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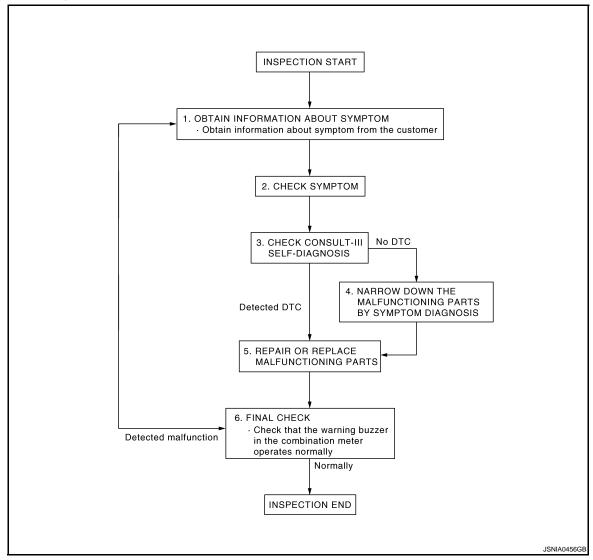
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow INFOID:0000000004236539

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-iii self-diagnosis results

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

- 1. Connect CONSULT-III and perform "Self Diagnostic Result" of "METER/M&". Refer to WCS-14, "CONSULT-III Function (METER/M&A)".
- 2. Check if DTC is detected. Refer to WCS-44, "DTC Index".

NOTE:

If "CAN COMM CIRCUIT [U1000]" is displayed, start with the diagnosis for the CAN communication system. Refer to MWI-36, "Diagnosis Procedure".

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.

FUNCTION DIAGNOSIS

WARNING CHIME SYSTEM WARNING CHIME SYSTEM

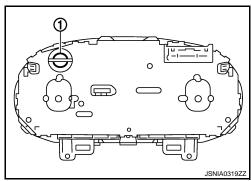
WARNING CHIME SYSTEM: System Diagram

INFOID:0000000004236540 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

WARNING CHIME SYSTEM: System Description

The buzzer (1) 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-34, "WARNING FUNCTION: System Description".



WARNING CHIME FUNCTION LIST

Warning functions	Signal name	Warning chime judge unit
Light reminder warning chime	 Ignition switch signal Lighting switch position signal Front 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: 2008 August 2009 Rogue

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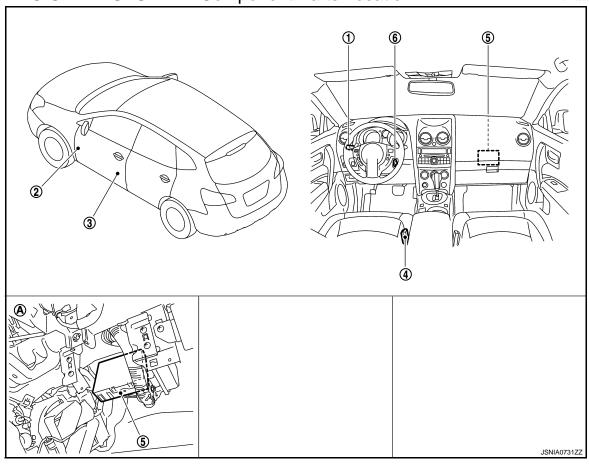
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< FUNCTION DIAGNOSIS >

Warning functions	Signal name	Warning chime judge unit
Parking brake release warning chime	 Vehicle speed signal Parking brake switch signal	Combination meter
Intelligent Key warning chime	Refer to DLK-281, "System Description".	Intelligent Key unit

WARNING CHIME SYSTEM : Component Parts Location

INFOID:0000000004236542



- 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:0000000004236543

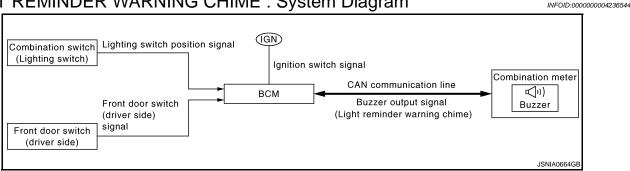
Unit	Description		
Combination meter	 Receives the buzzer output signal from BCM and Intelligent Key unit with the CAN communication line and sounds the buzzer. Judges the parking brake release warning according to the vehicle speed signal received from the ABS actuator and electric unit (control unit) 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.		

< FUNCTION DIAGNOSIS >

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-24, "Description".

LIGHT REMINDER WARNING CHIME

LIGHT REMINDER WARNING CHIME: System Diagram



LIGHT REMINDER WARNING CHIME: System Description

INFOID:0000000004236545

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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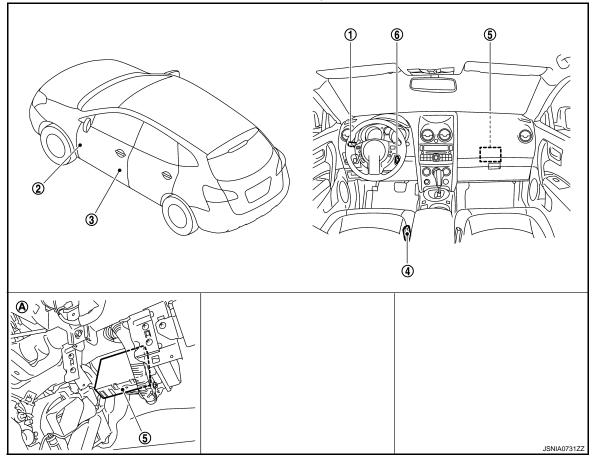
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LIGHT REMINDER WARNING CHIME: Component Parts Location

INFOID:0000000004236546



- 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:000000000423654

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

< FUNCTION DIAGNOSIS >

SEAT BELT REMINDER WARNING CHIME: System Diagram

INFOID:0000000004236548

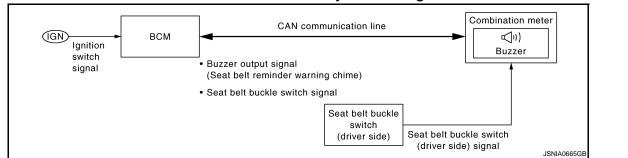
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SEAT BELT REMINDER WARNING CHIME: System Description

INFOID:0000000004236549

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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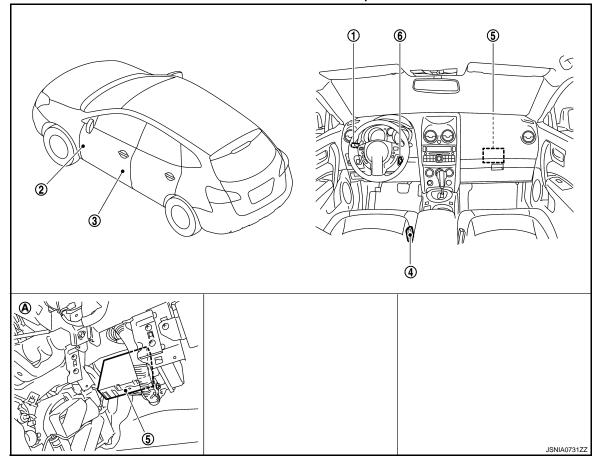
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SEAT BELT REMINDER WARNING CHIME : Component Parts Location

INFOID:000000000423658



- 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:000000000423655

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-22, "Description".	

PARKING BRAKE RELEASE WARNING CHIME

< FUNCTION DIAGNOSIS >

PARKING BRAKE RELEASE WARNING CHIME: System Diagram



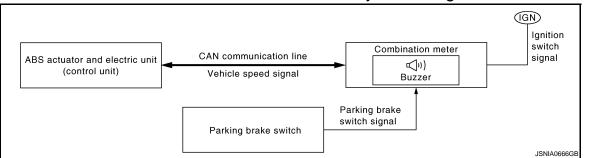
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PARKING BRAKE RELEASE WARNING CHIME: System Description

INFOID:0000000004236553

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.

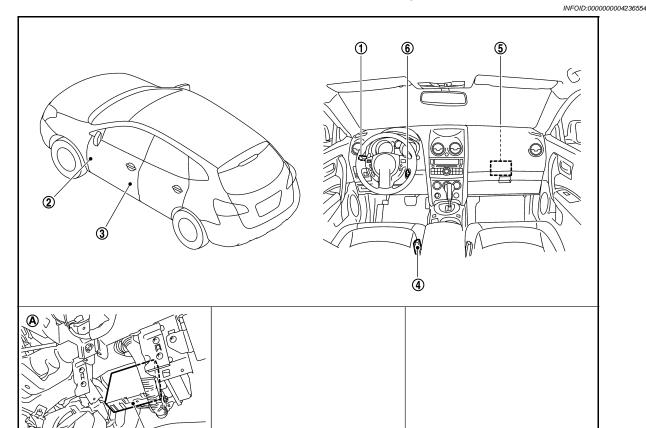
- Vehicle speed is 7 km/h (4.3 MPH) or more
- Parking brake switch ON

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



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< FUNCTION DIAGNOSIS >

- 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

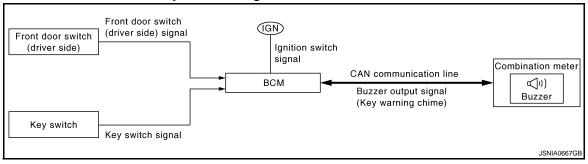
PARKING BRAKE RELEASE WARNING CHIME: Component Description INFOID:000000004236555

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-24, "Description".

