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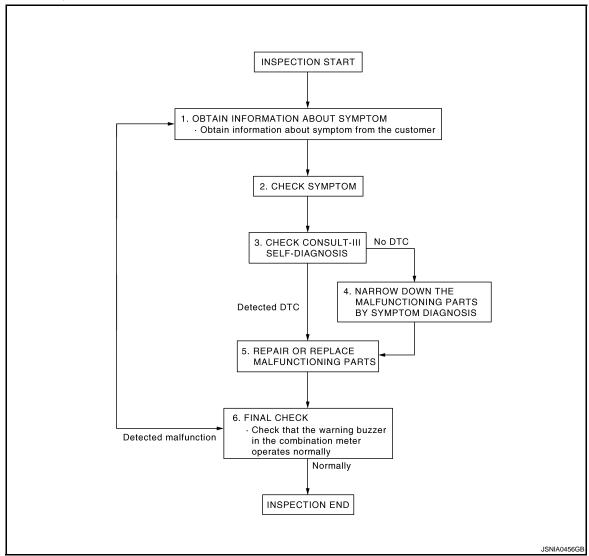
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow INFOID:0000000001686506

OVERALL SEQUENCE



DETAILED FLOW

1. OBTAIN INFORMATION ABOUT SYMPTOM

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

>> GO TO 2.

2.CHECK SYMPTOM

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

>> GO TO 3.

3.check consult-iii self-diagnosis results

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

- 1. Connect CONSULT-III and perform "Self Diagnostic Result" of "METER/M&". Refer to WCS-14, "CONSULT-III Function (METER/M&A)".
- 2. Check if DTC is detected. Refer to WCS-42, "DTC Index".

NOTE:

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

If any DTC detected?

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

4. NARROW DOWN THE MALFUNCTIONING PARTS BY SYMPTOM DIAGNOSIS

Perform symptom diagnosis and narrow down the malfunctioning parts.

>> GO TO 5.

5. REPAIR OR REPLACE MALFUNCTIONING PARTS

Repair or replace malfunctioning parts.

NOTE:

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

>> GO TO 6.

6. FINAL CHECK

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

Does it operate normally?

YES >> INSPECTION END

NO >> GO TO 1.

FUNCTION DIAGNOSIS

WARNING CHIME SYSTEM WARNING CHIME SYSTEM

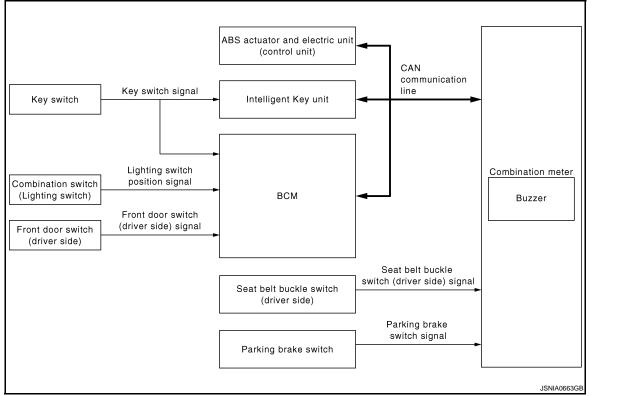
WARNING CHIME SYSTEM: System Diagram

INFOID:000000001686507

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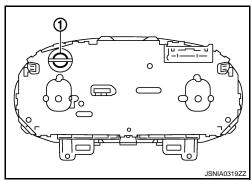
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WARNING CHIME SYSTEM: System Description

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 <u>DLK-35, "System Description"</u>.



WARNING CHIME FUNCTION LIST

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

Revision: 2008 January WCS-5 2008 Rogue

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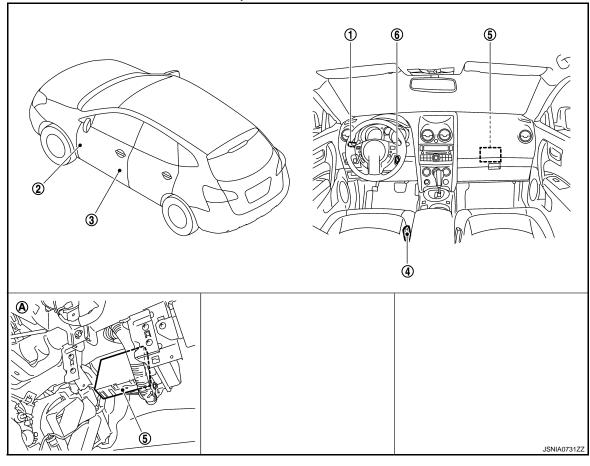
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< FUNCTION DIAGNOSIS >

Warning functions	Signal name	Warning chime judge unit
Parking brake release warning chime	Vehicle speed signalParking brake switch signal	Combination meter
Intelligent Key warning chime	Refer to <u>DLK-320</u> , "KEY REMINDER: System Description".	Intelligent Key unit

WARNING CHIME SYSTEM : Component Parts Location

INFOID:0000000001686509



- 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:0000000001686510

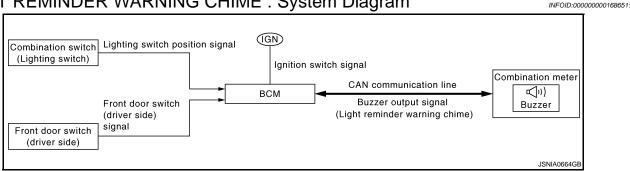
Unit	Description		
Combination meter	 Receives the buzzer output signal from BCM and Intelligent Key unit with the CAN communication line and sounds the buzzer. Judges the parking brake release warning according to the vehicle speed signal received from the ABS actuator and electric unit (control unit)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

< FUNCTION DIAGNOSIS >

Unit	Description
Combination switch (Lighting switch)	Transmits the lighting switch position signal to BCM.
Front door switch (driver side)	Transmits the front door switch (driver side) signal to BCM.
Key switch	Transmits the key switch signal to BCM and Intelligent Key unit.
Parking brake switch	Refer to WCS-24, "Description".

LIGHT REMINDER WARNING CHIME

LIGHT REMINDER WARNING CHIME: System Diagram



LIGHT REMINDER WARNING CHIME: System Description

INFOID:0000000001695843

DESCRIPTION

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

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

WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled.

- Lighting switch at 1ST or 2ND position
- · Ignition switch except at ON or START
- Front door switch (driver side) ON

WARNING CANCEL CONDITIONS

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

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

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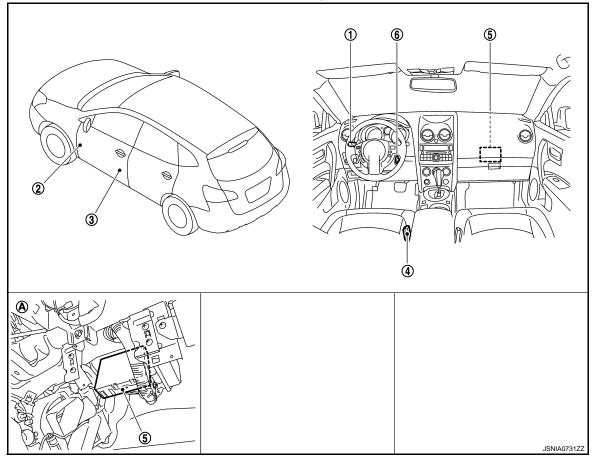
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LIGHT REMINDER WARNING CHIME: Component Parts Location

INFOID:0000000001747408



- 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:000000000168651

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

SEAT BELT REMINDER WARNING CHIME

< FUNCTION DIAGNOSIS >

SEAT BELT REMINDER WARNING CHIME: System Diagram

INFOID:000000001686515

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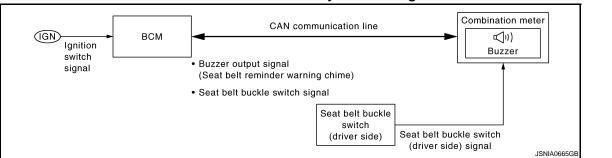
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SEAT BELT REMINDER WARNING CHIME: System Description

INFOID:0000000001695867

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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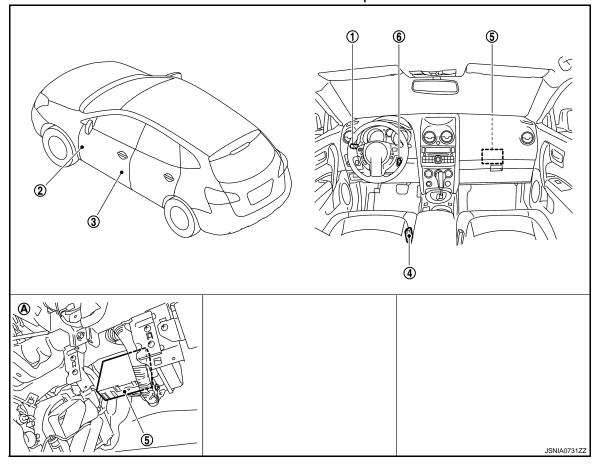
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SEAT BELT REMINDER WARNING CHIME : Component Parts Location

INFOID:000000000174740



- 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

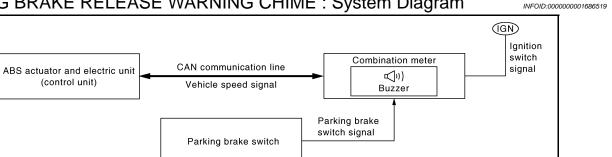
INFOID:000000000168651

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

PARKING BRAKE RELEASE WARNING CHIME

< FUNCTION DIAGNOSIS >

PARKING BRAKE RELEASE WARNING CHIME: System Diagram



PARKING BRAKE RELEASE WARNING CHIME: System Description

INFOID:0000000001686520

JSNIA0666G

DESCRIPTION

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

WARNING OPERATION CONDITIONS

IF all of the following conditions are fulfilled.

