SECTION WARNING CHIME SYSTEM

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PRECAUTIONS

< PRECAUTION >

PRECAUTION PRECAUTIONS

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 SR and SB section 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 SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery and wait at least three minutes before performing any service.

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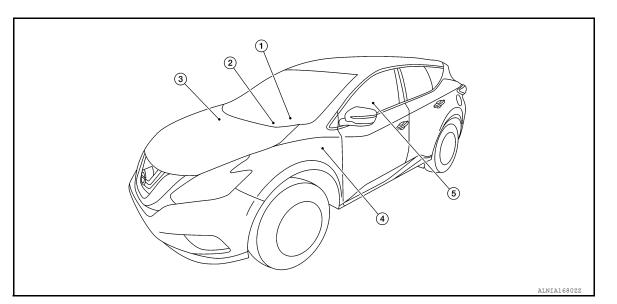
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SYSTEM DESCRIPTION COMPONENT PARTS

Component Parts Location

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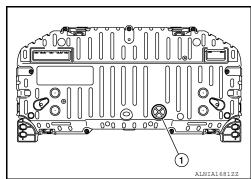


No.	Component	Function
1.	Combination meter	 Receives a buzzer output signal from the BCM via CAN communication and sounds the buzzer. Judges whether the parking brake is released using the vehicle speed signal and the parking brake switch signal, and sounds the buzzer if necessary.
2.	BCM	Based on the signals received from various units and switches, transmits the buzzer output signal to the combination meter via CAN communication. Refer to <u>BCS-4</u> , " <u>BODY CONTROL SYSTEM</u> : <u>Component Parts Location</u> " for detailed installation location.
3.	ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal to the combination meter via CAN communication. Refer to <u>BRC-10</u> , " <u>Component Parts Location</u> " for detailed installation location.
4.	Parking brake switch	Transmits the parking brake switch signal to the combination meter.
5.	Seat belt buckle switch LH	Transmits a seat belt buckle switch signal LH to the combination meter.

Combination Meter

The combination meter has a built-in buzzer (1) and sounds the following warnings, according to signals from each switch and unit:

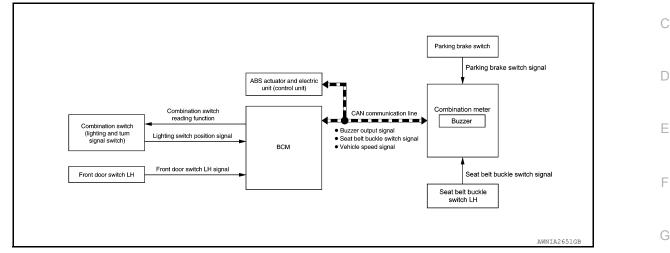
- Light reminder warning
- · Parking brake release warning chime
- Seat belt warning



SYSTEM WARNING CHIME SYSTEM

WARNING CHIME SYSTEM : System Description

SYSTEM DIAGRAM



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	Refer to	
Light reminder warning	WCS-6, "WARNING CHIME : Light Reminder Warning"	k
Parking brake release warning chime	WCS-7, "WARNING CHIME : Parking Brake Release Warning Chime"	
Seat belt warning	WCS-8. "WARNING CHIME : Seat belt Warning"	L

COMBINATION METER INPUT/OUTPUT SIGNAL (CAN COMMUNICATION SIGNAL)

Input signal

Signal name	Transmit unit	WCS
Vehicle speed signal	ABS actuator and electric unit (control unit)	
Buzzer output signal	BCM	
		\cap

Output signal

Signal name	Reception unit	Ρ
Vehicle speed signal	BCM	

BCM INPUT/OUTPUT SIGNAL (CAN COMMUNICATION SIGNAL)

Input signal

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SYSTEM

< SYSTEM DESCRIPTION >

Signal name	Transmit unit
Vehicle speed signal	Combination meter

Output signal

Signal name	Reception unit
Buzzer output signal	Combination meter

WARNING CHIME SYSTEM : Fail-Safe

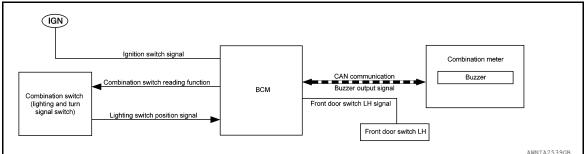
The combination meter activates the fail-safe control, if CAN communication with each unit is malfunctioning.

Function	Specifications
Buzzer	The buzzer turns OFF by suspending communication.

WARNING CHIME

WARNING CHIME : Light Reminder Warning

SYSTEM DIAGRAM



WARNING CHIME OPERATION CONDITIONS If all of the following conditions are fulfilled:

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

WARNING CHIME CANCEL CONDITIONS

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

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

SIGNAL PATH

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

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SYSTEM

SVSTEM DESCRIPTION >

Signal name	Signal source		
Ignition switch signal	—		
Combination switch signal	Combination switch (Lighting switch)	Combination switch (Lighting switch)	
Driver door switch signal	Front door switch LH	Front door switch LH BCM	
 Combination meter sounds integrate nal) from BCM. 	d buzzer, following the warning chime output re	equirement (below s	
Signal name	Signal source		
Buzzer output signal	BCM CAN Combination meter	BCM CAN Combination meter	
VARNING CHIME : Parking Bra	ake Release Warning Chime	INFOID:0000000115	
	ake Release Warning Chime	INFOID:0000000115	
-	CAN communication line Vehicle speed signal		
SYSTEM DIAGRAM	CAN communication line		
SYSTEM DIAGRAM	CAN communication line Vehicle speed signal Buzzer		
SYSTEM DIAGRAM	CAN communication line Vehicle speed signal Parking brake switch signal VS	leter	

Operation conditions		
Ignition switch	ON	K
Parking brake	During the operation (parking brake switch ON).	
Vehicle speed	Approximately 4.3 MPH (7 km/h) or more.	1

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).	WCS
Vehicle speed	Approximately 1.9 MPH (3 km/h) 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 source	
Ignition switch signal	_	
Parking brake switch signal	Parking brake switch	
Vehicle speed signal ABS actuator and electric unit (control unit) CAN Combination meter		

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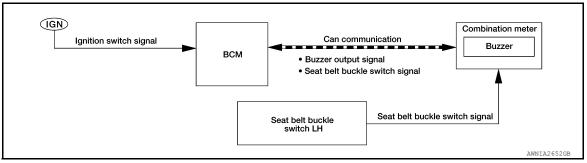
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SYSTEM

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WARNING CHIME : Seat belt Warning

SYSTEM DIAGRAM



WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled:

Operation conditions		
Ignition switch ON		
Seat belt buckle switch LH	Unfastened [seat belt buckle switch LH ON]	

WARNING CANCEL CONDITIONS

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

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

6 seconds after the start of warning sound.

