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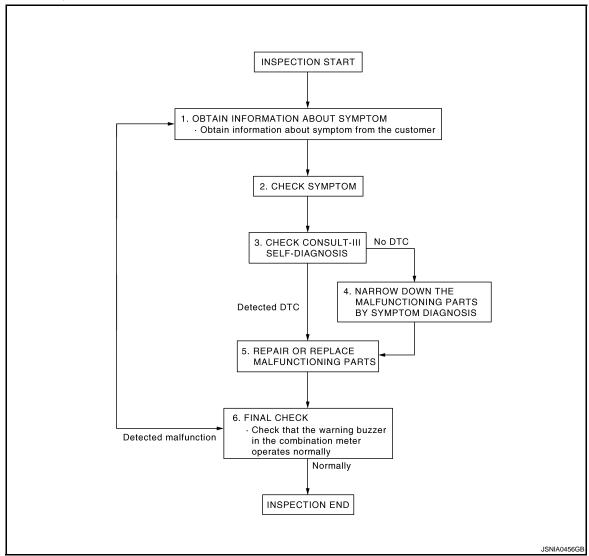
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow INFOID:0000000005525199 В

OVERALL SEQUENCE



DETAILED FLOW

1. OBTAIN INFORMATION ABOUT SYMPTOM

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

>> GO TO 2.

2.CHECK SYMPTOM

- Check the symptom based on the information obtained from the customer.
- Check 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&A". Refer to WCS-14, "CONSULT-III Function (METER/M&A)".
- 2. Check if DTC is detected. Refer to WCS-43, "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.

SYSTEM DESCRIPTION

WARNING CHIME SYSTEM WARNING CHIME SYSTEM

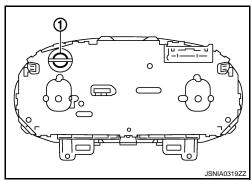
WARNING CHIME SYSTEM: System Diagram

INFOID:0000000005525200 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-32, "KEY REMINDER 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)	ВСМ
Seat belt reminder warning chime	Seat belt buckle switch (driver side) signalIgnition switch signal	

WCS-5 Revision: 2009 October 2010 Rogue

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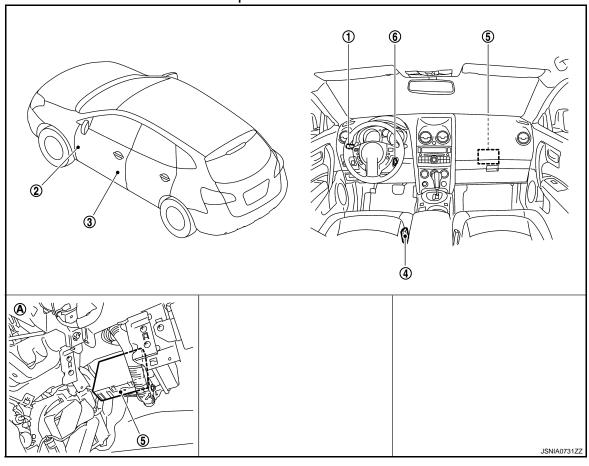
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< SYSTEM DESCRIPTION >

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:0000000005525202



- 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:0000000005525203

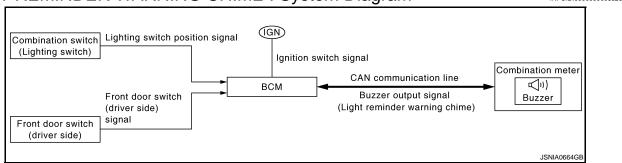
Unit	Description		
Combination meter	 Receives the buzzer output signal from BCM and Intelligent Key unit with the CAN communication line and sounds the buzzer. Judges the parking brake release warning according to the vehicle speed signal received from the ABS actuator and electric unit (control unit)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

< 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-24, "Description".

LIGHT REMINDER WARNING CHIME

LIGHT REMINDER WARNING CHIME: System Diagram



LIGHT REMINDER WARNING CHIME: System Description

INFOID:0000000005525205

INFOID:0000000005525204

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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

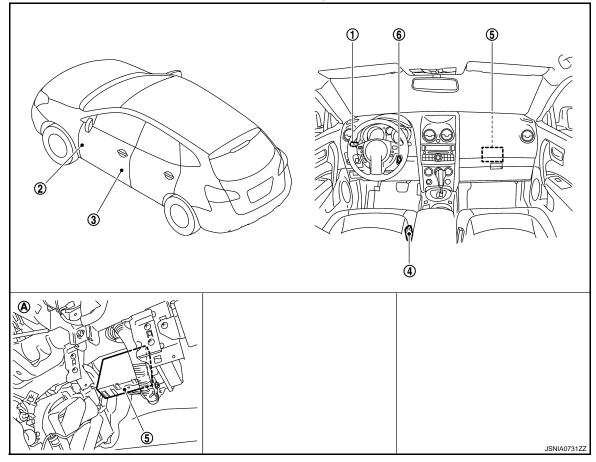
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LIGHT REMINDER WARNING CHIME: Component Parts Location

INFOID:0000000005525206



- 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:000000000552520

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

< SYSTEM DESCRIPTION >

SEAT BELT REMINDER WARNING CHIME: System Diagram



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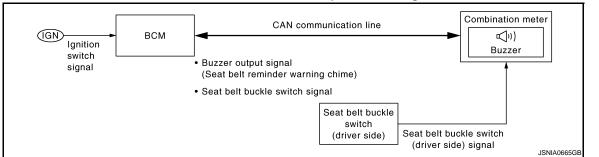
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SEAT BELT REMINDER WARNING CHIME: System Description

INFOID:0000000005525209

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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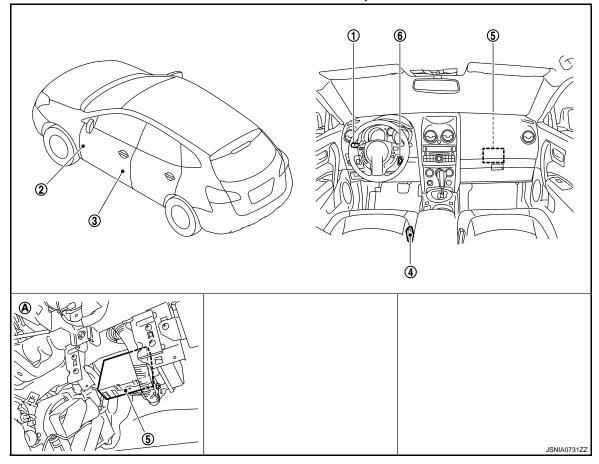
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SEAT BELT REMINDER WARNING CHIME : Component Parts Location

INFOID:000000000552521



- 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:0000000005525211

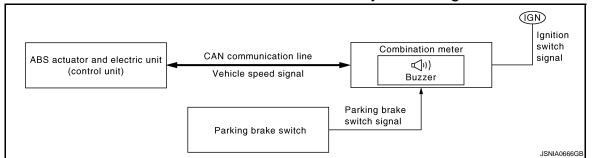
Unit	Description	
Combination meter	Receives a buzzer output signal from the BCM and sounds the buzzer.	
ВСМ	Judges the seat belt warning condition from the seat belt buckle switch (driver side) signal received from the combination meter and transmits a buzzer output signal to the combination meter via CAN communication line if necessary.	
Seat belt buckle switch (driver side)	Refer to WCS-22, "Description".	

PARKING BRAKE RELEASE WARNING CHIME

< SYSTEM DESCRIPTION >

PARKING BRAKE RELEASE WARNING CHIME: System Diagram





PARKING BRAKE RELEASE WARNING CHIME: System Description

INFOID:0000000005525213

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.

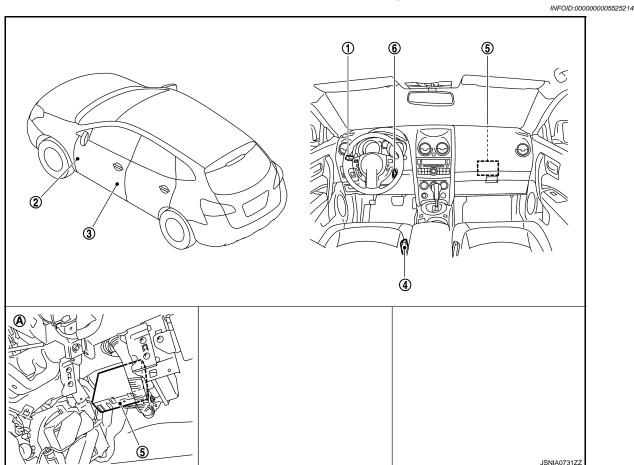
- Vehicle speed is 7 km/h (4.3 MPH) or more
- Parking brake switch ON

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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< SYSTEM DESCRIPTION >

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

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

6. Key switch

A. Over the glove box

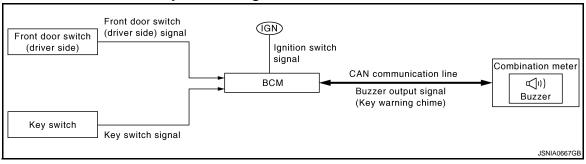
PARKING BRAKE RELEASE WARNING CHIME: Component Description INFOID.0000000005525215

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:0000000005525216



KEY WARNING CHIME: System Description

INFOID:0000000005525217

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:0000000005525218

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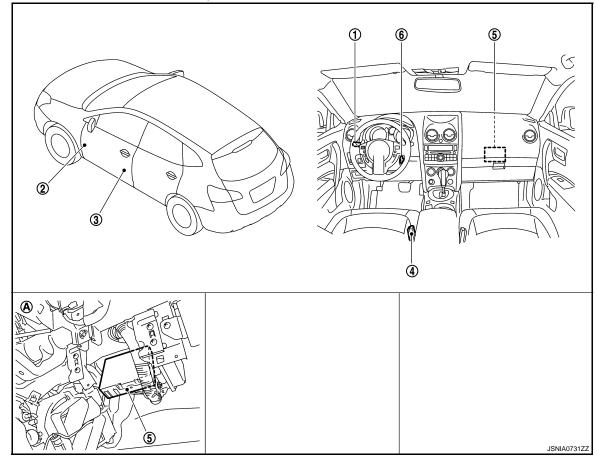
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- 1. Combination switch (Lighting switch)
- 4. Seat belt buckle switch (driver side)
- A. Over the glove box
- 2. Parking brake switch
- 5. BCM

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

KEY WARNING CHIME: Component Description

INFOID:0000000005525219

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)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (METER)

CONSULT-III Function (METER/M&A)

INFOID:0000000005575367

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.
METERINGA	Data Monitor	Displays combination meter input/output data in real time.