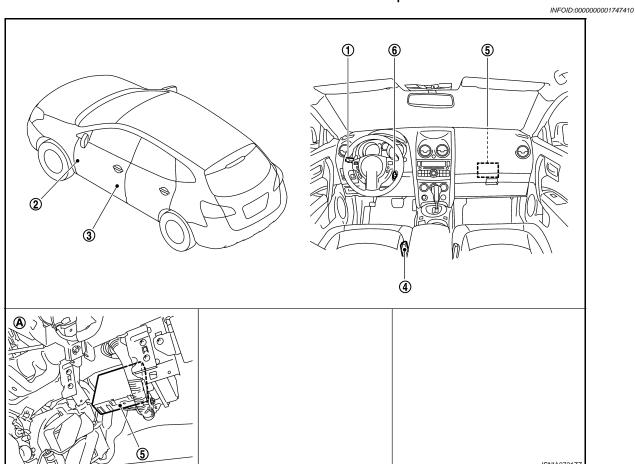
- Vehicle speed is 7 km/h (4.3 MPH) or more
- Parking brake switch ON

WARNING CANCEL CONDITIONS

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

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

PARKING BRAKE RELEASE WARNING CHIME: Component Parts Location



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< FUNCTION DIAGNOSIS >

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

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

Key switch

A. Over the glove box

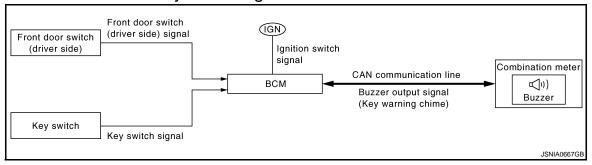
PARKING BRAKE RELEASE WARNING CHIME: Component Description INFOID:00000001688522

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:0000000001686523



KEY WARNING CHIME: System Description

INFOID:0000000001696003

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 <u>DLK-35</u>, "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]

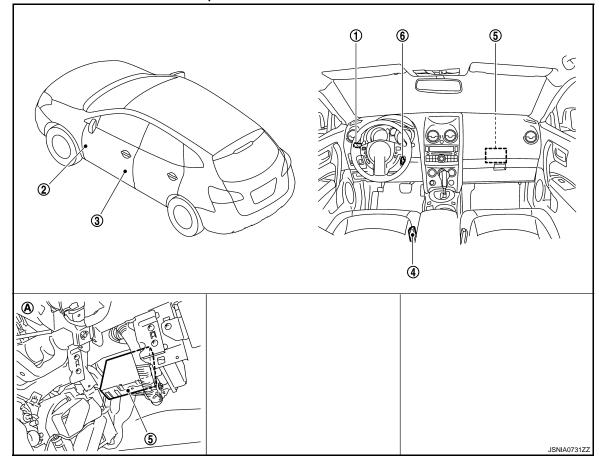
WARNING CANCEL CONDITIONS

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:0000000001747411



- 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:0000000001686526

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

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DIAGNOSIS SYSTEM (METER)

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (METER)

CONSULT-III Function (METER/M&A)

INFOID:0000000001754022

CONSULT-III FUNCTION (METER/M&A)

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

SELF DIAGNOSTIC RESULT

Refer to WCS-42, "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]	x	Value of the engine speed signal received from ECM with CAN communication line. NOTE: 8191.875 is displayed when the malfunction signal is received.
FUEL METER [lit.]	Х	Fuel level indicated on combination meter.
W TEMP METER [°C]	х	Value of engine coolant temperature signal received from ECM with CAN communication line. NOTE: 215 is displayed when the malfunction signal is input.
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)

< FUNCTION DIAGNOSIS >

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.	
CVT IND [On/Off]		Status of CVT indicator lamp or SPORT indicator lamp judged from CVT indicator lamp signal or SPORT indicator signal received from TCM with the CAN communication line.	
4WD W/L [On/Off]		Status of AWD warning lamp judged from AWD warning lamp signal received from AWD control unit with CAN communication line.	
4WD LOCK IND [On/Off]		Status of AWD lock indicator judged from AWD signal received from AWD control unit with the CAN communication line.	
FUEL W/L [On/Off]		Status of Low-fuel warning lamp judged from identified fuel level.	
AIR PRESS W/L [On/Off]		Status of low tire pressure warning lamp judged from the tire pressure signal received from BCM with CAN communication line.	
KEY G W/L [On/Off]		Status of key warning lamp (G) judged from key warning signal received from Intelligent Key unit with CAN communication line.	
KEY R W/L [On/Off]		Status of key warning lamp (R) judged from key warning signal received from Intelligent Key unit with CAN communication line.	
KEY KNOB W/L [On/Off]		Status of Key knob switch received from Intelligent Key unit with the CAN communication line.	
EPS W/L [On/Off]		Status of EPS warning lamp judged from EPS warning lamp signal received from EPS control unit with the CAN communication line.	
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 O/D OFF 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).	
BRAKE OIL SW [On/Off]		Status of brake fluid level switch.	

DIAGNOSIS SYSTEM (METER)

< FUNCTION DIAGNOSIS >

Display item [Unit]	MAIN SIGNALS	Description
DISTANCE [km]		Value of possible driving distance calculated by combination meter.
OUTSIDE TEMP [°C or °F]		Ambient temperature value converted from ambient sensor signal received from ambient sensor. NOTE: This may not match with the temperature value indicated on the information display. (Because the information display value is a corrected value from the ambient sensor input value.)
FUEL LOW SIG [On/Off]		Status of fuel level low warning signal to output to AV control unit with CAN communication line.
BUZZER [On/Off]	Х	Buzzer status (in the combination meter) judged with the buzzer output signal received from BCM via CAN communication and the warning output condition of the combination meter.

NOTE:

Some items are not available according to vehicle specification.

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

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APPLICATION ITEM

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

Diagnosis mode	Function description	
ECU Identification	BCM part number is displayed.	
Self-Diagnostic Result	Displays the diagnosis results judged by BCM. Refer to BCS-63, "DTC Index".	
Data Monitor	BCM input/output signals are displayed.	
Active Test	The signals used to activate each device are forcibly supplied from BCM.	
Work Support	Changes the setting for each system function.	
Configuration	 Read and save the vehicle specification. Write the vehicle specification when replacing BCM. 	
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.	

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

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

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

BUZZER

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DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

BUZZER: CONSULT-III Function (BCM - BUZZER)

INFOID:0000000001686533

CONSULT-III FUNCTION (BCM - BUZZER)

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

DATA MONITOR

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

ACTIVE TEST

Display item	Description		
LIGHT WARN ALM	The light reminder warning chime operation can be checked by operating the relevant function (On/Off).		
IGN KEY WARN ALM	The key warning chime operation can be checked by operating the relevant function (On/Off).		
SEAT BELT WARN TEST	The seat belt reminder warning chime operation can be checked by operating the relevant function (On/Off). The seat belt warning chime operation can be checked by operating the relevant function (On/Off).		

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT COMBINATION METER

COMBINATION METER: Diagnosis Procedure

INFOID:0000000001754030

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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	
Combination meter			OFF	ON
Connector	Terminal		OH	
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	Ground	Existed	
- WIO+	23		LXISIEU	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE): Diagnosis Procedure

1. CHECK FUSES AND FUSIBLE LINK

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

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POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

Signal name	Fuses and fusible link No.
Pottory 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

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

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

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M67	67		Existed

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

METER BUZZER CIRCUIT

< COMPONENT DIAGNOSIS >

METER BUZZER CIRCUIT Α Description INFOID:0000000001686536 • 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:0000000001686537 1. CHECK OPERATION OF METER BUZZER Connect the CONSULT-III Perform "LIGHT WARN ALM", "KEY WARN ALM" or "SEAT BELT WARN TEST" in "ACTIVE TEST" of D "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-83, "Removal and Installation". NO >> Replace BCM. Refer to BCS-67, "Exploded View". Diagnosis Procedure INFOID:0000000001686538 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

< COMPONENT DIAGNOSIS >

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

Description INFOID:000000001686539

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

Component Function Check

INFOID:0000000001686540

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:0000000001686541

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	
Combination meter		(-)	Condition	(Approx.)	
Connector	Terminal				
M34	M34 35		When driver seat belt is fastened	12 V	
10134 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.
- 3. Check continuity between combination meter harness connector terminal and front seat belt buckle switch (driver side) harness connector terminal.

Combination meter		Seat belt buckle s	Continuity	
Connector	Terminal	Connector Terminal		Continuity
M34	35	B409	1	Existed

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

Combina	tion meter		Continuity
Connector	Terminal	Ground	Continuity
M34	35		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE) GROUND CIRCUIT

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

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

Seat belt buckle switch (driver side)

Connector Terminal Ground

B409 2 Existed

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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.

1 - 2

When seat belt is fastened : Continuity should not exist.

When seat belt is unfastened : Continuity should exist.

Is the inspection result normal?

YES >> INSPECTION END

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

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PARKING BRAKE SWITCH SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

PARKING BRAKE SWITCH SIGNAL CIRCUIT

Description INFOID:000000001686542

Transmits the parking brake switch signal to the combination meter.