KEY WARNING CHIME

KEY WARNING CHIME: System Diagram

INFOID:0000000004236556



KEY WARNING CHIME: System Description

INFOID:0000000004236557

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:0000000004236558

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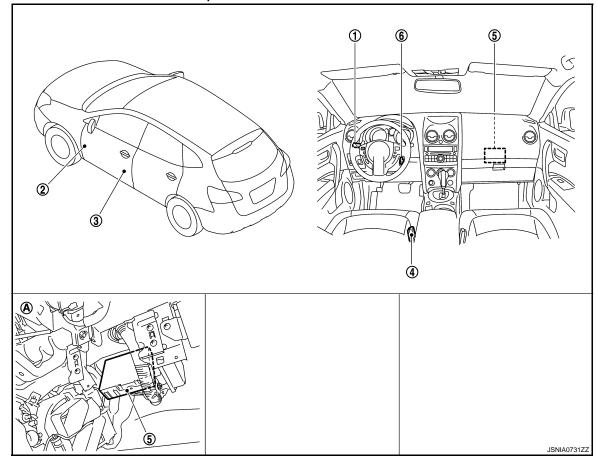
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- 1. Combination switch (Lighting switch)
- 4. Seat belt buckle switch (driver side)
- A. Over the glove box
- 2. Parking brake switch
- 5. BCM

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

KEY WARNING CHIME: Component Description

INFOID:0000000004236559

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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DIAGNOSIS SYSTEM (METER)

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (METER)

CONSULT-III Function (METER/M&A)

INFOID:0000000004512078

CONSULT-III FUNCTION (METER/M&A)

System	Diagnosis mode	Description
METER/M&A	Self Diagnostic Result	Combination meter checks the conditions and displays memorized error.
WEILIVIWAA	Data Monitor	Displays combination meter input/output data in real time.

SELF DIAGNOSTIC RESULT

Refer to MWI-68, "DTC Index".

DATA MONITOR

Display Item List

Display item [Unit]	MAIN SIGNALS	Description
SPEED METER [km/h]	х	Value of vehicle speed signal received from ABS actuator and electric unit (control unit) with CAN communication line. NOTE: 655.35 is displayed when the malfunction signal is received.
SPEED OUTPUT [km/h]	Х	Vehicle speed signal value transmitted to other units with CAN communication line. NOTE: 655.35 is displayed when the malfunction signal is received.
ODO OUTPUT [km/h or mph]		Odometer signal value transmitted to other units with CAN communication line.
TACHO METER [rpm]	х	Value of the engine speed signal received from ECM with CAN communication line. NOTE: 8191.875 is displayed when the malfunction signal is received.
FUEL METER [lit.]	Х	Fuel level indicated on combination meter.
W TEMP METER [°C]	х	Value of engine coolant temperature signal received from ECM with CAN communication line. NOTE: 215 is displayed when the malfunction signal is input.
INST FUEL [km/L]		This item is displayed, but cannot be monitored.
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 slip indicator lamp judged from slip indicator lamp signal received from ABS actuator and electric unit (control unit) with CAN communication line.
BRAKE W/L [On/Off]		Status of brake warning lamp judged from brake warning lamp signal received from ABS actuator and electric unit (control unit) with CAN communication line. NOTE: Displays "Off" if the brake warning lamp is illuminated when the valve check starts, the parking brake switch is turned ON or the brake fluid level switch is turned ON.
DOOR W/L [On/Off]		Status of door warning lamp judged from door 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.

DIAGNOSIS SYSTEM (METER)

< FUNCTION DIAGNOSIS >

Display item [Unit]	MAIN SIGNALS	Description	
TURN IND [On/Off]		Status of turn indicator lamp judged from turn indicator signal received from BCM with CAN communication line.	
LIGHT IND [On/Off]		Status of light indicator lamp judged from position light request signal received from BCM with CAN communication line.	
OIL W/L [On/Off]		Status of oil pressure warning lamp judged from oil pressure switch signal received from IPDM E/R with CAN communication line.	
MIL [On/Off]		Status of malfunction indicator lamp judged from malfunctioning indicator lamp signal received from ECM with CAN communication line.	
CRUISE IND [On/Off]		Status of CRUISE indicator judged from ASCD CRUISE lamp signal received from ECM with CAN communication line.	
SET IND [On/Off]		Status of set indicator judged from ASCD SET indicator signal received from ECM with CAN communication line.	
O/D OFF IND [On/Off]		Status of O/D OFF indicator lamp judged from OD switch signal received from OD control switch.	
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 judged from AWD signal received from AWD control unit with the CAN communication line.	
FUEL W/L [On/Off]		Status of Low-fuel warning lamp judged from identified fuel level.	
AIR PRESS W/L [On/Off]		Status of low tire pressure warning lamp judged from the tire pressure signal received from BCM with CAN communication line.	
KEY G/Y W/L [On/Off]		Status of key warning lamp (G) judged from key warning signal received from Intelligent Key unit with CAN communication line.	
KEY R W/L [On/Off]		Status of key warning lamp (R) judged from key warning signal received from Intelligent Key unit with CAN communication line.	
KEY KNOB W/L [On/Off]		Status of Key knob switch received from Intelligent Key unit with the CAN communication line.	
EPS W/L [On/Off]		Status of EPS warning lamp judged from EPS warning lamp signal received from EPS control unit with the CAN communication line.	
CHAGE W/L [On/Off]		Status of charge warning lamp judged from alternator signal received from alternator.	
SHIFT IND [P/ R/ N/ D/ M1/ M2/ M3/ M4/ M5/ M6]		Status of shift position indicator judged from shift position signal and manual mode indicator signal received from TCM with CAN communication line.	
4WD IND [AUTO/LOCK/2W/4Lo/HL1/HL2/ MALF]		This item is displayed, but cannot be monitored.	
O/D OFF SW [On/Off]		Status of OD control switch.	
M RANGE SW [On/Off]		Status of mode select switch (manual).	
NM RANGE SW [On/Off]		Status of mode select switch (auto).	
AT SFT UP SW [On/Off]		Status of position select switch (up).	
AT SFT DWN SW [On/Off]		Status of position select switch (down).	
ST SFT UP SW [On/Off]		Status of paddle shifter up switch.	
ST SFT DWN SW [On/Off]		Status of paddle shifter down switch.	

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DIAGNOSIS SYSTEM (METER)

< FUNCTION DIAGNOSIS >

Display item [Unit]	MAIN SIGNALS	Description	
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 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 with CAN communication line.	
BUZZER [On/Off]	Х	Buzzer status (in the combination meter) judged with the buzzer output signal received from BCM via CAN communication and the warning output condition of the combination meter.	

NOTE:

Some items are not available according to vehicle specification.

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:0000000004236561

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APPLICATION ITEM

CONSULT-III 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-63, "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-III	Diagnosis mode		
System	sub system selection item	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		×	×
Air conditioner	AIR CONDITONER		×	
Intelligent Key system	INTELLIGENT KEY		×	
Combination switch	COMB SW		×	
_	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	TPMS (AIR PRESSURE MONITOR)	×	×	×
Panic alarm system	PANIC ALARM			×

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

BUZZER

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DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

BUZZER: CONSULT-III Function (BCM - BUZZER)

INFOID:0000000004236562

CONSULT-III FUNCTION (BCM - BUZZER)

Test item	Diagnosis mode	Description
Buzzer	Data Monitor	Displays BCM input data in real time.
Duzzei	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 reminder warning chime operation can be checked by operating the relevant function (On/Off). The seat belt warning chime operation can be checked by operating the relevant function (On/Off).

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

COMBINATION METER

COMBINATION METER: Diagnosis Procedure

INFOID:0000000004535323

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1.CHECK FUSE

Check for blown fuses.

Signal name	Fuses No.
Battery power supply	9
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 terminal and ground.

	Terminals			Ignition switch position	
((+)		ignition switch position		
Combination meter		(-)	OFF	ON	
Connector	Terminal		OH		
M34	1	Ground	Battery voltage	Battery voltage	
IVIO4	2	Ground	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

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

Combination meter			Continuity	
Connector	Terminal	Ground	Continuity	
M34	3	Glound	Existed	
10134	23		LXISIGU	

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 FUSES AND FUSIBLE LINK

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

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INFOID:0000000004553943

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

Signal name	Fuses and fusible link No.
Potton, power cumply	10
Battery power supply	J
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		Oll	ACC	ON	
M67 M65	70		Battery	Battery	Battery	
	57		voltage	voltage	voltage	
	11	Ground	Approx. 0 V	Battery voltage	Battery voltage	
	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	CM		Continuity
Connector	Connector Terminal		Continuity
M67	67		Existed

Does continuity exist?

YES >> INSPECTION END

NO >> Repair the harness or connector.

METER BUZZER CIRCUIT

< COMPONENT DIAGNOSIS >

METER BUZZER CIRCUIT Α Description INFOID:0000000004236565 • The buzzer for warning chime system is installed in the combination meter. В • The combination meter sounds the alarm buzzer based on the signals transmitted from various units. Component Function Check INFOID:0000000004236566 1. CHECK OPERATION OF METER BUZZER Connect the CONSULT-III Perform "LIGHT WARN ALM", "IGN KEY WARN ALM" or "SEAT BELT WARN TEST" in "ACTIVE TEST" D of "BCM (BUZZER)". Does meter buzzer beep? Е >> INSPECTION END YES 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? Н YES >> Replace combination meter. Refer to MWI-86, "Removal and Installation". NO >> Replace BCM. Refer to BCS-67, "Exploded View". Diagnosis Procedure INFOID:0000000004236567 1. CHECK POWER SUPPLY AND GROUND CIRCUIT OF COMBINATION METER Check power supply and ground circuit of combination meter. Refer to MWI-41, "COMBINATION METER: Diagnosis Procedure". Is the inspection result normal? K YES >> INSPECTION END NO >> Repair or replace malfunctioning parts. M

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SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

Description

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

Component Function Check

INFOID:0000000004236569

1. CHECK COMBINATION METER INPUT SIGNAL

- 1. Connect the CONSULT-III
- 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

>> INSPECTION END

Diagnosis Procedure

INFOID:0000000004236570

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
		(–)	Condition	(Approx.)
Connector	Terminal			
M34	35 G		When driver seat belt is fastened	12 V
IVI34	30	Ground	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.
- Check continuity between combination meter harness connector terminal and front seat belt buckle switch (driver side) harness connector terminal.

Combina	tion meter	Seat belt buckle s	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.

Combina	tion meter		Continuity
Connector	Terminal	Ground	Continuity
M34	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

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

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

Seat belt buckle s	switch (driver side)		Continuity
Connector	Terminal	Ground	Continuity
B409	2		Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

Component Inspection

1. CHECK SEAT BELT BUCKLE SWITCH UNIT

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

Term	ninals	Condition	Continuity
1	2	When driver seat belt is fastened	Not existed
'	1 2	When driver seat belt is unfastened	Existed

Is the inspection result normal?

