch OFF	Off
TURN SIGNAL R	Turn signal switch RH	On
TUDNI CIONIAL I	Turn signal switch OFF	Off
TURN SIGNAL L	Turn signal switch LH	On
ENOINE DUN	Engine stopped	Off
ENGINE RUN	Engine running	On
OKD OW	Parking brake switch is OFF	Off
PKB SW	Parking brake switch is ON	On
CARGO LAMP SW	NOTE: The item is indicated, but not monitored.	Off
ODTICAL SENSOR	Bright outside of the vehicle	Close to 5 V
OPTICAL SENSOR	Dark outside of the vehicle	Close to 0 V
ICAL CIM CAN	Ignition switch OFF or ACC	Off
IGN SW CAN	Ignition switch ON	On
	Front wiper switch OFF	Off
FR WIPER HI	Front wiper switch HI	On

Monitor Item	Condition	Value/Status	
ED WIDER LOW	Front wiper switch OFF	Off	
FR WIPER LOW	Front wiper switch LO	On	
ED WIDED INT	Front wiper switch OFF	Off	
FR WIPER INT	Front wiper switch INT	On	
ED W/4 OUED OW/	Front washer switch OFF	Off	
FR WASHER SW	Front washer switch ON	On	
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7	
	Any position other than front wiper stop position	Off	
FR WIPER STOP	Front wiper stop position	On	
VEHICLE SPEED	While driving	Equivalent to speedometer reading	
	Rear wiper switch OFF	Off	
RR WIPER ON	Rear wiper switch ON	On	
	Rear wiper switch OFF	Off	
RR WIPER INT	Rear wiper switch INT	On	
	Rear washer switch OFF	Off	
RR WASHER SW	Rear washer switch ON	On	
	Rear wiper stop position	Off	
RR WIPER STOP	Other than rear wiper stop position	On	
RR WIPER STP2	NOTE: The item is indicated, but not monitored.	Off	
H/L WASH SW	NOTE: The item is indicated, but not monitored.	Off	
	Hazard switch OFF	Off	
HAZARD SW	Hazard switch ON	On	
	Brake pedal is not depressed	Off	
BRAKE SW	Brake pedal is depressed	On	
	Blower fan motor switch OFF	Off	
FAN ON SIG			
	Blower fan motor switch ON (other than OFF) A/C conditioner OFF (A/C switch indicator OFF) (Automatic air conditioner)	On Off	
AIR COND SW	A/C switch OFF (Manual air conditioner)	Oii	
	 A/C conditioner ON (A/C switch indicator ON) (Automatic air conditioner) A/C switch ON (Manual air conditioner) 	On	
I-KEY TRUNK	NOTE: The item is indicated, but not monitored.	Off	V
	UNLOCK button of Intelligent Key is not pressed	Off	
I-KEY PW DWN	UNLOCK button of Intelligent Key is pressed and held	On	
LIVEY DAY!!	PANIC button of Intelligent Key is not pressed	Off	
-KEY PANIC	PANIC button of Intelligent Key is pressed	On	
	Return to ignition switch to "LOCK" position	Off	
PUSH SW	Press ignition switch	On	
	When back door opener switch is not pressed	Off	
TRNK OPNR SW	When back door opener switch is pressed	On	
	NOTE:	Off	

Monitor Item	Condition	Value/Status
HOOD SW	Close the hood NOTE: Vehicles of except for Mexico are OFF-fixed	Off
	Open the hood	On
OIL PRESS SW	Ignition switch OFF or ACC Engine running	Off
	Ignition switch ON	On
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	ID of front LH tire transmitter is registered	Done
ID REGGI FLI	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID REGGI FRI	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
ID REGOT KKT	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
ID NEGOT KET	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
WARNING LAWP	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
DULLER	Tire pressure warning alarm is sounding	On

TERMINAL LAYOUT



PHYSICAL VALUES

CAUTION:

- Check combination switch system terminal waveform under the loaded condition with lighting switch, turn signal switch and wiper switch OFF is not to be fluctuated by being overloaded.
- Turn wiper intermittent dial position to 4 except when checking waveform or voltage of wiper intermittent dial position. Wiper intermittent dial position can be confirmed on CONSULT. Refer to BCS-26, "COMB SW: CONSULT Function (BCM COMB SW)".
- BCM reads the status of the combination switch at 10 ms internal normally. Refer to BCS-9, "System Diagram".