SELF DIAGNOSTIC RESULT

Refer to MWI-67, "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]	×	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]	×	Value of engine coolant temperature signal received from ECM with CAN communication line. NOTE: 215 is displayed when the malfunction signal is input.
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.
TURN IND [On/Off]		Status of turn indicator lamp judged from turn indicator signal received from BCM with CAN communication line.

DIAGNOSIS SYSTEM (METER)

< SYSTEM DESCRIPTION >

Display item [Unit]	Display item [Unit] MAIN SIGNALS Description		
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 controunit 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 telligent Key unit with CAN communication line.	
KEY R W/L [On/Off]		Status of key warning lamp (R) judged from key warning signal received fr telligent 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 munication line.	
EPS W/L [On/Off]		Status of EPS warning lamp judged from EPS warning lamp signal receive EPS control unit with the CAN communication line.	
CHAGE W/L [On/Off]		Status of charge warning lamp judged from alternator signal received from nator.	
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.	
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.	
PKB SW [On/Off]		Status of parking brake switch.	
BUCKLE SW [On/Off]		Status of seat belt buckle switch (driver side).	

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DIAGNOSIS SYSTEM (METER)

< SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description
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)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:0000000005575361

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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-62, "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

Civatam	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)

< SYSTEM DESCRIPTION >

BUZZER: CONSULT-III Function (BCM - BUZZER)

INFOID:0000000005525222

CONSULT-III FUNCTION (BCM - BUZZER)

Test item	Diagnosis mode	Description
Buzzer	Data Monitor Displays BCM input data in real time.	
Buzzei	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).

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

COMBINATION METER

COMBINATION METER : Diagnosis Procedure

INFOID:0000000005525259

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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	
Combina	Combination meter		OFF	ON
Connector	Terminal		OH	ON
M34	1	Ground	Battery voltage	Battery voltage
IVIO4	2	Giodila	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.
- Check continuity between combination meter harness connector terminal and ground.

Combination meter			Continuity	
Connector	Terminal	Ground	Continuity	
M34	3	Glound	Existed	
	23		LXISIEG	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE): Diagnosis Procedure

1. CHECK FUSES AND FUSIBLE LINK

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

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INFOID:0000000005575360

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Signal name	Fuses and fusible link No.
Pottony 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			ACC	ON	
M67	70		Battery	Battery	Battery	
IVIO7	57		voltage	voltage	voltage	
M65	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

< DTC/CIRCUIT DIAGNOSIS >

METER BUZZER CIRCUIT Α Description INFOID:0000000005525225 • 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:0000000005525226 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-87, "Removal and Installation". NO >> Replace BCM. Refer to BCS-67, "Removal and Installation". Diagnosis Procedure INFOID:0000000005525227 1. CHECK POWER SUPPLY AND GROUND CIRCUIT OF COMBINATION METER Check power supply and ground circuit of combination meter. Refer to WCS-19, "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

< DTC/CIRCUIT DIAGNOSIS >

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

Description

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

Component Function Check

INFOID:0000000005525229

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:0000000005525230

1. CHECK COMBINATION METER INPUT SIGNAL

- 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	134 35		When driver seat belt is fastened	12 V	
IVIS4	33	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.

Combination 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.

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

< 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

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.

Terminals		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-9, "SEAT BELT BUCKLE: Removal and Installation".

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PARKING BRAKE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

PARKING BRAKE SWITCH SIGNAL CIRCUIT

Description INFOID:000000005525232

Transmits the parking brake switch signal to the combination meter.

Diagnosis Procedure

INFOID:0000000005525233

1. CHECK COMBINATION METER INPUT SIGNAL

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

Terminal					
(+)			Condition	Voltage (Approx.)	
Combination meter		(–)	Condition		
Connector	Terminal				
M34	26	Ground	Parking brake ON	0 V	
10134	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.

Combination meter		Parking brake switch		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:0000000005525234

Refer to BRC-45, "Component Inspection" (ABS) or BRC-143, "Component Inspection" (VDC/TCS/ABS).

< DTC/CIRCUIT DIAGNOSIS > WARNING CHIME SYSTEM Α Wiring Diagram - WARNING CHIME -INFOID:0000000005525235 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 W 355 W 1 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 E105 M77 2008/07/15

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BATTERY

Downwestor No. E40 Commestor No. E40 E40	Color Signal Name [Specification] Terminal Color Signal Name [Specification] No. of Wire 2 W/G - 6 GR -	No. E105	- 9 2
Connector No 620 Connector No Connector Same WIRE TO WIRE Connector Name Connector Type Connector Type Connector Type MSD6FW-CS Connector Type Connector Type MS 1 1 A 5 6 6 1	Terminal Color Signal Name Specification Terminal Color Signal Name Specification Terminal Color Color	Connector No. E103 Connector Name PARKING BRAKE SWTCH Connector Type Connector Name No. Orly Wire No. Orly W	- 5 1
WARNING CHIME Connector Name WIRE TO WIRE Connector Type I H3ZMW-NH H.S. 1 2 3 4 5 6 7 8 9 10 11 2 3 4 10	Terminal Color Signal Name [Specification] No. of Wire 14 BR - -	Connector No. 8409 Connector Name SEAT BELT BUCKLE SWITCH (DRIVER SUPPLY) Connector Type ITK03FW Connector Type ITK03FW Terminal Color No. of Wire Signal Name [Specification]	

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< DTC/CIRCUIT DIAGNOSIS >

	ecification] 1 2 3 4 4 5 7 1 1 1 1 1 1 1 1 1 1 1 1				Α
M27 me COMBINATION SWITCH ppo TK16FW 12 13 10 9 14 11 1 2 3 4	Color Signal Name [Specification] Of Wire V NINUT 1				С
Oonnector No Connector No Connector Na Connector T	Terminal No. 1 1 2 2 2 3 3 3 5 5 6 6 6 6 7 7 7 7 10 10				D
KEY SWITCH	poffication)	AIR BAG) 23 24 4 3 22 21	seffcation)		Е
MZS IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENDID TKOBMGY 11 2 3 4 5 6	Signal Name [Specification]	BAG DIAGNOSIS S HOUT ADVANCED DFY-EX-SC 7	Signal Name [Specification] A/B W/L		F
Connector No. M2. Connector Name IGN Connector Type TKC M3. H.S.	Terminal Codor No. of Wre 1 LG 2 R	Connector No. MRG Connector Name (WIT Connector Type TR2I	Terminal Color No. of Wre 15 LG		G
					Н
# # F	Signal Name (Specification)	MPS ARE DAGROOSIS SENSOR UNIT (WITH ADVANICED AIR BAG) TYZBEY-EX-SC 17 46 48 47 45 13 30 18 52 2 19 15 14 51 123 50 18 52 2	Signal Name [Specification] A/B W/L		I
M24 KEY SWITCH TK02MBR-P	w l	In MS9 (WITH ADVANCE) ARE BAG DIAGNA (WITH ADVANCE) YES THE BAG THE	w l		J
Connector No. M. Connector Name KI Connector Type II.	Terminal Color No. 00 V Wile 1 LG 2 GR	Connector No. M Connector Name Q Connector Type T Connector	Terminal Color No. of Wire 15 LG		K
			DE DE LE CONTROL DE LA CONTROL		L
WIRE -NH -NH -NH -NH -NH -NH -NH -N	Signal Name (Specification)	SAB40FW SAB40FW SAB4	Signal Name [Specification] ARE BAG CAN-H CAN-L CAN-L PARGING BRAKE SW SEAT BEL T BUCKLE SW (DRIVER SIDE)		M
CHIME M13 WIRE TO WIRE TH32FW-NH M13 [2] [1] [0] 9 J28 [28 [27] 26 [25		SAB40FW SAB40FW			WCS
WARNING CHIME Connector No. M13 Connector Name WIRE TO W Connector Type TH22PW-NH M.S. 161514131211101	Denominal Color No. Of Wire No. Of Wire No. Of Wire No. Of Of Of Of Of Of Of O	Connector No. Connector Name Connector Type H.S.	Terminal Color No. of Wire No. of Wire LG 21 LG 22 P 22 P 26 V 26 V 35 O O	JCNWM1635GI	0
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Connector No. M65 Connector No. M67 Connector No. Co		M66 BCM (BODY CONTROL MODULE) Connector Name	Connector type FEAUSTIFFTHAP SA	H.S. 41 42 43 44 45 46 47 48 49	All Color Signal Name [Specification] Terminal Color Signal No. of Wire Signal No.	47 W DRSWDR 57 G BATFUSE 67 B GWD 20 C GWD	-						
CHIME	- -	5 J d											
	NG CHIME		7	3 4 5 6 7 8 9 1011 12 13 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18							П		

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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	Equivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received
SPEED OUTPUT [km/h]	Ignition switch ON	While driving	Equivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received
ODO OUTPUT	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
ADC W/I	Ignition switch	ABS warning lamp ON	On
ABS W/L	ON	ABS warning lamp OFF	Off
VDC/TCC IND	Ignition switch	VDC OFF indicator lamp ON	On
VDC/TCS IND	ON	VDC OFF indicator lamp OFF	Off
CLIDIND	Ignition switch	SLIP indicator lamp ON	On
SLIP IND	ON	SLIP indicator lamp OFF	Off
DD AKE M/I	Ignition switch	Brake warning lamp ON	On
BRAKE W/L	ON	Brake warning lamp OFF	Off
DOOD W/I	Ignition switch	Door warning lamp ON	On
DOOR W/L	ON	Door warning lamp OFF	Off
LUDEAMIND	Ignition switch	High beam indicator lamp ON	On
HI-BEAM IND	ON	High beam indicator lamp OFF	Off
TUDALIND	Ignition switch	Turn signal indicator lamp ON	On
TURN IND	ŎN	Turn signal indicator lamp OFF	Off
LIQUEIND	Ignition switch	Light indicator lamp ON	On
LIGHT IND	ON	Light indicator lamp OFF	Off
OII W/I	Ignition switch	Oil pressure warning lamp ON	On
OIL W/L	ŎN	Oil pressure warning lamp OFF	Off
NAIL	Ignition switch	Malfunction indicator lamp ON	On
MIL	ŎN	Malfunction indicator lamp OFF	Off
CDUICE IND	Ignition switch	Cruise indicator lamp ON	On
CRUISE IND	ŎN	Cruise indicator lamp OFF	Off

