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PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRF-TFNSIONFR"

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.

Always observe the following items for preventing accidental activation.

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

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

WARNING:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery or batteries, and wait at least 3 minutes before performing any service.

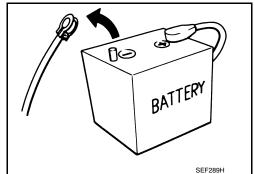
Precautions for Removing Battery Terminal

When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.
- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- · For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:

D4D engine : 20 minutes YS23DDT : 4 minutes HRA2DDT YS23DDTT : 12 minutes : 4 minutes ZD30DDTi K9K engine : 4 minutes : 60 seconds M9R engine : 4 minutes ZD30DDTT : 60 seconds

R9M engine : 4 minutes V9X engine : 4 minutes YD25DDTi : 2 minutes



NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

 After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal. NOTE:

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PRECAUTIONS

< PRECAUTION >

- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
- Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
- Driving for 30 minutes or more on a steep slope.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

• After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

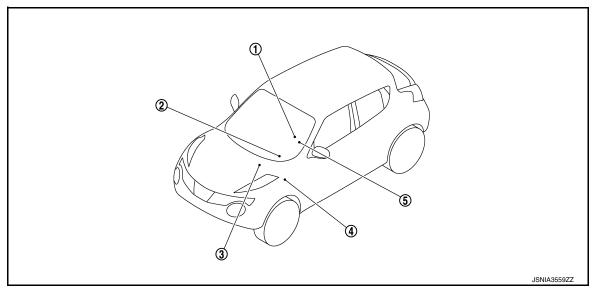
NOTE:

The removal of 12V battery may cause a DTC detection error.

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location



- 1. Parking brake switch
- 2. Combination meter
- ABS actuator and electric unit (control unit)

 Pofette BBC 0 || Company and Barton
 - Refer to <u>BRC-9</u>, "Component Parts <u>Location"</u>.

BCM
 Refer to BCS-5, "BODY CONTROL
 SYSTEM: Component Parts Location"

5. Seat belt buckle switch (driver side)

Component Description

Unit	Description
Combination meter	 Receives a buzzer output signal from the BCM with CAN communication line and sounds the buzzer. Judges whether the parking brake is released from the vehicle speed signal received from the ABS actuator and electric unit (control unit) with CAN communication line and the parking brake switch signal from the parking brake switch, and sounds the buzzer if necessary.
BCM	Based on the signals received from various units and switches, transmits the buzzer output signal to the combination meter via CAN communication.
ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal to combination meter via CAN communication.
Seat belt buckle switch (driver side)	Transmits a seat belt buckle switch signal (driver side) to the combination meter.
Combination switch (Lighting switch)	Transmits the combination switch signal to BCM.
Front door switch (driver side)	Transmits the driver side door switch signal to BCM.
Parking brake switch	Transmits the parking brake switch signal to the combination meter.

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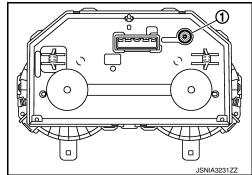
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COMPONENT PARTS

< SYSTEM DESCRIPTION >

Combination Meter

The buzzer (1) for the warning chime system is integrated in the combination meter.



SYSTEM

WARNING CHIME SYSTEM

WARNING CHIME SYSTEM: System Diagram

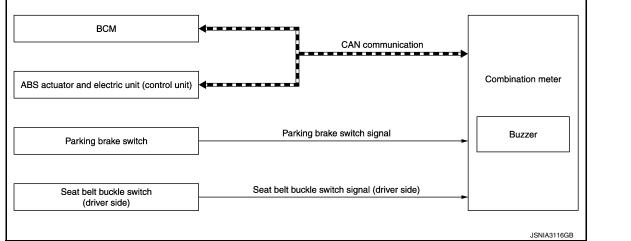
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WARNING CHIME SYSTEM: System Description

COMBINATION METER

The combination meter sounds the alarm buzzer installed in the combination meter when receiving the buzzer output signal transmitted from each unit.

BCM

BCM receives signals from various units and transmits a buzzer output signal to the combination meter via CAN communication if it judges that the warning buzzer should be activated.

WARNING CHIME FUNCTION LIST

Warning functions	Out line	Warning judgment unit	Refer to
Light reminder warning chime	The warning chime sounds when the ignition switch is in OFF or ACC position with the combination switch (lighting switch) in the 1st or 2nd position and the driver side door open.	ВСМ	WCS-9, "LIGHT RE- MINDER WARNING CHIME: Sys- tem Descrip- tion"
Seat belt warning chime	The warning chime sounds when the driver seat belt is unfastened with the ignition switch in ON position.	ВСМ	WCS-10. "SEAT BELT WARNING CHIME: Sys- tem Descrip- tion"
Parking brake release warning chime	The warning chime sounds when the ignition switch is in ON position with the parking brake in operation and the vehicle speed 7 km/h (4.3 MPH) or more.	Combination meter	WCS-12. "PARKING BRAKE RE- LEASE WARN- ING CHIME: System De- scription"

WARNING CHIME SYSTEM: Fail-Safe

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FAIL-SAFE

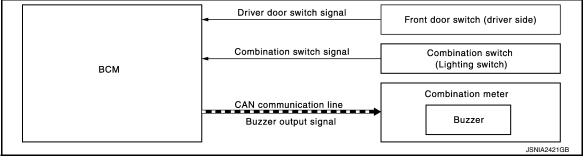
The combination meter activates the fail-safe control if CAN communication with each unit is malfunctioning.

	Function	Specifications	
Speedometer		Bootto and boots and the same states	
Tachometer		Reset to zero by suspending communication.	
Illumination control		When suspending communication, changes to nighttime mode	
Shift position indicator		When suspending communication, not indicate.	
	Instantaneous fuel consumption	When reception time of an abnormal signal is 2 seconds or	
	Average fuel consumption	less, the last received datum is used for calculation to indicate the result.	
Information display	Possible driving distance	When reception time of an abnormal signal is more than two	
	Torque distribution indicator	seconds, the last result calculated during normal condition is indicated.	
	Low tire pressure warning	The display turns OFF by suspending communication.	
Buzzer		The buzzer turns OFF by suspending communication.	
	ABS warning lamp		
	Malfunction indicator lamp		
	VDC warning lamp	The lamp turns ON by suspending communication.	
	EPS warning lamp	The lamp turns ON by suspending communication.	
	AWD warning lamp		
	Brake warning lamp		
	VDC OFF indicator lamp		
	High beam indicator lamp		
	Turn signal indicator lamp		
	Door warning lamp	_	
	Tail lamp indicator lamp		
Warning lamp/indicator lamp	Engine start operation indicator lamp		
	Shift P warning lamp	The least turns OFF by even and in a communication	
	Front fog lamp indicator lamp	The lamp turns OFF by suspending communication.	
	Oil pressure warning lamp		
	CRUISE indicator lamp		
	AWD mode indicator lamp (AWD)		
	AWD mode indicator lamp (AWD-V)		
	Key warning lamp		
	CVT indicator lamp		
	Low tire pressure warning lamp	After blinking for 1 minute, the lamp remains ON.	
	High coolant temperature indicator lamp	When reception time of an abnormal signal is more than 60 seconds, the lamp turns OFF.	

LIGHT REMINDER WARNING CHIME

LIGHT REMINDER WARNING CHIME : System Diagram

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LIGHT REMINDER WARNING CHIME: System Description

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WARNING CHIME OPERATION CONDITIONS

If all of the following conditions are fulfilled.