Diagnosis Procedure

INFOID:0000000001686543

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		(-)	00.14.11011		
Connector	Terminal				
M34	26		Parking brake ON	0 V	
IVI34	26	Ground	Parking brake OFF	5 V	

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2. CHECK PARKING BRAKE SWITCH SIGNAL CIRCUIT

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

Combina	tion meter	Parking 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:000000001686544

Refer to BRC-45, "Component Inspection".

< COMPONENT DIAGNOSIS > WARNING CHIME SYSTEM Α Wiring Diagram - WARNING CHIME -INFOID:0000000001686545 To CAN system В DATA LINK CONNECTOR (M4) C \(\lambda \) \(\text{K}\rightarrow\) : With Intelligent Key \(\lambda \) : Without Intelligent Key \(\lambda \) : With advanced air bag \(\lambda \) : Without advanced air bag D Е W355 F 15 M77 E 105 FRONT DOOR SWITCH (DRIVER SIDE) G COMBINATION METER (BUZZER) Н BCM (BODY CONTROL MODULE) (M65), (M66), (M67) FRONT SEAT (DRIVER SIDE) J SEAT BELT BUCKLE SWITCH (DRIVER SIDE) (B409): (WA) *: This connector is not shown in "Harness Layout". (MA) Κ 35: <WA B20 8401 6 B20 M13 #401 | [8401] COMBINATION SWITCH L IGNITION SWITCH ON or START M 10A WCS **WARNING CHIME** 0

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E105)

BATTERY

# # # # # # # # # # # # # # # # # # #	H.S. H.S. H.S. H.S. H.S. H.S. H.S. H.S.

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Connector No. M27 Connector Name COMBINATION SWITCH Connector Type ITK16FV M.S. 12 13 10	Terminal Color Signal Name [Specification] No. of Wire No. of		В
M25 AND KEY LOCK SOLENDID TKIOBMGY TKIOBMGY TT 2 3 4 5 6	Signal Name (Specification) No. 1 1 2 3 4 4 7 7 10 10 10 10 10 10 10 10	M60 AIR BAC DIAGNOSIS SENSOR UNIT TX20FY-EX-SC 18 17 5 6 1112 4 3 2 16 1 19 15 20 22 21 Signal Name [Specification] A/B W/L	D E F
Comector No. M25 Comector Name AND K Comector Type TK08M H.S.	Terminal Color No. of Wire 1 LG 2 R	Connector No. M80 Connector Name AIR BA Connector Type TYC20P7 Terminal Color No. of Wire 15 LG	G H
No. M24 Name KEY SWITCH Type TK02MBR-P	Color Signal Name (Specification) of Wire LG - GR	M59 M59	J
Connector No. Connector Name Connector Type Connector Type Connector 1799 Connector 1799 Connector Name Connect	Signal Name (Specification) No. 1	Specification] Terminal No. H.A. H.A. H.A. H.A. H.A. H.A. H.A. H.	K L
MARNING CHIME Connector No. M13 Connector Name WIRE TO WIRE Connector Type TH32FV-14H TASEPV-14H TASEPV-14	Terminal Codor Signal Name	Connector Name	wcs
- <u>M v M Le </u> 3			JCNWM0545GI

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Connector No. Connector Type Connector Type Line Connector Type Line Color No. A7 Wile	
38 G IGN 39 L CANH-H 40 P CANH-L	
C CHIME M85 BCM (BODY CON TH40FW TH40FW Signal N Signa	35 6 0.0TPUT 2

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< ECU DIAGNOSIS >

ECU DIAGNOSIS

COMBINATION METER

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item		Condition	Value/Status
SPEED METER [km/h]	Ignition switch ON	While driving	Equivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received
SPEED OUTPUT [km/h]	Ignition switch ON	While driving	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
ABS W/L	Ignition switch	ABS warning lamp ON	On
	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
SLIP IND	Ignition switch	SLIP indicator lamp ON	On
SLIP IND	ON	SLIP indicator lamp OFF	Off
DDAKE W/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
HI-BEAM IND	Ignition switch	High beam indicator lamp ON	On
HI-DEAM IND	ON	High beam indicator lamp OFF	Off
TUDNUND	Ignition switch	Turn signal indicator lamp ON	On
TURN IND	ON	Turn signal indicator lamp OFF	Off
LICUTIND	Ignition switch	Light indicator lamp ON	On
LIGHT IND	ON	Light indicator lamp OFF	Off
OIL W//	Ignition switch	Oil pressure warning lamp ON	On
OIL W/L	ON	Oil pressure warning lamp OFF	Off
MII	Ignition switch	Malfunction indicator lamp ON	On
MIL	ON	Malfunction indicator lamp OFF	Off
CDI IISE IND	Ignition switch	Cruise indicator lamp ON	On
CRUISE IND	ON	Cruise indicator lamp OFF	Off

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Monitor Item		Value/Status		
SET IND	Ignition switch	SET indicator lamp ON	On	
ELIND	ON	SET indicator lamp OFF	Off	
CVT IND	Ignition switch	CVT or SPORT indicator lamp ON	On	
	ON	CVT or SPORT indicator lamp OFF	Off	
NAID NAII	Ignition switch	AWD warning lamp ON	On	
WD W/L	ON	AWD warning lamp OFF	Off	
WD LOOK IND	Ignition switch	LOCK indicator lamp ON	On	
WD LOCK IND	ON	LOCK indicator lamp OFF	Off	
1151 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Ignition switch	Low-fuel warning lamp ON	On	
UEL W/L	ŎN	Low-fuel warning lamp OFF	Off	
ID DDEO W/I	Ignition switch	Low tire pressure warning lamp ON	On	
IR PRES W/L	ŎN	Low tire pressure warning lamp OFF	Off	
(E) (O) (()	Ignition switch	KEY warning lamp (green) ON	On	
ŒY G W/L	ON	KEY warning lamp (green) OFF	Off	
(E) (B) (()	Ignition switch	KEY warning lamp (red) ON	On	
ŒY R W/L	ON	KEY warning lamp (red) OFF	Off	
	Ignition switch ON	LOCK warning lamp ON	On	
KEY KNOB W/L		LOCK warning lamp OFF	Off	
EPS W/L	Ignition switch ON	EPS warning lamp ON	On	
		EPS warning lamp OFF	Off	
	Ignition switch	DDS warning lamp ON	On	
DDS W/L*	ON	DDS warning lamp OFF	Off	
		Shift position indicator P display	P	
		Shift position indicator R display	R	
		Shift position indicator N display	N	
		Shift position indicator D display	D	
	Ignition switch	Shift position indicator M1 display	M1	
SHIFT IND	ON ON	Shift position indicator M2 display	M2	
		Shift position indicator M3 display	M3	
		Shift position indicator M4 display	M4	
		Shift position indicator M5 display	M5	
		Shift position indicator M6 display	M6	
	Ignition switch	O/D OFF switch pressed	On	
D/D OFF SW	ON	O/D OFF switch not pressed	Off	
	Ignition switch	Manual mode	On	
1 RANGE SW	ON Switch	Other than the above	Off	
	Ignition switch	Manual mode	Off	
IM RANGE SW	Ignition switch ON	Other than the above	On	
	Ignition quitob	Selector lever (+) position	On	
T SFT UP SW	Ignition switch ON	Other than the above	Off	
	Ignition quitob	Selector lever (–) position	On	
T SFT DWN SW	Ignition switch ON	Other than the above	Off	
		Paddle shifter up operation	On	
	Ignition switch	Paggie Shiller up oberation		

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Monitor Item		Condition	Value/Status	
ST SFT DWN SW	Ignition switch	Paddle shifter down operation	On	
	ON	Other than the above	Off	
PKB SW	Ignition switch ON	Parking brake switch ON	On	
FRB SW		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 ON	Brake fluid level switch ON	On	
BRAKE OIL SW		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 ON	Low-fuel warning displayed	On	
I OLL LOW SIG		Low-fuel warning not displayed	Off	
BUZZER	Ignition switch	Buzzer ON	On	
DULLER	ON	Buzzer OFF	Off	

^{*:} DDS (hill descent control)

NOTE:

Some items are not available according to vehicle specification.