SIGNAL PATH

BCM requires warning chime output to combination meter, when it judges seat belt warning chime is nec-1. essary from signals below.

Signal name	Signal source	
Ignition switch signal	_	
Seat belt buckle switch signal LH	Seat belt buckle switch LH	

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

Signal name	Signal source	
Buzzer output signal	BCM CAN Combination meter	

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (COMBINATION METER)

On Board Diagnosis Function

COMBINATION METER SELF-DIAGNOSIS MODE

The following meter functions can be checked during Combination Meter Self-Diagnosis Mode:

- Pointer sweep of speedometer, tachometer and gauges
- · Illumination of all LCD segments and color patterns for meter displays
- Illumination of all lamps/LEDs that are controlled by the combination meter (regardless of switch status)

STARTING COMBINATION METER SELF-DIAGNOSIS MODE **NOTE**:

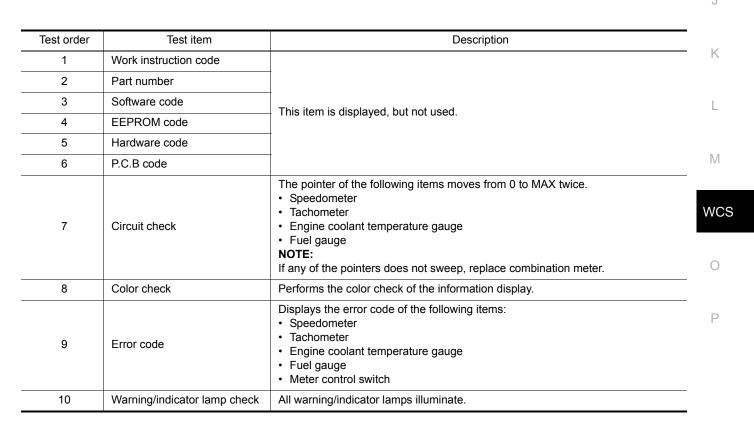
- Check combination meter power supply and ground circuits if self-diagnosis mode does not start. Refer to <u>MWI-59, "COMBINATION METER : Diagnosis Procedure"</u>. Replace combination meter if power supply and ground circuits are found to be normal and self-diagnosis mode does not start. Refer to <u>MWI-78, "Removal</u> <u>and Installation"</u>.
- Combination meter self-diagnosis mode will function with the ignition switch in ON. Combination meter selfdiagnosis mode will exit upon turning the ignition switch to OFF.

How to Initiate Self-Diagnosis Mode

- 1. Turn ignition switch OFF.
- 2. While pressing the trip reset switch (1), turn ignition switch ON.
- 3. Keep pressing the trip reset switch for 1 second or more.
- 4. Press the trip reset switch at least 3 times within 7 seconds after the ignition switch is turned ON.
- 5. "Work instruction code" is indicated in the top portion of information display and self-diagnosis is started.
- 6. The mode switches in the order shown below each time the trip reset switch is pressed.

NOTE:

If the trip reset switch is not operated for 20 seconds or more, the self-diagnosis mode is automatically canceled.



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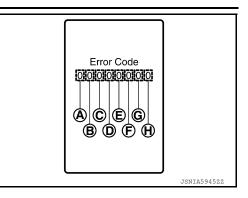
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< SYSTEM DESCRIPTION >



	Item	Code	Description	Action to take/Reference
	0	Normal	_	
(A) Speedometer	Speedometer	1	A vehicle speed signal cannot be received from ABS actuator and electric unit (control unit).	Perform "Self Diagnostic Result" of "ABS."
		2	A vehicle speed signal received from the ABS actuator and electric unit (control unit) is abnormal.	Refer to <u>MWI-29, "DTC Index"</u> .
		0	Normal	
₿	Tachometer	1	An engine speed signal cannot be received from ECM.	Perform "Self Diagnostic Result" of "ECM." Refer to <u>MWI-29, "DTC Index"</u> .
		0	Normal	
C	Fuel gauge	1	Fuel gauge circuit is shorted.	Refer to MWI-63, "Component Function
		2	Fuel gauge circuit is open.	<u>Check"</u> .
		0	Normal	
D	D Engine coolant temper- ature gauge	1	An engine coolant temperature signal can- not be received from ECM.	Perform "Self Diagnostic Result" of "ECM." Refer to <u>MWI-29, "DTC Index"</u> .
		0	Normal	
E Meter control switch	1	When judging that the illumination control switch signal circuit is shorted for 5 minutes or more.		
	Meter control switch	2	When judging that the trip reset switch sig- nal circuit is shorted for 5 minutes or more.	Refer to <u>MWI-61, "Diagnosis Proce-</u> <u>dure"</u> .
		3	When judging that both switch signal circuit are shorted for 5 minutes or more.	
Ð	—	0	Displays "0" constantly.	
G	_	0	Displays "0" constantly.	_
\mathbb{H}		0	Displays "0" constantly.	

How to Reset Error Code

Error codes stored in combination meter can be reset by following the instructions below:

- 1. Turn ignition switch OFF.
- 2. While pressing the trip reset switch, turn ignition switch ON.
- 3. Keep pressing the trip reset switch for 1 second or more.
- 4. Press the trip reset switch at least 3 times within 7 seconds after the ignition switch is turned ON.
- 5. Turn ignition switch OFF.
- 6. Perform self-diagnosis and check that the error codes are reset.

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CONSULT Function (METER/M&A)

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APPLICATION ITEMS

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

METER/M&A Diagnosis mode	Description
Self Diagnostic Result	Displays combination meter self-diagnosis results.
Data Monitor	Displays combination meter input/output data in real time.
Work support	Displays diagnosis procedure of each work item.
Warning History	Lighting history of the warning lamp and indicator lamp can be checked.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.

SELF DIAG RESULT Refer to <u>MWI-29, "DTC Index"</u>.

