

# SECTION **WCS**

## WARNING CHIME SYSTEM

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# PRECAUTIONS

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## PRECAUTION

### PRECAUTIONS

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

INFOID:000000010289376

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 3 minutes before performing any service.

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# COMPONENT PARTS

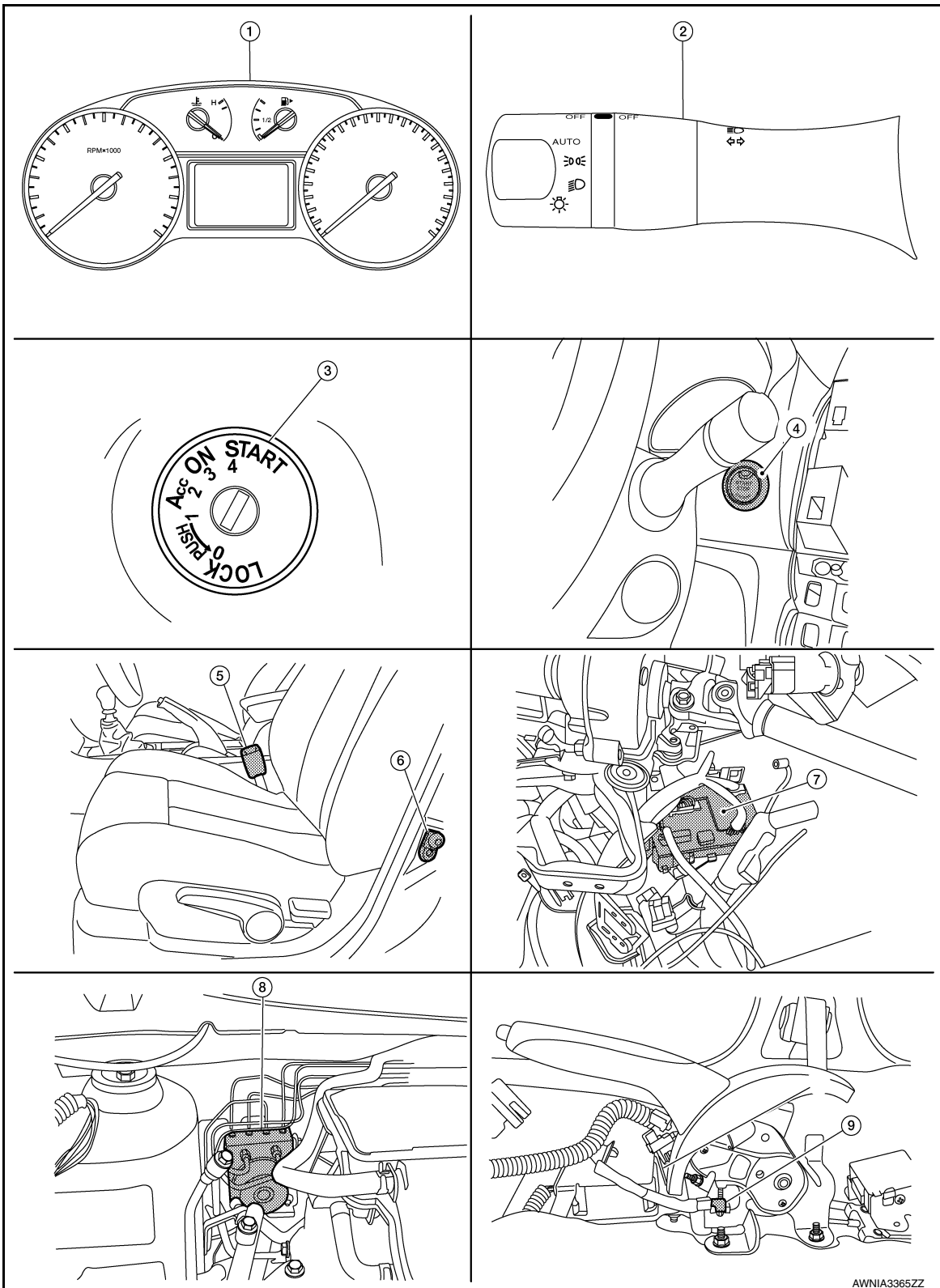
< SYSTEM DESCRIPTION >

## SYSTEM DESCRIPTION

### COMPONENT PARTS

#### Component Parts Location

INFOID:000000009759221



AWNIA3365ZZ

# COMPONENT PARTS

## < SYSTEM DESCRIPTION >

- |  |   |  |   |
|--|---|--|---|
| 1. Combination meter   | 2. Combination switch (lighting and turn signal switch) | 3. Key switch (without intelligent key system)             | A |
| 4. Push-button ignition switch (with intelligent key system) | 5. Seat belt buckle switch LH                           | 6. Front door switch LH                                    | B |
| 7. BCM (view with instrument panel removed)                  | 8. ABS actuator and electric unit (control unit)        | 9. Parking brake switch (view with center console removed) | B |