TERMINAL LAYOUT

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PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value	
+	_	Signal name	Input/ Output	Condition		(Approx.)	
1 (LG)	Ground	Battery power supply	Input	Ignition switch —		Battery voltage	
2 (O)	Ground	IGN 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		
(P)	Ground	ound O/D OFF switch signal	Input	switch ON	O/D OFF switch not pressed	12 V	

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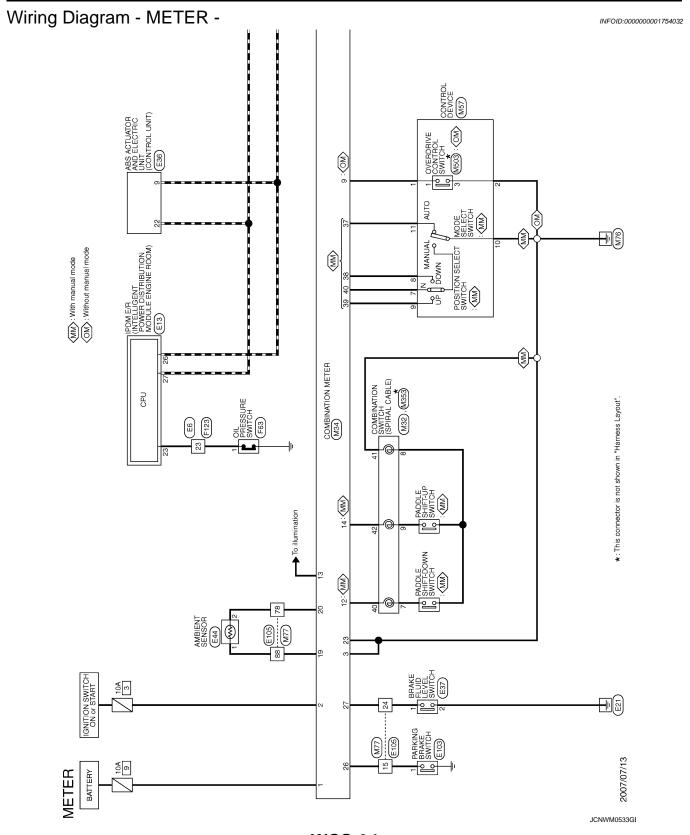
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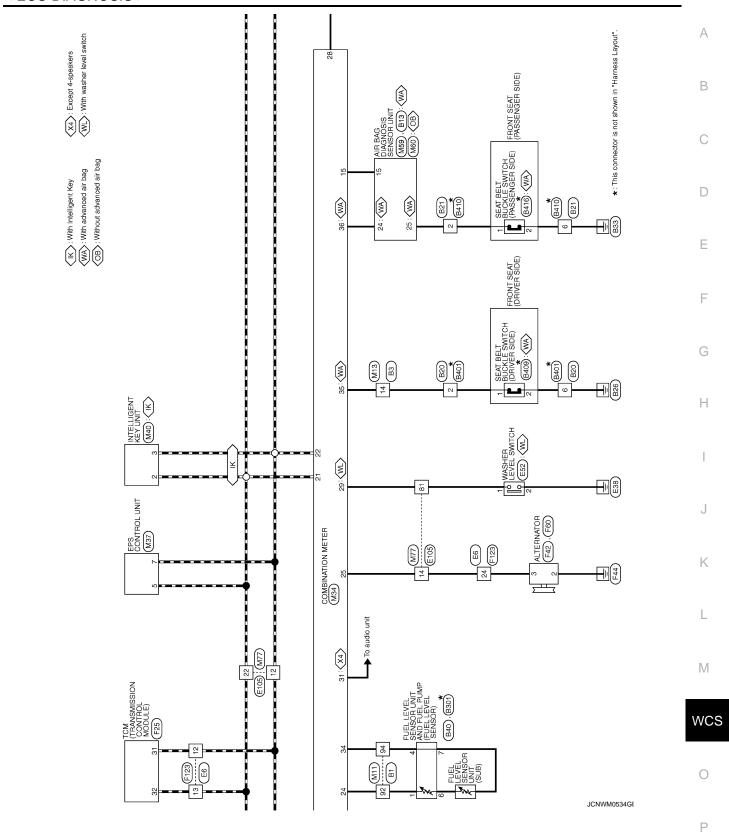
Terminal No. (Wire color)		Description	Description		Condition	Value	
+	_	Signal name	Input/ Output	Condition		(Approx.)	
12 (G)	Ground	Paddle shifter down signal	Input	Ignition switch	Paddle shifter down operation	0 V	
				ON	Other than the above	12 V	
13 (Y)	Ground	Illumination control signal	Input	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)	Ground	Paddle shifter up signal	Input	ON	Other than the above	5 V	
15	0	Air bag signal	Input	Ignition switch ON	Air bag warning lamp ON	4 V	
(LG)	Ground				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 [°F] (14) (32) (50) (68) (68) (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		A1		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 ON	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	

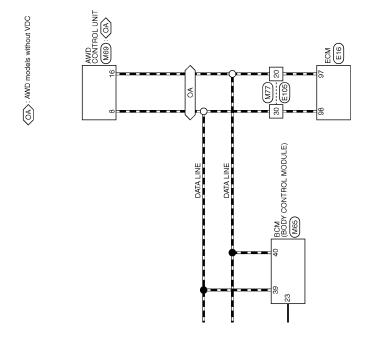
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Terminal No. (Wire color) Description			Condition		Value	
+	_	Signal name	Input/ Output		Condition	(Approx.)
29 (W)	Ground	Washer level switch signal	Input	Ignition switch	Washer level switch ON	0 V
30		Vehicle speed signal		ON	Washer level switch OFF Vehicle speed is approxi-	NOTE: The maximum voltage varies depending on the specification (destination unit).
(Y)	Ground	(2 pulse)	Output	switch ON	mately 40 km/h (25 MPH)	0 JSNIA0015GB
04				Ignition		NOTE: The maximum voltage varies depending on the specification (destination unit).
31 Ground	Vehicle speed signal (8 pulse)	Output	switch ON	Vehicle speed is approximately 40 km/h (25 MPH)	0 20 ms JSNIA0012GB	
34 (G)	Ground	Fuel level sensor signal	Input	Ignition switch ON	_	(V) 4 3 2 1 0 0/13 4/13 7/13 11/13 13/13 JSNIA0423GB
35 (O)	Ground	Seat belt buckle switch signal (driver side)	Input	Ignition switch	When driver seat belt if fastened When driver seat belt is un-	12 V
. ,		,		ON	fastened	0 V
36 Ground	Seat belt buckle switch sig-	Input	Ignition switch	When getting in the passenger seatWhen passenger seat belt if fastened	12 V	
(G)		nal (passenger side)	·	ON	When getting in the passenger seatWhen passenger seat belt if unfastened	0 V
37	Ground	Not manual mode signal	Input	Ignition switch	Manual mode	12 V
(P)				ON	Other than the above	0 V
38	Ground	Manual mode shift down	Input	Ignition switch	Selector lever (–) position	0 V
(O)		signal		ON	Other than the above	12 V
39	Ground	Manual mode shift up sig-	Input	Ignition switch	Selector lever (+) position	0 V
(V)		nal		ON	Other than the above	12 V

	Terminal No. (Wire color) Description			Condition		Value	
+	_	Signal name	Input/ Output	Condition		(Approx.)	
40				9	Ignition	Manual mode	0 V
(LG)	Ground	Manual mode signal	Input switch ON	Other than the above	12 V		



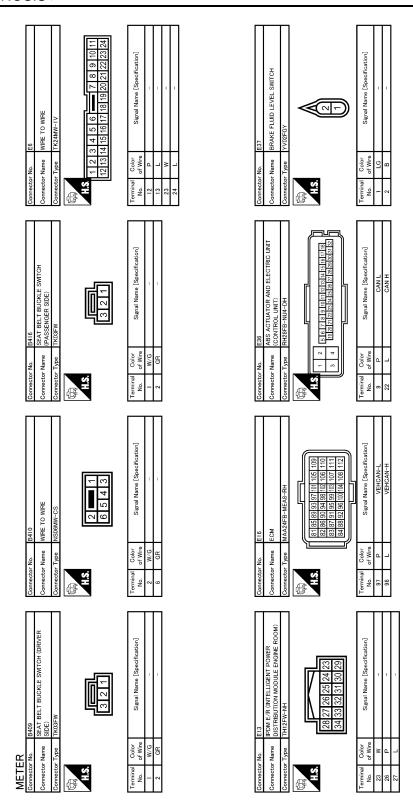




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r Name WIRE TO WIRE Type NISOBTW-CS 3 4 5 6 Color Signal Name [Specification] B	estor No. B401 estor Name Wife TO WIRE 2	В
Connector No. Connector Name Connector Type Terminal Color No. O Wire B	Connector Na. Connector Name Connector Types Terminal Color No. of Wire 2 6 GR	D
NSOR UNITT 400 400 Precification)	NIT AND FUEL. pocification)	Е
B13 AIR BAG DIAGNOSIS SENSOR UNITT TK12FY-1V-EX 32 28 26 27 25 31 8 39 7 36 35 40 Signal Name [Specification] Signal Name [Specification]	B301 FUEL LEVEL SENSOR UNIT AND FUEL PUMP 6 7 Signal Name [Specification]	F
AIR BAG TK12FY 32 2 8 3		G
Connector No. Connector Name Connector Name Connector Type H.S. H.S. No. of Wire 25 L.C.	Connector No. Connector Name Connector Type H.S. H.S. No. Octor No. Octor 7	Н
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WIRE -NH 7 8 9 10 11 12 13 144 12 12 142 12 18 29 130 18 18 19 10 11 12 13 144 15 18 18 18 18 18 18 18 18 18 18 18 18 18	PES RSOR UNIT AND FULL SENSOR UNIT AND FULL SIgnal Name [Specification]	I
B3 WIRE TO WIRE TH32MW-NH 4 5 6 7 8 9 10 20 5 1 22 23 24 25 26 Signal Name	BAO FUEL LEVEL SENSOR UNIT AND FUEL FUMP EDGFGY-RS 5 4 3 2 1 Signal Name (Specification)	J
8 13 3 e e e		V
Connector No. Connector Name Connector Type Connect	Connector No. Connector Type Connector Type H.S. Terminal Color 1 R. 4 R. Garage	K
		L
WIRE CSI6-TM4 C	UNIRE CS SIgnal Name [Specification]	M
	WIRE TO WIRE NS06PW-CS 3 4 5	WCC
	Nire B	WCS
METER Connector Name Connector Name Connector Type Terminal Color No. of Wire 92 94 G	Connector No. Connector Type Connector Type Connector Type Color Terminal Color Colo	0
		JCNWM0536GI