DATA MONITOR

Display Item List

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X:	Applicable	
····	Applicable	

Display item [Unit]	MAIN SIGNALS	Description	
SPEED METER	х	Displays the value of vehicle speed signal.	
SPEED OUTPUT [mph or km/h]	х	Vehicle speed signal value transmitted to other units via CAN communication.	
ODO OUTPUT [mph or km/h]		Odometer signal value transmitted to other units via CAN communication.	
TACHO METER [rpm]	х	Value of the engine speed signal received from ECM via CAN communication.	
FUEL METER [L]	х	Fuel level indicated on combination meter.	
W TEMP METER [°F] or [°C]	x	Displays the value of engine coolant temperature signal, which is input from ECM.	
ABS W/L [On/Off]		Displays [ON/OFF] condition of ABS warning indicator.	
VDC/TCS IND [On/Off]		isplays [ON/OFF] condition of VDC OFF indicator lamp.	
SLIP IND [On/Off]		isplays [ON/OFF] condition of SLIP indicator lamp.	
BRAKE W/L [On/Off]		Displays [ON/OFF] condition of brake warning indicator.	
DOOR W/L [On/Off]		Displays [ON/OFF] condition of door or liftgate warning message in the informa- tion display.	
HI-BEAM IND [On/Off]		Displays [ON/OFF] condition of high beam indicator.	
TURN IND [On/Off]		Displays [ON/OFF] condition of turn indicator.	
LIGHT IND [On/Off]		Displays [ON/OFF] condition of light indicator.	
FR FOG IND [On/Off]		Displays [ON/OFF] condition of front fog lamp indicator.	
OIL W/L [On/Off]		Displays [ON/OFF] condition of low oil pressure warning message in the informa- tion display.	
MIL [On/Off]		Displays [ON/OFF] condition of malfunction indicator.	

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< SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description
BA W/L [On/Off]		Displays [ON/OFF] condition of FEB warning lamp indicator.
ATC/T-AMT W/L [On/Off]		Displays [ON/OFF] condition of A/T check warning message in the information display.
CHAGE W/L [On/Off]		Displays [ON/OFF] condition of charge warning indicator.
4WD W/L [On/Off]		Displays [ON/OFF] condition of AWD warning message in the information display.
FUEL W/L [On/Off]		Displays [ON/OFF] condition of low-fuel warning message in the information display.
WASHER W/L [On/Off]		Displays [ON/OFF] condition of low washer fluid warning message in the informa- tion display.
AIR PRES W/L [On/Off]		Displays [ON/OFF] condition of tire pressure warning lamp.
KEY G/Y W/L [On/Off]		Displays [ON/OFF] condition of key green warning lamp.
EPS W/L [On/Off]		Displays [ON/OFF] condition of EPS warning indicator.
LCD		Displays the value of Intelligent Key system message indication.
ACC TARGET [On/Off]		Displays [ON/OFF] condition of vehicle ahead detection indicator in the informa- tion display.
ACC DISTANCE [Off, Short, Middle, Long]		Displays [Off, Short, Middle, Long] condition of set distance indicator in the infor- mation display.
SHIFT IND [P, R, N, D, L]		Displays shift selector position.
FUEL CAP W/L [On/Off]		Displays [ON/OFF] condition of loose fuel cap warning message in the information display.
PKB SW [On/Off]		Displays [ON/OFF] condition of parking brake switch.
BUCKLE SW [On/Off]		Displays [ON/OFF] condition of seat belt buckle switch LH.
BRAKE OIL SW [On/Off]		Displays [ON/OFF] condition of brake fluid level switch.
DISTANCE [Mi] or [km]		Displays distance to empty.
OUTSIDE TEMP [°F or °C]		Displays the ambient air temperature which is input from the ambient sensor.
FUEL LOW SIG [On/Off]		Displays [ON/OFF] condition of low-fuel warning signal.
STRG SW INPUT [SW 1-SW 10, NOT INPUT]		Displays [SW 1-SW 10, NOT INPUT] condition of steering switches.
BUZZER [On/Off]	x	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.
BATTERY CIRCUIT STATUS [Normal/Open]		Displays [Normal/Open] condition of battery power supply circuit.
TPMS PRESS L [On/Off]		Displays [ON/OFF] condition of tire pressure low message in the information display.
BSW IND [On/Off]		Displays [ON/OFF] condition of blind spot warning indicator.
BSW W/L [On/Off]		Displays [ON/OFF] condition of blind spot warning in the information display.

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WORK SUPPORT

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-	Work support item	Description	
_	Outside air temperature diagnosis		5
_	Fuel meter diagnosis (Analog pointer)	A possible malfunction can be narrowed down by following the displayed instructions.	В
_	Warning/Indicator lamp diagnosis		

WARNING HISTORY

Special menu

-	Display item	Description	D
_	W/L ON HISTORY	Lighting history of warning lamp and indicator lamp can be checked.	
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W/L ON HISTORY

- "W/L ON 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 F and waiting for 30 seconds.
- 1 39: The number of times the engine was restarted after the 0 condition.
- NO W/L ON HISTORY: No warning/indicator lamp history is stored.

NOTE:

- "W/L ON 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.

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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.

Direct Diagnostic Mode	Description	
ECU Identification	The BCM part number is displayed.	
Self Diagnostic Result	The BCM self diagnostic results are displayed.	
Data Monitor	The BCM input/output data is displayed in real time.	
Active Test	The BCM activates outputs to test components.	
Work support	The settings for BCM functions can be changed.	
Configuration	The vehicle specification can be read and saved.The vehicle specification can be written when replacing BCM.	
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.	

SYSTEM APPLICATION BCM can perform the following functions:

				Direct D	Diagnosti	c Mode		
System	Sub System	ECU Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr
Door lock	DOOR LOCK		×	×	×	×		
Rear window defogger	REAR DEFOGGER			×	×	×		
Warning chime	BUZZER			×	×			
Interior room lamp timer	INT LAMP			×	×	×		
Exterior lamp	HEADLAMP			×	×	×		
Wiper and washer	WIPER			×	×	×		
Turn signal and hazard warning lamps	FLASHER			×	×	×		
Air conditioner	AIR CONDITIONER			×				
Intelligent Key system	INTELLIGENT KEY		×	×	×	×		
Combination switch	COMB SW			×				
BCM	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			×	×			
TPMS	AIR PRESSURE MONITOR		×	×	×			

FREEZE FRAME DATA (FFD)

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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

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

NOTE:

*: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position, 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

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

BUZZER

BUZZER : CONSULT Function (BCM - BUZZER)

DATA MONITOR

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor.
VEH SPEED 1 [km/h]	Indicates vehicle speed signal received from ABS on CAN communication line.
TAIL LAMP SW [On/Off]	Indicates condition of combination switch.
FR FOG SW [On/Off]	Indicates condition of front fog lamp switch.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.

ACTIVE TEST

Test Item	Description
SEAT BELT WARN TEST	This test is able to check seat belt warning chime operation [On/Off].
LIGHT WARN ALM	This test is able to check light warning chime operation [On/Off].
REVERSE WARNING	This test is able to check reverse warning chime operation [On/Off].