Operation conditions		
Ignition switch	OFF or ACC position	
Combination switch (Lighting switch)	1st or 2nd position	
Driver side door	Open [front door switch (driver side) ON]	

WARNING CHIME CANCEL CONDITIONS

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

Operation conditions		
Ignition switch	ON	
Combination switch (Lighting switch)	OFF or AUTO position	
Driver side door	Close [front door switch (driver side) OFF]	

SIGNAL PATH

1. BCM requires warning chime output to combination meter when it judges light reminder warning chime is necessary from signals below.

Signal name	Signal path
Ignition switch signal	_
Combination switch signal	Combination switch (Lighting switch) BCM
Driver door switch signal	Front door switch (driver side) BCM

2. Combination meter sounds integrated buzzer, following the warning chime output requirement (below signal) from BCM.

Signal name	Signal path
Buzzer output signal	BCM CAN Combination meter

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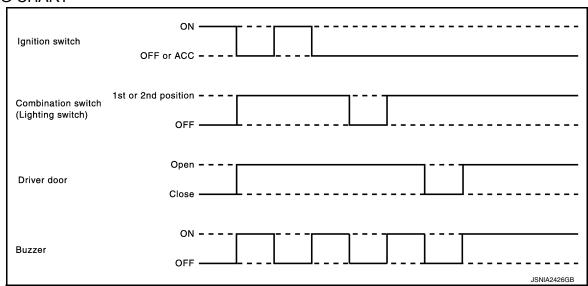
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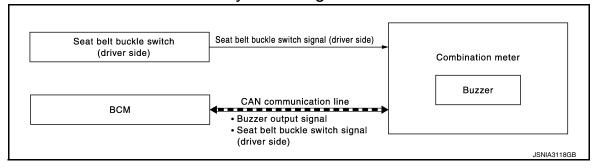
TIMING CHART



SEAT BELT WARNING CHIME

SEAT BELT WARNING CHIME: System Diagram

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SEAT BELT WARNING CHIME: System Description

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WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled.

Operation conditions		
Ignition switch	ON	
Driver seat belt	Unfastened [seat belt buckle switch (driver side) ON]	

WARNING CANCEL CONDITIONS

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

Operation conditions		
Ignition switch	OFF	
Seat belt (driver side)	Fastened (driver side seat belt buckle switch OFF)	
6 seconds after the start of warning sound		

SIGNAL PATH

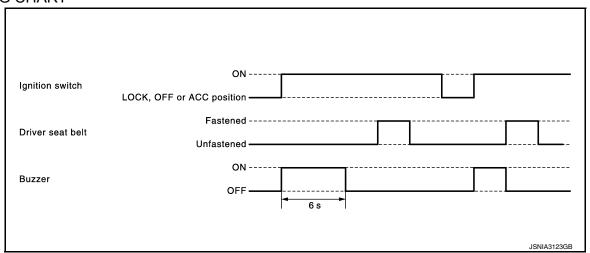
1. BCM requires warning chime output to combination meter when it judges seat belt warning chime is necessary from signals below.

Signal name	Signal path
Ignition switch signal	_
Seat belt buckle switch signal (driver side)	Seat belt buckle switch (driver side) Combination meter CAN BCM

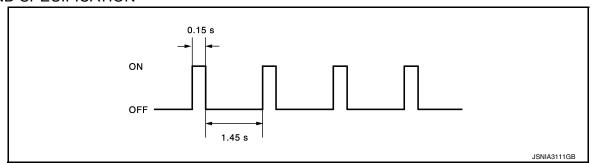
Combination meter sounds integrated buzzer, following the warning chime output requirement (below signal) from BCM.

Signal name	Signal path
Buzzer output signal	BCM CAN Combination meter

TIMING CHART

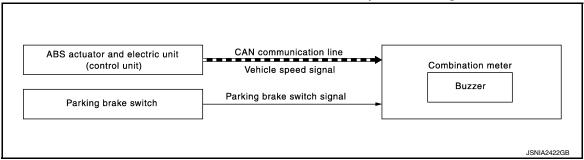


SOUND SPECIFICATION



PARKING BRAKE RELEASE WARNING CHIME

PARKING BRAKE RELEASE WARNING CHIME : System Diagram



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PARKING BRAKE RELEASE WARNING CHIME: System Description

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WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled.

	Operation conditions
Ignition switch	ON
Parking brake	During the operation (parking brake switch ON)
Vehicle speed	Approximately 7 km/h (4.3 MPH) or more

WARNING CANCEL CONDITIONS

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

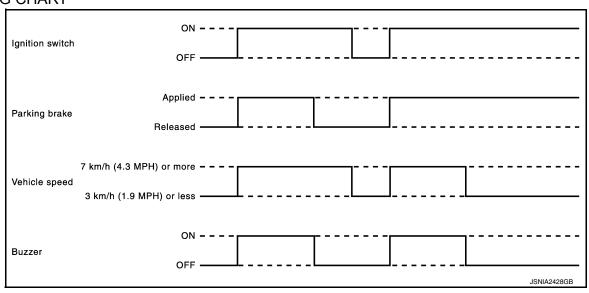
	Operation conditions
Ignition switch	OFF
Parking brake	Release condition (parking brake switch OFF)
Vehicle speed	Approximately 3 km/h (1.9 MPH) or less

SIGNAL PATH

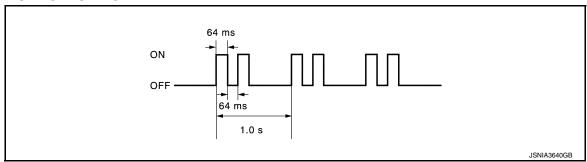
Combination meter sounds integrated buzzer when it judges that parking brake release warning chime is necessary from signals below.

Signal name	Signal path		
Ignition switch signal	_		
Parking brake switch signal	Parking brake switch Combination meter		
Vehicle speed signal	ABS actuator and electric unit (control unit) CAN Combination meter		

TIMING CHART



SOUND SPECIFICATION



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< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (COMBINATION METER)

CONSULT Function

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CONSULT APPLICATION ITEMS

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

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

SELF DIAG RESULT

Refer to WCS-28, "DTC Index".

DATA MONITOR

NOTE:

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

Display Item List

X: Applicable

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

< SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description	
BRAKE W/L [On/Off]		Status of brake warning lamp detected from brake warning lamp signal is received from ABS actuator and electric unit (control unit) via CAN communication. NOTE: Displays "Off" if the brake warning lamp is illuminated when the valve check starts, the parking brake switch is turned ON or the brake fluid level switch is turned ON.	
DOOR W/L [On/Off]		Status of door open warning lamp detected from door switch signal received from BCM via CAN communication.	
HI-BEAM IND [On/Off]		Status of high beam indicator lamp detected from high beam request signal is received from BCM via CAN communication.	
TURN IND [On/Off]		Status of turn indicator lamp detected from turn indicator signal is received from BCM via CAN communication.	
LIGHT IND [On/Off]		Status of tail lamp indicator lamp detected from position light request signal is received from BCM via CAN communication.	
FR FOG IND [On/Off]		Status of front fog light indicator lamp detected from front fog light request signal is received from BCM via CAN communication.	
OIL W/L [On/Off]		Status of oil pressure warning lamp detected from oil pressure warning lamp signal is received from ECM via CAN communication.	
MIL [On/Off]		Status of malfunction indicator lamp detected from malfunctioning indicator lamp signal is received from ECM via CAN communication.	
GLOW IND [Off]		This item is displayed, but cannot be monitored.	
C-ENG2 W/L [Off]		This item is displayed, but cannot be monitored.	
CRUISE IND [On/Off]		Status of CRUISE indicator lamp detected from ASCD status signal is received from ECM via CAN communication.	
SET IND [Off]		This item is displayed, but cannot be monitored.	
CVT IND [On/Off]		Status of CVT indicator lamp detected from CVT status signal is received from TCM via CAN communication.	
4WD W/L [On/Off]		Status of AWD warning lamp judged from AWD warning lamp signal received from AWD control module with CAN communication line.	
4WD LOCK IND [On/Off]		Status of AWD mode indicator lamp (AWD-V) judged from AWD mode indicator signal received from AWD control module with CAN communication line.	
FUEL W/L [On/Off]		Low fuel warning status detected by the identified fuel level.	
AIR PRES W/L [On/Off]		Status of low tire pressure warning lamp judged from low tire pressure warning lamp signal received from BCM from CAN communication line.	
KEY G/Y W/L [On/Off]		Status of KEY warning lamp (G/Y) detected from KEY warning lamp signal is received from BCM via CAN communication.	
KEY KNOB W/L [On/Off]		Status of shift P warning lamp detected from shift P warning lamp signal is received from BCM via CAN communication.	
EPS W/L [On/Off]		Status of EPS warning lamp detected from EPS warning lamp signal is received from EPS control unit via CAN communication.	
DPF W/L [Off]		This item is displayed, but cannot be monitored.	
LCD [B&P N, B&P I, SFT P, BATT, NO K` LK WN] ^{*1} [C&P N, C&P I, SFT P, BATT, NO K` LK WN] ^{*2}		Status of engine start operation indicator lamp, shift P warning lamp and KEY warning lamp, detected from engine start operation indicator lamp signal, shift P warning lamp signal and KEY warning lamp signal are received from BCM via CAN communication.	
SHIFT IND [P, R, N, D, M1, M2, M3, M4, M5, M6, M7, M8]		Status of shift position indicator judged from shift position signal received from TCM with CAN communication line.	

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< SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description		
O/D OFF SW [Off]		This item is displayed, but cannot be monitored.		
M RANGE SW [On/Off]		Status of manual mode switch.		
NM RANGE SW [On/Off]		Status of non-manual mode switch.		
AT SFT UP SW [On/Off]		Status of manual mode shift up switch.		
AT SFT DWN SW [On/Off]		Status of manual mode shift down switch.		
ST SFT UP SW [On/Off]		Status of paddle shifter 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 SW [Off]		This item is displayed, but cannot be monitored.		
BRAKE OIL SW [On/Off]		Status of brake fluid level switch.		
A/C AMP CONN [On/Off]		Status of A/C auto amp. connection recognition signal.		
PASS BUCKLE SW [Off]		This item is displayed, but cannot be monitored.		
DISTANCE [km]		Value of distance to empty calculated by combination meter.		
OUTSIDE TEMP [°C or °F]		Ambient temperature value converted from ambient sensor signal received from ambient sensor. NOTE: This may not match with the temperature value indicated on the information display. (Because the information display value is a corrected value from the ambient sensor input value.)		
FUEL LOW SIG [On/Off]		Status of fuel level low warning signal to output to AV control unit via CAN communication.		
BUZZER [On/Off]	Х	Buzzer status (in the combination meter) is detected from the buzzer output signal received from each unit via CAN communication and the warning output condition of the combination meter.		
ASCD SPD BLNK [On/Off]		Blinking status of ASCD or speed limiter set vehicle speed that is judged by the ASCD status signal received from ECM via CAN communication.		
ASCD STATUS [Off, ASCD, CRUISE, SL ON, SL SET]		Display status of ASCD and speed limiter status display judged by the ASCD status signal received from ECM via CAN communication.		
ASCD REQ SPD [km/h/Off]		ASCD or speed limiter set vehicle speed value that is judged by the ASCD status signal received from ECM via CAN communication.		
TPMS PRESS L [On/Off]		Status of low tire pressure warning judged from low tire pressure warning lamp signal received from BCM with CAN communication line.		

^{• *1:} CVT models

NOTE:

Some items are not available according to vehicle specification.

Warning History

^{• *2:} M/T models

< SYSTEM DESCRIPTION >

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

NOTE:

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

Display Item

Display item	Description
ABS W/L	Lighting history of ABS warning lamp.
VDC/TCS IND	Lighting history of VDC OFF indicator lamp.
SLIP IND	Lighting history of VDC warning lamp.
BRAKE W/L	Lighting history of brake warning lamp.
DOOR W/L	Lighting history of door open warning.
OIL W/L	Lighting history of oil pressure warning lamp.
C-ENG W/L	Lighting history of malfunction indicator lamp.
CRUISE IND	Lighting history of CRUISE indicator lamp.
CVT IND	Lighting history of CVT indicator lamp.
4WD W/L	Lighting history of AWD warning lamp.
FUEL W/L	Lighting history of low fuel level warning lamp.
AIR PRES W/L	Lighting history of low tire pressure warning lamp.
KEY G/Y W/L	Lighting history of KEY warning lamp (G/Y).
KEY KNOB W/L	Lighting history of Shift P warning lamp.
EPS W/L	Lighting history of EPS warning lamp.

NOTE:

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

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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

x: Applicable item

System	Sub system selection item	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 timer	INT LAMP	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
Air conditioning system	AIR CONDITONER		×	×*
Intelligent Key system Engine start system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
NVIS - NATS	IMMU	×	×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	
Theft warning alarm	THEFT ALM	×	×	×
RAP	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	AIR PRESSURE MONITOR	×	×	×

NOTE

FREEZE FRAME DATA (FFD)

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

^{*:} For models with automatic A/C, this diagnosis mode is not used.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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

NOTE:

*: Power position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position (A/T models and CVT models), and any of the following conditions are met.

- · Closing door
- · Opening door
- · Door is locked using door request switch
- · Door is locked using Intelligent Key

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

BUZZER

BUZZER: CONSULT Function (BCM - BUZZER)

CONSULT APPLICATION ITEMS

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

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DATA MONITOR

NOTE:

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

Display item [Unit]	Description
PUSH SW [On/Off]	Status of push-button ignition switch judged by BCM.
UNLK SEN-DR [On/Off]	Status of unlock sensor judged by BCM.
VEH SPEED 1 [km/h]	Value of vehicle speed signal received from combination meter with CAN communication line.
TAIL LAMP SW [On/Off]	Status of lighting switch judged by BCM using the combination switch readout function.
FR FOG SW [On/Off]	Status of front fog lamp switch judged by BCM using the combination switch readout function.
DOOR SW-DR [On/Off]	Status of driver side door switch judged by BCM.
CDL LOCK SW [On/Off]	Status of door lock unlock switch judged by BCM.