	nal No.	Description				Value
(Wire	color)	Cianal nama	Input/		Condition	(Approx.)
+	_	Signal name	Output			(Approx.)
1	Ground	Ignition key hole illu-	Output	Ignition key hole	OFF	Battery voltage
(V)	Ground	mination control	Output	illumination	ON	0 V

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	nal No. color)	Description			O a selfer	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF	0 V
					Turn signal switch RH	
					Lighting switch HI	(V) 15
2 (G)	Ground	Combination switch INPUT 5	Input	Combination switch (Wiper intermit-	Lighting switch 1ST	10 5 0 ++10ms PKIB4959J 1.0 V
			tent dial 4)	Lighting switch 2ND		15 0
					All switch OFF	0 V
					Turn signal switch LH	
					Lighting switch PASS	(V)
3 (Y)	Ground	Combination switch INPUT 4	Input	Combination switch (Wiper intermit-	Lighting switch 2ND	10 5 0 +-+10ms PKIB4959J 1.0 V
(-)				tent dial 4)	Front fog lamp switch ON	(V) 15 10 5 0 +10ms PKIB4955J 0.8 V
					All switch OFF	0 V
					Lighting switch AUTO	40
				Combination	Front wiper switch LO	(V) 15
4	Ground	Combination switch	Input	switch	Front wiper switch MIST	10
(W)		INPUT 3		(Wiper intermittent dial 4)	Front wiper switch INT	0 + 10ms PKIB4959J

Termir (Wire	nal No.	Description			O a madition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4) Front washer switch (Wiper intermittent dial 4)	0 V
					Rear washer ON (Wiper intermittent dial 4)	(V) 15 10 5
5 (R)	Ground	Combination switch INPUT 2	Input	Combination switch	Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	PKIB4959J
					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0
					All switch OFF	0.8 V
					(Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	(V)
					Rear wiper switch INT (Wiper intermittent dial 4)	15 10 5 0
					Wiper intermittent dial 3 (All switch OFF)	++10ms PKIB4959J
						(V)
6 (P)	Ground	Combination switch INPUT 1	Input	Combination switch	Any of the condition below with all switch OFF • Wiper intermittent dial 1	(V) 15 10 5 0
					Wiper intermittent dial 2	PKIB4952J
						(V)
					Any of the condition below with all switch OFF • Wiper intermittent dial 6 • Wiper intermittent dial 7	10 5 0
						PKIB4955J 0.8 V

	nal No.	Description				Value	
+	color)	Signal name	Input/ Output		Condition	(Approx.)	
7 (L)	Ground	Door key cylinder switch UNLOCK sig- nal	Input	Door key cylin- der switch	NEUTRAL position	(V) ₁₅ 10 5 0 +-10ms JPMIA0587GB 8.0 - 8.5 V	
					UNLOCK position	0 V	
8 (R)	Ground	Door key cylinder switch LOCK signal	Input	Door key cylinder switch	NEUTRAL position	(V) 15 10 5 0 10 10 10 10 10 10 10 10 10 10 10 10 1	
					LOCK position	8.0 - 8.5 V	
9					Stop lamp	LOCK position OFF (Brake pedal is not depressed)	0 V
(R)	Ground	Stop lamp switch	np switch Input	ON (Brake pedal is de-	Battery voltage		
10	Ground	Rear window defog-	Input	Rear window	Not pressed	Battery voltage	
(SB)		ger switch	· ·	defogger switch	Pressed	0 V	
11 (SB)	Ground	Ignition switch ACC	Input	Ignition switch O		0 V Battery voltage	
12 (P)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	(V) ₁₅ 10 5 0 → 10ms JPMIA0586GB 7.5 - 8.0 V	
					ON (When passenger door opened)	0 V	
13 (LG)	Ground	Rear door switch RH	Input	Rear door switch RH	OFF (When rear door RH closed)	(V) ₁₅ 10 5 0 → 10ms JPMIA0587GB 8.0 - 8.5 V	
					ON (When rear door RH opened)	0 V	