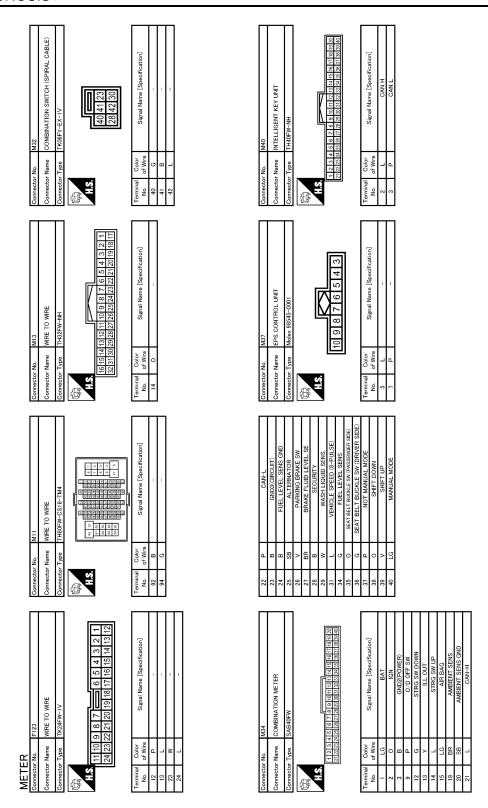
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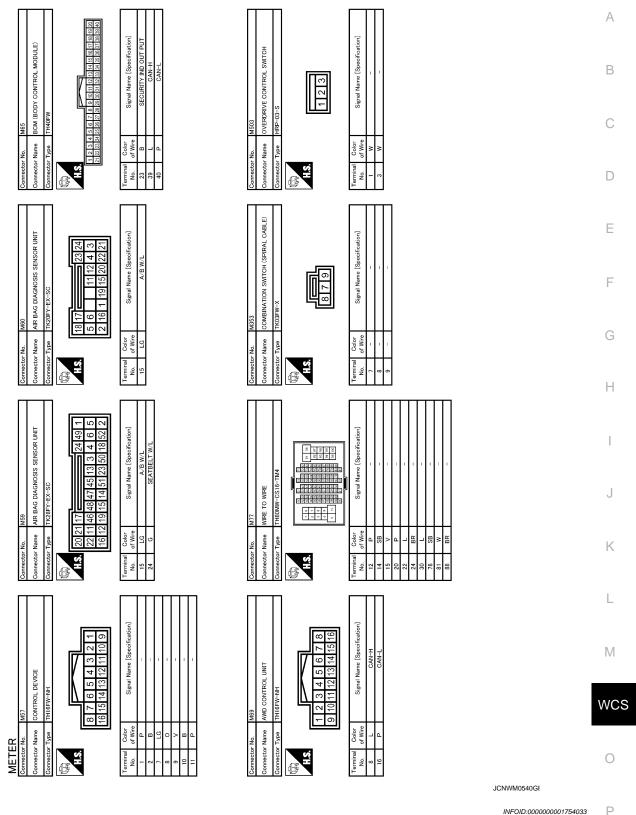
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E105 WIRE TO WIRE TH80PW-CS16-TM4 C C C C C C C C C C C C C C C C C C C		F63 OIL PRESSURE SWITCH EDIFGY-RS-AR Signal Name [Specification]		С
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POIFE-A	Signal Name [Specification]	ATOR Agrail Name [Specification]		F
g g	Color of Wire	Connector No. F60 Connector Name ALTERNATOR Connector Type X0ZFW Terminal Color Signa No. of Wire Signa 3 L		G
Connector No.	Terminal	Connector No. Connector Spr. Connector Typ. Connect		Н
МТСН	Signal Name [Specification]	Signal Name [Specification]		I
WASHER LEVEL SWITCH ZOZFBR	Signal Residence of the state o			J
Connector No. ES. Connector Name WA. Connector Type 200	Terminal Color No. of Wire 1 W 2 B	Connector No. F42 Connector Name AL1 Connector Type		K
	2	Noon E		L
	Signal Name (Specification)	F25 TOM (TRANSMISSION CONTROL MODULE) MAAGFE-MEAB-LH SS 34 55 36 77 38 28 30 45 46 SS 44 15 16 17 18 19 20 43 44 St 4 15 16 17 18 19 20 43 44 St 4 15 16 17 18 19 20 43 44 St 4 15 16 17 18 19 20 43 44 CAN-L CAN-L CAN-H		M
E44 RS0ZFB RS0ZFB	Ш			WCS
METER Connector No. Connector Name Connector Type H.S.	Color of Wire 2 L L 2 L L	Connector No. Connector Name Connector Name Connector Type 12[2] 12[2] 13[3] 14.5 15.1 16.1 17.1 17.1 17.1 17.1 17.1 17.1 17		0
			JCNWM0538GI	Р

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JCNWM0539GI



Fail Safe

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

< ECU DIAGNOSIS >

	Function	Specifications	
Speedometer		Reset to zero by suspending communication.	
Tachometer		Reset to zero by suspending communication.	
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		
	AWD warning lamp		
	Low tire pressure warning lamp	The lamp turns ON after flashing for 1 minutes	
	SPORT/CVT indicator lamp		
	AWD indicator lamp		
Warning lamp/indicator	AWD LOCK indicator lamp		
lamp	Oil pressure warning lamp		
	Door warning lamp		
	Malfunction indicator lamp	Turned off by suspending communication.	
	CRUISE indicator lamp	Turned on by suspending communication.	
	SET indicator lamp		
	KEY warning lamp		
	High beam indicator lamp		
	Turn signal indicator lamp		
	Tail indicator lamp		

DTC Index

Display contents of CONSULT-III	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.	MWI-37
B2205: VEHICLE SPEED	CRNT	PAST	The abnormal vehicle speed signal is input from ABS actuator and electric unit (control unit) for 2 seconds or more.	<u>MWI-38</u>
B2267: ENGINE SPEED	CRNT	PAST	ECM continuously transmits abnormal engine speed signals for 2 seconds or more.	MWI-39
B2268: WATER TEMP	CRNT	PAST	ECM continuously transmits abnormal engine coolant temperature signals for 60 seconds or more.	<u>MWI-40</u>

NOTE

The details of TIME display are as follows.

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

< ECU DIAGNOSIS >

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
IGN ON SW	Ignition switch OFF or ACC	Off
IGN ON SW	Ignition switch ON	On
KEY ON SW	Mechanical key is removed from key cylinder	Off
KET ON SW	Mechanical key is inserted to key cylinder	On
CDL LOCK SW	Door lock/unlock switch does not operate	Off
CDL LOCK SW	Press door lock/unlock switch to the lock side	On
CDL UNLOCK SW	Door lock/unlock switch does not operate	Off
CDL UNLOCK SW	Press door lock/unlock switch to the unlock side	On
DOOR SW-DR	Driver's door closed	Off
DOOK SW-DK	Driver's door opened	On
DOOR SW-AS	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
DOOR SW-RR	Rear RH door closed	Off
DOOK SW-KK	Rear RH door opened	On
DOOR SW-RL	Rear LH door closed	Off
DOOR SW-RL	Rear LH door opened	On
DACK DOOD CW	Back door closed	Off
BACK DOOR SW	Back door opened	On
KEN CALIK 6/M	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
KET CTL UN-SW	Driver door key cylinder UNLOCK position	On
KEYLESS LOCK	"LOCK" button of key fob is not pressed	Off
RETLESS LOCK	"LOCK" button of key fob is pressed	On
KEYLESS UNLOCK	"UNLOCK" button of key fob is not pressed	Off
RETLESS UNLOCK	"UNLOCK" button of key fob is pressed	On
I-KEY LOCK	"LOCK" button of Intelligent Key or door request switch are not pressed	Off
	"LOCK" button of Intelligent Key or door request switch are pressed	On
I KEY IINII OOK	"UNLOCK" button of Intelligent Key or door request switch are not pressed	Off
I-KEY UNLOCK	"UNLOCK" button of Intelligent Key or door request switch are pressed	On
ACC ON SW	Ignition switch OFF	Off
ACC ON SW	Ignition switch ACC or ON	On
DEAD DEE OM	Rear window defogger switch OFF	Off
REAR DEF SW	Rear window defogger switch ON	On
LIGHT OW COT	Lighting switch OFF	Off
LIGHT SW 1ST	Lighting switch 1ST	On