ACTIVE TEST

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

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

COMBINATION METER

Reference Value

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VALUES ON THE DIAGNOSIS TOOL

NOTE:

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

Monitor Item		Condition	Value/Status
SPEED METER [km/h]	Ignition switch ON	While driving	Input value of vehicle speed signal (CAN communication signal) NOTE: 655.35 is displayed when the malfunction signal is received
SPEED OUTPUT [km/h]	Ignition switch ON	While driving	Output value of vehicle speed signal (CAN communication signal) NOTE: 655.35 is displayed when the malfunction signal is received
ODO OUTPUT [km/h or mph]	Ignition switch ON	_	Output value of odometer signal (CAN communication signal)
TACHO METER [rpm]	Ignition switch ON	Engine running	Input value of engine speed signal (CAN communication signal) NOTE: 8191.875 is displayed when the malfunction signal is received
FUEL METER [L]	Ignition switch ON	_	Input value of fuel level sensor signal
W TEMP METER [°C]	Ignition switch ON	_	Input value of engine coolant temperature signal (CAN communication signal) NOTE: 215 is displayed when the malfunction signal is input
FUEL CAD W//	Ignition switch	Fuel filler cap warning display ON	On
FUEL CAP W/L ON		Fuel filler cap warning display OFF	Off
ADC MI	Ignition switch	ABS warning lamp ON	On
ABS W/L	ON	ABS warning lamp OFF	Off
VDC/TCS IND	Ignition switch	VDC OFF indicator lamp ON	On
VDC/TC3 IND	ON	VDC OFF indicator lamp OFF	Off
SLIP IND	Ignition switch	VDC warning lamp ON	On
SLIF IND	ON	VDC warning lamp OFF	Off
BRAKE W/L	Ignition switch	Brake warning lamp ON	On
DIVARL W/L	ON	Brake warning lamp OFF	Off
DOOR W/L	Ignition switch	Door open warning lamp ON	On
DOOK W/L	ON	Door open warning lamp OFF	Off
HI-BEAM IND	Ignition switch	High-beam indicator lamp ON	On
	ON	High-beam indicator lamp OFF	Off
TURN IND	Ignition switch	Turn signal indicator lamp ON	On
I STATE IND	ON	Turn signal indicator lamp OFF	Off

< ECU DIAGNOSIS INFORMATION >

Monitor Item		Condition	Value/Status
ED EOC IND	Ignition switch	Front fog lamp indicator lamp ON	On
FR FOG IND	ON	Front fog lamp indicator lamp OFF	Off
LIQUEIND	Ignition switch	Tail lamp indicator lamp ON	On
LIGHT IND	ON	Tail lamp indicator lamp OFF	Off
OIL W/L	Ignition switch	Oil pressure warning lamp ON	On
OIL W/L	ON	Oil pressure warning lamp OFF	Off
MIL	Ignition switch	Malfunction indicator lamp ON	On
IVIIL	ON	Malfunction indicator lamp OFF	Off
GLOW IND	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
C-ENG2 W/L	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
CRUISE IND	Ignition switch	CRUISE indicator lamp ON	On
CRUISE IND	ON	CRUISE indicator lamp OFF	Off
SET IND	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
CVT IND	Ignition switch	CVT indicator ON	On
CVT IND	ON	CVT indicator OFF	Off
4WD W/L	Ignition switch	AWD warning lamp ON	On
ON ON		AWD warning lamp OFF	Off
4WD LOCK IND Ignition swit		AWD mode indicator lamp (AWD-V) ON	On
TWD LOCK IND	ON	AWD mode indicator lamp (AWD-V) OFF	Off
FUEL W/L	Ignition switch	During low fuel warning indication	On
TOLL W/L	ON	Other than the above	Off
AIR PRES W/L	Ignition switch	Low tire pressure warning lamp ON	On
AIRT REO W/E	ON	Other than the above	Off
KEY G/Y W/L	Ignition switch	During Intelligent Key system malfunction indication	On
	ON	Other than the above	Off
KEY KNOB W/L	Ignition switch	SHIFT P warning lamp ON	On
	ON	SHIFT P warning lamp OFF	Off
EPS W/L	Ignition switch	EPS warning lamp ON	On
	ON	EPS warning lamp OFF	Off
DPF W/L	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off

< ECU DIAGNOSIS INFORMATION >

Monitor Item		Condition	Value/Status	Α.
	Ignition switch LOCK or ACC	Engine start operation indicator lamp ON (CVT models)	B&P N	A
	Ignition switch ON	Engine start operation indicator lamp ON (CVT models)	B&P I	В
	Ignition switch LOCK or ACC	Engine start operation indicator lamp ON (M/T models)	C&P N	_
LCD	Ignition switch ON	Engine start operation indicator lamp ON (M/T models)	C&P I	С
LOD	Ignition switch LOCK	During P position warning indication	SFT P	D
	Ignition switch LOCK	During Intelligent Key low battery warning indication	BATT	_
	Ignition switch ON	During take away warning indication	NO KY	Е
	Ignition switch ON	During ACC warning indication	LK WN	F
		Shift position indicator P display	Р	=
		Shift position indicator R display	R	_
		Shift position indicator N display	N	G
		Shift position indicator D display	D	=
		Shift position indicator M1 display	M1	Н
SHIFT IND	Ignition switch	Shift position indicator M2 display	M2	-
DUILI IND	ON	Shift position indicator M3 display	M3	-
		Shift position indicator M4 display	M4	-
		Shift position indicator M5 display	M5	=
		Shift position indicator M6 display	M6	- .J.
		Shift position indicator M7 display	M7	-
		Shift position indicator M8 display	M8	=
D/D OFF SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off	K
A DANCE CW	Ignition switch	Selector lever in manual mode position	On	L
I RANGE SW	ON	Other than the above	Off	=
IN DANIOE OW	Ignition switch	Selector lever in manual mode position	Off	-
IM RANGE SW	ŎN	Other than the above	On	- M
T OFT LID OW	Ignition switch	Selector lever in + position	On	_
T SFT UP SW	ON	Other than the above	Off	WC
T OFT DIAM OW	Ignition switch	Selector lever in – position	On	
AT SFT DWN SW	ŎN	Other than the above	Off	=
OT OFT LID OW	Ignition switch	Paddle shifter switch up operation	On	0
ST SFT UP SW	ŎN	Other than the above	Off	-
OT OUT DIAME OVAL	Ignition switch	Paddle shifter switch up operation	On	P
ST SFT DWN SW	ŎN	Other than the above	Off	- '
NKD OW	Ignition switch	Parking brake switch ON	On	_
PKB SW	ON	Parking brake switch OFF	Off	_
	Ignition switch	Driver seat belt not fastened	On	-
BUCKLE SW	ON	Driver seat belt fastened	Off	_

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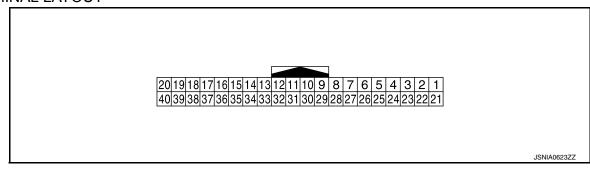
< ECU DIAGNOSIS INFORMATION >

Monitor Item		Condition	Value/Status	
BRAKE SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off	
BRAKE OIL SW	Ignition switch	Brake fluid level switch ON	On	
BRAKE OIL 3W	ON	Brake fluid level switch OFF	Off	
	Ignition switch	Other than the following	On	
A/C AMP CONN	ON	Receives A/C auto amp. connection recognition signal	Off	
PASS BUCKLE SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off	
DISTANCE [km]	Ignition switch ON	_	Distance to empty calculated by combination meter	
OUTSIDE TEMP [°C or °F]	Ignition switch ON	_	Input value of ambient sensor signal (CAN communication signal) NOTE: This may not match the indicated value on the information display.	
FUEL LOW SIG	Ignition switch During low fuel warning indication		On	
I OLL LOW SIG	ON	Other than above	Off	
BUZZER	Ignition switch	Buzzer ON	On	
DOZZEN	ON	Buzzer OFF	Off	
ASCD SPD BLNK	Ignition switch Set vehicle speed indicator blinking		On	
ACCO SI D BLIVIC	ON	Set vehicle speed indicator not blinking	Off	
	La attaca a a trafa	ASCD and speed limiter system OFF	Off	
ASCD STATUS	Ignition switch ON	ASCD system ON	ASCD	
		ASCD set vehicle speed	CRUISE	
ASCD REQ SPD [km/h or Off]	Ignition switch ON	While driving	Same value as ASCD or speed limiter set vehicle speed	
TPMS PRESS L	Ignition switch	Low tire pressure warning display ON	On	
	ON	Low tire pressure warning display OFF	Off	

NOTE:

Some items are not available according to vehicle specification.