	nal No.	Description	1		• ""	Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
14	Ground	Optical sensor	Input	Ignition switch	When bright outside of the vehicle	Close to 5 V
(G)	Giodila	Optical selisor	Input	ON	When dark outside of the vehicle	Close to 0 V
17 (W)	Ground	Optical sensor pow- er supply	Output	Ignition switch	OFF, ACC	0 V 5 V
18 [*] (R)	Ground	Receiver and sensor ground	Input	Ignition switch O		0 V
. ,				Without Intelligent Key system	At any condition	5 V
19 [*] (V)	Ground	Remote keyless en- try receiver power supply	Input	With Intelligent Key system	Ignition switch OFF For 3 seconds after ignition switch OFF to ON	0 V
				.to, oyotom	3 seconds or later after ig- nition switch OFF to ON	5 V
				Without Intelligent Key system	At any condition	(V) 15 10 5 0 DPMIA0589GB NOTE: The wave form changes according to signal-receiving condition.
20 [*] (GR)	Ground	Remote keyless entry receiver signal	Input		Ignition switch OFF For 3 seconds after ignition switch OFF to ON	0 V
				With Intelligent Key system	3 seconds or later after ig- nition switch OFF to ON	(V) 15 10 5 0
21 (G)	Ground	NATS antenna amp.	Input/ Output	Just after insertir	ng ignition key in key cylinder	NOTE: The wave form changes according to signal-receiving condition. Pointer of tester should move
(0)			Output		ON	0 V
23 (B)	Ground	Security indicator signal	Input	Security indicator	Blinking (Ignition switch OFF)	(V) ₁₅ 10 5 0 → 1s JPMIA0590GB
					OFF	12.0 V Battery voltage

	nal No.	Description		_		Value
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
25 (BR)	Ground	NATS antenna amp.	Input/ Output	Just after inserting ignition key in key cylinder		Pointer of tester should move
				Ignition switch C	FF	
27 (Y)	Ground	A/C switch	Input	Ignition switch ON	A/C switch OFF	(V) 15 10 5 0 JPMIA0591GB 1.6 V
					A/C switch ON	0 V
				Ignition switch C)FF	
28 (LG)	Ground	Blower fan switch	Input	Ignition switch ON	Blower fan switch OFF	(V) ₁₅ 10 5 0 JPMIA0592GB 7.0 - 7.5 V
					Blower fan switch ON	0 V
29	Ground	Hazard switch	Input	Hazard switch	OFF	Battery voltage
(W)	Ground	Hazaru Switch	Input	Hazard Switch	ON	0 V
30	Ground	Back door opener	Input	Back door	Not pressed	Battery voltage
(G)	Ground	switch	прис	opener switch	Pressed	0 V
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 → 10ms PKIB4960J 7.2 V
32 (BR)	Ground	Combination switch OUTPUT 5	Output	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4) Rear wiper switch ON (Wiper intermittent dial 4) Any of the condition below with all switch OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 6 Wiper intermittent dial 7	(V) 15 10 5 0 +10ms PKIB4956J 1.0 V

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value	
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)	
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 → 10ms PKIB4960J 7.2 V	
33 (GR)	Ground	Combination switch OUTPUT 4	Output	Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)		
					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10	
					Rear wiper switch INT (Wiper intermittent dial 4)	5	
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	PKIB4958J	
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 +-10ms PKIB4960J 7.2 V	
34 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)		
\-/					Lighting switch HI (Wiper intermittent dial 4)	(V) 15	
					Rear washer switch ON (Wiper intermittent dial 4)	0	
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	PKIB4958J 1.2 V	

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	nal No.	Description	1			Value
+	color)	Signal name	Input/ Output		Condition	(Approx.)
35		Combination switch		Combination switch	All switch OFF	(V) 15 10 5 0 + 10ms PKIB4960J 7.2 V
(B)	Ground	OUTPUT 2	Output	(Wiper intermit-	Lighting switch 2ND	
				tent dial 4)	Lighting switch PASS	(V) 15
					Front wiper switch INT	10
					Front wiper switch HI	0 +10ms PKIB4958J
36	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switch OFF	(V) 15 10 5 0 +-10ms PKIB4960J 7.2 V
(V)	Oround		Output	(Wiper intermit- tent dial 4)	Turn signal switch RH	40
				tont didi 4)	Turn signal switch LH	(V) 15
					Front wiper switch LO (Front wiper switch MIST) Front washer switch ON	10 5 0 ++10ms PKIB4958J
37				Insert mechanica	al key into ignition key cylin-	1.2 V Battery voltage
(LG)	Ground	Key switch	Input	Remove mechanical key from ignition ke cylinder		0 V
38	Ground	Ignition switch ON	Innut	Ignition switch OFF or ACC		0 V
(G)	Ground	ignition switch ON	Input	Ignition switch ON or START		Battery voltage
39 (L)	Ground	CAN-H	Input/ Output		_	_
40 (P)	Ground	CAN-L	Input/ Output	-		_