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Monitor Item		Value/Status			
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		
J/D OFF IND	ON	OD OFF indicator lamp OFF	Off		
4\A/D \A//	Ignition switch	AWD warning lamp ON	On		
4WD W/L	ON	AWD warning lamp OFF	Off		
AWD LOCK IND	Ignition switch	LOCK indicator lamp ON	On		
4WD LOCK IND	ON	LOCK indicator lamp OFF	Off		
= 11=1 \A//I	Ignition switch	Low-fuel warning lamp ON	On		
FUEL W/L	ON	Low-fuel warning lamp OFF	Off		
ND DDEC W/I	Ignition switch	Low tire pressure warning lamp ON	On		
AIR PRES W/L	ON	Low tire pressure warning lamp OFF	Off		
(EV C/V M/I	Ignition switch	KEY warning lamp (green/yellow) ON	On		
KEY G/Y W/L	ON	KEY warning lamp (green/yellow) OFF	Off		
ZEV D 14/4	Ignition switch	KEY warning lamp (red) ON	On		
KEY R W/L	ON	KEY warning lamp (red) OFF	Off		
KEY KNOB W/L	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off		
-00.14/8	Ignition switch	EPS warning lamp ON	On		
EPS W/L	ON	EPS warning lamp OFF	Off		
2114.05.34/8	Ignition switch	Charge warning lamp ON	On		
CHAGE W/L	ŎN	Charge warning lamp OFF	Off		
		Shift position indicator P display	Р		
		Shift position indicator R display	R		
		Shift position indicator N display	N		
	Ignition switch	Shift position indicator D display	D		
		Shift position indicator M1 display	M1		
SHIFT IND		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		
)/D OFF 6:	Ignition switch	OD OFF switch pressed	On		
D/D OFF SW	ON	OD OFF switch not pressed	Off		
4.D.4.10.E.0	Ignition switch	Manual mode	On		
M RANGE SW	ON	Other than the above	Off		
	Ignition switch	Manual mode	Off		
IM RANGE SW	ON	Other than the above	On		
	Ignition switch	Selector lever (+) position	On		
AT SFT UP SW	ON	Other than the above	Off		
	Ignition switch	Selector lever (–) position	On		
AT SFT DWN SW	ON	Other than the above	Off		
	Ignition switch	Paddle shifter up operation	On		
ST SFT UP SW	ON	Other than the above	Off		

< ECU DIAGNOSIS INFORMATION >

Monitor Item		Condition	Value/Status
ST SFT DWN SW	Ignition switch	Paddle shifter down operation	On
ST SET DWW SW	ON	Other than the above	Off
PKB SW	Ignition switch	Parking brake switch ON	On
FRB 3W	ON	Parking brake switch OFF	Off
BUCKLE SW	Ignition switch	Seat belt buckle switch ON	On
BUCKLE SW	ON	Seat belt buckle switch OFF	Off
BRAKE OIL SW	Ignition switch	Brake fluid level switch ON	On
BRAKE OIL SW	ON	Brake fluid level switch OFF	Off
DISTANCE [km]	Ignition switch ON	_	Possible driving distance calculated by 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 SIG	Ignition switch	Low-fuel warning displayed	On
FUEL LOW SIG	ON	Low-fuel warning not displayed	Off
BUZZER	Ignition switch	Buzzer ON	On
DUZZEN	ON	Buzzer OFF	Off

NOTE:

Some items are not available according to vehicle specification.

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	
JSNIA04	57ZZ

PHYSICAL VALUES

	nal No. color)	Description			Condition	Value	
+	_	Signal name	Input/ Output		Condition	(Approx.)	
1 (LG)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage	
2 (O)	Ground	Ignition signal	Input	Ignition switch ON	_	Battery voltage	
3 (B)	Ground	Ground	_	Ignition switch ON	_	0 V	
9				Ignition	O/D OFF switch pressed	0 V	
(GR)	Ground	nd O/D OFF switch signal	Input	switch ON	O/D OFF switch not pressed	12 V	

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	nal No. color)	Description			Condition	Value
+	_	Signal name	Input/ Output			(Approx.)
12 (G)	Ground	Paddle shifter down signal	Input	Ignition switch	Paddle shifter down operation	0 V
				ON	Other than the above	12 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 2 ms JSNIA0010GB
14	Cround	Doddle shifter up signal	lanut	Ignition switch	Paddle shifter up operation	0 V
(L)			Input	ON	Other than the above	5 V
15	0	Ain ben eine el	Ignition		Air bag warning lamp ON	4 V
(LG)	Ground	Air bag signal	Input	switch 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 [°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	0	Alternational	1	Ignition	Charge warning lamp ON	0 V
(SB)	Ground	Alternator signal	Input	switch ON	Charge warning lamp OFF	12 V
26 (V)	Ground	Parking brake switch signal	Input	Ignition switch ON	Parking brake ON Parking brake OFF	0 V 5 V
				Ignition	Brake fluid level is normal	5 V
27 (BR)	Ground	Brake fluid level switch sig- nal	Input	switch	Brake fluid level is less than low level	0 V
28	_	_		Ignition	Security warning lamp ON	0 V
(B)	Ground	Security signal	Input	switch ON	Security warning lamp OFF	12 V

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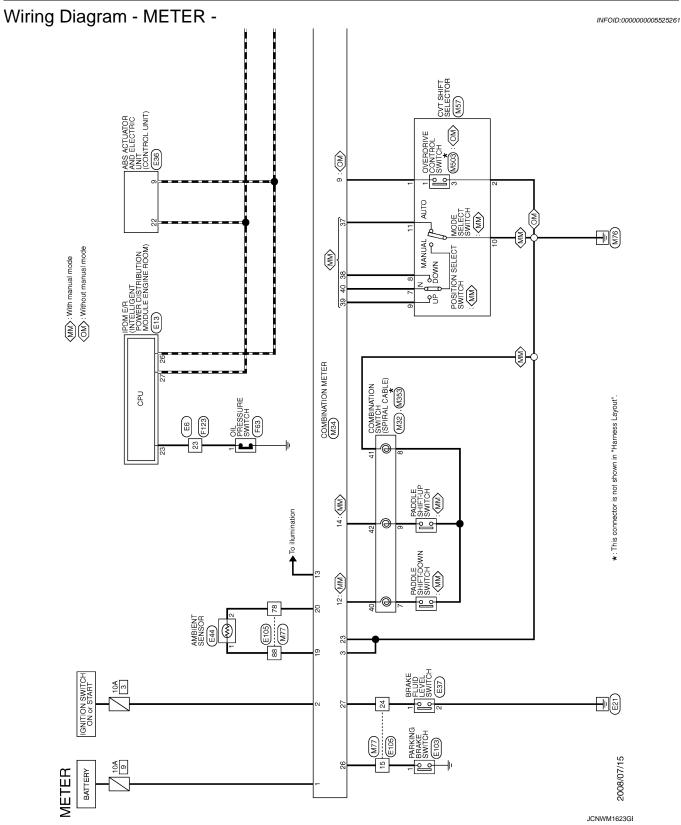
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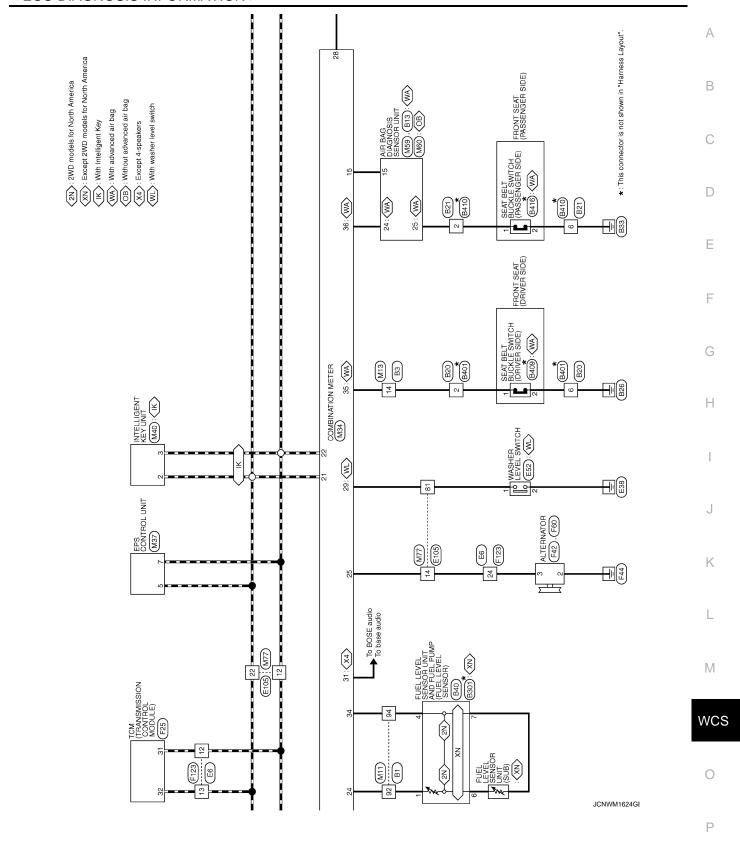
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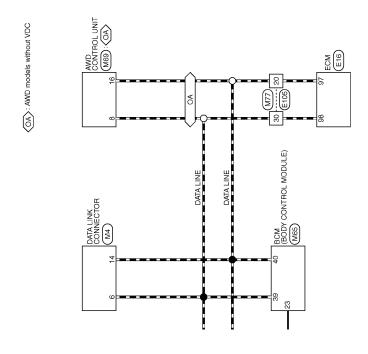
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Terminal No. (Wire color)		Description			Condition	Value	
+	_	Signal name	Input/ Output	- Condition		(Approx.)	
29 (W)	Ground	Washer level switch signal	Input	Ignition switch ON	Washer level switch ON Washer level switch OFF	0 V 12 V	
30 (Y)	Ground	Vehicle speed signal (2 pulse)	Output	Ignition switch	Vehicle speed is approximately 40 km/h (25 MPH)	NOTE: The maximum voltage varies depending on the specification (destination unit).	
				ON		0 50 ms JSNIA00150	
				Ignition		NOTE: The maximum voltage varies depending on the specification (destination unit).	
31 (L)	Ground	Vehicle speed signal (8 pulse)	Output	switch ON	Vehicle speed is approximately 40 km/h (25 MPH)	0 20 ms JSNIA00120	
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 JSNIA04230	
35	Ground	Seat belt buckle switch sig-	Input	Ignition switch	When driver seat belt if fastened	12 V	
(O)	Cround	nal (driver side)	прис	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)	J. G. W.	nal (passenger side)		ON	When getting in the passenger seatWhen passenger seat belt if unfastened	0 V	
37 (P)	Ground	Not manual mode signal	Input	Ignition switch ON	Manual mode Other than the above	12 V 0 V	
				Ignition	Selector lever (–) position	0 V	
38 (O)	Ground	Manual mode shift down signal	Input	switch	Other than the above	12 V	
39		Manual mode shift up sig-		Ignition	Selector lever (+) position	0 V	
(V)	Ground	nal	Input	switch ON	Other than the above	12 V	

	nal No. color)	L)escription			Condition	Value	
+	_	Signal name	Input/ Output		Condition	(Approx.)	
40				Ignition	Manual mode	0 V	
(LG)	Ground			switch ON	Other than the above	12 V	