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION BCM, COMBINATION METER

List of ECU Reference

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ECU	Reference	
	BCS-30, "Reference Value"	
DOM	BCS-50, "Fail Safe"	
BCM	BCS-51, "DTC Inspection Priority Chart"	
	BCS-52, "DTC Index"	
	MWI-23, "Reference Value"	
COMBINATION METER	MWI-28, "Fail-safe"	
	MWI-29, "DTC Index"	

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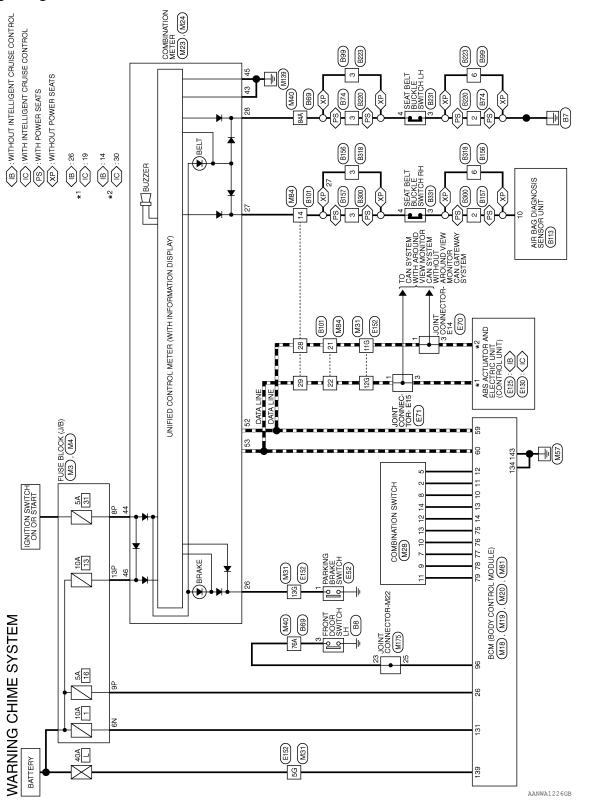
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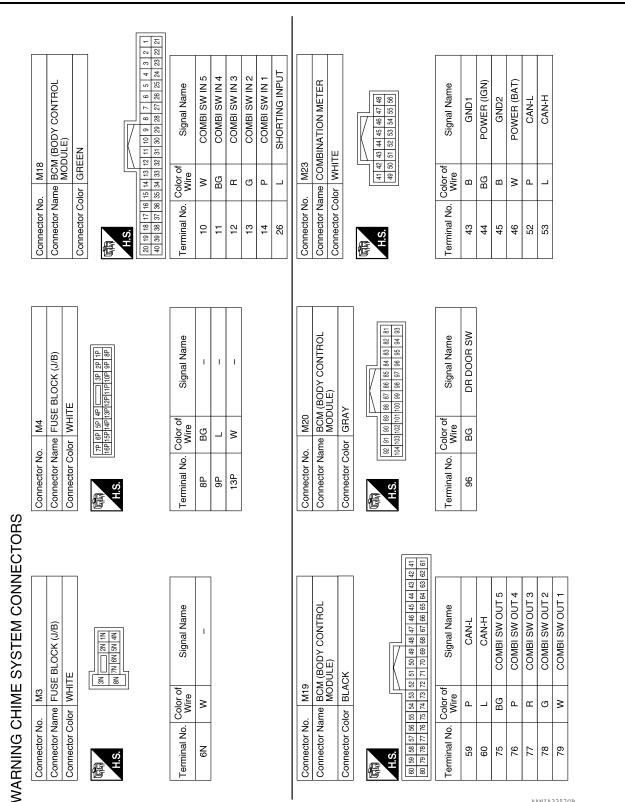
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WIRING DIAGRAM WARNING CHIME SYSTEM

Wiring Diagram





AANIA3357GB

WARNING CHIME SYSTEM

< WIRING DIAGRAM >

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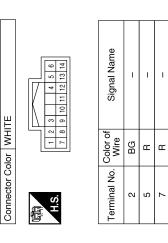
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Signal Name	I	1	I	1	I	I	I
Color of Wire	×	σ	٩	×	٩	BG	J
Terminal No. Color of Wire	æ	6	10	£	12	13	14



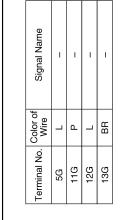
Connector Name COMBINATION SWITCH

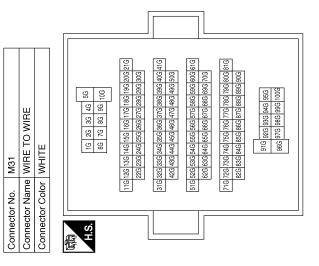
Connector No. M28

M24

Connector No.

Connector Name COMBI Connector Color WHITE H.S. H.S. 2122 23 24 25 26 27 8 9 10 2122 23 24 25 28 29 30 2122 23 24 25 28 29 20 2122 23 24 25 28 20 20 2122 20 2	BBR BBR	Connector Name COMBINATION METER Connector Color WHITE Main State Terminal No. Color of Wire Signal Name Z7 BR SEAT BELT SW (AS)
28	۲	SEAT BELT SW (DR)





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< WIRING DIAGRAM >

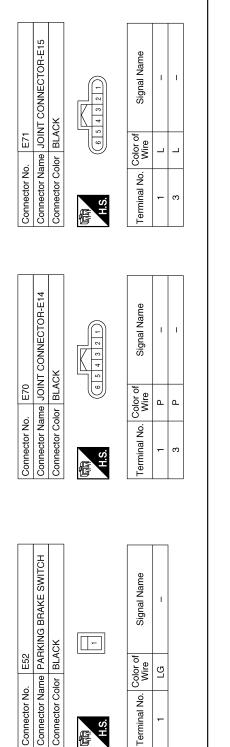
BODY CONTROL	MODULE)		881 881 881 881 881 881 881 881 881 881	Signal Name	BAT BCM FUSE	GND2 RAT POWER EN	GND1		Signal Name	I	1							
lo. M81 ame BCM	MODU	olor WHIT	1371361351 143 142	Color of Wire	M	- B	GR 1		. Wire	BG	BG							
Connector No.		Connector Color WHITE	H.S.	Terminal No.	131	134	143		Terminal No.	5	25							
													-1					
Signal Name	I	I							Connector Name JOINT CONNECTOR-M22		11 10 9 8 7 6 5 4 3 2 1 22 21 20 19 18 17 16 15 14 13 12 2							
Color of Wire	BG	~						M 175	JOINT CO	WHITE	10 9 8 7	32 31 30 29 28						
I No. Colo									tor Name	Connector Color WHITE								
Terminal No.	76A	84A						Connector No	Connect	Connect	际可 H.S.							
		[2 1 8 17							
/IRF			14 24 34 54 54 64 54 64 74 94 104	11A 12A 13A 14A 15A 16A 17A 18A 19A 20A 21A 22A 23A 24A 25A 26A 27A 26A 29A 30A 30A		22A 33A 34A 32A 37A 37A 37A 38A 34A 40A 41A 42A 43A 44A 45A 46A 47A 48A 49A 50A	51A 52A 53A 54A 55A 55A 57A 58A 59A 60A 61A 62A 63A 65A 65A 66A 67A 68A 60A 77A	Loose Loose Lives Vog	/IRE		16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 13 13 13 23 23 23 23 22 21 20 19 18 17	Signal Name	1	I	I	I	I	
Connector No. M40 Connector Name WIRF TO WIRF	GRAY		1A 2A 6A 7A	V 13A 14A 15A 1 23A 24A 25A 2		4 334 344 334 c	A 53A 54A 55A 5 63A 64A 65A 6	NOR NOR	Connector Name WIRE TO WIRE	WHITE	29 28 27 26							
Name V	Connector Color G			11A 12/		31A 32. 42/	51A 52/ 624		Name V	r Color V	16 15 14 32 31 30 :	No. Color of Wire	BR	₽.	_	₽.	_	
Connector No.	nnector		H.S.						nnector	Connector Color	品. H.S.	Terminal No.	14	21	53	28	29	