YES >> INSPECTION END

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

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PARKING BRAKE SWITCH SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

PARKING BRAKE SWITCH SIGNAL CIRCUIT

Description INFOID:000000004236572

Transmits the parking brake switch signal to the combination meter.

Diagnosis Procedure

INFOID:0000000004236573

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
IVI34	20	Ground	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.

Combina	tion meter	Parking bi	ake switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M34	26	E103	1	Existed

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

Combina	tion 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:0000000004236574

Refer to BRC-45, "Component Inspection".

< COMPONENT DIAGNOSIS > WARNING CHIME SYSTEM Α Wiring Diagram - WARNING CHIME -INFOID:0000000004236575 To CAN system В DATA LINK CONNECTOR (M4) C (IK): With Intelligent Key (OI): Without Intelligent Key (WA): With advanced air bag (OB): Without advanced air bag D Е W355 F 15 M77 E105 FRONT DOOR SWITCH (DRIVER SIDE) G COMBINATION METER (BUZZER) Н BCM (BODY CONTROL MODULE) (M65), (M66), (M67) J SEAT BELT BUCKLE SWITCH (DRIVER SIDE) (B409): (WA) *: This connector is not shown in "Harness Layout". Κ 35: (WA) B20 *****(8401)* 8401 6 B20 M13 COMBINATION SWITCH L IGNITION SWITCH ON or START M 10A wcs **WARNING CHIME** 0

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E105 M77

BATTERY

WARNING CHIME Connector No. B3	Connector No. B20	Connector No. B34	Connector No. B401
WIRE TO WIRE TH32MW-NH	Connector Name WIRE TO WIRE Connector Type NSOBFW-CS	Connector Name FRONT DOOR SWITCH (DRIVER SIDE) Connector Type A03FW	Connector Name WIRE TO WIRE Connector Type NSOBMW-CS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 10 11 18 18 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4.5 3 4 5 6	⊘- ~∞	HS. 6543
Signal Name [Specification]	Terminal Color Signal Name [Specification] 2 BR -	Terminal Color Signal Name [Specification] 2 PP	Terminal Color Signal Name Specification
B409 SEAT BELT BUCKLE SWITCH (DRIVER SIDE)	Connector No. E103 Connector Name PARKING BRAKE SWITCH	Connector No. E105 Connector Name WRE TO WIRE	Connector No. M4 Connector Name DATA LINK CONNECTOR
TK03FW	Connector Type P0IFB-A	Connector Type TH80FW-CS16-TM4	Connector Type BD16FW
321	48	x = 0 = 0 x = 0 = 0 x = 0 = 0 1 =	H.S.
Signal Name [Specification]	Terminal Golor Signal Name [Specification] No. of Wire V	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 5 Y -	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 14 14 14 14 14 14 14 1

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< COMPONENT DIAGNOSIS >

ы swrtcн 9 8 7 2 3 4 5 6	Signal Name (Specification) INDUT 1 INDUT 2 INDUT 3 INDUT 3 INDUT 4 INDUT 5 OUTPUT 1 OUTPUT 2 OUTPUT 5 OUTPUT 5 OUTPUT 5 OUTPUT 5 OUTPUT 5				АВ
Connector No. M27 Connector Name COMBINATION SWITCH Connector Type TKI 16FW MA. 12 13 10	Terminal Color No. of Wire 1 Ver 2 B 2 L 4 GR 5 BR 6 P 7 R 7 R 7 R 9 V				C
MZS IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID TKOBMGY TTO 3 4 5 6	Signal Name [Specification]	MR60 AIR BAG DAGANOSIS SENSOR UNIT (WITHOUT ADVANCED AIR BAG) TRZORY-EX-SC 11 12 13 15 10 12 23 24 2 6 11 19 15 20 22 21 2 16 1 19 15 20 22 21	Signal Name [Specification] A/B W/L		E
Connector No. M25 Connector Name IGNITION K Connector Type ITKOBMGY MAN. H.S.	Terminal Color S No. of Wire 1 LG 2 R	Connector No. M60 Connector Name (WITHOUT ADV Connector Type ITX20FY-EX-SC 18 17 19 1 19 1 19 1 19 1 1	Terminal Color S No. of Wire 15 LG		G
# P	Signal Name [Specification]	MR59 AIR BAG DACANOSIS SENSOR UNIT TRZBFY-EX-SG 17	Signal Name [Specification] A/B W/L		I J
Connector No. M24 Connector Name KEY SWITCH Connector Type TK02MBR-P	Terminal Color No. of Wire 1 LG 2 GR	Connector No. M59 Connector Name (WITH ADVANCE Connector Type ITZBFY-EX-SC. 1.3	Terminal Color No. of Wire 15 LG		K
CHIME MI3 WRE TO WIRE THSZEW-NH 13 [2] [1] [0] 9 8 7 6 5 4 3 2 1 99 20 27 76 53 24 23 22 21 20 19 18 17	Signal Name (Specification)	SAB40FW SAB40F	Signal Name (Specification) AIR BAG GAN-H GAN-H PARKING BRAKE SW SEAT BELT BUCKLE SW (DRIVER SIDE)		M WCS
WARNING CHIME Connector No. M13 Connector Name WIRE TO WILL Connector Type IT-RZEPW-NH M.S. 161514131211110	Terminal Color No. Terminal Color No. 14 O 15 W 15 W 15 W 15 W 15 W 15 W	Connector No. Connector Name Or Connector Type ST. Connector Type ST. Connector Type ST. Connector Type ST.	Terminal Color No. of Were 15 LG 21 L 22 P 26 V 35 O	JCNWM1635GI	O P

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L MODULE) Connector No. M67 Connector Type READBEB-FHAG-SA FEAGBEB-FHAG-SA FEAGBEB-FHAG-FHAG-SA FEAGBEB-FHAG-FHAG-SA FEAGBEB-FHAG-FHAG-FHAG-SA FEAGBEB-FHAG-FHAG-FHAG-FHAG-	Terminal Color Signal Name [Specification] No. Of Wire Signal Name [Specification] No. Of Wire Specification] Signal Name [Specification] Of Wire Specification] Of Wire Specification Of Wire Specification Of Wire Specification Of Wire O	
38 G IGN Connector No. M66 CONNE	Terminal Color of Wire Signal Name ISpaci	
WARNING CHIME Jonnector No. M65 Jonnector Type TH40FW-NH H3. TT2 14 15 15 17 18 PRINTER AND	Signal Mane [Specification] INPUT 5 INPUT 4 INPUT 3 INPUT 1 INPUT 1 OUTPUT 4 OUTPUT 3 OUTPUT 3 OUTPUT 2 OUTPUT 2	WIRE TO WIRE THBOMW-CS16-TM4 THBOMW-CS16-TM4 THBOMW-CS16-TM4 THBOMW-CS16-TM4 THBOMW-CS16-TM4 THBOMW-CS16-TM4 THBOMW-CS16-TM4 THBOMW-CS16-TM4 THBOMW-CS16-TM4 THBOMW-CS16-TM6 THBOMW-CS1

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< ECU DIAGNOSIS >

ECU DIAGNOSIS

COMBINATION METER

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item		Condition	Value/Status
SPEED METER [km/h]	Ignition switch ON	While driving	Equivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received
SPEED OUTPUT [km/h]	Ignition switch ON	While driving	Requivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received
ODO OUTPUT	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 mal- function signal is received
FUEL METER [lit]	Ignition switch ON	_	Values according to fuel level
W TEMP METER [°C]	Ignition switch ON	_	Values according to engine coolant temperature NOTE: 215 is displayed when the malfunction signal is input
INST FUEL [km/l]	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	_
ABS W/L	Ignition switch	ABS warning lamp ON	On
ADS W/L	ON	ABS warning lamp OFF	Off
VDC/TCS IND	Ignition switch	VDC OFF indicator lamp ON	On
VDC/TCS IND	ON	VDC OFF indicator lamp OFF	Off
SLIP IND	Ignition switch	SLIP indicator lamp ON	On
OLII IND	ON	SLIP indicator lamp OFF	Off
BRAKE W/L	Ignition switch	Brake warning lamp ON	On
	ON	Brake warning lamp OFF	Off
DOOR W/L	Ignition switch	Door warning lamp ON	On
5001(11/12	ON	Door warning lamp OFF	Off
HI-BEAM IND	Ignition switch	High beam indicator lamp ON	On
	ON	High beam indicator lamp OFF	Off
TURN IND	Ignition switch	Turn signal indicator lamp ON	On
	ON	Turn signal indicator lamp OFF	Off
LIGHT IND	Ignition switch	Light indicator lamp ON	On
	ON	Light indicator lamp OFF	Off
OIL W/L	Ignition switch	Oil pressure warning lamp ON	On
	ON	Oil pressure warning lamp OFF	Off

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Monitor Item		Condition	Value/Status
MIL	Ignition switch	Malfunction indicator lamp ON	On
VIIL	ON	Malfunction indicator lamp OFF	Off
CRUISE IND	Ignition switch	Cruise indicator lamp ON	On
CRUISE IND	ON	Cruise indicator lamp OFF	Off
SET IND	Ignition switch	SET indicator lamp ON	On
SET IND	ON	SET indicator lamp 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
4WD W/L	Ignition switch	AWD warning lamp ON	On
4VVD VV/L	ON	AWD warning lamp OFF	Off
4WD LOCK IND	Ignition switch	LOCK indicator lamp ON	On
4WD LOCK IND	ON	LOCK indicator lamp OFF	Off
	Ignition switch	Low-fuel warning lamp ON	On
FUEL W/L	ON	Low-fuel warning lamp OFF	Off
AIR PRES W/L	Ignition switch	Low tire pressure warning lamp ON	On
MIN FRES W/L	ON	Low tire pressure warning lamp OFF	Off
KEY G/Y W/L	Ignition switch	KEY warning lamp (green/yellow) ON	On
NET G/T W/L	ON	KEY warning lamp (green/yellow) OFF	Off
KEY R W/L	Ignition switch ON	KEY warning lamp (red) ON	On
KETK W/L		KEY warning lamp (red) OFF	Off
KEY KNOB W/L	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
ED0.14//	Ignition switch	EPS warning lamp ON	On
EPS W/L		EPS warning lamp OFF	Off
	Ignition switch	Chage warning lamp ON	On
CHAGE W/L	ŎN	Chage warning lamp OFF	Off
		Shift position indicator P display	Р
		Shift position indicator R display	R
		Shift position indicator N display	N
		Shift position indicator D display	D
	Ignition switch	Shift position indicator M1 display	M1
SHIFT IND	ON	Shift position indicator M2 display	M2
		Shift position indicator M3 display	M3
		Shift position indicator M4 display	M4
		Shift position indicator M5 display	M5
		Shift position indicator M6 display	M6
4WD IND	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	_
	Ignition switch	OD OFF switch pressed	On
O/D OFF SW	ON ON	OD OFF switch not pressed	Off
	Ignition switch	Manual mode	On
M RANGE SW	ON ON	Other than the above	Off
	Ignition switch	Manual mode	Off
NM RANGE SW	ON	Other than the above	On