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< ECU DIAGNOSIS INFORMATION >

W-CS W-CS	CSS Signal Name [Specification]		АВ
Connector No. B20	Cornector No. B401		C D
AR BAG DAGNOSIS SENSOR UNIT TKI EPY-IV-EX 32.78 26 27 25 31 8 39 7 36 35 40 Signal Name (Specification) BUCKLE SW RH	FILE LEVEL SENSOR UNIT AND FUEL PUMP Signal Name [Specification]		E F
Corrector No. B13	Connector No. 8301 Connector Name FUEL LEVEL Connector Nype Connector Type A.S. Terminal Color No. of Wire 6 7 7		G H
WIRE -NH 7 8 9 10 11 12 13 14 15 16 22 24 25 59 12 758 29 30 31 32 Signal Name [Specification]	FILEL LEVEL SENSOR UNIT AND FUEL PUMP PUMP EDSFGY-RS Signal Name [Specification]		I J
Connector No. B3 Connector Name WIRE TO WIRE Connector Type TH62MW-NH 12 3 4 5 6 7 8 11 2 3 4 5 6 7 8 11 19 19 20 21 22 23 22 Terminal Color Signa	Connector No. 840		К
WIRE TO WIRE THBOWN-CSI (6-TM4	Signal Name [Specification]		L M
Connector No. Connector Name WIRE TO WIRE Connector Types TH80MW-CSTG H.S. Terminal Color Signa 82 R 94 G 94 G	Connector No. B21	JCNWM1626Gł	wcs o
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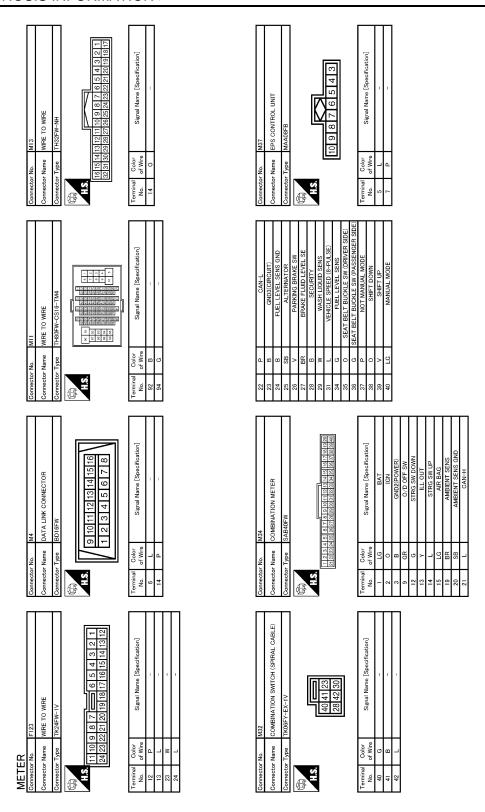
Ocometor No. E6 Cornector Name WRE TO WIRE Cornector Type TRZ4MV-1 V 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Terminal Color Signal Name [Specification] No. of Wire Specification 12 P - -	Connector No. E37 Connector Name BRAKE FLUID LEVEL SWITCH Connector Type IVVOZFGV	Terminal Color Signal Name [Specification] No. of Wire I LG -
Connector No. B416 Connector Name (PASSENGER SIDE) Connector Type TKGFW H.S. A.S. A.S.	Terminal Color Signal Name [Specification]	Connector No. E36 Connector Name (CONTROL UNIT) Connector Type RH28FB-NU4-DH A.S. 1 2 5 6 7 18 9 10 In 11 2 18 6 7 18 9 10 In 12 12 12 12 12 12 12 12 12 12 12 12 12	Terminal Color Signal Mame [Specification] Ool Wire Signal Mame [Specification] 9 P CAN L CAN H CAN
Connector No. B410 Connector Name WIRE TO WIRE Connector Type NSOBMW-CS H.S. Z 1	Terminal Color Signal Name [Specification] 2 W/G -	Connector No. E16 Connector Name ECM Connector Type RH24FB-R28-L-LH M.S. R126 89 53 97 101 105 109 R2 86 99 94 98 102 106 110 R2 87 91 95 99 108 107 111 R2 87 91 95 99 108 107 111 R2 88 87 91 95 99 108 107 111	Terminal Color Signal Name [Specification] No. of Wire 97 P VEHCAN-L 98 L VEHCAN-H
METER Connector Name 8409 Service SWITCH (DRIVER Sport Street SWITCH (DRIVER	Terminal Color No. of Wire Signal Name [Specification] 1 W/G - -	Connector No. E13 Connector Type PHOM E.R (INTELLIGENT POWER	Terminal Color Signal Name [Specification] Color No. of Wire Signal Name [Specification] 23 W - 26 P - 27 L - 27 L - 27 L - 27 C - 27 - 2

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< ECU DIAGNOSIS INFORMATION >

	bation.]	ation		А
MRE TO WRE H80FPV-CS 16-TM4	Signal Name (Specification)	OIL PRESSURE SWITCH EDIFGY-RS-AR Signal Name [Specification]		В
WIRE 11480F	objoin of Wire L L L L L L L L L L L L L L L L L L L	F63 • OIL PRE:		С
Connector No. Connector Name Connector Type	Terminal No. 112 12 22 22 22 24 24 88 88	Oomeetor No. Connector Name Connector Type No. Terminal Color No. I w		D
	recification)	seofication		Е
FIGS PARKING BRAKE SWITCH POIFB-A	Signal Name [Specification]	ALTERNATOR X02FW Agral Name [Specification]		F
Cornector No. E103 Connector Name PARKING Connector Type POIFB-A	Color Virial	No. Type		G
Comm	Terminal No.	Commettal Commet		Н
птон	Signal Name [Specification]	Signal Name [Specification]		I
WASHER LEVEL SWITCH ZOZFBR	Signal Nat	Sigral Mar		J
Connector No. Connector Name Connector Type H.S.	Terminal Color No. 1 Wire 2 B	Connector No. Connector Name Connector Type Connector Type Color No. of Wire 2 2 2		K
	NO.	wobuLE)		L
ENISOR	Signal Name [Specification]	F25 TOM (TRANSMISSION CONTROL MODULE) RH40/FB +R28-1-RH RH40/FB +R28-1-RH S13 41 56 77 81 91 41 42 S12 56 77 81 91 41 42 S12 61 77 81 91 41 42 S12 78 78 78 78 78 78 S12 78 78 78 78 S12 78 78 78 78 S12 78 78 S12 78 78 S13 78 78 S13 78 78 S14 78 78 S15 S15 78 S15 78 S15 78 S15 78 S15 78 S15 78		M
E44 AMBIENT S RSOZFB	Color Sign	6 e e e e e e e e e e e e e e e e e e e		wcs
METER Gonnector No. Gonnector Name Gonnector Type H.S.	Terminal (No. or	Connector No. Connector Name Connector Type Terminal Terminal Of Wire O		0
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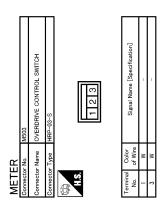


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< ECU DIAGNOSIS INFORMATION >

Cornector No. M60 Connector Name AME BAC DAGNOSIS SENSOR UNIT Connector Type TKZGFY-EX-SC TR TRZGFY-EX-SC TR TR TR TR	Color Signal Name [Specification] No. of Wire LG A/B W/L N/L N	Connector No. M353 Connector Name COMBINATION SWITCH (SPIRAL CABLE) Connector Type TR03FW-X Terminal Color No. of Wire No. of Wire 9 -	A B C
Connector No. M59 Connector Name (WITH ADDANACED ARR BAC) Connector Type 1723FY-EX-SC 120 21 17	Terminal Color Signal Name [Specification] Terminal Color Signal Name [Specification] Terminal Color	Connector No. M77 Connector Name WIRE TO WIRE Connector Type TH80MW-CS16-TM4 Connector Name Connector Type Th80MW-CS16-TM4 Connector Type Th80M	E F G
Connector No. M57 Connector Type THIGFW-NH 18 8 7 6 5 4 3 2 1 16 15 14 13 12 11 10 9	Terminal Color Signal Name Specification	Connector No. MS9 Connector Name AWO CONTROL UNIT Connector Type THISPW-NH 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8 Terminal Color Signal Name (Specification) No of Wre 16 P CAN-H 16 P CAN-H CON-H	J K
METER Connector Name INTELLIGENT KEY UNIT Connector Type ITH40FW-NH M.S. I R O L C C F C C C C C C C C C C C C C C C C	Terminal Color Signal Name [Specification]	Connector No. M65	M WCS O JCNWM1630GI

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JCNWM1653GI

Fail-safe

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

< ECU DIAGNOSIS INFORMATION >

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

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Display contents of CONSULT-III	Tii	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.	<u>MWI-37</u>
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.	<u>MWI-39</u>
B2268: WATER TEMP	CRNT	PAST	ECM continuously transmits abnormal engine coolant temperature signals for 60 seconds or more.	<u>MWI-40</u>

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 $0 \rightarrow 1 \rightarrow 2 \dots 38 \rightarrow 39$ after returning to the normal condition whenever IGN OFF \rightarrow ON. It is fixed to 39 until the self-diagnosis results are erased if it is over 39. It returns to 0 when a malfunction is detected again in the process.