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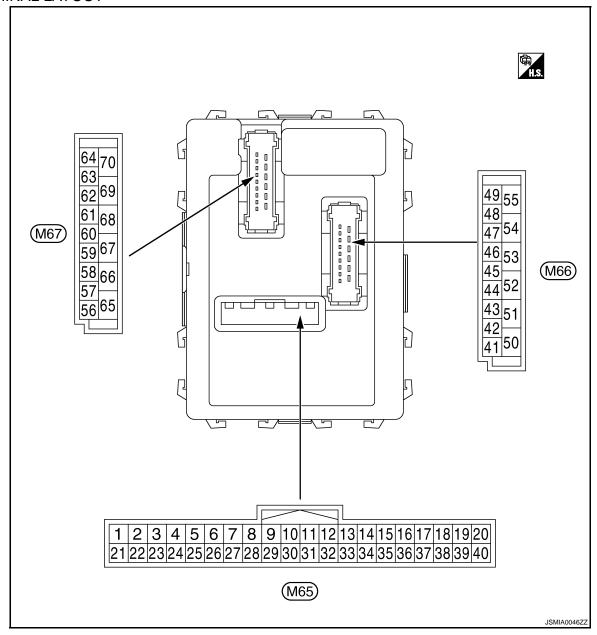
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Monitor Item	Condition	Value/Status
DUCKI E CW	The seat belt (driver side) is unfastened. [Seat belt switch (driver side) OFF]	Off
BUCKLE SW	The seat belt (driver side) is fastened. [Seat belt switch (driver side) ON]	On
1/5\/! 500 BANIO	PANIC button of key fob is not pressed	Off
KEYLESS 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
RRE LOR-UNLOR	LOCK/UNLOCK button of key fob is pressed and held simultaneously	On
DVE VEED LINEV	UNLOCK button of key fob is not pressed	Off
RKE KEEP UNLK	UNLOCK button of key fob is pressed and held	On
LUDEANA OW	Lighting switch OFF	Off
HI BEAM SW	Lighting switch HI	On
	Lighting switch OFF	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
	Lighting switch OFF	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
AUTO LIGHT SW	NOTE: The item is indicated, but not monitored.	Off
	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
	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 switch OFF	Off
TURN SIGNAL R	Turn signal switch RH	On
	Turn signal switch OFF	Off
TURN SIGNAL L	Turn signal switch LH	On
	Engine stopped	Off
ENGINE RUN	Engine running	On
	Parking brake switch is OFF	Off
PKB SW	Parking brake switch is ON	On
CARGO LAMP SW	NOTE: The item is indicated, but not monitored.	Off
OPTICAL SENSOR	NOTE: The item is indicated, but not monitored.	0 V
ICNI SIM CANI	Ignition switch OFF or ACC	Off
IGN SW CAN	Ignition switch ON	On
ED \\(\(\)\(\)	Front wiper switch OFF	Off
FR WIPER HI	Front wiper switch HI	On
	Front wiper switch OFF	Off
FR WIPER LOW	Front wiper switch LO	On

Monitor Item	Condition	Value/Status
ED WIDED INT	Front wiper switch OFF	Off
R WIPER INT	Front wiper switch INT	On
ED WACHED CW	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
ED WIDED CTOD	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
20 W/DED ON	Rear wiper switch OFF	Off
RR WIPER ON	Rear wiper switch ON	On
	Rear wiper switch OFF	Off
RR WIPER INT	Rear wiper switch INT	On
	Rear washer switch OFF	Off
RR WASHER SW	Rear washer switch ON	On
	Rear wiper stop position	Off
RR WIPER STOP	Other than rear wiper stop position	On
DD WIDED CTDO	NOTE:	0#
RR WIPER STP2	The item is indicated, but not monitored.	Off
H/L WASH SW	NOTE: The item is indicated, but not monitored.	Off
HAZARD SW	Hazard switch OFF	Off
	Hazard switch ON	On
	Brake pedal is not depressed	Off
BRAKE SW	Brake pedal is depressed	On
	Blower fan motor switch OFF	Off
FAN ON SIG	Blower fan motor switch ON (other than OFF)	On
	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
	UNLOCK button of Intelligent Key is not pressed	Off
-KEY PW DWN	UNLOCK button of Intelligent Key is pressed and held	On
	PANIC button of Intelligent Key is not pressed	Off
-KEY PANIC	PANIC button of Intelligent Key is pressed	On
	Return to ignition switch to "LOCK" position	Off
PUSH SW	Press ignition switch	On
	When back door opener switch is not pressed	Off
TRNK OPNR SW	When back door opener switch is pressed	On
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

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
D REGST FL1	ID of front LH tire transmitter is registered	Done
D REGGI FLI	ID of front LH tire transmitter is not registered	Yet
D REGST FR1	ID of front RH tire transmitter is registered	Done
D REGST FRI	ID of front RH tire transmitter is not registered	Yet
D REGST RR1	ID of rear RH tire transmitter is registered	Done
D REGST KKT	ID of rear RH tire transmitter is not registered	Yet
D REGST RL1	ID of rear LH tire transmitter is registered	Done
D NEGOI KLI	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
VARINING LAWIP	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
DULLER	Tire pressure warning alarm is sounding	On

TERMINAL LAYOUT



PHYSICAL VALUES

CAUTION:

- Check combination switch system terminal waveform under the loaded condition with lighting switch, turn signal switch and wiper switch OFF is not to be fluctuated by being overloaded.
- Turn wiper intermittent dial position to 4 except when checking waveform or voltage of wiper intermittent dial position. Wiper intermittent dial position can be confirmed on CONSULT-III. Refer to BCS-26, "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 <a href="Diagram".

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

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	nal No. color)	Description			Condition	Value	
+	-	Signal name	Input/ Output	Condition		(Approx.)	
					All switch OFF	0 V	
					Turn signal switch RH		
					Lighting switch HI	(V) 15	
2 (G)	Ground	Combination switch INPUT 5	Input	Combination switch (Wiper intermit-	Lighting switch 1ST	10 5 0 ++10ms PKIB4959J 1.0 V	
				tent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 +-10ms PKIB4953J 2.0 V	
					All switch OFF	0 V	
					Turn signal switch LH	0 0	
					Lighting switch PASS	(<u>v)</u>	
3 (Y)	Ground	Combination switch INPUT 4	Input	Combination switch	Lighting switch 2ND	15 10 5 0 +-10ms PKIB4959J 1.0 V	
, ,				(Wiper intermittent 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		
				Combination	Front wiper switch MIST	(V) 15	
4 (W)	Ground	Combination switch INPUT 3	Input	switch (Wiper intermit- tent dial 4)	Front wiper switch INT	10 5 0 ++10ms PKIB4959J	
						1.0 V	

	nal No. color)	Description	Description		0	Value	
+ (vvire	- COIOF)	Signal name	Input/ Output		Condition	(Approx.)	
					All switch OFF (Wiper intermittent dial 4) Front washer switch	0 V	
					(Wiper intermittent dial 4) Rear washer ON (Wiper intermittent dial 4)	(V) 15 10 5	
5 (R)	Ground	Combination switch INPUT 2	Input	Combination switch	Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	→ +10ms PKIB4959J	
					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 +-10ms PKIB4955J	
					All switch OFF (Wiper intermittent dial 4)	0.8 V	
					Front wiper switch HI (Wiper intermittent dial 4) Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10 0	
					Wiper intermittent dial 3 (All switch OFF)	→ +10ms PKIB4959J	
						(V)	
6 (P)	Ground	Combination switch INPUT 1	Input	Combination switch	Any of the condition below with all switch OFF • Wiper intermittent dial 1	15 10 5 0	
					Wiper intermittent dial 2	PKIB4952J	
						(V) 15	٧
					Any of the condition below with all switch OFF • Wiper intermittent dial 6 • Wiper intermittent dial 7	10 5 0	
						PKIB4955J 0.8 V	

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

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	nal No. color)	Description			O andition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
15* ¹ (O)	Ground	TPMS mode trigger switch	Input	Ignition switch O	FF	(V) ₁₅ 10 5 0 → 10ms JPMIA0588GB 1.5 V
18* ¹ (O)	Ground	Remote keyless entry receiver ground	Input	Ignition switch O	N	0 V
				Without Intelligent Key system	At any condition	5 V
19* ¹ (V)	Ground	Remote keyless en- try receiver power supply	Input	With Intelligent	Ignition switch OFF For 3 seconds after ignition switch OFF to ON	0 V
				Key system	3 seconds or later after ignition switch OFF to ON	5 V
				Without Intelligent Key system	At any condition	(V) 15 10 JPMIA0589GB NOTE: The wave form changes according to signal-receiving condition.
20* ¹ (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 10 10 10 10 10 10 10 10 10 10 10 10
21	Ground	Immobilizer anten- na signal (Clock)	Input/ Output	Ignition switch O	FF	Battery voltage

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	nal No.	Description				Value
+ (VVire	color)	Signal name	Input/ Output	Condition		(Approx.)
					ON	0 V
23 (B)	Ground	Security indicator signal	Input	Security indicator	Blinking (Ignition switch OFF)	(V) ₁₅ 10 5 0 → 1s JPMIA0590GB 12.0 V
					OFF	Battery voltage
25 (BR)	Ground	Immobilizer anten- na signal (Rx, Tx)	Input/ Output	Ignition switch O	FF	Battery voltage
				Ignition switch OFF		
27 (Y)	Ground	A/C switch	Input	Ignition switch ON	A/C switch OFF	(V) 10 5 0
					A/C switch ON	0 V
				Ignition switch O	FF	
28 (LG)	Ground	Blower fan switch	Input	Ignition switch ON	Blower fan switch OFF	(V) ₁₅ 10 5 0 **-10ms JPMIA0592GB 7.0 - 7.5 V
					Blower fan switch ON	0 V
29	Ground	Hazard switch	Input	Hazard switch	OFF	Battery voltage
(W)					ON	0 V
30	Ground	Back door opener switch	Input	Back door	Not pressed	Battery voltage
(G)		2MIICH		opener switch	Pressed	0 V

< ECU DIAGNOSIS >

	Terminal No. Desc (Wire color)		1			Value	А		
+	- COIOT)	Signal name	Input/ Output		Condition	(Approx.)			
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 → 10ms PKIB4960J 7.2 V	B C		
32 (BR)	Ground	Combination switch OUTPUT 5	Output	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15	E		
					Rear wiper switch ON (Wiper intermittent dial 4)	10			
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2	0	F		
					Wiper intermittent dial 6Wiper intermittent dial 7	1.0 V	G		
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0	Н		
								РКIВ4960J 7.2 V	
33 (GR)	Ground	Combination switch OUTPUT 4	Output	Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15	J		
				Rear wiper switch INT (Wiper intermittent dial 4)	15 10 5	K			
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	PKIB4958J 1.2 V	L		