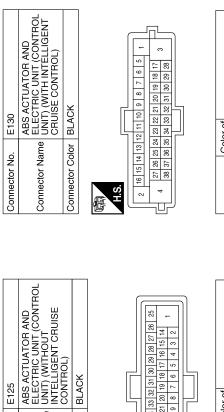
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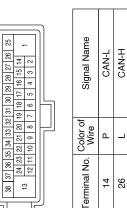
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< WIRING DIAGRAM >





	_	
Signal Name	CAN-H	CAN-L
Color of Wire	L	Р
Terminal No.	19	30



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E125

Connector No.

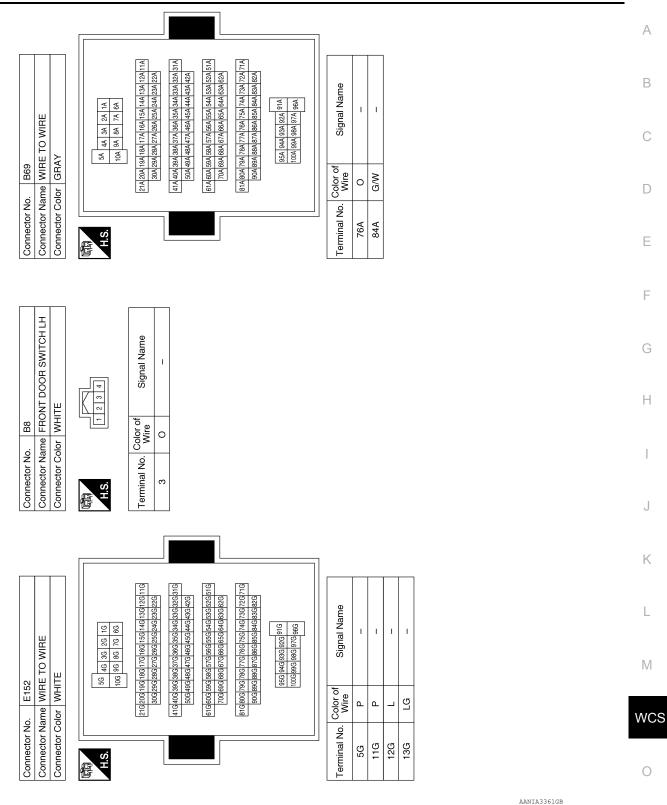
Connector Name

Connector Color

H.S.

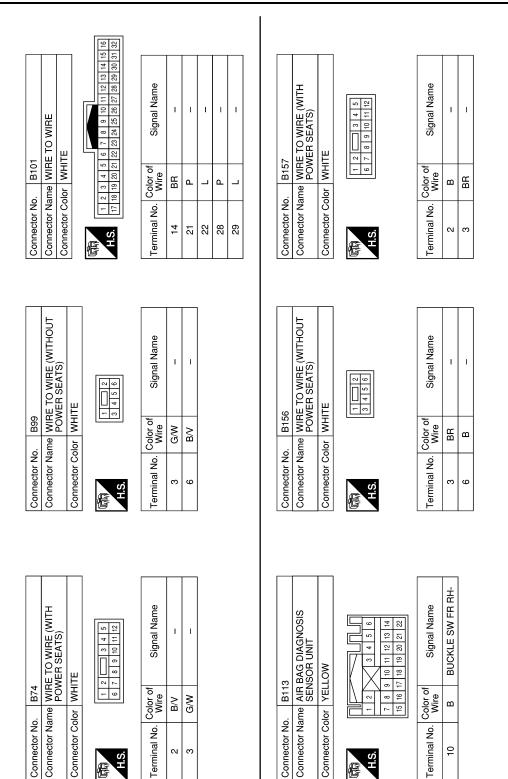
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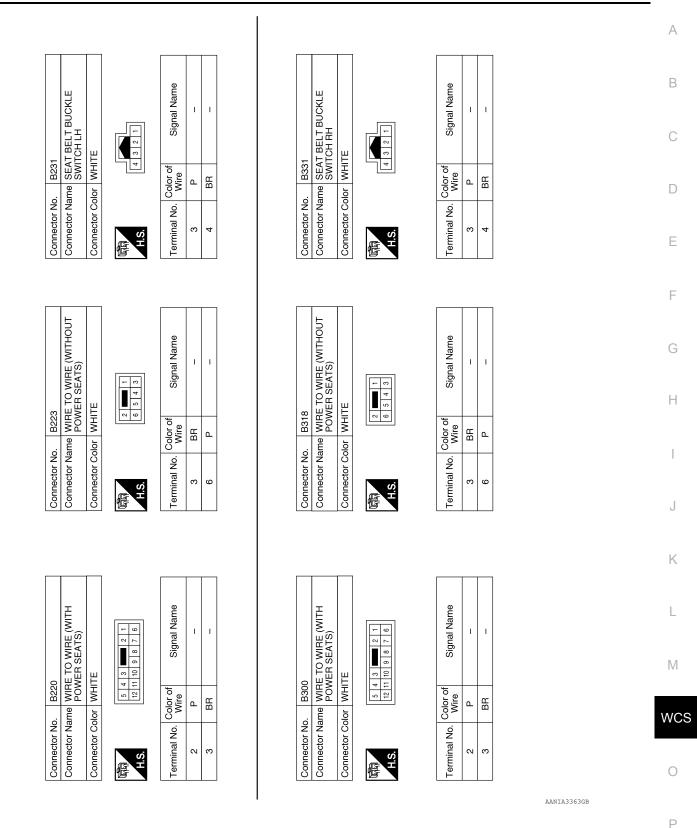
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H.S.