TERMINAL LAYOUT



PHYSICAL VALUES

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color) Description		Description			Condition	Value								
+	_	Signal name	Input/ Output	Condition		(Approx.)								
1 (L)	_	CAN-H	_	_	_	_								
2 (P)	_	CAN-L	_	_	_	_								
				lawitia a	Consideration on maked	NOTE: The maximum voltage varies depending on the specification (destination unit).								
4 (Y)	Ground	Vehicle speed signal (8-pulse)	Output	Ignition switch ON	Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)]	0 20 ms JSNIA0012GB								
5		Paddle shifter up switch		Ignition	Paddle shifter up operated	0 V								
5 (G)	Ground	signal	Input	switch ON	Other than the above	12 V								
6	Consti	Fuel level		Ignition		2WD (V) 8 7 6 0/16 4/16 8/16 12/16 16/16 JSNIA3305ZZ								
(BR)	Ground	Fuel level sensor signal	Input	switch ON	_	AWD (V) 9 8 7 6 0/16 4/16 8/16 12/16 16/16 JSNIA9721ZZ								
7	Ground	Air bag signal	Input	Ignition switch	Air bag warning lamp ON	4 V								
(R)	Ground	THE DAY SIGNAL	input	ON	Air bag warning lamp OFF	0 V								
8 ^{*1} (P)	_	_	_	_	_	_	,							
9	Oracia	Crawad		Seat belt buckle switch sig-	Seat belt buckle switch sig-	Seat belt buckle switch sig	Seat belt buckle switch sig-	Seat belt buckle switch sig-	Seat belt buckle switch sig-	lmt	Engine	When driver seat belt is fastened.	12 V	
(W)	Ground	nal (driver side)	Input	idling	When driver seat belt is unfastened.	0 V								
10	Crowns	Darking broke switch size-	lnn::4	Ignition	Parking brake applied.	0 V								
(SB)	Ground	Parking brake switch signal	Input	switch ON	Parking brake released.	5 V								
11	_	Brake fluid level switch sig-		Ignition	Brake fluid level is normal	5 V								
(G)	Ground	nal	Input	switch ON	Brake fluid level is less than LOW level	0 V								

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description	Description		Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
					Lighting switch 1ST When meter illumination is maximum	(V) 15 10 5 0
13 (GR)	Ground	Illumination control signal	Output	Ignition switch ON	Lighting switch 1ST When meter illumination is step 6	(V) 15 10 5 0 2.5 ms JPNIA1686GB
					Lighting switch 1ST When meter illumination is minimum	12 V
14	Cround	Manual mode shift up sig-	Innut	Ignition switch	Selector lever UP operation	0 V
(R)	Ground	nal	Input	ON	Other than the above	12 V
15 (L)	Ground	ACC power supply	Input	Ignition switch ACC	_	Battery voltage
16 (W)	Ground	Manual mode shift down signal	Input	Ignition switch	Selector lever DOWN operation	0 V
				ON	Other than the above	12 V
17	Ground	Washer level switch signal	Input	Ignition switch	Low washer fluid warning lamp ON	0 V
(G)		, and the second	'	ON	Low washer fluid warning lamp OFF	12 V
18		0 "		Ignition	Security indicator lamp ON	0 V
(R)	Ground	Security signal	Input	switch ON	Security indicator lamp OFF	12 V
19 (GR)	Ground	Ambient sensor signal	Input	Ignition switch ON	Changes depending to ambient temperature.	(V) 3 2 1 0 -10 -10 0 10 0 0 0 0 0 0 0 0 0 0
20 (R)	Ground	Ambient sensor ground	_	Ignition switch ON	_	0 V
21 (B)	Ground	Ground	_	Ignition switch ON	_	0 V
22 (B)	Ground	Ground	_	Ignition switch ON	_	0 V

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
23 (B)	Ground	Ground		Ignition switch ON	_	0 V
24 (L)	Ground	Fuel level sensor ground		Ignition switch ON		0 V
25 (B)	Ground	VDC ground		Ignition switch ON		0 V
26 (V)	Ground	Paddle shifter down switch signal	Input	Ignition switch	Paddle shifter down operated	0 V
(v <i>)</i>		Signal		ON	Other than the above	12 V
27 (LG)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
28 (GR)	Ground	Ignition signal	Input	Ignition switch ON	_	Battery voltage
29	Carried	Passenger seat belt warn-	- Innuit	Ignition	When getting in the passenger seatWhen passenger seat belt is fastened	12 V
(V)	Ground	ing signal	Input	switch ON	When getting in the passenger seat When passenger seat belt is not fastened	0 V
31 (P)	Ground	A/C auto amp. connection recognition signal	Input	Ignition switch ON	_	5 V
36	Ground	Manual mode signal	Input	Ignition switch	Selector manual mode position	0 V
(Y)		1	·	ON	Other than the above	12 V
37 (G)	Ground	Non-manual mode signal	Input	Ignition switch	Selector manual mode position	12 V
(G)				ON	Other than the above	0 V
38				Ignition	Charge warning lamp ON	2 V
(P)	Ground	Alternator signal	Input	switch ON	Charge warning lamp OFF	12 V

^{*1:} This harness is not used.

Fail-Safe

FAIL-SAFE

The combination meter activates the fail-safe control if CAN communication with each unit is malfunctioning.

Function	Specifications	
Speedometer	Reset to zero by suspending communication.	
Tachometer		
Illumination control	When suspending communication, changes to nighttime mode.	
Shift position indicator	When suspending communication, not indicate.	

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< ECU DIAGNOSIS INFORMATION >

	Function	Specifications
	Instantaneous fuel consumption	When reception time of an abnormal signal is 2 seconds or
Information display	Average fuel consumption	less, the last received datum is used for calculation to indicate the result.
Information display	Possible driving distance	When reception time of an abnormal signal is more than two
	Torque distribution indicator	seconds, the last result calculated during normal condition is indicated.
	Low tire pressure warning	The display turns OFF by suspending communication.
Buzzer		The buzzer turns OFF by suspending communication.
	ABS warning lamp	
	Malfunction indicator lamp	
	VDC warning lamp	The least turns ON by avenualing assessmentiation
	EPS warning lamp	The lamp turns ON by suspending communication.
Warning lamp/indicator lamp	AWD warning lamp	
	Brake warning lamp	
	VDC OFF indicator lamp	
	High beam indicator lamp	
	Turn signal indicator lamp	
	Door warning lamp	
	Tail lamp indicator lamp	
	Engine start operation indicator lamp	
	Shift P warning lamp	The lamp turns OFF by suspending communication
	Front fog lamp indicator lamp	The lamp turns OFF by suspending communication.
	Oil pressure warning lamp	
	CRUISE indicator lamp	
	AWD mode indicator lamp (AWD)	
	AWD mode indicator lamp (AWD-V)	
	Key warning lamp	
	CVT indicator lamp	
	Low tire pressure warning lamp	After blinking for 1 minute, the lamp remains ON.
	High coolant temperature indicator lamp	When reception time of an abnormal signal is more than 60 seconds, the lamp turns OFF.