< ECU DIAGNOSIS >

Monitor Item		Condition	Value/Status
AT SFT UP SW	Ignition switch	Selector lever (+) position	On
AT SET UP SW	ON	Other than the above	Off
AT SFT DWN SW	Ignition switch	Selector lever (–) position	On
AT SET DWIN SW	ON	Other than the above	Off
ST SFT UP SW	Ignition switch	Paddle shifter up operation	On
313510530	ON	Other than the above	Off
ST SFT DWN SW	Ignition switch	Paddle shifter down operation	On
21 2L1 DAMA 2AA	ON	Other than the above	Off
PKB SW	Ignition switch	Parking brake switch ON	On
PKB 200	ON	Parking brake switch OFF	Off
DUOKI E OW	Ignition switch	Seat belt buckle switch ON	On
BUCKLE SW	ON	Seat belt buckle switch OFF	Off
DDAKE OIL OW	Ignition switch	Brake fluid level switch ON	On
BRAKE OIL SW	ON	Brake fluid level switch OFF	Off
DISTANCE [km]	Ignition switch ON	_	Possible driving distance calculated by combination meter
OUTSIDE TEMP [°C or °F]	Ignition switch ON	_	Equivalent to ambient air temperature NOTE: This may not match the indicated value on the information display.
FUEL LOW OLO	Ignition switch	Low-fuel warning displayed	On
FUEL LOW SIG	ON	Low-fuel warning not displayed	Off
DUZZED	Ignition switch	Buzzer ON	On
BUZZER	ŎN	Buzzer OFF	Off

NOTE:

Some items are

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. color)	Description			Condition	Value
+	_	Signal name	Input/ Output	(Approx.)		
1 (LG)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage
2 (O)	Ground	Ignition signal	Input	Ignition switch ON	_	Battery voltage

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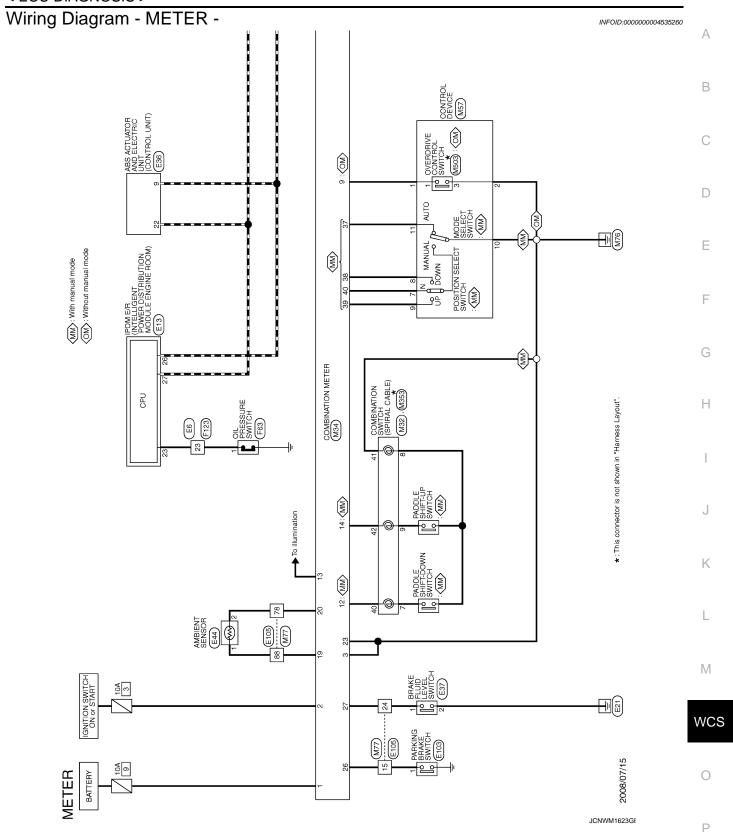
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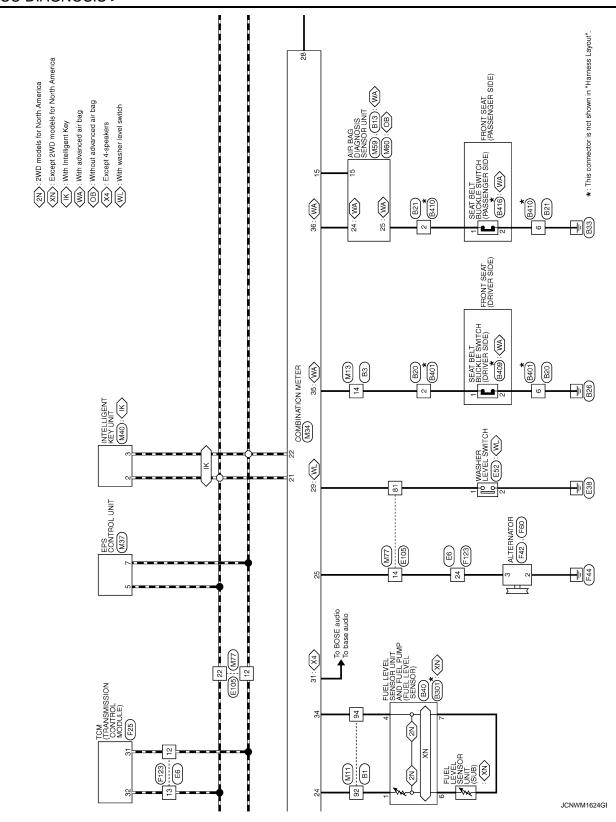
	nal No.	Description			O Pitter	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
3 (B)	Ground	Ground	_	Ignition switch ON	_	0 V
9		0/0 055		Ignition	O/D OFF switch pressed	0 V
(GR)	Ground	O/D OFF switch signal	Input	switch ON	O/D OFF switch not pressed	12 V
12 (G)	Ground	Paddle shifter down signal	Input	Ignition switch ON	Paddle shifter down operation Other than the above	0 V
13 (Y)	Ground	Illumination control signal	Input	Ignition switch ON	Lighting switch ON, then operate the illumination control switch	NOTE: When brightness level is midway (V) 10 0 JSNIA0010GB
14	Ground	Paddle shifter up signal	Input	Ignition switch	Paddle shifter up operation	0 V
(L)		1 0		ON	Other than the above	5 V
15	Ground	Air bag signal	Input	Ignition switch	Air bag warning lamp ON	4 V
(LG)		-	· 	ON	Air bag warning lamp OFF	0 V
19 (BR)	Ground	Ambient sensor signal	Input	Ignition switch ON	_	(V) 4 3 2 1 0 -10 0 10 20 30 40 1°C (14) (32) (50) (68) (86) (104) ("F) JSNIA0014GB
20 (SB)	Ground	Ambient sensor ground	_	Ignition switch ON	_	0 V
21 (L)	_	CAN-H	_	_	_	_
22 (P)	_	CAN-L	_	_	_	_
23 (B)	Ground	Ground	_	Ignition switch ON	_	0 V
24 (B)	Ground	Fuel level sensor signal ground	_	Ignition switch ON	_	0 V
25	Ground	Alternator signal	Input	Ignition switch	Charge warning lamp ON	0 V
(SB)				ON	Charge warning lamp OFF	12 V
26	Ground	Parking brake switch signal	Input	Ignition switch	Parking brake ON	0 V
(V)		-	•	ON	Parking brake OFF	5 V

< ECU DIAGNOSIS >

	inal No. e color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
27		Proke fluid level quitab eig		Ignition	Brake fluid level is normal	5 V
(BR)	Ground	Brake fluid level switch sig- nal	Input	switch ON	Brake fluid level is less than low level	0 V
28	0	On acceptance of the control of	la a t	Ignition	Security warning lamp ON	0 V
(B)	Ground	Security signal	Input	switch ON	Security warning lamp OFF	12 V
29				Ignition	Washer level switch ON	0 V
(W)	Ground	Washer level switch signal	Input	switch ON	Washer level switch OFF	12 V
30 (Y)	Ground	Vehicle speed signal (2 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).
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 0/13 4/13 7/13 11/13 13/13 JSNIA0423GB
35	0	Seat belt buckle switch sig-	lanut	Ignition	When driver seat belt if fas- tened	12 V
(O)	Ground	nal (driver side)	Input	switch ON	When driver seat belt is un- fastened	0 V
36	Ground	Seat belt buckle switch sig-	Input	Ignition switch	When getting in the passenger seat When passenger seat belt if fastened	12 V
(G)	Cidana	nal (passenger side)	Прис	ON	When getting in the passenger seat When passenger seat belt if unfastened	0 V
37	Ground	Not manual mode signal	Innut	Ignition switch	Manual mode	12 V
(P)	Ground	Not manual mode signal	Input	ON	Other than the above	0 V

Terminal No. (Wire color)		Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
38 Manual mode shift do	Manual mode shift down		Ignition	Selector lever (–) position	0 V	
(O)	Ground	signal	Input	Input switch	Other than the above	12 V
39		Manual mode shift up sig-	_	Ignition switch ON	Selector lever (+) position	0 V
(V)	Ground	nal	Input		Other than the above	12 V
40		Ignition	Manual mode	0 V		
LG)	Ground	Manual mode signal	Input switch ON	Other than the above	12 V	