	nal No. color)	Description			0 11/1	Value
+	- COIOT)	Signal name	Input/ Output		Condition	(Approx.)
43 (V)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	(V) ₁₅ 10 5 0 + 10ms JPMIA0593GB 9.5 - 10.0 V
					ON (When back door opened)	0 V
44		Poar winer auto eten		Ignition switch	Rear wiper stop position	0 V
(B)	Ground	Rear wiper auto stop position	Input	ON SWITCH	Any position other than rear wiper stop position	Battery voltage
45 (P)	Ground	Door lock and unlock switch LOCK signal	Input	Door lock and unlock switch	NEUTRAL position	(V) ₁₅ 10 5 0 **10ms JPMIA0591GB
					LOCK position	0 V
46 (BR)	Ground	Door lock and unlock switch UNLOCK sig- nal	Input	Door lock and unlock switch	NEUTRAL position	(V) ₁₅ 10 5 0 **10ms JPMIA0591GB 1.6 V
					UNLOCK position	0 V
47 (W)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	(V) 15 10 5 0 JPMIA0587GB 8.0 - 8.5 V
					ON (When driver door opened)	0 V

	nal No.	Description				Value	
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)	
48 (GR)	Ground	Rear door switch LH	Input	Rear door switch LH	OFF (When rear door LH closed)	(V) 15 10 5 0	
					ON (When rear door LH opened)	0 V	
49	Ground	Luggage room lamp	Output	Luggage room	Back door is closed (Luggage room lamp turns OFF)	Battery voltage	
(L)	Ground	control	Output	lamp switch DOOR position	Back door is opened (Luggage room lamp turns ON)	0 V	
53	Crownd	Back door open	Output	Back door opener switch	Not pressed (Back door actuator is activated)	0 V	
(V)	Ground				Pressed (Back door actuator is activated)	Battery voltage	
55	Ground	Poor winer meter	Output	Ignition switch	Rear wiper switch OFF	0 V	
(SB)	Giodila	Rear wiper motor	Output	ON	Rear wiper switch ON	Battery voltage	
56	Ground	Interior room lamp	Output	After passing the saver operation t	interior room lamp battery time	0 V	
(Y)	Crouna	power supply	Gatpat		ter passing the interior room er operation time	Battery voltage	
57 (G)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	Battery voltage	
59	Ground	Driver door UN-	Output	Driver door	UNLOCK (Actuator is activated)	Battery voltage	
(L)	Ground	LOCK	Output	Dilver door	Other then UNLOCK (Actuator is not activated)	0 V	
					Turn signal switch OFF	0 V	
60 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 11 1s PKIC6370E 6.0 V	

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description				Value
(Wire	color)	Signal name	Input/ Output	Condition		(Approx.)
					Turn signal switch OFF	0 V
61 (GR)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1s PKIC6370E
					OFF	6.0 V Battery voltage
63 (R)	Ground	Interior room lamp timer control	Output	Interior room lamp	ON	0 V
65	0	All 1 1 0016	0 1 1	Output All doors LOCK (Actuator is activated) Other then LOCK (Actuator is not activated)	,	Battery voltage
(V)	Ground	All doors LOCK	Output		0 V	
66	Ground	Passenger door and	Quitnut	Passenger door	UNLOCK (Actuator is activated)	Battery voltage
(G)	Ground	rear door UNLOCK	Output	and rear door	Other then UNLOCK (Actuator is not activated)	0 V
67 (B)	Ground	Ground	Output	Ignition switch O	N	0 V
68 (L)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		Battery voltage
69 (P)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		Battery voltage
70 (Y)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	Battery voltage