DTC Index

Display contents of CONSULT	Diagnostic item is detected when	Refer to
CAN COMM CIRCUIT [U1000]	When combination meter is not transmitting or receiving CAN communication signal for 2 seconds or more.	MWI-48. "Diagnosis Procedure"
CONTROL UNIT (CAN) [U1010]	When detecting error during the initial diagnosis of the CAN controller of combination meter.	MWI-49, "Diagnosis Procedure"
VEHICLE SPEED [B2205]	The abnormal vehicle speed signal is input from the ABS actuator and electric unit (control unit) for 2 seconds or more.	MWI-50, "Diagnosis Procedure"

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Diagnostic item is detected when	Refer to
ENGINE SPEED [B2267]	 If TCM continuously transmits abnormal engine speed signals for 2 seconds or more (CVT models). If ECM continuously transmits abnormal engine speed signals for 2 seconds or more (M/T models). 	MWI-51, "Diagnosis Procedure"
WATER TEMP [B2268]	If ECM continuously transmits abnormal engine coolant temperature signals for 60 seconds or more.	MWI-52, "Diagnosis Procedure"

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

List of ECU Reference

INFOID:0000000012201479

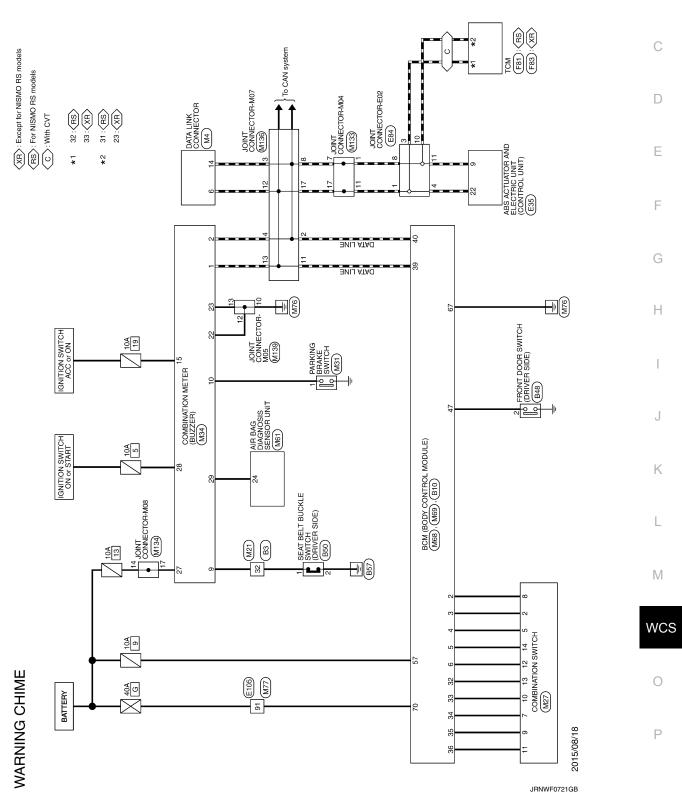
ECU	Reference
	BCS-39, "Reference Value"
BCM	BCS-60, "Fail-safe"
DOW	BCS-61, "DTC Inspection Priority Chart"
	BCS-62, "DTC Index"

WIRING DIAGRAM

WARNING CHIME SYSTEM

Wiring Diagram

Α



WARNING CHIME	CHIME							Ī	
Connector No.	B3	Terminal	<u> </u>	Signal Name [Specification]	Connector No.	E35	Connector No.	D. E84	
Connector Name	WIRE TO WIRE	No.	Wire	BACK DOOR SW	Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)	Connector Name	ame JOINT CONNECTOR-E02	
Connector Type	TH32MW-NH	44	. PI	REAR WIPER STOP POSITION	Connector Type	RH28FB-NU4-UH	Connector Type	rpe A12FL	
		45	œ	PASSENGER DOOR SW	4		4		
修		46	ΡĮ	REAR RH DOOR SW	厚		彦		[
¥		47	SB	DRIVER DOOR SW	Ž	2	¥.	V	<u> </u>
	1 2 3 4 5 6 7 8 9 10111213141518	48	æ	REAR LH DOOR SW	TIES.	2 9 9 11 12 13 14 15		1	
	26 27 28 29 30 31 3	49	_	LUGGAGE LAMP OUTPUT		2		12 11 10 9 8 7	6 5 4 3 2 1
		21	-	BACK DOOR REQ SW					
		54	ž a	BE DOOK OPEN OUTPUT					
Terminal Color Of	Of Signal Name [Specification]	55	9	RR DOOR UNLK OUTPUT	Terminal Color Of	Of Signal Name [Specification]	Terminal	Color Of Signal Name	Signal Name [Specification]
t					t	BAT (MTR)	-		
11 R		Connector No.	Г	848	2		2	4	
L			Γ		3	(ROD) (SOF)	3	1	
┞		Connector Name		FROM DOOR SWITCH (DRIVER SIDE)	4 8	GND (MTR)	4	1	
14 B		Connector Type	Г	A03FW	5 R	VDC_OFF_SW	2	1	
15 L		4			9	ASCD_CANCEL_SW	9	r	
16 BR		F		K	88	STOP_LAMP_SW	7	Ь	
17 LG		Š		<u> </u>	9 P	CAN-L	80	Ь	
Н		Ć.			11 BR	DP RR	6	Ь	
19 G				2	12 W	DS FR	10	Ь	
20 Y				ı	13 G	ACC	11	d d	
26 Y					14 R	SERIAL+	12	Ь	
27 SHIELD	· · · · · · · · · · · · · · · · · · ·				15 Y	DS RR			
28 W		Terminal	Color Of	[action Blood of Control of	16 V	IGN			
29 R		No.	Wire	official realite (openication)	17 W	REVE	Connector No.	o. E105	
30 B		2	SB		21 Y	DP FR	Connector Name	2011AL OT 3011AL	
32 R					72 1	CAN-H	N CONTINUE CO.		
					23 LG		Connector Type	rpe TH80MW-CS16-TM4	
		Connector No.		850	26 G	RR_L	٥	ų.	
Connector No.	810			their material registers a second at the action as and	27 BR	DS FL		88	
	CHICAGO COMPAGNICA			Section of the sectio	28 B	GND	ŧ	9 1	11 22 23 23 23 23 23 23 23 23 23 23 23 23
COIIIIECTOI MAIIIE	BCIM (BOD) COINING	Connector Type	Type	TH04FW-NH	Z9 W	SERIAL-	2	- 0 20 20 20 20 20 20 20 20 20 20 20 20 20	28 28 28 28 28 28 28 28 28 28 28 28 28 2
Connector Type	FEA09FB-FHA6-SA				30 BE	RR_LH_SENS_SIG		6	8 8 8
		IF OF THE PROPERTY OF THE PROP						6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
匮		H.S.		_[
	13 44 45 46 47 48 49			1 2 1			Terminal	Color Of Since Name	[Constitution]
	100						No.	Wire	signal varire [specification]
	101 101 105 105						1	7	
							4	٨	
		Terminal	٥	Signal Name [Snecification]			9	Ь	
		No.	Wire	financia del autoria del autor			10	В	
		1	œ (11	» «	
		7	20				12		Ī
							13	~	_