## Component Description

INFOID:000000009759222

Unit	Description	D
Combination meter	<ul style="list-style-type: none"> <li>Judges whether the parking brake is released using the vehicle speed signal and the parking brake switch signal, and sounds the buzzer if necessary.</li> <li>Receives the seat belt buckle switch signal from the seat belt buckle switch and transmits it to BCM with CAN communication line.</li> <li>Receives a buzzer output signal from BCM with CAN communication line.</li> </ul>	E
Lighting switch	Transmits lighting switch status signal to the BCM.	F
BCM	Transmits signals provided by various units to the combination meter with CAN communication line.	F
Front door switch LH	Transmits door switch signal to BCM.	G
Key switch	Transmits key switch signal to BCM.	G
Push-button ignition switch	Provides ignition switch status to the BCM	H
Seat belt buckle switch LH	Transmits seat belt buckle switch LH signal to the combination meter.	H
Parking brake switch	Transmits parking brake switch signal to the combination meter.	H
ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal to combination meter with CAN communication line.	I

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# SYSTEM

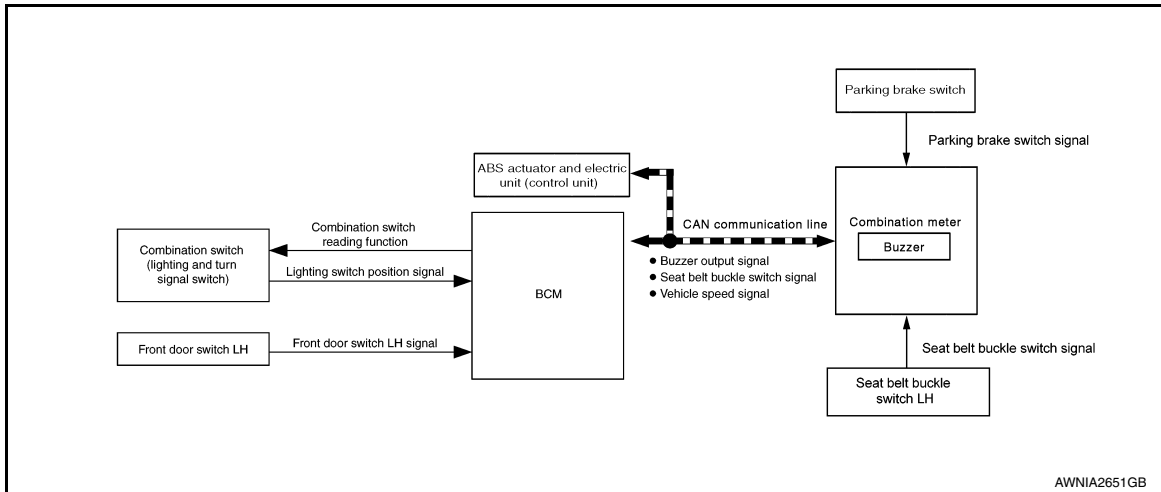
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## SYSTEM