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	nal No.	Description	1			Value
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 ++10ms PKIB4960J 7.2 V
34 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)	
()					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10
					Rear washer switch ON (Wiper intermittent dial 4)	5 0
					Any of the condition below with all switch OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 3	PKIB4958J 1.2 V
				Combination	All switch OFF	(V) 15 10 5 0 ++10ms PKIB4960J 7.2 V
35 (B)	Ground	Combination switch OUTPUT 2	Output	switch (Wiper intermit-	Lighting switch 2ND	1.2 V
				tent dial 4)	Lighting switch PASS	(V) 15 10
					Front wiper switch INT Front wiper switch HI	PKIB4958J
36	Ground	Combination switch	Output	Combination switch	All switch OFF	(V) 15 10 5 0 +-10ms PKIB4960J 7.2 V
(V)	Giodila	OUTPUT 1	Juipui	(Wiper intermit- tent dial 4)	Turn signal switch RH	(V)
				·	Turn signal switch LH Front wiper switch LO	15 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
					(Front wiper switch MIST) Front washer switch ON	5 0 ++10ms PKIB4958J 1.2 V

< ECU DIAGNOSIS >

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
37	Ground	Key switch	Input	Insert mechanicader	al key into ignition key cylin-	Battery voltage
(LG)	Giouria	Key Switch	input	Remove mechai cylinder	nical key from ignition key	0 V
38 (G)	Ground	Ignition switch ON	Input	Ignition switch C		0 V
39	Ground	CAN-H	Input/	Ignition switch C	DN or START	Battery voltage
(L) 40 (P)	Ground	CAN-L	Output Input/ Output		_	<u> </u>
43 (V)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	(V) ₁₅ 10 5 0 → 10ms JPMIA0593GB 9.5 - 10.0 V
					ON (When back door opened)	0 V
44	Ground	Rear wiper auto stop	Input	Ignition switch	Rear wiper stop position Any position other than	0 V
(B)			'	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 JPMIA0591GB
					LOCK position	1.6 V
46 (BR)	Ground	Door lock and unlock switch UNLOCK sig- nal	Input	Door lock and unlock switch	NEUTRAL position	(V) ₁₅ 10 5 0 ++10ms JPMIA0591GB 1.6 V
					UNLOCK position	0 V

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	nal No.	Description				Value
+ (VVire	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 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-	Output	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)	Cround	Back door open	Odiput	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 Battery voltage
				After passing the	Rear wiper switch ON interior room lamp battery	0 V
56 (Y)	Ground	Interior room lamp power supply	Output	saver operation time Any other time after passing the interior room lamp battery saver operation time		Battery voltage
57 (G)	Ground	Battery power sup- ply	Input	Ignition switch OFF		Battery voltage
59	Ground	Driver door UN-	Output	Driver door	UNLOCK (Actuator is activated)	Battery voltage
(L)		LOCK			Other then UNLOCK (Actuator is not activated)	0 V

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description				Value
+	-	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)	Cround	7.11 doors 20010	Output	7 111 00010	Other then LOCK (Actuator is not activated)	0 V
66	Ground	Passenger door and	Outrut	Passenger door	UNLOCK (Actuator is activated)	Battery voltage
(G)	Giouria	rear door UNLOCK	Output	and rear door	Other then UNLOCK (Actuator is not activated)	0 V
67 (B)	Ground	Ground	Output	Ignition switch O	N	0 V
68 (L)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		Battery voltage
69 (R)* ² (P)* ³	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		Battery voltage
70 (Y)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	Battery voltage

NOTE:

- *1: Except for Mexico
- *2: Without anti-pinch system
- *3: With anti-pinch system

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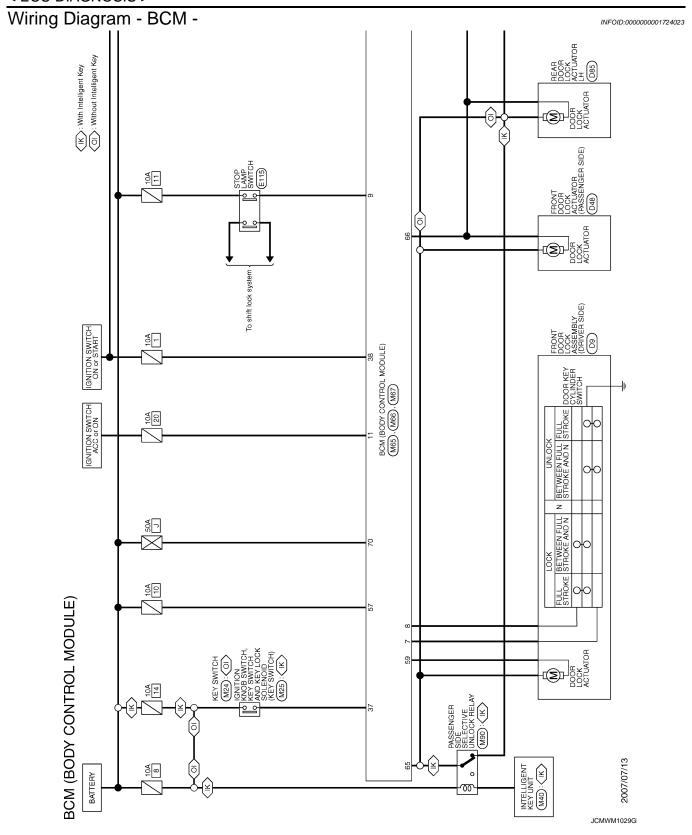
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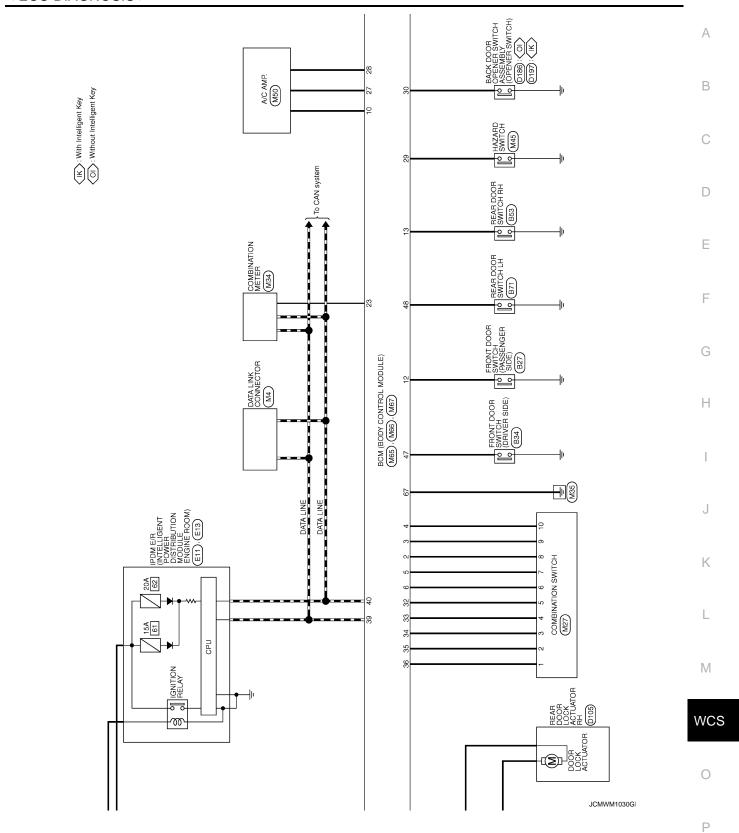
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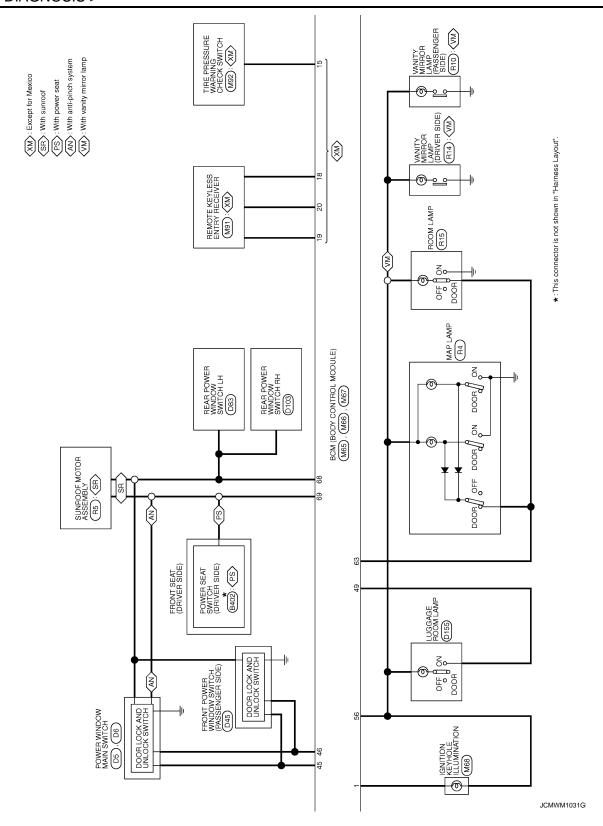
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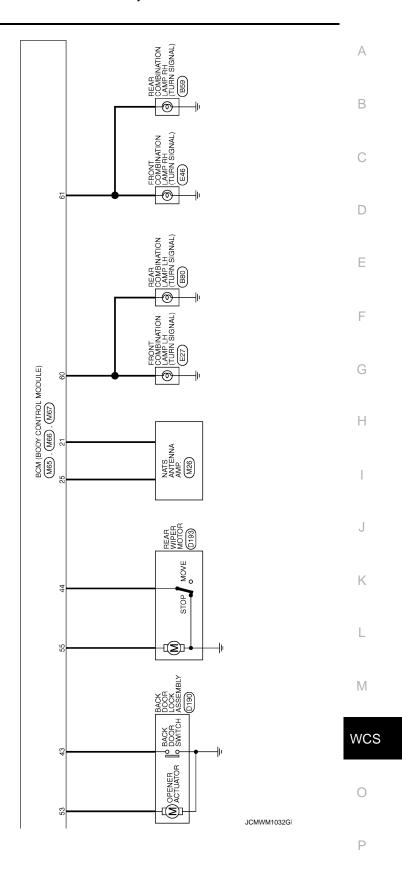
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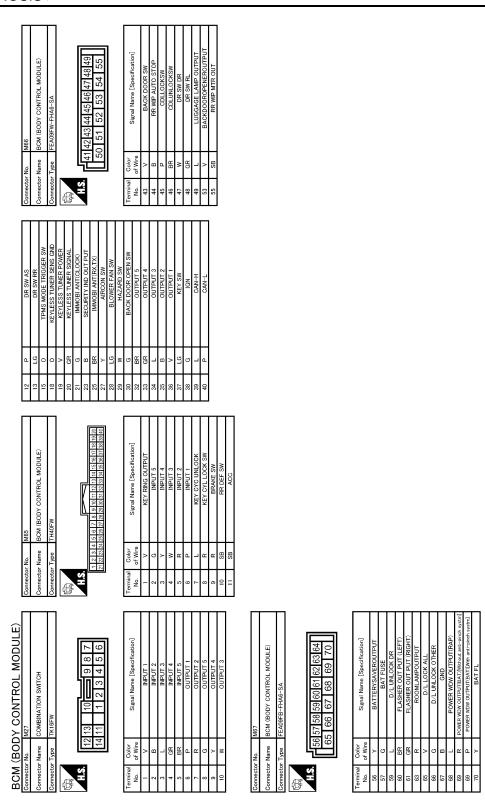
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JCMWM1033G