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< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Ignition switch OFF or ACC Ignition switch ON Ignition switch ON KEY ON SW Mechanical key is removed from key cylinder Off Mechanical key is inserted to key cylinder On Door lock/unlock switch does not operate Off Press door lock/unlock switch to the lock side On Door lock/unlock switch does not operate Off Press door lock/unlock switch to the unlock side On DOOR SW-DR DOOR SW-DR Driver's door closed Driver's door closed Off Passenger door opened On Passenger door opened On DOOR SW-RR Rear RH door closed Off Rear RH door closed Off Rear LH door opened On BACK DOOR SW-RL Rear LH door opened On KEY CYL LK-SW Other than driver door key cylinder LOCK position Off Driver' door key cylinder UNLOCK position Off KEY CYL UN-SW "UNLOCK" button of key fob is not pressed On "UNLOCK" button of ley fob is pressed	Monitor Item	Condition	Value/Status
Ignition switch ON	ICN ON SW	Ignition switch OFF or ACC	Off
Mechanical key is inserted to key cylinder On On On On On On On On On O	IGIN OIN SVV	Ignition switch ON	On
Mechanical key is inserted to key cylinder CDL LOCK SW Door lock/unlock switch does not operate Press door lock/unlock switch to the lock side On Door lock/unlock switch does not operate Off Press door lock/unlock switch does not operate Off Door lock/unlock switch does not operate Off Press door lock/unlock switch to the unlock side On Driver's door closed Off Driver's door closed Off Passenger door closed Off Passenger door opened On Rear RH door closed Off Rear RH door opened On DOOR SW-RR Rear LH door closed Off Rear LH door opened On Back door opened On Cher than driver door key cylinder LOCK position Off Driver door key cylinder UNLOCK position Off KEY CYL UN-SW Tiver door key cylinder UNLOCK position Off Cher than driver door key cylinder UNLOCK position Off TUNLOCK' button of key fob is not pressed Off "UNLOCK' button of key fob is pressed On "UNLOCK' button of key fob is pressed On "UNLOCK' button of letelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not pressed	KEY ON CW	Mechanical key is removed from key cylinder	Off
CDL LOCK SW Press door lock/unlock switch to the lock side Door lock/unlock switch does not operate Press door lock/unlock switch to the unlock side On DOOR SW-DR Driver's door closed Driver's door opened DOOR SW-AS Passenger door closed DOOR SW-RR Rear RH door closed DOOR SW-RR Rear RH door closed DOOR SW-RL Rear LH door closed Back door opened On Back DOOR SW Rear LH door closed Goff Back door opened On On Christian driver door key cylinder LOCK position Christian door key cylinder UNLOCK position Off Driver door key cylinder UNLOCK position Off KEY CYL LN-SW Christian driver door key cylinder UNLOCK position Off Driver door key cylinder UNLOCK position Off Christian driver door key fob is not pressed Off "LOCK" button of key fob is pressed On "LOCK" button of ley fob is pressed On "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are pressed "LOCK" button of Intelligent Key or door request switch are pressed "LOCK" button of Intelligent Key or door request switch are pressed "LOCK" button of Intelligent Key or door request switch are pressed "LOCK" button of Intelligent Key or door request switch are pressed "LOCK" button of Intelligent Key or door request switch are pressed "LOCK" button of Intelligent Key or door request switch are pressed	KEY ON SW	Mechanical key is inserted to key cylinder	On
Press door lock/unlock switch to the lock side Door lock/unlock switch does not operate Press door lock/unlock switch to the unlock side On DOOR SW-DR DOOR SW-DR DOOR SW-DR DOOR SW-AS Passenger door closed DOOR SW-AS Passenger door opened DOOR SW-RR Rear RH door closed DOOR SW-RR Rear RH door opened DOOR SW-RL Rear LH door opened DOOR SW-RL Rear LH door opened DOOR SW-RL Rear LH door opened DOOR SW-RL Back door opened DOOR SW-RL Back door opened On KEY CYL LK-SW Other than driver door key cylinder LOCK position Driver door key cylinder LOCK position On KEY CYL UN-SW Other than driver door key cylinder UNLOCK position On KEY LESS LOCK "LOCK" button of key fob is not pressed On "LOCK" button of key fob is pressed On "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not pressed "LINI OCK" button of Intelligent Key or door request switch are not pressed "LINI OCK" button of Intelligent Key or door request switch are not pressed "LINI OCK" button of Intelligent Key or door request switch are not pressed "LINI OCK" button of Intelligent Key or door request switch are not pressed "LINI OCK" button of Intelligent Key or door request switch are pressed "LINI OCK" button of Intelligent Key or door request switch are pressed "LINI OCK" button of Intelligent Key or door request switch are pressed "LINI OCK" button of Intelligent Key or door request switch are pressed "LINI OCK" button of Intelligent Key or door request switch are pressed	CDL LOCK CW	Door lock/unlock switch does not operate	Off
DOOR SW-DR DOOR SW-DR Driver's door closed Driver's door opened DOOR SW-AS Passenger door opened DOOR SW-RR Rear RH door closed Rear RH door closed Rear LH door opened DOOR SW-RL BACK DOOR SW Back door opened Doriver door key cylinder LOCK position Driver door key cylinder UNLOCK position KEY CYL UN-SW Cher than driver door key cylinder UNLOCK position Driver door key cylinder UNLOCK position KEYLESS LOCK "LOCK" button of key fob is pressed "LOCK" button of Intelligent Key or door request switch are not approach on the support of the light are not approach are not approach on the support of the light are not approach are not approach on the support of the light are not approach on the support of the light are not approach are not appro	CDL LOCK SW	Press door lock/unlock switch to the lock side	On
Press door lock/unlock switch to the unlock side	CDL LINI OCK SW	Door lock/unlock switch does not operate	Off
DOOR SW-DR	CDL UNLOCK SW	Press door lock/unlock switch to the unlock side	On
DOOR SW-AS Passenger door closed Passenger door opened On Passenger door opened On Rear RH door closed Passenger door opened On Rear RH door opened On Passenger H door opened On Rear LH door opened On Rear LH door opened On Back DOOR SW Back door opened On KEY CYL LK-SW Other than driver door key cylinder LOCK position Off Driver door key cylinder LOCK position Off Cher than driver door key cylinder UNLOCK position Off Driver door key cylinder UNLOCK position Off KEY CYL UN-SW Cher than driver door key cylinder UNLOCK position Off Cher than driver door key cylinder UNLOCK position Off Cher than driver door key cylinder UNLOCK position Off Cher than driver door key cylinder UNLOCK position Off Cher than driver door key cylinder UNLOCK position Off Cher than driver door key cylinder UNLOCK position Off CHOCK" button of key fob is not pressed Off CHOCK" button of key fob is not pressed Off CHOCK" button of key fob is pressed On CHOCK" button of Intelligent Key or door request switch are not pressed Chock" button of Intelligent Key or door request switch are not pressed Chock" button of Intelligent Key or door request switch are not pressed Chock" button of Intelligent Key or door request switch are not pressed Chock" button of Intelligent Key or door request switch are not pressed Chock" button of Intelligent Key or door request switch are not pressed Chock" button of Intelligent Key or door request switch are not pressed Chock" button of Intelligent Key or door request switch are not pressed	DOOR SW DR	Driver's door closed	Off
DOOR SW-RR Passenger door opened Rear RH door closed Rear RH door opened On Rear RH door opened On Passenger door opened Rear RH door opened On Rear LH door opened On BACK DOOR SW Back door closed 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 On KEY LESS LOCK "LOCK" button of key fob is not pressed "LOCK" button of key fob is pressed On INLOCK" button of key fob is pressed On INLOCK" button of key fob is pressed On INLOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not pressed	DOOK SW-DK	Driver's door opened	On
Passenger door opened On Rear RH door closed Off Rear RH door opened On Rear RH door opened On Rear LH door closed Off Rear LH door closed Off Rear LH door opened On Back DOOR SW-RL 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 Driver door key cylinder UNLOCK position Off KEYLESS LOCK "LOCK" button of key fob is not pressed Off "LOCK" button of key fob is pressed Off "UNLOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not on the control of the	DOOD CW AC	Passenger door closed	Off
Rear RH door opened	DOOK SW-AS	Passenger door opened	On
Rear RH door opened On Rear LH door closed Off Rear LH door opened On 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 Driver door key cylinder UNLOCK position Off KEY CYL UN-SW Other than driver door key cylinder UNLOCK position Off Driver door key cylinder UNLOCK position Off "LOCK" button of key fob is not pressed Off "LOCK" button of key fob is pressed Off "UNLOCK" button of key fob is not pressed Off "UNLOCK" button of key fob is pressed Off "UNLOCK" button of key fob is pressed Off "LOCK" button of lntelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not pressed On	DOOD OW DD	Rear RH door closed	Off
Rear LH door opened On	DOOK SW-KK	Rear RH door opened	On
Rear LH door opened On 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 Driver door key cylinder UNLOCK position Off KEYLESS LOCK "LOCK" button of key fob is not pressed Off "LOCK" button of key fob is pressed Off "UNLOCK" button of key fob is not pressed Off "UNLOCK" button of key fob is pressed Off "UNLOCK" button of key fob is pressed Off "LOCK" button of ley fob is pressed On "LOCK" button of ley fob is pressed On "LOCK" button of ley fob is pressed On	DOOD OW DI	Rear LH 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 Other than driver door key cylinder UNLOCK position Off Driver door key cylinder UNLOCK position On KEY CYL UN-SW Other than driver door key cylinder UNLOCK position On "LOCK" button of key cylinder UNLOCK position On "LOCK" button of key fob is not pressed "LOCK" button of key fob is pressed On "UNLOCK" button of key fob is not pressed Off "UNLOCK" button of key fob is pressed On I-KEY LOCK "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not "INI OCK" button of Intelligent Key or door request switch are not "INI OCK" button of Intelligent Key or door request switch are not "INI OCK" button of Intelligent Key or door request switch are not	DOOK SW-KL	Rear LH door opened	On
Back door opened On 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 Driver door key cylinder UNLOCK position On KEYLESS LOCK "LOCK" button of key fob is not pressed Off "LOCK" button of key fob is pressed On KEYLESS UNLOCK "UNLOCK" button of key fob is not pressed Off "UNLOCK" button of key fob is pressed Off "UNLOCK" button of key fob is pressed Off "LOCK" button of lntelligent Key or door request switch are not pressed On "LOCK" button of Intelligent Key or door request switch are pressed On	DACK DOOD CW	Back door closed	Off
Driver door key cylinder LOCK position On Other than driver door key cylinder UNLOCK position Driver door key cylinder UNLOCK position On KEYLESS LOCK "LOCK" button of key fob is not pressed "LOCK" button of key fob is pressed On "UNLOCK" button of key fob is not pressed Off "UNLOCK" button of key fob is pressed Off "UNLOCK" button of key fob is pressed On "LOCK" button of lotelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are not "LOCK" button of Intelligent Key or door request switch are not "LOCK" button of Intelligent Key or door request switch are not "LOCK" button of Intelligent Key or door request switch are not "LOCK" button of Intelligent Key or door request switch are not	BACK DOOK SW	Back door opened	On
Driver door key cylinder LOCK position Other than driver door key cylinder UNLOCK position Off Driver door key cylinder UNLOCK position On KEYLESS LOCK "LOCK" button of key fob is not pressed "LOCK" button of key fob is pressed On "UNLOCK" button of key fob is not pressed "UNLOCK" button of key fob is not pressed On "LOCK" button of key fob is pressed On "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are pressed On "LOCK" button of Intelligent Key or door request switch are pressed On	KEN CALLK SM	Other than driver door key cylinder LOCK position	Off
Driver door key cylinder UNLOCK position	KET CTL LK-SW	Driver door key cylinder LOCK position	On
Driver door key cylinder UNLOCK position (**LOCK"* button of key fob is not pressed (**LOCK"* button of key fob is pressed (**UNLOCK"* button of key fob is not pressed (**UNLOCK"* button of key fob is not pressed (**UNLOCK"* button of key fob is pressed (**UNLOCK"* button of key fob is pressed (**UNLOCK"* button of Intelligent Key or door request switch are not pressed (**LOCK"* button of Intelligent Key or door request switch are pressed (**LOCK"* button of Intelligent Key or door request switch are not pressed (**LOCK"* button of Intelligent Key or door request switch are not pressed (**LOCK"* button of Intelligent Key or door request switch are not pressed	KEN CALTIN GM	Other than driver door key cylinder UNLOCK position	Off
KEYLESS LOCK "LOCK" button of key fob is pressed "UNLOCK" button of key fob is not pressed "UNLOCK" button of key fob is pressed On "UNLOCK" button of key fob is pressed On "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are pressed "LOCK" button of Intelligent Key or door request switch are pressed "LOCK" button of Intelligent Key or door request switch are post.	KET CTL UN-SW	Driver door key cylinder UNLOCK position	On
"LOCK" button of key fob is pressed "UNLOCK" button of key fob is not pressed "UNLOCK" button of key fob is pressed "UNLOCK" button of key fob is pressed "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are pressed "LOCK" button of Intelligent Key or door request switch are pressed "LINLOCK" button of Intelligent Key or door request switch are not	VEVI ESS LOCK	"LOCK" button of key fob is not pressed	Off
"UNLOCK" button of key fob is pressed "LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are pressed "LOCK" button of Intelligent Key or door request switch are pressed "LINLOCK" button of Intelligent Key or door request switch are not	RETLESS LOOK	"LOCK" button of key fob is pressed	On
"LOCK" button of Intelligent Key or door request switch are not pressed "LOCK" button of Intelligent Key or door request switch are pressed "LOCK" button of Intelligent Key or door request switch are pressed "LINLOCK" button of Intelligent Key or door request switch are not	KEALESS TIMI OCK	"UNLOCK" button of key fob is not pressed	Off
I-KEY LOCK pressed "LOCK" button of Intelligent Key or door request switch are pressed "LNILOCK" button of Intelligent Key or door request switch are not	RETLESS UNLOCK	"UNLOCK" button of key fob is pressed	On
"LINLOCK" button of Intelligent Key or door request switch are not	I-KEY LOCK		Off
"LINLOCK" button of Intelligent Key or door request switch are not		"LOCK" button of Intelligent Key or door request switch are pressed	On
pressed	LIZEV LINILOCIZ	"UNLOCK" button of Intelligent Key or door request switch are not pressed	Off
"UNLOCK" button of Intelligent Key or door request switch are pressed On	I-KEY UNLOCK		On
Ignition switch OFF Off	ACC ON SW	Ignition switch OFF	Off
ACC ON SW Ignition switch ACC or ON On	ACC ON SW	Ignition switch ACC or ON	On
Rear window defogger switch OFF Off	DEAD DEE CW	Rear window defogger switch OFF	Off
REAR DEF SW Rear window defogger switch ON On	KEAK DEF SW	Rear window defogger switch ON	On
Lighting switch OFF Off	LICUT OW 40T	Lighting switch OFF	Off
LIGHT SW 1ST Lighting switch 1ST On	LIGHT 900 191	Lighting switch 1ST	On