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WARNING CHIME SYSTEM

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WARNING CHIME				P00**	ě	٩	diff. 1000		Open
^ 87		Connector No.	or No.	MSI	77	9	GROUND	Connector No.	Mb8
30 16		Connect	Connector Name	PARKING BRAKE SWITCH	23	e -	GROUND FIJEL JEVEL SENSOR GROUIND	Connector Name	e BCM (BODY CONTROL MODULE)
╀		Connector Type	or Type	P01EB-A	22		VDCGROUND	Connector Type	TH40EB-NH
1					2 2	>	BADDI E SHIETER DOWN SMITCH SIGNAL		1
		Œ			27	. 9	RATTERY POWER SLIPPLY	Œ	
Connection No.		手		[i	2 5	CAUTION SIGNAL	李	
Т		S			02	5 >	PASSENCED SEAT DELI MADRING SIGNAL	Š	
Connector Name COMBINATION SWITCH	IN SWITCH			-	3 2	> 4	AND SERVICES SEAT BELL WARNING SIGNAL		2 3 4 5 6 7 8 9 10 12 13 14 15 17 18
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1					3 5	- (MANAGER MODE STORAGE		
£					à 8	0 0	ALTERNATOR SIGNAL		
AHT	7	Terminal	Color Of					Terminal Col	Color Of
S		No.		Signal Name [Specification]					Wire Signal Name [Specification]
<u> </u>	ֆ Ծ	п	88	,	Connector No.	or No.	M61	2	L COMBI SW INPUT 5
7	7 8 9 10 11 12 13 14				Connect	Connector Name	ALB BAG DIAGNOSIS SENSOBILINIT	3	
1						, terms		4	BR COMBI SW INPUT 3
		Connector No.	or No.	M34	Connector Type	or Type	NH28FY-EX	5	G COMBI SW INPUT 2
nal Color Of	Signal Name [Specification]	Connect	Connector Name	COMBINATION METER	4			9	W COMBI SW INPUT 1
No. Wire	Strativative [Specimentory]		SI INGILIO		B			7	L KEY CYL UNLOCK SW
1 LG	WASHER (RR)	Connector Type	or Type	TH40FW-NH	ŧ		9 9 7 6 7 9 6 4 9	8	R KEY CYL LOCK SW
2 GR	OUTPUT 4	٥			Ġ	_		6	R STOP LAMP SW 1
3 B	WASHER (FR)						10 50 54 00	10	
W 4	IGN						25 24 53	12 (GR DOOR LK & UNLK SW LOCK
\vdash	OUTPUT 3	2					18 51 53 60 59 25 1	13	
B 9	GND			2 4 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6				14	
^ ^	OUTPUT 3				Terminal	I Color Of	Company of the Compan	15	W REAR WINDOW DEF SW
1 8	OUTPUTS				No.	Wire	ognativante [operation]	17	Y OPTICAL SENS PWR SPLY
9 R	INPUT 2				1	BR	IGN	18	V RECEIVER GND
10 Y	INPUT 4	Terminal	I Color Of	[2	8	GND	21	P NATS ANT AMP.
11 P	INPUT1	No.	Wire	oignarivanie [opecinication]	m	٨	DR 1 (+)	23	R SECURITY IND LAMP CONT
12 W	OUTPUT 1	1	_	CAN-H	4	٨	INFLATOR_DR1-&DR2-	24	SB DONGLE LINK
13 LG	INPUTS	2	Ь	CAN-L	2	٨	DR 2 (+)	52	LG NATS ANT AMP.
14 G	OUTPUT 2	4	λ	VEHICLE SPEED SIGNAL (8-PULSE)	9	٨	INFLATOR_AS1+	56	BR THERMO AMP.
		2	9	PADDLE SHIFTER UP SWITCH SIGNAL	7	٨	INFLATOR_AS1-	27	Y A/CSW
		9	BR	FUEL LEVEL SENSOR SIGNAL	œ	٨	AS2 (+)	28	LG BLOWER FAN SW
		7	R	AIR BAG SIGNAL	6	٨	AS2 (-)	59	SB HAZARD SW
		∞	Ь	•	18	1.6	ECZS (+)	30	L BK DOOR OPENER SW
		6	M	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)	19	۸	ECZS (-)	31 (GR DR DOOR UNLK SENS
		10	SB	PARKING BRAKE SWITCH SIGNAL	22	SHIELD	SHIELD	32	LG COMBI SW OUTPUT 5
		11	9	BRAKE FLUID LEVEL SWITCH SIGNAL	23	В	AIR BAG W/L	33	Y COMBI SW OUTPUT 4
		13	GR	ILLUMINATION CONTROL SIGNAL	24	۸	SEAT BELT W/L	34	v COMBI SW OUTPUT 3
		14	æ	MANUAL MODE SHIFT UP SIGNAL	52	9	CUTOFF TELLTALE	35	R COMBI SW OUTPUT 2
		15	1	ACC POWER SUPPLY	51	В	FMVSS SENS RH+	36	P COMBI SW OUTPUT 1
		16	W	MANUAL MODE SHIFT DOWN SIGNAL	25	9	FMVSS SENS RH-	37	G DETENT SW
		17	9	WASHER LEVEL SWITCH SIGNAL	23	٨	FMVSS SENS LH+	38	SB RECEIVER COMM
		18	æ	SECURITY SIGNAL	24	BR	FMVSS SENS LH-	39	L CAN-H
		19	æ	AMBIENT SENSOR SIGNAL	29	_	CAN-H	40	P CAN-L
		20	œ	AMBIENT SENSOR GROUND	09	Ь	CAN-L		
		21	8	GROUND					

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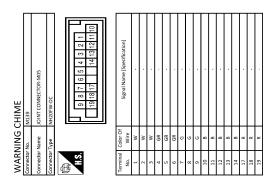
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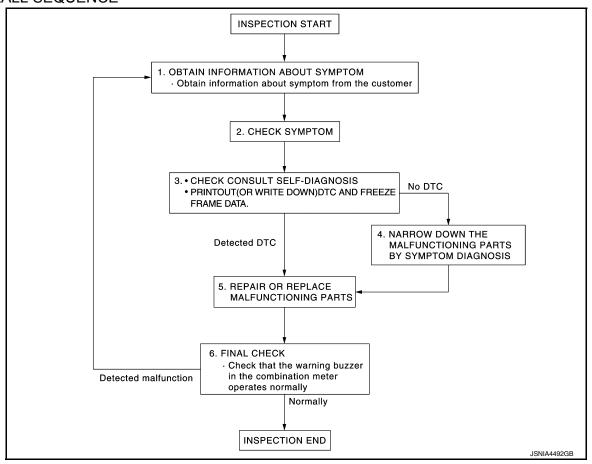
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow INFOID:0000000012201481

OVERALL SEQUENCE



DETAILED FLOW

OBTAIN INFORMATION ABOUT SYMPTOM

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

>> GO TO 2.

2.CHECK SYMPTOM

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

>> GO TO 3.

3.check consult self-diagnosis results

- Connect CONSULT and perform self-diagnosis. Refer to WCS-19, "BUZZER: CONSULT Function (BCM
- When DTC is detected, follow the instructions below:
- Record DTC and Freeze Frame Data.

Are self-diagnosis results normal?

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

WCS-37 Revision: November 2015 2016 JUKE **WCS**

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

4. NARROW DOWN MALFUNCTIONING PARTS BY SYMPTOM DIAGNOSIS

Perform symptom diagnosis and narrow down the malfunctioning parts.

>> GO TO 5.

5.REPAIR OR REPLACE MALFUNCTIONING PARTS

Repair or replace malfunctioning parts.

NOTE:

If DTC is displayed, erase DTC after repairing or replacing 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.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT COMBINATION METER

COMBINATION METER: Diagnosis Procedure

INFOID:0000000012926228

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1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	13
Ignition switch ON or START	5
Ignition switch ACC or ON	19

Is the inspection result normal?

YES >> GO TO 2.

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

2. CHECK POWER SUPPLY CIRCUIT

Check voltage between combination meter harness connector and ground.