^{*:} Except for Mexico with Intelligent Key

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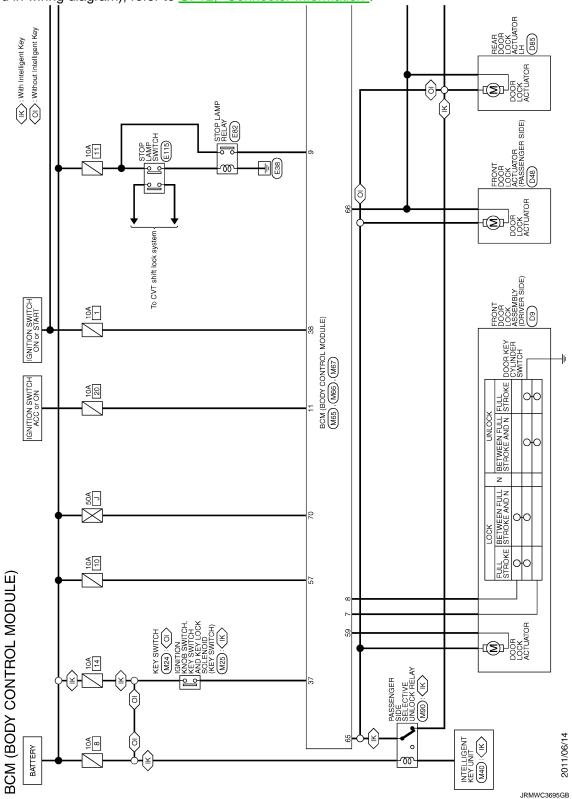
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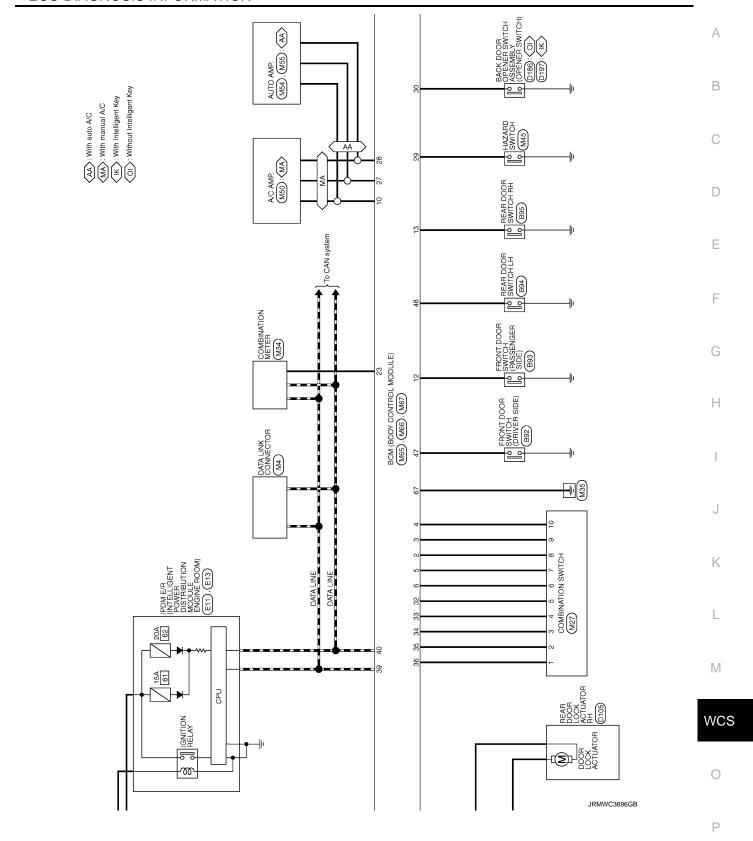
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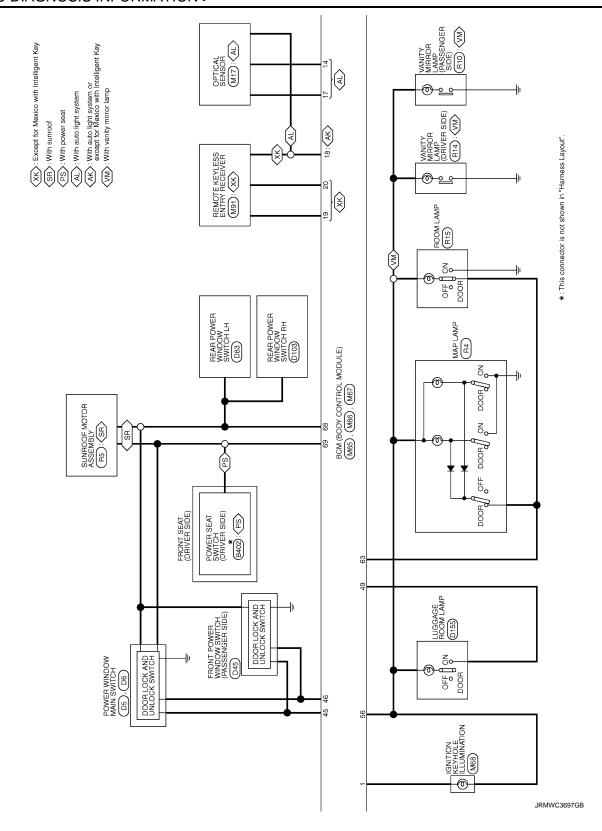
Wiring Diagram - BCM -