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
BUCKLE SW	The seat belt (driver side) is unfastened. [Seat belt switch (driver side) OFF]	Off	
SUCKLE SW	The seat belt (driver side) is fastened. [Seat belt switch (driver side) ON]	On	
YEVLESS DANIC	PANIC button of key fob is not pressed	Off	
(EYLESS PANIC	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	
AL LON-ONLON	LOCK/UNLOCK button of key fob is pressed and held simultaneously	On	
RKE KEEP UNLK	UNLOCK button of key fob is not pressed	Off	
ME NEEP UNLK	UNLOCK button of key fob is pressed and held	On	
JI DEAM CW	Lighting switch OFF	Off	
II BEAM SW	Lighting switch HI	On	
IEAD LAMB OWA	Lighting switch OFF	Off	
HEAD LAMP SW 1	Lighting switch 2ND	On	
15 4 D 1 4 4 4 D 0 14 4 0	Lighting switch OFF	Off	
IEAD LAMP SW 2	Lighting switch 2ND	On	
UTO LIGHT SW	NOTE: The item is indicated, but not monitored.	Off	
DA COINIO CIAI	Other than lighting switch PASS	Off	
PASSING SW	Lighting switch PASS	On	
-D -FOO OW	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	
TURN SIGNAL R	Turn signal switch OFF	Off	
URN SIGNAL R	Turn signal switch RH	On	
TIPN SIGNAL I	Turn signal switch OFF	Off	
URN SIGNAL L	Turn signal switch LH	On	
ENGINE RUN	Engine stopped	Off	
INGIINE RUIN	Engine running	On	V
PKB SW	Parking brake switch is OFF	Off	V
ND OW	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	
GN SW CAN	Ignition switch OFF or ACC	Off	
GIN SVV CAIN	Ignition switch ON	On	
בר איום בר דיי	Front wiper switch OFF	Off	
R WIPER HI	Front wiper switch HI	On	
	Front wiper switch OFF	Off	
FR WIPER LOW	Front wiper switch LO	On	

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Monitor Item	Condition	Value/Status
FR WIPER INT	Front wiper switch OFF	Off
FR WIPER IN	Front wiper switch INT	On
ED WACHED 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
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
DD W//DED INT	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
DDAKE OM	Brake pedal is not depressed	Off
BRAKE SW	Brake pedal is depressed	On
FAN ON CIC	Blower fan motor switch OFF	Off
FAN ON SIG	Blower fan motor switch ON (other than OFF)	On
AIR COND SW	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
I-KEY PW DWN	UNLOCK button of Intelligent Key is not pressed	Off
I-KET FW DWIN	UNLOCK button of Intelligent Key is pressed and held	On
L VEV DANIC	PANIC button of Intelligent Key is not pressed	Off
I-KEY PANIC	PANIC button of Intelligent Key is pressed	On
DUCH CW	Return to ignition switch to "LOCK" position	Off
PUSH SW	Press ignition switch	On
TONIK ODNID OM	When back door opener switch is not pressed	Off
TRNK 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

< ECU DIAGNOSIS INFORMATION >

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 REGST FLT	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID 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 REGST KKT	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
ID REGOT RET	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
WARINING LAWP	Tire pressure indicator ON	On
DUZZED	Tire pressure warning alarm is not sounding	Off
BUZZER	Tire pressure warning alarm is sounding	On

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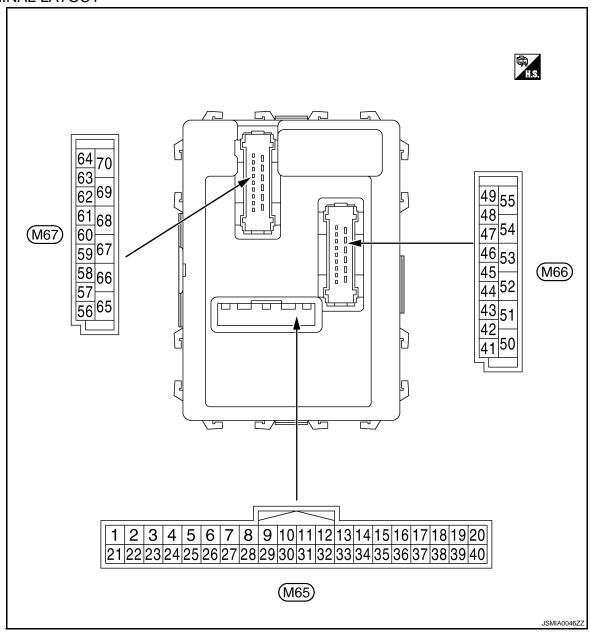
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TERMINAL LAYOUT



PHYSICAL VALUES

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".