	Terminals			
(+)	(-)	Ignition switch po-	Voltage
Combina	tion meter		sition	(Approx.)
Connector	Terminal			
	27	Ground	OFF	
M34	15		ACC	Battery voltage
	28		ON	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between combination meter and fuse.

3. CHECK GROUND CIRCUIT

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

WCS-39

Combina	tion meter		Continuity
Connector	Terminal		Continuity
	21	Ground	
M34	22	Giodila	Existed
IVIO	23		LXISted
	25		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

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2016 JUKE

METER BUZZER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

METER BUZZER CIRCUIT

Component Function Check

INFOID:0000000012201483

1. CHECK OPERATION OF METER BUZZER

- 1. Select "BUZZER" of "BCM" on CONSULT.
- Perform "LIGHT WARN ALM" of "Active Test".

Does meter buzzer beep?

YES >> INSPECTION END

NO >> GO TO 2.

2. CHECK COMBINATION METER INPUT SIGNAL

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

BUZZER

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

Is the inspection result normal?

YES >> Replace combination meter.

NO >> Replace BCM. Refer to BCS-94, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000012201484

1. CHECK POWER SUPPLY OF COMBINATION METER

Check power supply of combination meter. Refer to <u>MWI-53</u>, "COMBINATION METER: Diagnosis Procedure".

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair power supply circuit of combination meter.

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

Component Function Check

INFOID:0000000012201485

1. CHECK COMBINATION METER INPUT SIGNAL

.

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

BUCKLE SW

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

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>> INSPECTION END

Diagnosis Procedure

INFOID:0000000012201486

1. CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE) CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect combination meter connector and seat belt buckle switch (driver side) connector.
- Check continuity between combination meter harness connector and seat belt buckle switch (driver side) harness connector.

Combina	tion meter	Seat belt buckle s	switch (driver side)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M34	9	B50	1	Existed

Check harness continuity between combination meter harness connector and ground.

Combination meter			Continuity	
Connector	Connector Terminal		Continuity	
M34	9		Not existed	

Is the inspection result normal?

YES >> GO TO 2.

K

NO >> Repair harness or connector.

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

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

Seat belt buckle switch (driver side)			Continuity	
Connector	Terminal	Ground	Continuity	
B50	2		Existed	

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Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

Component Inspection

INFOID:0000000012201487

1. CHECK SEAT BELT BUCKLE SWITCH UNIT

- Turn ignition switch OFF.
- Disconnect the seat belt buckle switch (driver side) connector.
- Check continuity between terminals.

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Revision: November 2015 WCS-41 2016 JUKE

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Terminal		Condition	Continuity	
1 2	When driver seat belt is fastened	Not existed		
	When driver seat belt is unfastened	Existed		

Is the inspection result normal?

YES >> INSPECTION END

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

PARKING BRAKE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

PARKING BRAKE SWITCH SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000012201488

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1. CHECK COMBINATION METER INPUT SIGNAL

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

(+)	(-)) /- II
Combination meter			Condition		Voltage (Approx.)
Connector	Terminal	Ground			, , ,
M34 10	Oround	Ignition	When parking brake is applied	0 V	
	10		switch ON	When parking brake is released	12 V

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2.CHECK PARKING BRAKE SWITCH SIGNAL CIRCUIT

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

Terminals				
Combina	Combination meter Parking brake switch		Continuity	
Connector	Terminal	Connector	Terminal	
M34	10	M31	1	Existed

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

Combina	tion meter		Continuity
Connector	Terminal	Ground	
M34	10		Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

Component Inspection

INFOID:0000000012201489

1. CHECK PARKING BRAKE SWITCH

Check parking brake switch. Refer to BRC-132, "Component Inspection".

Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace parking brake switch. Refer to PB-6, "Exploded View".

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2016 JUKE

Revision: November 2015

WCS-43

THE PARKING BRAKE RELEASE WARNING CONTINUES SOUNDING, OR **DOES NOT SOUND**

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

THE PARKING BRAKE RELEASE WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

Description INFOID:0000000012201490

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

Diagnosis Procedure

INFOID:0000000012201491

1. CHECK PARKING BRAKE WARNING LAMP

- Start the engine.
- Check the operation of the brake warning lamp by operating the parking brake.

When parking brake is applied : ON When parking brake is released : OFF

Is the inspection result normal?

>> Replace combination meter. Refer to MWI-64, "Removal and Installation" YES

NO >> GO TO 2.

2.CHECK PARKING BRAKE SWITCH SIGNAL CIRCUIT

Perform check for the parking brake switch signal circuit. Refer to WCS-43, "Diagnosis Procedure". Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK PARKING BRAKE SWITCH

Perform a unit check for the parking brake switch. Refer to WCS-43, "Component Inspection".

Is the inspection result normal?

>> Replace combination meter. Refer to MWI-64, "Removal and Installation" YES

>> Replace parking brake switch. Refer to PB-6, "Exploded View". NO

THE LIGHT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >	
THE LIGHT REMINDER WARNING DOES NOT SOUND	А
Description	, ,
Light reminder warning chime does not sound even though headlamp is illuminated.	В
Diagnosis Procedure	
1. CHECK COMBINATION SWITCH (LIGHTING SWITCH) OPERATION	С
Check that the headlamps operate normally by operating the combination switch (lighting switch).	
Do they operate normally? YES >> GO TO 2.	D
NO >> Refer to EXL-79, "Symptom Table" (XENON TYPE) or EXL-190, "Symptom Table" (HALOGEN TYPE).	
2.CHECK DRIVER SIDE DOOR SWITCH SIGNAL CIRCUIT	Е
Perform the check for the driver side door switch signal circuit. Refer to <u>DLK-77</u> , " <u>Diagnosis Procedure</u> ".	
Is the inspection result normal? YES >> GO TO 3.	F
NO >> Repair harness or connector.	0
3. CHECK DRIVER SIDE DOOR SWITCH Perform a unit check for the driver side door switch. Refer to <u>DLK-78</u> , "Component Inspection".	G
Is the inspection result normal?	Н
YES >> Replace BCM. Refer to <u>BCS-94, "Removal and Installation"</u> . NO >> Replace driver side door switch. Refer to <u>DLK-169, "Removal and Installation"</u> .	
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THE SEAT BELT WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE SEAT BELT WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

Description INFOID:000000012201494

- · Seat belt warning does not sound.
- · Seat belt warning sounds continuously.

Diagnosis Procedure

INFOID:0000000012201495

1. CHECK SEAT BELT WARNING LAMP

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

Seat belt fastened : OFF Seat belt not fastened : ON

Is the inspection result normal?

YES >> GO TO 2. NO >> GO TO 4.

2.CHECK BCM OUTPUT SIGNAL

Check if the seat belt warning chime is activated by performing BCM active test. Refer to <u>WCS-19</u>, "<u>BUZZER</u>: <u>CONSULT Function (BCM - BUZZER)</u>".

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 3.

3.CHECK COMBINATION METER INPUT SIGNAL

Check if buzzer switches to proper condition (On/Off) on data monitor of combination meter. Refer to MWI-22, <a href="CONSULT Function".

Buzzer active condition : On
Buzzer non-active condition : Off

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-64, "Removal and Installation".

NO >> Replace BCM. Refer to <u>BCS-94</u>, "Removal and Installation".

f 4.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE) CIRCUIT

Perform the check for the seat belt buckle switch (driver side) circuit. Refer to <u>WCS-41</u>, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair harness or connector.

5. CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

Perform a unit check for the seat belt buckle switch (driver side). Refer to <u>WCS-41. "Component Inspection"</u>. Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-64, "Removal and Installation".

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