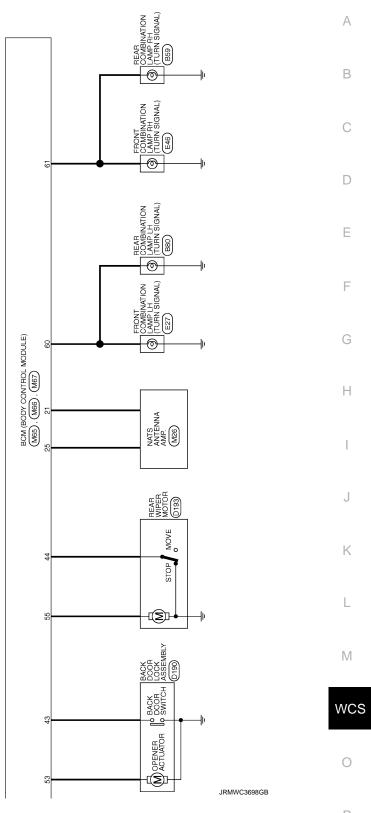
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For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".









Fail-safe

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper stop position signal. When the rear wiper stop position signal does not change more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation

< ECU DIAGNOSIS INFORMATION >

- 1. Pass more than 1 minute after the rear wiper stop.
- Turn the rear wiper switch OFF.
- 3. Operate the rear wiper switch or rear washer switch.

DTC Inspection Priority Chart

INFOID:0000000007605200

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

Priority	DTC
1	U1000: CAN COMM CIRCUIT
2	C1735: IGN CIRCUIT OPEN
3	 C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RL C1716: [PRESS DATA ERR] FL C1717: [PRESS DATA ERR] FR C1718: [PRESS DATA ERR] RR C1719: [PRESS DATA ERR] RR C1719: [PRESS DATA ERR] RL C1729: VHCL SPEED SIG ERR

DTC Index

NOTE:

Details of time display

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

CONSULT display	Tire pressure monitor warning lamp ON	Reference	
U1000: CAN COMM CIRCUIT	_	BCS-34	
C1704: LOW PRESSURE FL	×		
C1705: LOW PRESSURE FR	×	WT 44	
C1706: LOW PRESSURE RR	×	<u>WT-14</u>	
C1707: LOW PRESSURE RL	×		
C1708: [NO DATA] FL	×		
C1709: [NO DATA] FR	×	WT-16	
C1710: [NO DATA] RR	×	<u>vv 1-10</u>	
C1711: [NO DATA] RL	×		
C1716: [PRESS DATA ERR] FL	×		
C1717: [PRESS DATA ERR] FR	×	W/T 40	
C1718: [PRESS DATA ERR] RR	×	<u>WT-19</u>	
C1719: [PRESS DATA ERR] RL	×		
C1729: VHCL SPEED SIG ERR	×	<u>WT-21</u>	
C1735: IGN CIRCUIT OPEN	_	BCS-35	

THE LIGHT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

THE LIGHT REMINDER WARNING DOES NOT SOUND

Description INFOID:0000000007352938

The light reminder warning chime does not sound under the following conditions.

- Lighting switch 1ST or 2ND position
- Driver door open
- Ignition switch except ON or START

Diagnosis Procedure

1. CHECK COMBINATION SWITCH (LIGHTING SWITCH) OPERATION

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

Do they operate normally?

YES >> GO TO 2.

NO >> Refer to EXL-94, "Symptom Table" (xenon type), EXL-214, "Symptom Table" (halogen type).

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

Check the front door switch (driver side) signal circuit. Refer to <u>DLK-57</u>, "<u>Diagnosis Procedure</u>" (with Intelligent Key system), <u>DLK-277</u>, "<u>Diagnosis Procedure</u>" (without Intelligent Key system).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK FRONT DOOR SWITCH (DRIVER SIDE)

Check the front door switch (driver side). Refer to <u>DLK-59</u>, "Component Inspection" (with Intelligent Key system), <u>DLK-279</u>, "Component Inspection" (without Intelligent Key system).