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

	nal No.	Description				Value
+ (vvire	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 PKIB4959J 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	
					Lighting switch PASS	(V) 15
3 (Y)	Ground	Combination switch INPUT 4	Input	Combination switch (Wiper intermit-	Lighting switch 2ND	10 5 0 → +10ms PKIB4959J 1.0 V
\'' <i>\</i>				tent dial 4)	Front fog lamp switch ON	(V) 15 10 5 0 **-10ms PKIB4955J 0.8 V
					All switch OFF	0 V
					Front wiper switch LO	
					Front wiper switch MIST	(V) 15
4 (W)	Ground	Combination switch INPUT 3	Input	Combination switch (Wiper intermit- tent dial 4)	Front wiper switch INT	PKIB4959J

	nal No. color)	Description			0 1111	Value
+	-	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)	10 5 0
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	++10ms PKIB4959J
					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0
						PKIB4955J 0.8 V
					All switch OFF (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
6 (P)	Ground	Combination switch INPUT 1	Input	Combination switch	Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2	(V) 15 0 5 0 ++10ms PKIB4952J
					Any of the condition below with all switch OFF • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 ++10ms PKIB4955J 0.8 V

	inal No. e color)	Description			Condition	Value	А
+	-	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 JPMIA0587GB 8.0 - 8.5 V	B C
					UNLOCK position	0.0 V	
8 (R)	Ground	Door key cylinder switch LOCK signal	Input	Door key cylin- der switch	NEUTRAL position	(V) ₁₅ 10 5 0 ++10ms	E
						JРМIA0587GB 8.0 - 8.5 V	G
					LOCK position	0 V	
9	Ground	Stop lamp switch	Input	Stop lamp	OFF (Brake pedal is not depressed)	0 V	Н
(R)	Ground	Clop lamp switch	Прас	switch	ON (Brake pedal is depressed)	Battery voltage	ı
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	J
(02)				Ignition switch A	CC OF ON	Battery voltage (V) 15	K
12 (P)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	10 5 0	L
					ON (When passenger door opened)	7.5 - 8.0 V	WC
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	O P
					ON (When rear door RH opened)	0 V	

	nal No.	Description	1			Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
15 [*] (O)	Ground	Tire pressure warn- ing check switch	Input	Ignition switch O	FF	(V) 15 10 5 0 JPMIA0588GB 1.5 V
18 [*] (O)	Ground	Remote keyless entry 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 Key system	Ignition switch OFF For 3 seconds after ignition switch OFF to ON	0 V
					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 JPMIA0589GB 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 U PMIA0589GB NOTE: The wave form changes according to signal-receiving condition.
21 (G)	Ground	Immobilizer anten- na signal (Clock)	Input/ Output	Ignition switch O	FF	Battery voltage

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value	
+	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 JPMIA0590GB 12.0 V	
					OFF	Battery voltage	
25 (BR)	Ground	Immobilizer anten- na signal (Rx, Tx)	Input/ Output	Ignition switch O	FF	Battery voltage	
				Ignition switch O	FF		
27 (Y)	Ground	A/C switch	Input	Ignition switch	A/C switch OFF	(V) ₁₅ 10 5 0 +-10ms	
						JPMIA0591GB 1.6 V	
					A/C switch ON	0 V	
				Ignition switch O	FF	(1)	
28 (LG)	Ground	Blower fan switch	Input	Ignition switch	Blower fan switch OFF	(V) ₁₅ 10 5 0 ***10ms	
						JРМIA0592GB 7.0 - 7.5 V	
					Blower fan switch ON	0 V	
29	Ground	Hazard switch	Input	Hazard switch	OFF	Battery voltage	
(W)	Ciound	TIGEGIA SWILOTI	прис	Hazara Switch	ON	0 V	
30	Ground	Back door opener	Input	Back door	Not pressed	Battery voltage	
(G)	2.300	switch		opener switch	Pressed	0 V	

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Revision: 2009 October WCS-53 2010 Rogue

	nal No.	Description				Value							
+ (VVire	color)	Signal name	Input/ Output	Condition		(Approx.)							
20		Occupio ativas socitale		Ocarbination	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)								
						İ		Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10				
					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	0 → +10ms PKIB4956J							
33		Combination switch		Combination	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 ++10ms PKIB4960J 7.2 V							
(GR)	Ground	OUTPUT 4	Output switch		ITOLIT	NI IT	Output	DI ITO I IT	Lighting switch 1ST (Wiper intermittent dial 4)	(V) = ± = = = = = = = = = = = = = = = = =			
					Rear wiper switch INT (Wiper intermittent dial 4)	15							
												Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	0 → +10ms PKIB4958J 1.2 V

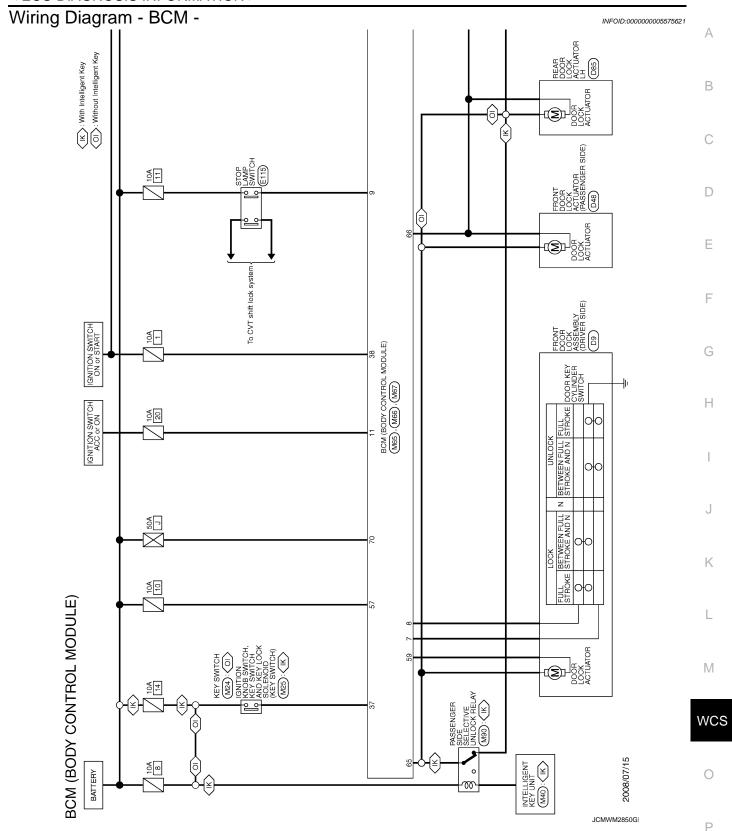
	nal No.	Description				Value	٨
+ (VVire	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 ++10ms PKIB4960J 7.2 V	B C
34 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)		
(-)					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10	Е
					Rear washer switch ON (Wiper intermittent dial 4)	5	F
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	PKIB4958J	G
35	Crowd	Combination switch	Outout	Combination switch	All switch OFF	(V) 15 10 5 0 ++10ms PKIB4960J 7.2 V	H
(B)	Ground	OUTPUT 2	Output	(Wiper intermit- tent dial 4)	Lighting switch 2ND Lighting switch PASS	(V)	
					Front wiper switch INT	10	K
					Front wiper switch HI	0 → +10ms PKIB4958J	L
36	Ground	Combination switch	Output	Combination switch	All switch OFF	(V) 15 10 5 0 + 10ms PKIB4960J 7.2 V	WC:
(V)	Giodila	OUTPUT 1	Output	(Wiper intermit- tent dial 4)	Turn signal switch RH Turn signal switch LH	(V) 15	Р
					Front wiper switch LO (Front wiper switch MIST)	15 10 5 0	
					Front washer switch ON	+10ms PKIB4958J	

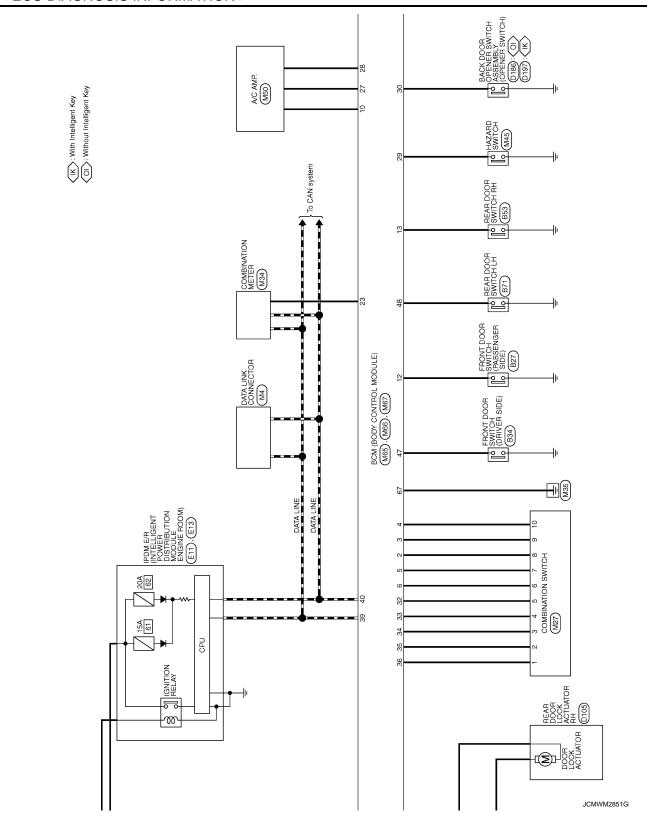
	nal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
37	Ground	Key switch	Input	Insert mechanica der	al key into ignition key cylin-	Battery voltage
(LG)	Ground	Rey Switch	iliput	Remove mechar cylinder	nical key from ignition key	0 V
38	Ground	Ignition switch ON	Input	Ignition switch C	FF or ACC	0 V
(G)	Oround	ignition switch Oiv	Прис	Ignition switch C	N or START	Battery voltage
39 (L)	Ground	CAN-H	Input/ Output		_	_
40 (P)	Ground	CAN-L	Input/ Output		_	_
43 (V)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	(V) ₁₅ 10 5 0 **10ms
					ON	9.5 - 10.0 V 0 V
					(When back door opened)	
44	Ground	Rear wiper auto stop	Input	Ignition switch	Rear wiper stop position Any position other than	0 V
(B)	0.000			ON	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 JPMIA0591GE 1.6 V
					LOCK position	0 V
46 (BR)	Ground	Door lock and unlock switch UNLOCK sig- nal	Input	Door lock and unlock switch	NEUTRAL position	(V) 10 5 0 **10msi JPMIA0591GE
					UNLOCK position	0 V