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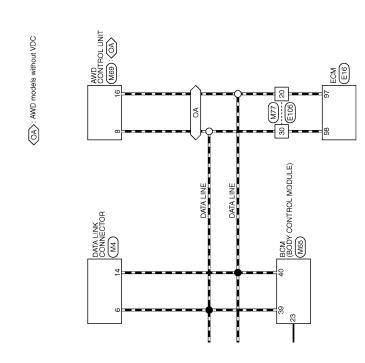
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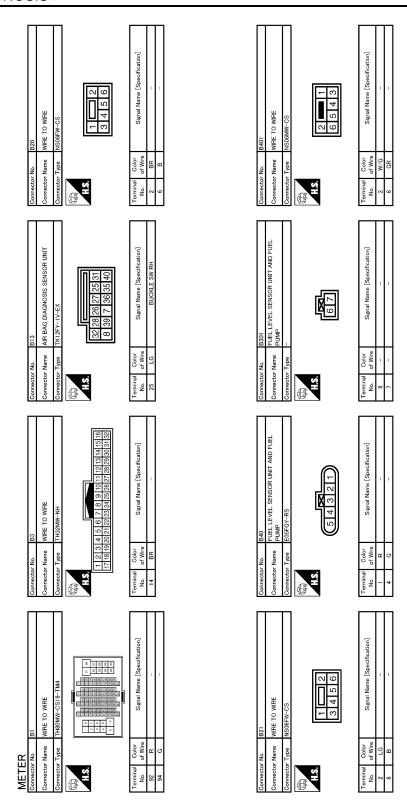
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Connector No. E6 Connector Name WIRE TO WIRE Connector Type TRZ4MW-1V 1 2 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 2 23 24	Terminal Color Signal Name [Specification]	Corrector No. E37 Corrector Name BRAKE FLUID LEVEL SWITCH Corrector Type VVOZFGY Corrector Type VVOZFGY The Corrector Type VVOZFGY Signal Name [Specification] 1 LG 2 B		A B C
Connector No. 6416 Connector Name (PASSENGER SIDE) Connector Type TK03FW H.S.	Terminal Color Signal Name [Specification] 1 W/G 2 GR	Connector No. E36 Connector Name ABS ACTUATOR AND ELECTRIC UNIT Connector Type RR28FB-NU4-DH Connector Type RR28FB-NU4-DH Terminal Calor No. of Wire Signal Name [Specification] 22 L CAN H Connector Name Calor Signal Name [Specification]		E F G
Connector No. B410 Connector Name WIRE TO WIRE Connector Type NS06MW-CS LIS 2 1 2 1 1 1 1 1 1 1	Terminal Color Signal Name [Specification] Color Col	Connector No. E16 Connector Name ECM Connector Type RP42FE-R25-L-LH		J K
METER Connector No. Connector Type TK03FW M.S. M.S. Connector Type TK03FW	Terminal Color Signal Name [Specification]	Connector No. E13 Connector Name PDM E/R (INTELLIGENT POWER	JCNWM1627Gi	M WCS

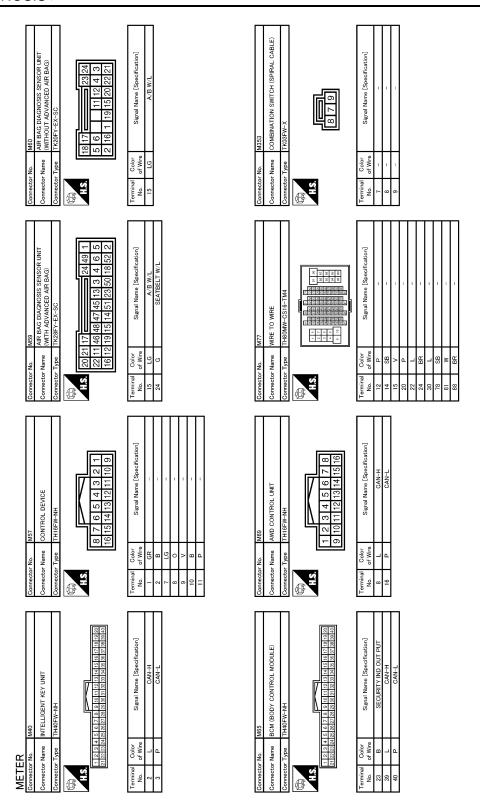
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Corrector No. E 105 Corrector Name WRE TO WRE Corrector Type TH80PW-CS16-TM4 H.S.	Terminal Color Signal Name [Specification] 12 P - -	Connector No. F63 Connector Name OIL PRESSURE SWITCH Connector Type EDIFGY-RS-AR H.S. Terminal Color No. of Wire Signal Name [Specification]
Corrector No. E103 Corrector Name PARKING BRAKE SWITCH Corrector Type POIFB-A H.\$	Terminal Golor Signal Name [Specification]	Connector No. F80
Connector No. E52 Connector Name WASHER LEVEL SWITCH Connector Type 202FBR	Terminal Color Signal Name (Specification) No. of Wire 1 W	Connector No. F42
METER Gonnector Name AMBIENT SENSOR Gonnector Type RSUZFE	Terminal Golor Signal Name [Specification] 1 BR	Connector No. F25 Connector Name TCM (TRANSMISSION CONTROL MODULE) Connector Type RH40FB-R28-L-RH (A) [3] [3] [3] [3] [3] [3] [3] [3] [3] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4

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Cornector No. M13	Cornector No. MS7 Cornector Type MAA08FB Cornector Type MAA08FB Terminal Color Signal Name [Specification] For of Vine Signal Name [Specification] 7 P P Color Color Signal Name [Specification]	A B C
WITE TO WIRE THBORW-CSI6-TM4 III III III III III III III III III I	CAN-L GND3(GRCUT) FUELLEVEL SSTR GND ALTERNATOR ALTERNATOR PARKING BRAKE SW BRAKE FLUID LEVEL SE SECH BELT BUCKLE SW (PASSENGER SIDE) SEAT BUCKLE SW (PASSENGER SIDE) S	E F G
Connector No. Connector Type Connector Type	22 P 23 P 24 B 2	Н
Connector No. M4 Connector Name DATA LINK CONNECTOR Connector Type BD16FW	Connector No. M34 COMBINATION METER	J K
	SWITCH (SPIRAL CABLE) 123	L M
Connector No. F123	Connector No. M32	WCS O JCNWM1629GI
		Р

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JCNWM1630GE

Fail-safe

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

< ECU DIAGNOSIS >

	Function	Specifications	
Speedometer		Reset to zero by suspending communication.	
Tachometer		Neset to zero by suspending communication.	
Meter illumination control		Change to nighttime mode.	
Buzzer ABS warning lamp		Turned off by suspending communication.	
Speedometer Tachometer Meter illumination control Buzzer ABS warning lamp Brake warning lamp VDC OFF indicator lamp SLIP indicator lamp AWD warning lamp Low tire pressure warning lamp SPORT/CVT indicator lamp AWD indicator lamp AWD indicator lamp AWD LOCK indicator lamp			
	Brake warning lamp		
	VDC OFF indicator lamp	Turned on by suspending communication.	
	SLIP indicator lamp		
	AWD warning lamp		
	Low tire pressure warning lamp	The lamp turns ON after flashing for 1 minutes	
	SPORT/CVT indicator lamp		
	AWD indicator lamp		
Warning lamp/indicator	AWD LOCK indicator lamp		
lamp	Oil pressure warning lamp		
	Door warning lamp		
	Malfunction indicator lamp	Turned off by suspending communication.	
	CRUISE indicator lamp	runled on by suspending communication.	
	SET indicator lamp		
	KEY warning lamp		
	High beam indicator lamp		
	Turn signal indicator lamp		
	Tail indicator lamp		

DTC Index

Display contents of CONSULT-III	Ti	me	Diagnostic item is detected when	Refer to
U1000: CAN COMM CIRCUIT	CRNT	PAST	Combination meter is not transmitting or receiving CAN communication signal for 2 seconds or more.	<u>MWI-36</u>
U1010: CONTROL UNIT (CAN)	CRNT	PAST	Detecting error during the initial diagnosis of CAN controller of combination meter.	MWI-37
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.	<u>MWI-38</u>
B2267: ENGINE SPEED	CRNT	PAST	ECM continuously transmits abnormal engine speed signals for 2 seconds or more.	MWI-39
B2268: WATER TEMP	CRNT	PAST	ECM continuously transmits abnormal engine coolant temperature signals for 60 seconds or more.	MWI-40

NOTE

The details of TIME display are as follows.