Is the inspection result normal?

YES >> Replace the BCM. Refer to BCS-65, "Removal and Installation".

NO >> Replace the front door switch (driver side). Refer to <u>DLK-242</u>, "Removal and Installation" (with Intelligent Key system), <u>DLK-409</u>, "Removal and Installation" (without Intelligent Key system).

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INFOID:0000000007352939

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Revision: 2013 February WCS-59 2012 ROGUE

THE SEAT BELT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE SEAT BELT REMINDER WARNING DOES NOT SOUND

Description INFOID:000000007352940

Seat belt reminder warning chime does not sound.

Trouble diagnosis procedure

INFOID:0000000007352941

1. CHECK COMBINATION METER INPUT SIGNAL

- 1. Connect the CONSULT.
- 2. Select the "Data Monitor" of "METER/M&A" and check the "BUCKLE SW" monitor value. Refer to WCS-23, "Component Function Check".

Is the inspection result normal?

YES >> Replace combination meter.

NO >> GO TO 2.

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

Check the seat belt buckle switch (driver side) signal circuit. Refer to WCS-23, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair the harnesses or connectors.

3.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

Check the seat belt buckle switch (driver side). Refer to WCS-24, "Component Inspection".

Is the inspection result normal?

YES >> Replace combination meter.

NO >> Replace the seat belt buckle switch (driver side). Refer to <u>SB-9</u>, "<u>SEAT BELT BUCKLE</u>: Removal and Installation".

THE PARKING BRAKE RELEASE WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS > THE PARKING BRAKE RELEASE WARNING DOES NOT SOUND Α Description INFOID:0000000007352942 The parking brake warning chime does not sound at all even though driving the vehicle with the parking brake applied. Diagnosis Procedure INFOID:000000007352943 C 1. CHECK PARKING BRAKE WARNING LAMP OPERATION Connect the CONSULT. Select the "Data Monitor" of "METER/M&A" and check the "PKB SW" monitor value. Refer to WCS-23. D "Component Function Check". Is the inspection result normal? Е YES >> Replace combination meter. NO >> GO TO 2. 2.CHECK PARKING BRAKE SWITCH SIGNAL CIRCUIT Check the parking brake switch signal circuit. Refer to WCS-25, "Diagnosis Procedure". 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 WCS-25, "Component Inspection". Is the inspection result normal? YES >> Replace combination meter. Refer to MWI-69, "Removal and Installation". NO >> Replace parking brake switch. K M **WCS**

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THE KEY WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE KEY WARNING DOES NOT SOUND

Description INFOID:000000007352944

The key warning chime does not sound under the following conditions.

- Key inserted into the ignition key cylinder (Key switch signal ON)
- Ignition switch except in ON or START (Ignition switch signal OFF)
- Front door switch (driver side) open. [Front door switch (driver side) signal ON]

Diagnosis Procedure

INFOID:0000000007352945

1. CHECK BCM INPUT SIGNAL

- 1. Connect the CONSULT.
- Select the "Data Monitor" of "BCM (BUZZER)" and check the "KEY ON SW" monitor value. Refer to BCS-42, "Reference Value".

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-65, "Removal and Installation".

NO >> GO TO 2.

2.CHECK KEY SWITCH SIGNAL CIRCUIT

Check the key switch signal circuit. Refer to DLK-285, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check applicable parts, and repair or replace corresponding parts.

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

Check the front door switch (driver side) signal circuit. Refer to DLK-277, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair harness or connector.

4.CHECK FRONT DOOR SWITCH (DRIVER SIDE)

Check the front door switch (driver side), Refer to DLK-279, "Component Inspection",

Is the inspection result normal?

YES >> Replace the BCM. Refer to BCS-65, "Removal and Installation".

NO >> Replace the front door switch (driver side). Refer to DLK-409, "Removal and Installation".

PRECAUTION

PRECAUTIONS FOR USA AND CANADA

FOR USA AND CANADA: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" INFOID:0000000007352946

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.

FOR MEXICO

FOR MEXICO: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" INFOID:0000000007352947

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. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

Always observe the following items for preventing accidental activation.

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

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

WARNING:

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PRECAUTIONS

< PRECAUTION >

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.