Fail Safe

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper auto stop signal. When the rear wiper auto stop 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 >

- Pass more than 1 minute after the rear wiper stop.
- Turn rear wiper switch OFF. 2.
- 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

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Priority	DTC	
1	U1000: CAN COMM CIRCUIT	Е
2	C1735: IGN CIRCUIT OPEN	
	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL	F
	 C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR 	G
	 C1711: [NO DATA] RL C1712: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR 	Н
3	 C1715: [CHECKSUM ERR] RL C1716: [PRESS DATA ERR] FL C1717: [PRESS DATA ERR] FR C1718: [PRESS DATA ERR] RR 	I
	 C1719: [PRESS DATA ERR] RL C1720: [CODE ERR] FL C1721: [CODE ERR] FR C1722: [CODE ERR] RR 	J
	 C1723: [CODE ERR] RL C1724: [BATT VOLT LOW] FL C1725: [BATT VOLT LOW] FR C1726: [BATT VOLT LOW] RR 	K
	C1726: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RL C1729: VHCL SPEED SIG ERR	L

DTC Index INFOID:0000000001724026

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 \rightarrow ON again.

• 1 - 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1 \rightarrow 2 \rightarrow 3...38 \rightarrow 39 after returning to the normal condition whenever ignition switch OFF \rightarrow ON. The counter remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch $OFF \rightarrow ON$ after returning to the normal condition if the malfunction is detected again.

DTC	Tire pressure monitor warning lamp ON	Reference
U1000: CAN COMM CIRCUIT	_	BCS-35
C1704: LOW PRESSURE FL	×	
C1705: LOW PRESSURE FR	×	WT-14
C1706: LOW PRESSURE RR	×	<u>VV1-14</u>
C1707: LOW PRESSURE RL	×	

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DTC	Tire pressure monitor warning lamp ON	Reference	
C1708: [NO DATA] FL	×		
C1709: [NO DATA] FR	×	N/T 4C	
C1710: [NO DATA] RR	×	- <u>WT-16</u>	
C1711: [NO DATA] RL	×	=	
C1712: [CHECKSUM ERR] FL	×		
C1713: [CHECKSUM ERR] FR	×	W/T 40	
C1714: [CHECKSUM ERR] RR	×	<u>WT-19</u>	
C1715: [CHECKSUM ERR] RL	×	=	
C1716: [PRESS DATA ERR] FL	×		
C1717: [PRESS DATA ERR] FR	×	WT-22	
C1718: [PRESS DATA ERR] RR	×		
C1719: [PRESS DATA ERR] RL	×	=	
C1720: [CODE ERR] FL	×		
C1721: [CODE ERR] FR	×	WT 24	
C1722: [CODE ERR] RR	×	- <u>WT-24</u>	
C1723: [CODE ERR] RL	×	=	
C1724: [BATT VOLT LOW] FL	_		
C1725: [BATT VOLT LOW] FR	_	WT 27	
C1726: [BATT VOLT LOW] RR	_	- <u>WT-27</u>	
C1727: [BATT VOLT LOW] RL	_		
C1729: VHCL SPEED SIG ERR	×	<u>WT-30</u>	
C1735: IGN CIRCUIT OPEN	_	BCS-36	

THE LIGHT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

THE LIGHT REMINDER WARNING DOES NOT SOUND

Description INFOID:0000000001696892

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

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

Diagnosis Procedure

 ${f 1}$.CHECK COMBINATION SWITCH (LIGHTING SWITCH) OPERATION

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

Do they operate normally?

YES >> GO TO 2.

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

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

Check the front door switch (driver side) signal circuit. Refer to <u>DLK-57</u>, "Diagnosis Procedure" (with intelligent key system), DLK-339, "Diagnosis Procedure" (without intelligent key system).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK FRONT DOOR SWITCH (DRIVER SIDE)

Check the front door switch (driver side). Refer to DLK-59, "Component Inspection" (with intelligent key system), DLK-341, "Component Inspection" (without intelligent key system).

Is the inspection result normal?

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

>> Replace the front door switch (driver side). Refer to <u>DLK-301</u>, "Removal and Installation". NO

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THE SEAT BELT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE SEAT BELT REMINDER WARNING DOES NOT SOUND

Description INFOID:0000000016865557

Seat belt reminder warning chime does not sound.

Trouble diagnosis procedure

INFOID:0000000001686558

1. CHECK COMBINATION METER INPUT SIGNAL

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

Is the inspection result normal?

YES >> Replace combination meter.

NO >> GO TO 2.

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

Check the seat belt buckle switch (driver side) signal circuit. Refer to WCS-22, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair the harnesses or connectors.

3.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

Check the seat belt buckle switch (driver side). Refer to WCS-23, "Component Inspection".

Is the inspection result normal?

YES >> Replace combination meter.

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

THE PARKING BRAKE RELEASE WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS > THE PARKING BRAKE RELEASE WARNING DOES NOT SOUND Α Description INFOID:0000000001686559 The parking brake warning chime does not sound at all even though driving the vehicle with the parking brake applied. Diagnosis Procedure INFOID:0000000001686560 C 1. CHECK PARKING BRAKE WARNING LAMP OPERATION Connect the CONSULT-III. Select the "Data Monitor" of "METER/M&A" and check the "PKB SW" monitor value. Refer to WCS-22, D "Component Function Check". Is the inspection result normal? Е YES >> Replace combination meter. NO >> GO TO 2. 2.CHECK PARKING BRAKE SWITCH SIGNAL CIRCUIT Check the parking brake switch signal circuit. Refer to WCS-24, "Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 3. NO >> Repair harness or connector. 3.CHECK PARKING BRAKE SWITCH Check the parking brake switch. Refer to WCS-24, "Component Inspection". Is the inspection result normal? YES >> Replace combination meter. Refer to MWI-83, "Removal and Installation". NO >> Replace parking brake switch. K M **WCS**

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THE KEY WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE KEY WARNING DOES NOT SOUND

Description INFOID:0000000016865661

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

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

Diagnosis Procedure

INFOID:0000000001686562

1. CHECK BCM INPUT SIGNAL

- 1. Connect the CONSULT-III.
- Select the "Data Monitor" of "BCM (BUZZER)" and check the "KEY ON SW" monitor value. Refer to WCS-43. "Reference Value".

Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to <u>DLK-309</u>, "Exploded View".

NO >> GO TO 2.

2.CHECK KEY SWITCH SIGNAL CIRCUIT

Check the key switch signal circuit. Refer to DLK-347, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

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

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

Check the front door switch (driver side) signal circuit. Refer to DLK-339, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair harness or connector.

4.CHECK FRONT DOOR SWITCH (DRIVER SIDE)

Check the front door switch (driver side). Refer to DLK-341, "Component Inspection".

Is the inspection result normal?

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

NO >> Replace the front door switch (driver side). Refer to DLK-499, "Exploded View".

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS FOR USA AND CANADA

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIRBAG" and "SEAT BELT" of this Service Manual.

WARNING:

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

FOR MEXICO

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIRBAG" and "SEAT BELT" of this Service Manual.

WARNING:

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

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