### WARNING CHIME SYSTEM

#### WARNING CHIME SYSTEM : System Diagram

INFOID:000000009759223



#### WARNING CHIME SYSTEM : System Description

INFOID:000000009759224

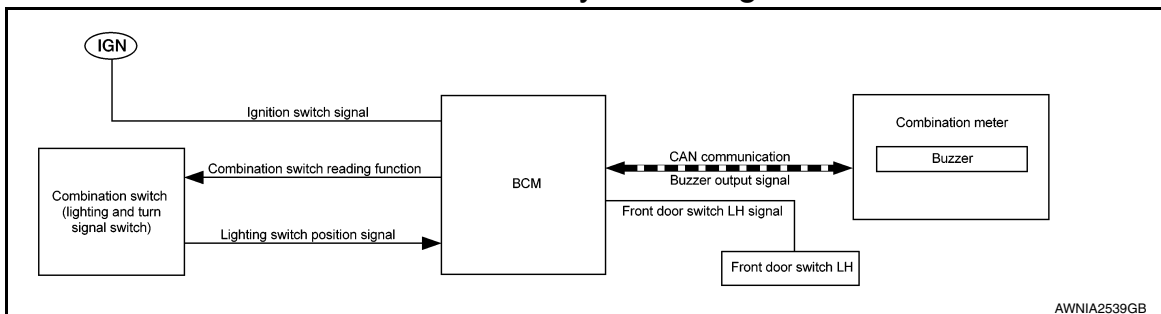
##### DESCRIPTION

- The buzzer for warning chime system is installed in the combination meter.
- The buzzer sounds when the combination meter receives a buzzer output signal from the BCM.
- The BCM receives signals from various units and transmits a buzzer output signal to the combination meter with CAN communication line if it judges that the warning buzzer should be activated.

### LIGHT REMINDER WARNING CHIME

#### LIGHT REMINDER WARNING CHIME : System Diagram

INFOID:000000009759225



#### LIGHT REMINDER WARNING CHIME : System Description

INFOID:000000009759226

##### DESCRIPTION

With ignition switch in OFF or ACC position, driver door open, and lighting switch in parking lamp or headlamp position, the light warning chime will sound.

- BCM detects ignition switch in OFF or ACC position, front door switch LH ON, and lighting switch in parking lamp or headlamp position, and then transmits buzzer output signal (light reminder warning chime) to combination meter with CAN communication line.
- When combination meter receives buzzer output signal (light reminder warning chime), it sounds the buzzer.

##### WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled

- Lighting switch is in parking lamp or headlamp position
- Ignition switch is in OFF or ACC
- Front door switch LH is ON

# SYSTEM

## < SYSTEM DESCRIPTION >

### WARNING CANCEL CONDITIONS

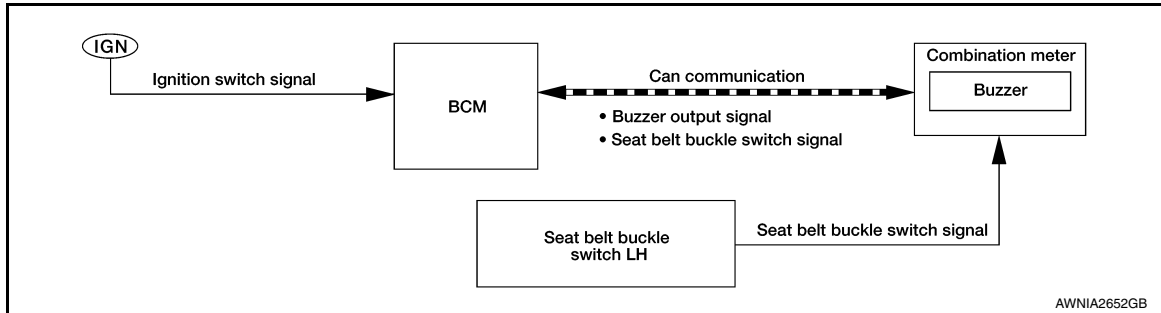
Warning is canceled if any of the following conditions is fulfilled.

- Lighting switch OFF
- Ignition switch ON
- Front door switch LH is OFF

### SEAT BELT WARNING CHIME

#### SEAT BELT WARNING CHIME : System Diagram

INFOID:000000009759227



#### SEAT BELT WARNING CHIME : System Description

INFOID:000000009759228

##### DESCRIPTION

With ignition switch turned ON and driver seat belt unfastened, seat belt warning chime will sound for approximately 6 seconds.

- BCM receives seat belt buckle switch signal from combination meter with CAN communication line.
- BCM detects ignition switch turned ON and seat belt buckle switch LH ON, and then transmits buzzer output signal (seat belt warning chime) to combination meter with CAN communication line.
- When combination meter receives buzzer output signal (seat belt warning chime), it sounds the buzzer.

##### WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled

- Ignition switch OFF → ON
- Seat belt buckle switch LH is ON (driver seat belt not fastened)

##### WARNING CANCEL CONDITIONS

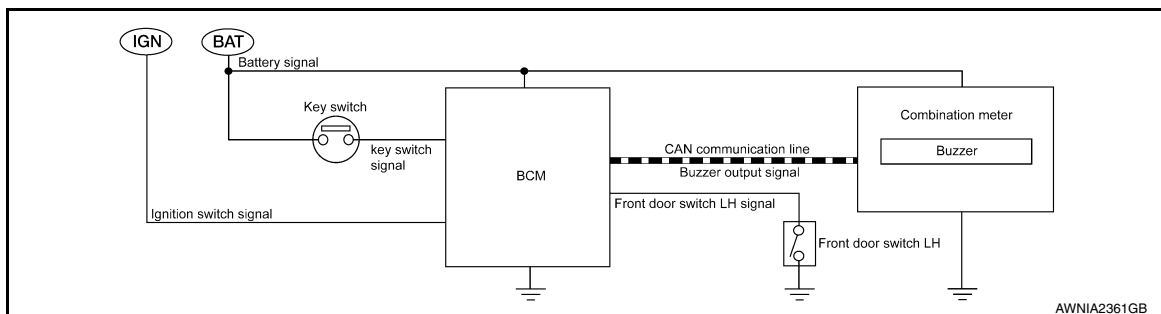
Cancels the warning if any of the following conditions is fulfilled.

- Ignition switch OFF
- Seat belt buckle switch LH is OFF (driver seat belt fastened)

### KEY WARNING CHIME (WITHOUT INTELLIGENT KEY)

#### KEY WARNING CHIME (WITHOUT INTELLIGENT KEY) : System Diagram

INFOID:000000009759229



#### KEY WARNING CHIME (WITHOUT INTELLIGENT KEY) : System Description

INFOID:000000009759230

With the key inserted into the key switch, and the ignition switch in the OFF or ACC position, when driver's door is opened, the warning chime will sound.

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# SYSTEM

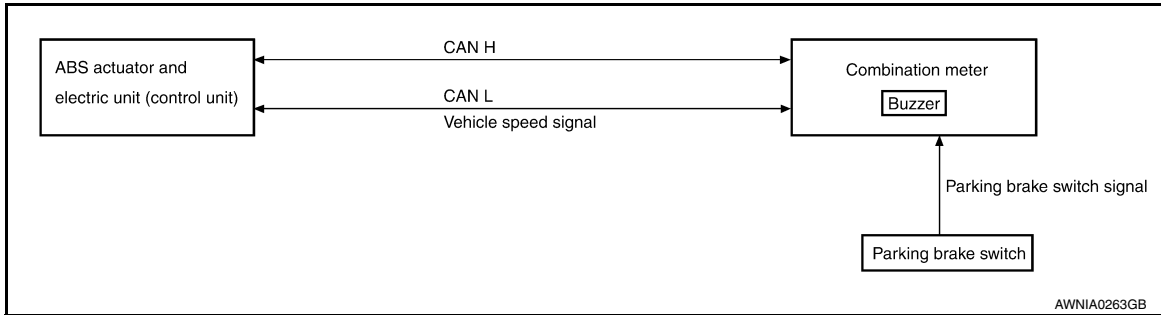
## < SYSTEM DESCRIPTION >

- BCM detects key inserted into the ignition switch, and sends key warning signal to combination meter with CAN communication line.
- When combination meter receives key warning signal, it sounds warning chime.

## PARKING BRAKE RELEASE WARNING CHIME

### PARKING BRAKE RELEASE WARNING CHIME : System Diagram

INFOID:000000009759231



### PARKING BRAKE RELEASE WARNING CHIME : System Description

INFOID:000000009759232

#### DESCRIPTION

- The combination meter receives the vehicle speed signal from the ABS actuator and electric unit (control unit) via CAN communication line.
- The combination meter judges whether the parking brake is released using the parking brake switch signal from the parking brake switch, and sounds the warning buzzer if necessary.

#### WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled:

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

#### WARNING CANCEL CONDITIONS

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

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



# DIAGNOSIS SYSTEM (COMBINATION METER)

< SYSTEM DESCRIPTION >

## DIAGNOSIS SYSTEM (COMBINATION METER)

### CONSULT Function (METER/M&A)

INFOID:000000010289397

#### APPLICATION ITEMS

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

System	Diagnosis mode	Description
METER/M&A	Self Diagnostic Result	The combination meter checks the conditions and displays memorized errors.
	Data Monitor	Displays the 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.