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< WIRING DIAGRAM >



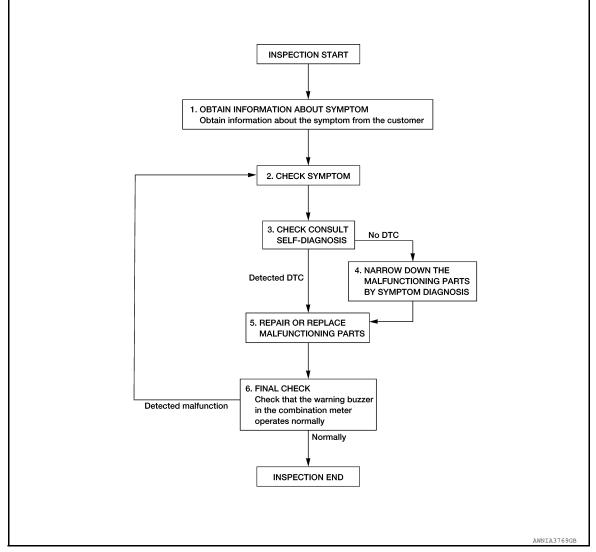
< BASIC INSPECTION >

BASIC INSPECTION DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000011215238

OVERALL SEQUENCE



DETAILED FLOW

1.OBTAIN INFORMATION ABOUT SYMPTOM

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

>> GO TO 2.

2.CHECK SYMPTOM

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

>> GO TO 3.

3. CHECK CONSULT SELF-DIAGNOSIS RESULTS

Perform self-diagnosis. Refer to MWI-29, "DTC Index".

Revision: October 2014

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >	_
Is the inspection result normal?	_
YES >> GO TO 4.	А
NO >> GO TO 5.	
4.NARROW DOWN MALFUNCTIONING PARTS BY SYMPTOM DIAGNOSIS	– B
Perform symptom diagnosis. Refer to WCS-34, "Symptom Table".	- D
>> GO TO 5.	С
5. REPAIR OR REPLACE MALFUNCTIONING PARTS	0
Repair or replace malfunctioning parts. NOTE:	D
If DTC is displayed, erase DTC after repairing or replacing malfunctioning parts.	
>> GO TO 6.	E
6.FINAL CHECK	
Check that the warning buzzer in the combination meter operates normally.	F
Is the inspection result normal?	
YES >> Inspection End.	
NO >> GO TO 2.	G
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< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS POWER SUPPLY AND GROUND CIRCUIT COMBINATION METER

COMBINATION METER : Diagnosis Procedure

INFOID:000000011559085

Regarding Wiring Diagram information, refer to MWI-31, "Wiring Diagram".

1.CHECK FUSES

Check that the following fuses are not blown:

Unit	Power source	Fuse No.
	Battery	13
Combination meter	Ignition switch ON or ACC	21
	Ignition switch ON or START	31

Is the fuse blown?

YES >> Replace the blown fuse after repairing the affected circuit.

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

- 1. Disconnect combination meter harness connector M24.
- 2. Check voltage between combination meter harness connector M24 and ground.

Combina	tion meter	Ground		Ignition switch position	
Connector	Terminal	Ground	OFF	ON or ACC	START
	14		0 V	Battery voltage	Battery voltage
M24	44	(—)	0 V	Battery voltage	Battery voltage
	46		Battery voltage	Battery voltage	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.

2. Check continuity between combination meter harness connector M23, M24 and ground.

Combin	ation meter	Ground	Continuity
Connector	Terminal	Glouina	Continuity
M24	10		
M23	43	(—)	Yes
10120	45		

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connector.

BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE) : Diagnosis Procedure

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Regarding Wiring Diagram information, refer to BCS-55, "Wiring Diagram".

1. CHECK FUSE AND FUSIBLE LINK

Check that the following fuse and fusible link are not blown.

Signal name	Fuse and fusible link No.	
Fusible link battery power	L (40A)	
BCM battery fuse	1 (10A)	
s the fuse or fusible link blown?		
YES >> Replace the blown fuse or fusible link after	repairing the affected circuit.	
NO >> GO TO 2.		
2. CHECK POWER SUPPLY CIRCUIT		
1. Disconnect BCM connector M81.		
2. Check voltage between BCM connector M81 termi	nals 131, 139 and ground.	

B	CM	Ground	Voltage	
Connector	Terminal	Ground	(Approx.)	G
 M81	131		Potton voltogo	0
IVIO I	139		Battery voltage	
Is the inspection result norr	nal?	·		Н

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M81 terminals 134, 143 and ground.

B	CM	Ground	Continuity	J
Connector	Terminal	Ground	Continuity	
M81	134		Yes	K
WO I	143	_	100	

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

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< DTC/CIRCUIT DIAGNOSIS >

METER BUZZER CIRCUIT

Component Function Check

1. CHECK OPERATION OF METER BUZZER

1. Select "BUZZER" of "BCM".

2. Select "LIGHT WARN ALM" in "Active Test" mode.

Is the inspection result normal?

YES >> Inspection End.

NO >> Refer to WCS-30. "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011517382

INFOID:000000011517381

1. CHECK POWER SUPPLY OF COMBINATION METER

Check power supply of combination meter. Refer to <u>WCS-28. "COMBINATION METER : Diagnosis Proce-dure"</u>.

Is the inspection result normal?

YES >> Replace combination meter. Refer to <u>MWI-78, "Removal and Installation"</u>.

NO >> Repair power supply circuit of combination meter.