- CRNT: The malfunctions that are detected now.
- PAST: The malfunctions was detected in the past. IGN counter is displayed on FED (Freeze Frame data).
- 1 39: The number is indicated when it is normal at past and a malfunction was detected in the past. It increases like $0 \to 1 \to 2 \dots 38 \to 39$ after returning to the normal condition whenever IGN OFF \to 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 >

BCM (BODY CONTROL MODULE)

Reference Value

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 SW	Mechanical key is removed from key cylinder	Off
KET ON SW	Mechanical key is inserted to key cylinder	On
CDL LOCK SW	Door lock/unlock switch does not operate	Off
CDL LOCK SW	Press door lock/unlock switch to the lock side	On
CDL UNLOCK SW	Door lock/unlock switch does not operate	Off
CDL UNLOCK SW	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 CW AC	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
DOOR SW-RR	Rear RH door closed	Off
DOOK SW-KK	Rear RH door opened	On
DOOD OW DI	Rear LH door closed	Off
DOOR SW-RL	Rear LH door opened	On
DACK DOOD CW	Back door closed	Off
BACK DOOR SW	Back door opened On Other than driver door key cylinder LOCK position Off Driver door key cylinder LOCK position On	On
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off
RET CTL LR-SW	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
RETUTE ON-SW	Driver door key cylinder UNLOCK position	er LOCK position On key cylinder UNLOCK position Off er UNLOCK position On
KEYLESS LOCK	"LOCK" button of key fob is not pressed	Off
RETLESS LOCK	"LOCK" button of key fob is pressed	On
KEYLESS UNLOCK	"UNLOCK" button of key fob is not pressed	Off
RETLESS UNLOCK	"UNLOCK" button of key fob is pressed	position Off On Off On Off On Off On Off On Off On Off
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
L KEY LINI OCK	"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
ACC ON SW	Ignition switch ACC or ON	On
DEAD DEE SW	Rear window defogger switch OFF	Off
REAR DEF SW	Rear window defogger switch ON	On
LIGHT SW 1ST	Lighting switch OFF	Off
	Lighting switch 1ST	On

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Monitor Item	Condition	Value/Status
DUCKI F CW	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
RETLESS 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
RRE LOR-UNLOR	LOCK/UNLOCK button of key fob is pressed and held simultaneously	On
	UNLOCK button of key fob is not pressed	Off
RKE KEEP UNLK	UNLOCK button of key fob is pressed and held	On
LII DEAM CW	Lighting switch OFF	Off
HI BEAM SW	Lighting switch HI	On
HEAD LAMP SW 1	Lighting switch OFF	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
LIEAD LAMB CW C	Lighting switch OFF	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
AUTO LIGHT SW	NOTE: The item is indicated, but not monitored.	Off
DA CCINIC CW	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	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
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
ENGINE DUN	Engine stopped	Off
ENGINE RUN	Engine running	On
DKD OW	Parking brake switch is OFF	Off On Off Off Off Off Off On Off
PKB SW	Parking brake switch is ON	On
CARGO LAMP SW	NOTE: The item is indicated, but not monitored.	Off
OPTICAL SENSOR	NOTE: The item is indicated, but not monitored.	0 V
ICNI SIM CANI	Ignition switch OFF or ACC	Off
IGN SW CAN	Ignition switch ON	On
ED WIDED !!!	Front wiper switch OFF	Off
FR WIPER HI	Front wiper switch HI	On
ED MIDED I C'''	Front wiper switch OFF	Off
FR WIPER LOW	Front wiper switch LO	On

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
ED WIDED INT	Front wiper switch OFF	Off
FR WIPER INT	Front wiper switch INT	On
ED WACHED CW	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
ED WIDED OTOD	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
DD WIDED ON	Rear wiper switch OFF	Off
RR WIPER ON	Rear wiper switch ON	On
RR WIPER INT RR WASHER SW RR WIPER STOP	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
FR WIPER INT Fro Fro Fro Fro INT VOLUME WIPER STOP Fro VEHICLE SPEED Wh RR WIPER ON RR WIPER INT RR	Rear wiper stop position	Off
	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 SW	Hazard switch OFF	Off
	Hazard switch ON	On
	Brake pedal is not depressed	Off
BRAKE SW	Brake pedal is depressed	On
HAZARD SW BRAKE SW	Blower fan motor switch OFF	Off
FAN ON SIG	Blower fan motor switch ON (other than OFF)	On
ALD COND CIV	Compressor ON is not requested from auto amp. (A/C indicator OFF, blower fan motor switch OFF or etc.)	Off
AIR COND SW	Compressor ON is requested from auto amp. (A/C indicator ON and blower fan motor switch ON).	On
I-KEY TRUNK	NOTE: The item is indicated, but not monitored.	Off
LIZEV DW DWN	UNLOCK button of Intelligent Key is not pressed	Off
I-KET PVV DVVN	UNLOCK button of Intelligent Key is pressed and held	On
LIZEV DANIO	PANIC button of Intelligent Key is not pressed	Off
I-KEY PANIC	PANIC button of Intelligent Key is pressed	On
DU IOU I OW	Return to ignition switch to "LOCK" position	Off
Brake pedal is depressed AN ON SIG Blower fan motor switch OFF Blower fan motor switch ON (other than OFF) Compressor ON is not requested from auto amp. (A/C indicator OFF, blower fan motor switch OFF or etc.) Compressor ON is requested from auto amp. (A/C indicator ON and blower fan motor switch ON). On KEY TRUNK NOTE: The item is indicated, but not monitored. UNLOCK button of Intelligent Key is not pressed Off UNLOCK button of Intelligent Key is pressed and held On PANIC button of Intelligent Key is pressed Off PANIC button of Intelligent Key is pressed On Return to ignition switch to "LOCK" position		
	When back door opener switch is not pressed	Off
I KNK OPNR SW	When back door opener switch is pressed	On
TRUNK CYL SW	NOTE: The item is indicated, but not monitored.	Off
HOOD SW	Close the hood NOTE: Vehicles of except for Mexico are OFF-fixed	Off
	Open the hood	On

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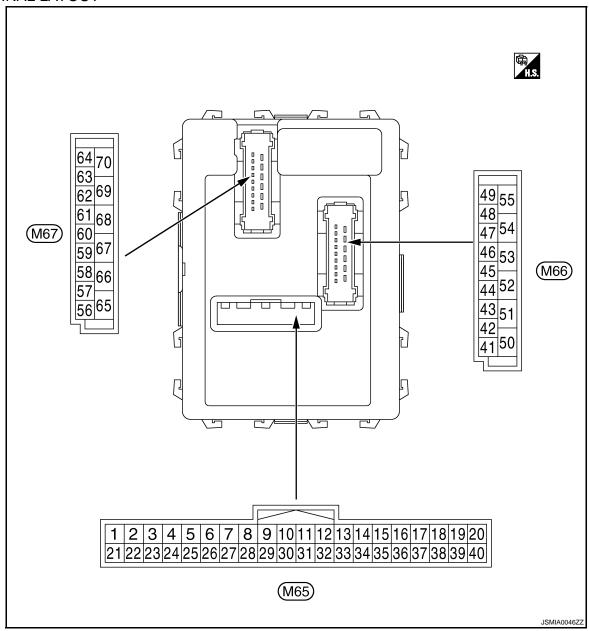
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Monitor Item	Condition	Value/Status
OIL PRESS SW	Ignition switch OFF or ACC Engine running	Off
	Ignition switch ON	On
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	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 REGOT FLT	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID REGOT FRI	ID of front RH tire transmitter is not registered	Yet
D REGST RR1	ID of rear RH tire transmitter is registered	Done
ID REGGI KKI	ID of rear RH tire transmitter is not registered	Yet
ID DECCT DL 4	ID of rear LH tire transmitter is registered	Done
ID REGST RL1	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
	Tire pressure indicator ON	On
01177ED	Tire pressure warning alarm is not sounding	Off
BUZZER	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-III. Refer to BCS-27, "COMB SW: CONSULT-III Function (BCM COMB SW)".
- BCM reads the status of the combination switch at 10 ms internal normally. Refer to BCS-9, "System Diagram".

	Terminal No. (Wire color) + - 1 Ground (V) Ground (V) Description Input/ Output Ignition key hole illumination Output Ignition key hole illumination Output Ignition key hole illumination ON Condition Condition OFF ON			Description				Value
+ -	Cian al nome	Input/	Condition		(Approx.)			
	-	Signal name	Output			(Approxi)		
	1	Ground	Ignition key hole illu-	Output	Ignition key hole	OFF	Battery voltage	
((V)	Giodila	mination control	Output	illumination	ON	0 V	

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	nal No.	Description				Value
+ (Wire	e color)	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 1.0 V
				tent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 +-10ms PKIB4953J 2.0 V
					All switch OFF	0 V
					Turn signal switch LH	
				Combination switch (Wiper intermit-	Lighting switch PASS	(V) 15
3 (Y)	Ground	Combination switch INPUT 4	Input		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 10ms PKIB4955J 0.8 V
					All switch OFF	0 V
					Front wiper switch LO	
				Combination	Front wiper switch MIST	(V) 15
4 (W)	Ground	Combination switch INPUT 3	Input	switch (Wiper intermit- tent dial 4)	Front wiper switch INT	10 5 0 ++10ms PKIB4959J 1.0 V

	nal No.	Description			- Ivi	Value	
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	/
					All switch OFF (Wiper intermittent dial 4)	0 V	
					Front washer switch (Wiper intermittent dial 4)	(V)	
					Rear washer ON (Wiper intermittent dial 4)	(V) 15 10 5	(
					Any of the condition below with all switch OFF	→ +10ms	[
5 (R)	Ground	Combination switch INPUT 2	Input	Combination switch	Wiper intermittent dial 1Wiper intermittent dial 5Wiper intermittent dial 6	PKIB4959J	
					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0	(
						0.8 V	
					All switch OFF (Wiper intermittent dial 4)	0 V	
					Front wiper switch HI (Wiper intermittent dial 4)	(V) 15	
					Rear wiper switch INT (Wiper intermittent dial 4)	15 10 5 0	
					Wiper intermittent dial 3 (All switch OFF)	++10ms PKIB4959J	,
						1.0 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	ľ
							W
					Any of the condition below with all switch OFF • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0	(
						PKIB4955J	

	inal No. e color)	Description				Value
+	-	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 cylin- der switch	NEUTRAL position	(V) ₁₅ 10 5 0 → 10ms JPMIA0587GB 8.0 - 8.5 V
					LOCK position	0 V
9	Crownd	Cton laws switch	lanut	Input Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
(R)	Ground	Stop lamp switch	Input		ON (Brake pedal is depressed)	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 Ignition switch A		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 JPMIA0587GB 8.0 - 8.5 V
					ON (When rear door RH opened)	0 V

< ECU DIAGNOSIS >

	inal No. e color)	Description		Condition		Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
15 [*] (O)	Ground	Tire pressure warning check switch	Input	Ignition switch OFF		(V) ₁₅ 10 5 0 → 10ms JPMIA0588GB 1.5 V
18 [*] (O)	Ground	Remote keyless en- try receiver ground	Input	Ignition switch O	N	0 V
(-)				Without Intelligent Key system	At any condition	5 V
19 [*] (V)	Ground	Remote keyless en- try receiver power supply	Input	With Intelligent	Ignition switch OFF For 3 seconds after ignition switch OFF to ON	0 V
				Key system	3 seconds or later after ig- nition switch OFF to ON	5 V
				Without Intelligent Key system	At any condition	(V) 15 10 5 DPMIA0589GB NOTE: The wave form changes according to the control of
20 [*] (GR)	Ground	Remote keyless entry receiver signal	Input		Ignition switch OFF For 3 seconds after ignition switch OFF to ON	ing to signal-receiving condition. 0 V
				With Intelligent Key system	3 seconds or later after ignition switch OFF to ON	(V) 15 10 5 0 JPMIA0589GB NOTE: The wave form changes according to signal-receiving condition.
21	Ground	Immobilizer anten-	Input/	Ignition switch O		Battery voltage