#### SELF DIAG RESULT

Refer to [MWI-26, "DTC Index"](#).

#### DATA MONITOR

##### Display Item List

X: Applicable

Display item [Unit]	MAIN SIGNALS	Description
SPEED METER [km/h] or [mph]	X	Displays the value of vehicle speed signal.
SPEED OUTPUT [km/h] or [mph]	X	Displays the value of vehicle speed signal, which is transmitted to each unit with CAN communication.
ODO OUTPUT [km/h or mph]		Displays odometer signal value transmitted to other units via CAN communication.
TACHO METER [rpm]	X	Displays the value of engine speed signal, which is input from ECM.
FUEL METER [L]	X	Displays the fuel level.
W TEMP METER [°C] or [°F]	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
SLIP IND [ON/OFF]		Displays [ON/OFF] condition of SLIP indicator lamp.
VDC/TCS IND [ON/OFF]		Displays [ON/OFF] condition of VDC OFF 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 warning indicator.
HI-BEAM IND [ON/OFF]		Displays [ON/OFF] condition of high beam indicator.
TURN IND [ON/OFF]		Displays [ON/OFF] condition of turn indicator.
FR FOG IND [On/Off]		Displays [ON/OFF] condition of front fog lamp indicator.
LIGHT IND [ON/OFF]		Displays [ON/OFF] condition of light indicator.
OIL W/L [ON/OFF]		Displays [ON/OFF] condition of oil pressure warning indicator.

## DIAGNOSIS SYSTEM (COMBINATION METER)

### < SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description
MIL [ON/OFF]		Displays [ON/OFF] condition of malfunction indicator.
CRUISE IND [Off]		Displays [ON/OFF] condition of CRUISE indicator.
O/D OFF IND [ON/OFF]		Displays [ON/OFF] condition of O/D OFF indicator.
FUEL W/L [ON/OFF]		Displays [ON/OFF] condition of low-fuel warning indicator.
KEY G/Y W/L [On/Off]		Displays [ON/OFF] condition of KEY warning lamp (G/Y).
KEY KNOB W/L [On/Off]		Displays [ON/OFF] condition of shift P warning lamp.
O/D OFF SW [ON/OFF]		Displays [ON/OFF] condition of O/D OFF switch.
COMP F/B SIG [On/Off]		A/C compressor activation condition that ECM judges according to the engine coolant temperature and the acceleration degree.
BRAKE SW [ON/OFF]		Displays [ON/OFF] condition of brake switch.
EPS W/L [ON/OFF]		Displays [ON/OFF] condition of EPS indicator lamp.
ECO MODE IND [On/Off]		Displays [ON/OFF] condition of ECO mode indicator lamp.
LCD		Displays status of Intelligent Key system warning judged from meter display signal received from BCM with CAN communication line.
SHIFT IND [P, R, N, D, L]		Displays shift selector position.
FUEL CAP W/L [Off]		Displays [ON/OFF] condition of loose fuel cap warning message.
AIR PRES W/L [ON/OFF]		Displays [ON/OFF] condition of tire pressure warning lamp.
PKB SW [ON/OFF]		Status of parking brake switch.
BUCKLE SW [ON/OFF]		Status of seat belt buckle switch (LH).
PASS BUCKLE SW [ON/OFF]		Status of passenger seat belt buckle switch (RH).
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.
DISTANCE [km] or [Mi]		Displays distance to empty.
OUTSIDE TEMP [°C or °F]		Displays the ambient air temperature, which is input from ambient sensor.
BUZZER [ON/OFF]	X	Displays [ON/OFF] condition of buzzer.
SPORT MODE IND [On/Off]		Status of DS mode indicator detected from SPORT indicator signal is received from TCM via CAN communication.
ECO DRIVE NAVI [LEVEL 0 - 30]		Status of ECO pedal guide detected from ECO pedal guide signal received from ECM via CAN communication.

**NOTE:**

Some items are not available according to vehicle specification.