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUI	T DIAGNOSIS	/				
SEAT BEL	T BUCKLE	SWITCH	SIGNAL CIRC	UIT		
Component	Function C	heck				INFOID:000000011517384
1. снеск со	MBINATION ME		SIGNAL			
2. Select "BU			M&A". y according to the foll	lowing conditions:		
Mon	litor item		Condition		Sta	tus
		Whe	en seat belt LH is fastened	1	O	FF
BUC	KLE SW	Wher	n seat belt LH is unfastene	ed	0	N
	pection End. fer to <u>WCS-31, '</u> Procedure	<u>'Diagnosis Pro</u>	ocedure".			INFOID:000000011536023
	MBINATION ME	TER INPUT S	SIGNAL			
1. Turn ignitio	n switch ON.	nbination met	er harness connector	⁻ M24 terminal 28 a	and grou	und.
1. Turn ignitio	n switch ON.				and grou	und. Voltage
1. Turn ignitio	n switch ON. age between cor		C	ondition	and grou	Voltage (Approx.)
 Turn ignitio Check volta Connector M24 	n switch ON. age between cor Combination meter Term 28	inals Ground	- C When driver s		and grou	Voltage
1. Turn ignitio 2. Check volta Connector M24 M25 >> Re $NO >> GC2. CHECK SEA1. Turn ignitio 2. Disconnect B231.3. Check con$	n switch ON. age between con Combination meter 28 n result normal? place combinatio TO 2. AT BELT BUCKL n switch OFF.	inals Ground On meter. Refe E SWITCH LF eter harness c combination r	C When driver s When driver se When driver se er to <u>MWI-78, "Remov</u> H CIRCUIT connector M24 and se meter harness conne	ondition seat belt is fastened eat belt is unfastened val and Installation eat belt buckle swit	<u>"</u> .	Voltage (Approx.) Battery voltage 0 V
1. Turn ignitio 2. Check volta Connector M24 Is the inspection YES $>>$ Re NO $>>$ GC 2. CHECK SEA 1. Turn ignitio 2. Disconnect B231. 3. Check con switch LH h	n switch ON. age between cor Combination meter 28 <u>n result normal?</u> place combinatio TO 2. AT BELT BUCKL n switch OFF. combination me tinuity between	inals Ground On meter. Refe E SWITCH LF eter harness c combination r	C When driver s When driver se When driver se er to <u>MWI-78, "Remov</u> H CIRCUIT connector M24 and se meter harness conne	ondition seat belt is fastened eat belt is unfastened val and Installation eat belt buckle swit ector M24 terminal	<u>"</u> .	Voltage (Approx.) Battery voltage 0 V
 Turn ignitio Check volta Connector M24 s the inspection YES >> Re NO >> GC CHECK SEA Turn ignitio Disconnect B231. Check con switch LH h 	n switch ON. age between cor Combination meter Term 28 n result normal? place combinatio TO 2. AT BELT BUCKL in switch OFF. combination meter	inals Ground On meter. Refe E SWITCH LF eter harness c combination r	C When driver s When driver se When driver se To <u>MWI-78, "Remover</u> CIRCUIT connector M24 and see meter harness conner nal 4.	ondition seat belt is fastened eat belt is unfastened val and Installation eat belt buckle swit ector M24 terminal	<u>"</u> .	Voltage (Approx.) Battery voltage 0 V
 Turn ignitio Check volta Connector M24 <u>s the inspection</u> YES >> Re NO >> GC CHECK SEA Turn ignitio Disconnect B231. Check con switch LH h 	n switch ON. age between cor Combination meter Term 28 n result normal? place combinatio TO 2. AT BELT BUCKL in switch OFF. combination meter	inals Ground on meter. Refe E SWITCH LH eter harness c combination r or B231 termin	When driver so When dri	ondition seat belt is fastened eat belt is unfastened val and Installation eat belt buckle swit ector M24 terminal	<u>"</u> .	Voltage (Approx.) Battery voltage 0 V
 Turn ignitio Check volta Connector M24 s the inspection YES >> Re NO >> GC CHECK SEA Turn ignitio Disconnect B231. Check con switch LH h Connector Connector 	n switch ON. age between cor Combination meter 28 n result normal? place combinatio 0 TO 2. AT BELT BUCKL in switch OFF. combination meter harness connect	inals Ground On meter. Refe E SWITCH LH eter harness c combination r or B231 termin erminal 28	C When driver se When driver se When driver se To MWI-78, "Remove H CIRCUIT Connector M24 and se meter harness conner nal 4. Seat belt buck Connector	ondition seat belt is fastened eat belt is unfastened val and Installation eat belt buckle swit ector M24 terminal kle switch LH Terminal 4		Voltage (Approx.) Battery voltage 0 V arness connector I seat belt buckle Continuity Yes
 Turn ignitio Check volta Connector M24 s the inspection YES >> Re NO >> GC CHECK SEA Turn ignitio Disconnect B231. Check con switch LH h Connector Connector 	n switch ON. age between cor Combination meter 28 n result normal? place combinatio 0 TO 2. AT BELT BUCKL in switch OFF. combination meter harness connect	inals Ground On meter. Refe E SWITCH LH eter harness c combination r or B231 termin erminal 28 combination m	C When driver s When driver se Whe	ondition seat belt is fastened eat belt is unfastened val and Installation eat belt buckle swit ector M24 terminal kle switch LH Terminal 4	 	Voltage (Approx.) Battery voltage 0 V arness connector I seat belt buckle Continuity Yes round.
1. Turn ignitio 2. Check volta Connector M24 Is the inspection YES >> Re NO >> GC 2.CHECK SEA 1. Turn ignitio 2. Disconnect B231. 3. Check con switch LH h CONNECTOR M24	n switch ON. age between con Combination meter 28 n result normal? place combinatio TO 2. AT BELT BUCKL n switch OFF. combination meter combination meter Te tinuity between of Combination reter	inals Ground On meter. Refe E SWITCH LH eter harness c combination r or B231 termin erminal 28 combination m	C When driver se When driver se When driver se To MWI-78, "Remove H CIRCUIT Connector M24 and se meter harness conner nal 4. Seat belt buck Connector B231 neter harness connector	ondition seat belt is fastened eat belt is unfastened val and Installation eat belt buckle swit ector M24 terminal kle switch LH Terminal 4	 	Voltage (Approx.) Battery voltage 0 V arness connector I seat belt buckle Continuity Yes

NO >> Repair or replace harness or connector.

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

$\overline{\mathbf{3.}}$ CHECK SEAT BELT BUCKLE SWITCH LH GROUND CIRCUIT

Check harness continuity between seat belt buckle switch LH harness connector B231 terminal 3 and ground.

Seat belt buckle switch LH			Continuity	
Connector	Terminal	Ground	Continuity	
B231	3		Yes	

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connector.

Component Inspection

INFOID:000000011517386

1. CHECK SEAT BELT BUCKLE SWITCH LH

- 1. Turn ignition switch OFF.
- 2. Disconnect the seat belt buckle switch LH connector.
- 3. Check continuity between the seat belt buckle switch LH terminals 3 and 4.

Condition	Terminal	Continuity
When seat belt buckle LH is fastened	3– 4	No
When seat belt buckle LH is unfastened		Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace the seat belt buckle switch LH. Refer to <u>SR-32, "Removal and Installation"</u>.