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	nal No.	Description				Value
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					ON	0 V
23 (B)	Ground	Security indicator signal	Input	Security indicator	Blinking (Ignition switch OFF)	(V) ₁₅ 10 5 0 → 1s JPMIA0590GB 12.0 V
					OFF	Battery voltage
25 (BR)	Ground	Immobilizer anten- na signal (Rx, Tx)	Input/ Output	Ignition switch O	FF	Battery voltage
		nd A/C switch	Input	Ignition switch OFF		
27 (Y)	Ground			Ignition switch ON	A/C switch OFF	(V) ₁₅ 10 5 0 → 10ms JPMIA0591GB 1.6 V
					A/C switch ON	0 V
-				Ignition switch O	FF	
28 (LG)	Ground	Blower fan switch	Input	Ignition switch ON	Blower fan switch OFF	(V) ₁₅ 10 5 0 → 10ms JPMIA0592GB 7.0 - 7.5 V
					Blower fan switch ON	0 V
29	Ground	Hazard switch	Input	Hazard switch	OFF	Battery voltage
(W)	Sistina	azara evitori	put	. ALGIG OWITOIT	ON	0 V
30	Ground	Back door opener	Input	Back door	Not pressed	Battery voltage
(G)	G) Ground switch input opener swi	opener switch	Pressed	0 V		

< ECU DIAGNOSIS >

	nal No. color)	Description	1			Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)	,
					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)	(V)	
					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5	
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6	0 → +10ms PKIB4956J	
					Wiper intermittent dial 7	1.0 V	(
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0	
33		Combination switch		Combination		PKIB4960J	
(GR)	Ground	OUTPUT 4	Output	switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15	
				Rear wiper switch INT (Wiper intermittent dial 4)	10 5		
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5	0 +10ms PKIB4958J	
					Wiper intermittent dial 6	1.2 V	

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	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	
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 10	
					Rear washer switch ON (Wiper intermittent dial 4)	5	
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	PKIB4958J	
	Ground	d Combination switch OUTPUT 2	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	(V) 15 10 5 0 + 10ms PKIB4960J	
35 (B)					Lighting switch 2ND	7.2 V	
					Lighting switch PASS	(V) 15	
					Front wiper switch INT	10 5 0	
					Front wiper switch HI	PKIB4958J	
36	Cround	Combination switch	Output	Combination switch	All switch OFF	(V) 15 10 5 0 + 10ms PKIB4960J 7.2 V	
(V)	Ground	OUTPUT 1	Output	(Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 5	
				terit didi 4)	Turn signal switch LH Front wiper switch LO (Front wiper switch MIST)		
					Front washer switch ON	+10ms PKIB4958J	
						1.2 V	

Terminal No. Description (Wire color)				Value		
+ (vvire	-	Signal name	Input/ Output		Condition	(Approx.)
37	Ground	Key switch	Innut	Insert mechanicader	al key into ignition key cylin-	Battery voltage
(LG)	Giouna	Key Switch	Input	Remove mechai cylinder	nical key from ignition key	0 V
38 (G)	Ground	Ignition switch ON	Input	Ignition switch C		0 V
39	Ground	CAN-H	Input/	Ignition switch C	ON or START	Battery voltage —
(L) 40 (P)	Ground	CAN-L	Output Input/ Output		_	_
43 (V)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	(V) ₁₅ 10 5 0
					ON (When back door opened)	0 V
44	Ground	Rear wiper auto stop	Input	Ignition switch	Rear wiper stop position	0 V
(B)	Olouliu	rteal wiper auto stop	Прис	ON	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
					LOCK position	1.6 V 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
					UNLOCK position	JPMIA0591GB 1.6 V 0 V

	nal No.	Description				Value	
+	color)	Signal name	Input/ Output		Condition	(Approx.)	
47 (W)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	(V) 15 10 5 0	
					ON (When driver door opened)	0 V	
48 (GR)	Ground	Rear door switch LH	Input	Rear door switch LH	OFF (When rear door LH closed)	(V) ₁₅ 10 5 0 + 10ms JPMIA0594GB 8.5 - 9.0 V	
					ON (When rear door LH opened)	0 V	
49	0	Back door lamp control	Outrot	Output Back door lamp switch DOOR position	Back door is closed (Back door lamp turns OFF)	Battery voltage	
(L)	Ground		Output		Back door is opened (Back door lamp turns ON)	0 V	
53	Ground	und Back door open	Output	Back door	Not pressed (Back door actuator is activated)	0 V	
(V)	Ground	Back door open	Output	opener switch	Pressed (Back door actuator is activated)	Battery voltage	
55 (SB)	Ground	Rear wiper motor	Output	Ignition switch ON	Rear wiper switch OFF	0 V	
(00)					Rear wiper switch ON interior room lamp battery	Battery voltage	
56 (Y)	Ground	Interior room lamp power supply	Output	saver operation t	time	0 V	
(1)		power suppry	- a.par		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			Other then UNLOCK (Actuator is not activated)	0 V	

< ECU DIAGNOSIS >

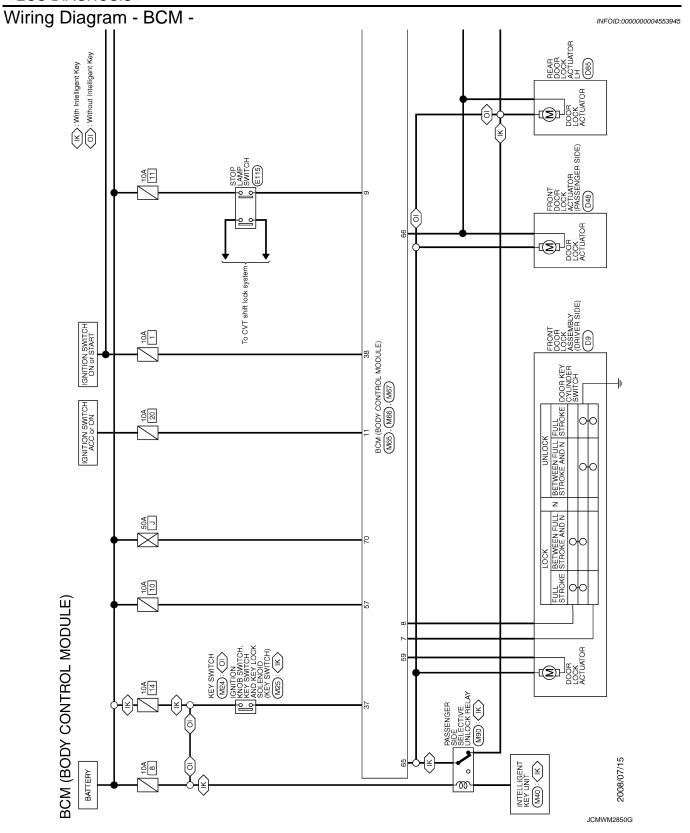
Terminal No.		Description	Description			Value	
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)	
					Turn signal switch OFF	0 V	
60 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1s PKIC6370E	
					Turn signal switch OFF	0 V	
61 (GR)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1s PKIC6370E	
63	Ground	Interior room lamp	Output	Interior room	OFF	Battery voltage	
(R)	Ground	timer control	Output	lamp	ON	0 V	
65	Ground	All doors LOCK	Output	All doors	LOCK (Actuator is activated)	Battery voltage	
(V)	Ground	ANI GOOLS LOOK	Output	All doors	Other then LOCK (Actuator is not activated)	0 V	
66	Ground	Passenger door and	Output	Passenger door	UNLOCK (Actuator is activated)	Battery voltage	
(G)		and rear door	Other then UNLOCK (Actuator is not activated)	0 V			
67 (B)	Ground	Ground	Output	Ignition switch ON		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 O	FF	Battery voltage	
70 (Y)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	Battery voltage	