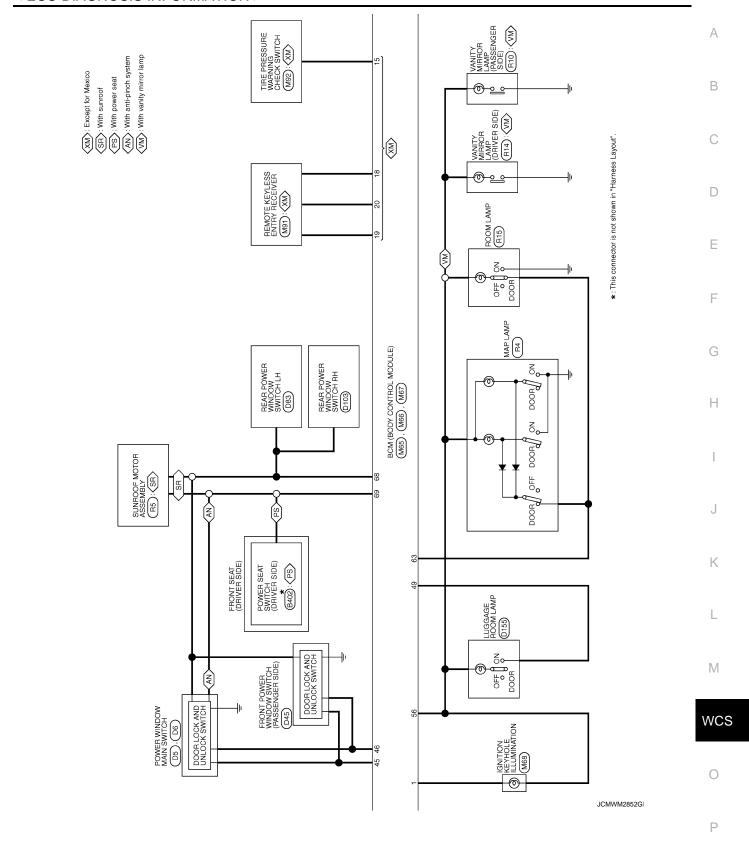
	inal No.	Description			0 100	Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
47 (W)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	(V) ₁₅ 10 5 0 + 10ms JPMIA0587GB 8.0 - 8.5 V
					ON (When driver door opened)	0 V
48 (GR)	Ground	Rear door switch LH	Input	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	Ground	Back door lamp con-	Qutput	Back door lamp switch DOOR	Back door is closed (Back door lamp turns OFF)	Battery voltage
(L)	Ground	trol	Output	position	Back door is opened (Back door lamp turns ON)	0 V
53	Ground	Back door open	Output	Back door	Not pressed (Back door actuator is activated)	0 V
(V)				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 e interior room lamp battery	Battery voltage 0 V
56 (Y)	Ground	Interior room lamp power supply	Output	saver operation t		Battery voltage
57 (G)	Ground	Battery power sup-	Input	Ignition switch O		Battery voltage
59	Ground	Driver door UN-	Output	Driver door	UNLOCK (Actuator is activated)	Battery voltage
(L)	Ciouna	LOCK	Calput	211701 4001	Other then UNLOCK (Actuator is not activated)	0 V

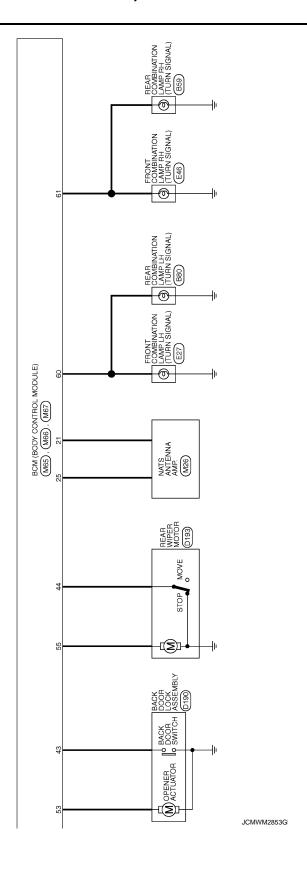
	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					Turn signal switch OFF	0 V
60 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1s 1s PKIC6370E
					Turn signal switch OFF	0 V
61 (GR)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1s 1s PKIC6370E
63	Ground	Interior room lamp	Output	Interior room	OFF	Battery voltage
(R)	Cround	timer control	Output	lamp	ON	0 V
65	Ground	All doors LOCK	Output	All doors	LOCK (Actuator is activated)	Battery voltage
(V)	Ground	All doors Look	Output	7 III GOOTS	Other then LOCK (Actuator is not activated)	0 V
66	Ground	Passenger door and	Output	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 O	N	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

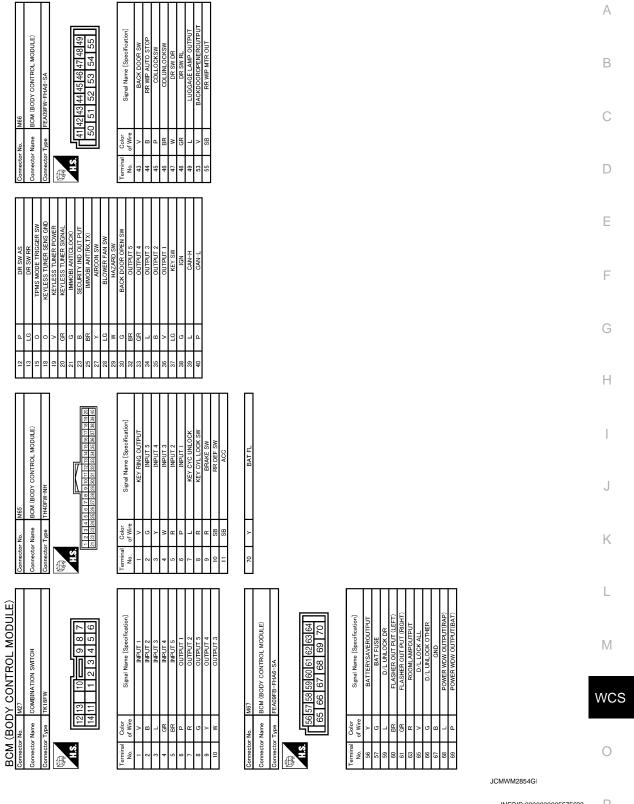








< ECU DIAGNOSIS INFORMATION >



Fail-safe INFOID:0000000005575622

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.

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

INFOID:0000000005575623

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-15
C1706: LOW PRESSURE RR	×	<u>W1-15</u>
C1707: LOW PRESSURE RL	×	
C1708: [NO DATA] FL	×	
C1709: [NO DATA] FR	×	WT-17
C1710: [NO DATA] RR	×	<u>vv 1-17</u>
C1711: [NO DATA] RL	×	

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Tire pressure monitor warning lamp ON	Reference	A
C1716: [PRESS DATA ERR] FL	×		
C1717: [PRESS DATA ERR] FR	×	WT 20	
C1718: [PRESS DATA ERR] RR	×	<u>WT-20</u>	
C1719: [PRESS DATA ERR] RL	×		
C1729: VHCL SPEED SIG ERR	×	<u>WT-22</u>	(
C1735: IGN CIRCUIT OPEN	_	BCS-35	

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THE LIGHT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

THE LIGHT REMINDER WARNING DOES NOT SOUND

Description

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

INFOID:0000000005525246

${f 1}$.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.

NO >> Refer to <u>EXL-106</u>, "Symptom Table" (xenon type), <u>EXL-243</u>, "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-55</u>, "<u>Diagnosis Procedure</u>" (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 <u>DLK-57</u>, "<u>Component Inspection</u>" (with Intelligent Key system), <u>DLK-301</u>, "<u>Component Inspection</u>" (without Intelligent Key system).

Is the inspection result normal?

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

NO >> Replace the front door switch (driver side). Refer to <u>DLK-263</u>, "<u>Removal and Installation</u>" (with Intelligent Key system), <u>DLK-450</u>, "<u>Removal and Installation</u>" (without Intelligent Key system).

THE SEAT BELT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS > THE SEAT BELT REMINDER WARNING DOES NOT SOUND	-
	A
Description	7
Seat belt reminder warning chime does not sound.	В
Trouble diagnosis procedure	3
1. CHECK COMBINATION METER INPUT SIGNAL	C
 Connect the CONSULT-III. Select the "Data Monitor" of "METER/M&A" and check the "BUCKLE SW" monitor value. Refer to WCS- 22. "Component Function Check". 	D
Is the inspection result normal?	
YES >> Replace combination meter. NO >> GO TO 2.	Е
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".	F
Is the inspection result normal?	
YES >> GO TO 3. NO >> Repair the harnesses or connectors.	G
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-9</u>, "<u>SEAT BELT BUCKLE</u>: Removal and Installation". 	.
	J
	K
	L
	N
	W

THE PARKING BRAKE RELEASE WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE PARKING BRAKE RELEASE WARNING DOES NOT SOUND

Description INFOID:0000000055252249

The parking brake warning chime does not sound at all even though driving the vehicle with the parking brake applied.

Diagnosis Procedure

INFOID:0000000005525250

1. CHECK PARKING BRAKE WARNING LAMP OPERATION

- Connect the CONSULT-III.
- 2. Select the "Data Monitor" of "METER/M&A" and check the "PKB 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 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-87, "Removal and Installation".

NO >> Replace parking brake switch.

THE KEY WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE KEY WARNING DOES NOT SOUND Α Description INFOID:0000000005525251 The key warning chime does not sound under the following conditions. В 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:0000000005525252 1. CHECK BCM INPUT SIGNAL D Connect the CONSULT-III. Select the "Data Monitor" of "BCM (BUZZER)" and check the "KEY ON SW" monitor value. Refer to BCS-42, "Reference Value". Е Is the inspection result normal? YES >> Replace BCM. Refer to BCS-67, "Removal and Installation". NO >> GO TO 2. F ${f 2.}$ 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. Н 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. f 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, "Removal and Installation". >> Replace the front door switch (driver side). Refer to DLK-450, "Removal and Installation". NO M

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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 AIR BAG" 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 AIR BAG".
- 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.

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

WARNING:

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT 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"

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.

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 AIR BAG".
- 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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PRECAUTIONS

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