PARKING BRAKE SWITCH SIGNAL CIRCUIT

<pre>< dtc/circuit diagno PARKING BRAKE</pre>					
		JNAL			
Component Function	Check				INFOID:000000011534320
.COMBINATION METER	R INPUT SIGNAL				
CONSULT Select "Data Monitor" r Select "PKB SW". Check that the function			ng to the fo	llowing conditions:	
Monitor item		Cond	dition		Status
PKB SW	Wh	en parking b	orake is applie	d	ON
	Whe	en parking b	king brake is released		OFF
the inspection result norm (ES >> Inspection End NO >> Refer to WCS- iagnosis Procedure	l. 33, "Diagnosis Pr	ocedure".			INFOID:000000011535382
Check continuity betw switch harness connect	n meter harness o een combination otor E52 terminal 1	connector meter ha	arness conr	nector M24 termin	harness connector E52. al 26 and parking brake
Combination m			•	rake switch	Continuity
Connector M24	Terminal 26		nector 52	Terminal 1	Yes
Check continuity betwe			-	-	
Check continuity betwe					o una grouna.
Combina	tion meter		_		Continuity
Connector	Terminal		-	Ground	
M24	26				No
the inspection result norm YES >> Inspection End NO >> Repair or replation omponent Inspection .CHECK PARKING BRA heck continuity between	i. ice harness or cor in KE SWITCH		al 1 and sw	itch case ground.	INFOID:000000011534322
-				-	
Component Terminal			Condition Parking brake applied		Continuity
Parking brake switch	1	1		ke applied ke released	Yes
the inspection result nor	mal?	1			
YES >> Inspection result non YES >> Inspection Enc NO >> Replace parkir	l.	efer to <u>PE</u>	3-7, "Explod	ed View".	

SYMPTOM DIAGNOSIS WARNING CHIME SYSTEM SYMPTOMS

Symptom Table

INFOID:000000011535383

CAUTION:

Perform the self-diagnosis with CONSULT before the symptom diagnosis. Perform the trouble diagnosis if any DTC is detected.

Symptom	Possible cause	Inspection item
The light reminder warning does not sound.	 Harness between BCM and front door switch LH. Front door switch LH. BCM Combination meter 	Refer to <u>WCS-</u> <u>35</u> .
The parking brake release warning continues sounding or does not sound.	 Harness between combination meter and parking brake switch. Parking brake switch BCM Combination meter 	Refer to <u>WCS-</u> <u>37</u> .
The seat belt warning continues sounding or does not sound.	 Harness between combination meter and seat belt buckle switch LH. Seat belt buckle switch LH. BCM Combination meter 	Refer to <u>WCS-</u> <u>36</u> .
Warning chime does not sound at all.	Combination meter	Refer to <u>WCS-</u> <u>30</u> .

THE LIGHT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS > THE LIGHT REMINDER WARNING DOES NOT SOUND
THE EIGHT REMINDER WARMING DOES NOT SOUND
Description
Light reminder warning does not sound even though headlamp is illuminated.
Diagnosis Procedure
1. CHECK COMBINATION SWITCH (LIGHTING SWITCH) OPERATION
Check that the headlamps operate normally by operating the combination switch (lighting switch).
Do they operate normally?
YES >> GO TO 2. NO >> Refer to <u>WCS-26, "Work Flow"</u> .
2. CHECK FRONT DOOR SWITCH LH SIGNAL CIRCUIT
Check the front door switch LH signal circuit. Refer to DLK-179, "Diagnosis Procedure".
Is the inspection result normal?
YES >> GO TO 3.
NO >> Repair or replace harness or connector.
3.CHECK FRONT DOOR SWITCH LH
Check the front door switch LH. Refer to <u>DLK-180, "Component Inspection"</u> .
Is the inspection result normal?
 YES >> Replace BCM. Refer to <u>BCS-82, "Removal and Installation"</u>. NO >> Replace front door switch LH. Refer to <u>DLK-303, "Removal and Installation"</u>.
NO >> Replace from door switch En. Relef to <u>DER-303, 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:000000011517390

INFOID:000000011534325

- Seat belt warning does not sound even though driver seat belt is not fastened.
- Seat belt warning sounds even though driver seat belt is fastened.

Diagnosis Procedure

1.CHECK WARNING CHIME OPERATION

CONSULT

- 1. Select "BUZZER" of "BCM".
- 2. Select "SEAT BELT WARN TEST" in "Active Test" mode.
- 3. Touch "ON/OFF" to check that the function operates normally.

Component	CONSULT	Condition
Buzzer	SEAT BELT WARN TEST	ON
Buzzei	SEAT BELT WARN TEST	OFF

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace combination meter. Refer to <u>MWI-78, "Removal and Installation"</u>.

2.CHECK COMBINATION METER INPUT SIGNAL

Check the combination meter input signal. Refer to WCS-31, "Component Function Check".

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-82. "Removal and Installation"</u>.

NO >> GO TO 3.

 $\mathbf{3}$.check seat belt buckle switch LH circuit

Check the seat belt buckle switch LH circuit. Refer to WCS-31, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness or connector.

4.CHECK SEAT BELT BUCKLE SWITCH LH

Check the seat belt buckle switch LH. Refer to WCS-32, "Component Inspection".

Is the inspection result normal?

YES >> Replace the combination meter. Refer to <u>MWI-78</u>, "<u>Removal and Installation</u>".

NO >> Replace the seat belt buckle switch LH. Refer to <u>SR-32</u>, "Removal and Installation".

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

< SYMPTOM DIAGNOSIS >

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

Description

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

Diagnosis Procedure

1. CHECK PARKING BRAKE WARNING LAMP

1. Start the engine.

2. Check the operation of the brake warning lamp by operating the parking brake.

Condition	Warning lamp status	
Parking brake applied	ON	-
Parking brake released	OFF	
Is the inspection result normal?		G
YES >> Replace the combination meter. Ref NO >> GO TO 2.	er to MWI-78, "Removal and Installation".	
2. CHECK PARKING BRAKE SWITCH SIGNAL		F
Check the parking brake switch signal circuit. Re	fer to WCS-33, "Diagnosis Procedure".	
Is the inspection result normal?		
YES >> GO TO 3.		1
NO >> Repair or replace harness or connec	ctor.	
3. CHECK PARKING BRAKE SWITCH UNIT		J
Check the parking brake switch. Refer to WCS-3	3, "Component Inspection".	
Is the inspection result normal?		
YES >> Replace the combination meter. Ref NO >> Replace the parking brake switch. R	er to <u>MWI-78, "Removal and Installation"</u> . efer to <u>PB-7, "Exploded View"</u> .	k
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