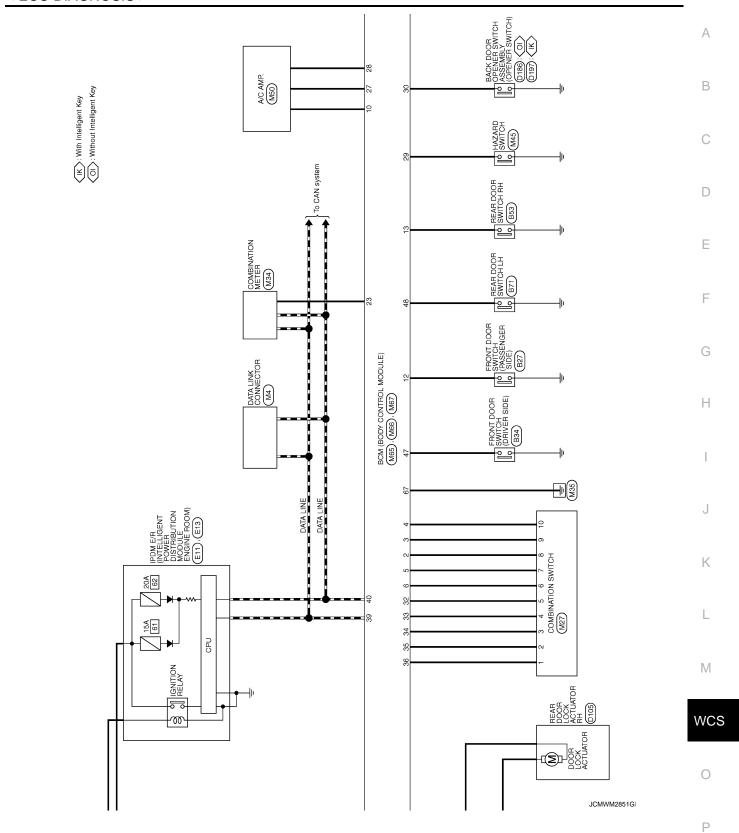
^{*:} Except for Mexico

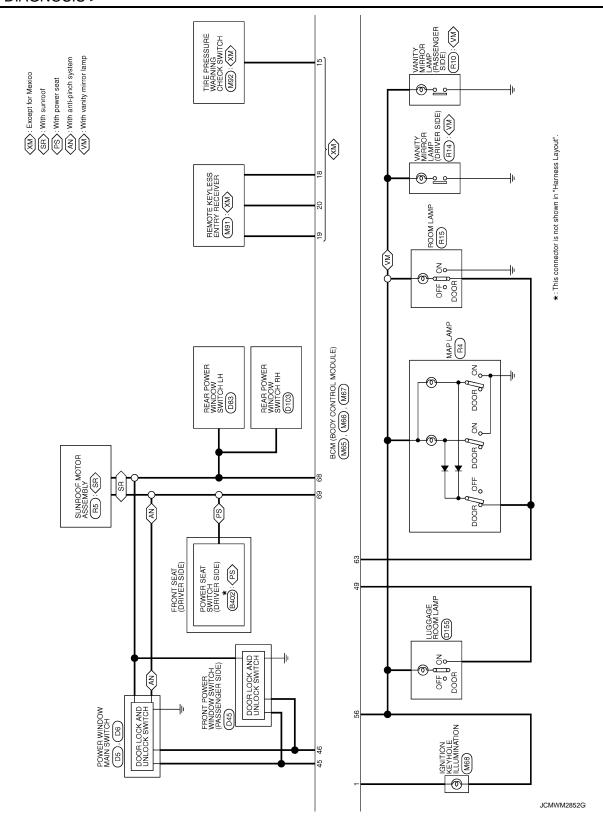
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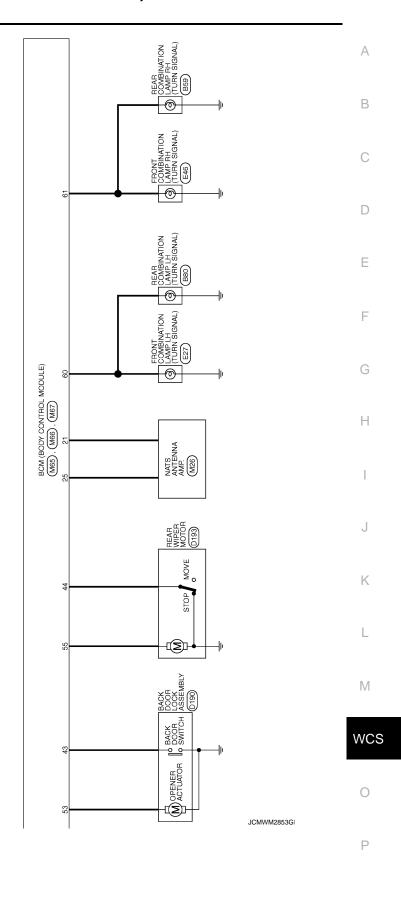
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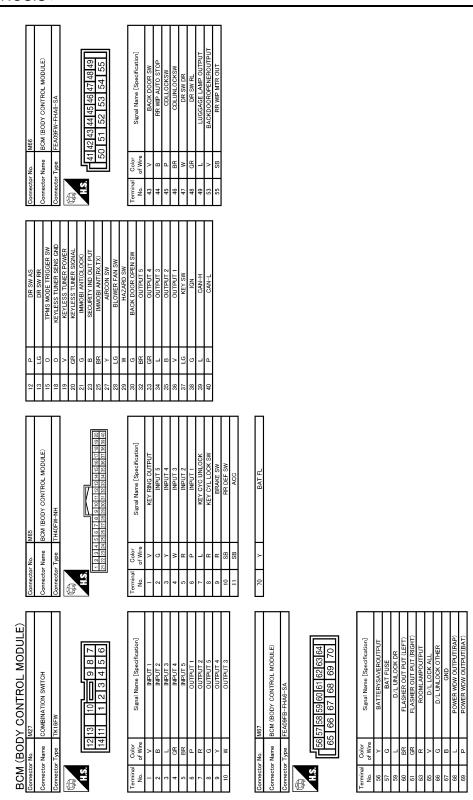
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JCMWM2854G

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 >

- 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.

HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status by the current value.

BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

NOTE:

The blinking speed is normal while activating the hazard warning lamp.

DTC Inspection Priority Chart

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	
	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	
	C1712: [CHECKSUM ERR] FL	
	C1713: [CHECKSUM ERR] FR	
	C1714: [CHECKSUM ERR] RR	
	C1715: [CHECKSUM ERR] RL	
3	C1716: [PRESS DATA ERR] FL	
	C1717: [PRESS DATA ERR] FR	
	C1718: [PRESS DATA ERR] RR	
	C1719: [PRESS DATA ERR] RL	
	C1720: [CODE ERR] FL	
	C1721: [CODE ERR] FR	
	C1722: [CODE ERR] RR	
	C1723: [CODE ERR] RL	
	C1724: [BATT VOLT LOW] FL	
	C1725: [BATT VOLT LOW] FR	
	C1726: [BATT VOLT LOW] RR	
	C1727: [BATT VOLT LOW] 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-35

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CONSULT display	Tire pressure monitor warning lamp ON	Reference		
C1704: LOW PRESSURE FL	×			
C1705: LOW PRESSURE FR	×	\\\\T 4E		
C1706: LOW PRESSURE RR	×	<u>WT-15</u>		
C1707: LOW PRESSURE RL	×			
C1708: [NO DATA] FL	×			
C1709: [NO DATA] FR	×	\\/T 17		
C1710: [NO DATA] RR	×	<u>WT-17</u>		
C1711: [NO DATA] RL	×			
C1712: [CHECKSUM ERR] FL	×			
C1713: [CHECKSUM ERR] FR	×	WT 20		
C1714: [CHECKSUM ERR] RR	×	<u>WT-20</u>		
C1715: [CHECKSUM ERR] RL	×			
C1716: [PRESS DATA ERR] FL	×			
C1717: [PRESS DATA ERR] FR	×	WT-23		
C1718: [PRESS DATA ERR] RR	×	<u>vv 1-23</u>		
C1719: [PRESS DATA ERR] RL	×			
C1720: [CODE ERR] FL	×			
C1721: [CODE ERR] FR	×	<u>WT-25</u>		
C1722: [CODE ERR] RR	×	<u>vv 1-23</u>		
C1723: [CODE ERR] RL	×			
C1724: [BATT VOLT LOW] FL	_			
C1725: [BATT VOLT LOW] FR	_	MT 00		
C1726: [BATT VOLT LOW] RR	_	<u>WT-28</u>		
C1727: [BATT VOLT LOW] RL	_			
C1729: VHCL SPEED SIG ERR	×	<u>WT-31</u>		
C1735: IGN CIRCUIT OPEN	_	BCS-36		

THE LIGHT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

THE LIGHT REMINDER WARNING DOES NOT SOUND

Description INFOID:0000000004236585

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

 ${f 1}$.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.

>> Refer to EXL-106. "Symptom Table" (xenon type), EXL-243. "Symptom Table" (halogen type). NO

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

Check the front door switch (driver side) signal circuit. Refer to <u>DLK-55</u>, "Diagnosis Procedure" (with Intelligent Key system), <u>DLK-299</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 DLK-57, "Component Inspection" (with Intelligent Key system), DLK-301, "Component Inspection" (without Intelligent Key system).

Is the inspection result normal?

YES >> Replace the BCM. Refer to BCS-67, "Removal and Installation".

>> Replace the front door switch (driver side). Refer to DLK-263, "Removal and Installation". NO

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WCS-67 Revision: 2008 August 2009 Rogue Α

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THE SEAT BELT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE SEAT BELT REMINDER WARNING DOES NOT SOUND

Description INFOID:0000000042365887

Seat belt reminder warning chime does not sound.

Trouble diagnosis procedure

INFOID:0000000004236588

1. CHECK COMBINATION METER INPUT SIGNAL

- 1. Connect the CONSULT-III.
- 2. Select the "Data Monitor" of "METER/M&A" and check the "BUCKLE SW" monitor value. Refer to WCS-22, "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-22, "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-23, "Component Inspection".

Is the inspection result normal?

YES >> Replace combination meter.

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

THE PARKING BRAKE RELEASE WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS > THE PARKING BRAKE RELEASE WARNING DOES NOT SOUND Α Description INFOID:0000000004236589 The parking brake warning chime does not sound at all even though driving the vehicle with the parking brake applied. Diagnosis Procedure INFOID:0000000004236590 C 1. CHECK PARKING BRAKE WARNING LAMP OPERATION Connect the CONSULT-III. Select the "Data Monitor" of "METER/M&A" and check the "PKB SW" monitor value. Refer to WCS-22, 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-24, "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-24, "Component Inspection". Is the inspection result normal? YES >> Replace combination meter. Refer to MWI-86, "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:000000004236591

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:0000000004236592

1. CHECK BCM INPUT SIGNAL

- 1. Connect the CONSULT-III.
- Select the "Data Monitor" of "BCM (BUZZER)" and check the "KEY ON SW" monitor value. Refer to WCS-29. "Reference Value".

Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to <u>DLK-271, "Exploded View"</u>.

NO >> GO TO 2.

2.CHECK KEY SWITCH SIGNAL CIRCUIT

Check the key switch signal circuit. Refer to DLK-307, "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-299, "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-301, "Component Inspection".

Is the inspection result normal?

YES >> Replace the BCM. Refer to BCS-67, "Exploded View".

NO >> Replace the front door switch (driver side). Refer to DLK-450, "Exploded View".

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS FOR USA AND CANADA

FOR USA AND CANADA: 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 AIRBAG" and "SEAT BELT" of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIRBAG".
- 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.

FOR MEXICO

FOR MEXICO: 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. Information necessary to service the system safely is included in the "SRS AIRBAG" and "SEAT BELT" of this Service Manual.

WARNING:

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

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