# DIAGNOSIS SYSTEM (COMBINATION METER)

## < SYSTEM DESCRIPTION >

### WARNING HISTORY

- Stores histories when warning/indicator lamp is turned on. A
- “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. B
  - 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. C
- Brake warning lamp does not store any history when the parking brake is applied or the brake fluid level gets low. D

### WORK SUPPORT

Work support item	Description
Turn signal buzzer diagnosis	A possible malfunction can be narrowed down by following displayed instructions.
Outside air temperature diagnosis	
Fuel meter diagnosis (Analog pointer)	
Warning/Indicator lamp diagnosis	

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# DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

## DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM) COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000010309898

### 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	<ul style="list-style-type: none"> <li>The vehicle specification can be read and saved.</li> <li>The vehicle specification can be written when replacing BCM.</li> </ul>
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication is displayed.

### SYSTEM APPLICATION

BCM can perform the following functions.

System	Sub System	Direct Diagnostic Mode						
		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	HEAD LAMP			×	×	×		
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			×	×	×		
Trunk open	TRUNK			×				
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×				
Signal buffer system	SIGNAL BUFFER			×				
TPMS	AIR PRESSURE MONITOR		×	×	×	×		

# DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

## BUZZER

BUZZER : CONSULT Function (BCM - BUZZER)

INFOID:000000010309899

## DATA MONITOR

Monitor Item [Unit]	Description
PUSH -SW [On/Off]	Indicates condition of push-button ignition switch.
UNLK SEN -DR [On/Off]	Indicates condition of driver 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
ID REGIST WARNING	This test is able to check TPMS transmitter ID regist warning chime operation [On/Off].
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].

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# DIAGNOSIS SYSTEM (BCM) (WITHOUT INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

## DIAGNOSIS SYSTEM (BCM) (WITHOUT INTELLIGENT KEY SYSTEM) COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000010295526

### 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	<ul style="list-style-type: none"> <li>The vehicle specification can be read and saved.</li> <li>The vehicle specification can be written when replacing BCM.</li> </ul>
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication is displayed.

### SYSTEM APPLICATION

BCM can perform the following functions.

System	Sub System	Direct Diagnostic Mode						
		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			×	×	×		
Remote keyless entry system	MULTI REMOTE ENT			×	×	×		
Exterior lamp	HEAD LAMP			×	×	×		
Wiper and washer	WIPER			×	×	×		
Turn signal and hazard warning lamps	FLASHER			×	×			
Air conditioner	AIR CONDITIONER			×				
Combination switch	COMB SW			×				
BCM	BCM	×	×			×	×	×
Immobilizer	IMMU		×		×	×		
Interior room lamp battery saver	BATTERY SAVER			×	×	×		
Trunk open	TRUNK			×				
RAP system	RETAINED PWR			×		×		
Signal buffer system	SIGNAL BUFFER			×				
TPMS	AIR PRESSURE MONITOR		×	×	×	×		
Panic alarm system	PANIC ALARM				×			

# DIAGNOSIS SYSTEM (BCM) (WITHOUT INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

## BUZZER

BUZZER : CONSULT Function (BCM - BUZZER)

INFOID:0000000010309900

## DATA MONITOR

Monitor Item [Unit]	Description
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.
KEY ON SW [On/Off]	Indicates condition of key switch.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
REVERSE SW CAN [On/Off]	Indicates reverse switch signal received from TCM 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.
BUCKLE SW [On/Off]	Indicates condition of seat belt buckle switch.
VEHICLE SPEED [km/h/mph]	Indicates vehicle speed signal received from combination meter on CAN communication line.

## ACTIVE TEST

Test Item	Description
IGN KEY WARN ALM	This test is able to check key warning chime operation [On/Off].
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].

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WCS

# BCM, COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

## ECU DIAGNOSIS INFORMATION

### BCM, COMBINATION METER

#### List of ECU Reference

INFOID:000000009759238

ECU	Reference
BCM (with Intelligent Key)	<a href="#">BCS-29, "Reference Value"</a>
	<a href="#">BCS-46, "Fail-safe"</a>
	<a href="#">BCS-48, "DTC Inspection Priority Chart"</a>
	<a href="#">BCS-49, "DTC Index"</a>
BCM (without Intelligent Key)	<a href="#">BCS-97, "Reference Value"</a>
	<a href="#">BCS-108, "Fail-safe"</a>
	<a href="#">BCS-108, "DTC Inspection Priority Chart"</a>
	<a href="#">BCS-109, "DTC Index"</a>
Combination meter	<a href="#">MWI-20, "Reference Value"</a>
	<a href="#">MWI-25, "Fail-Safe"</a>
	<a href="#">MWI-26, "DTC Index"</a>



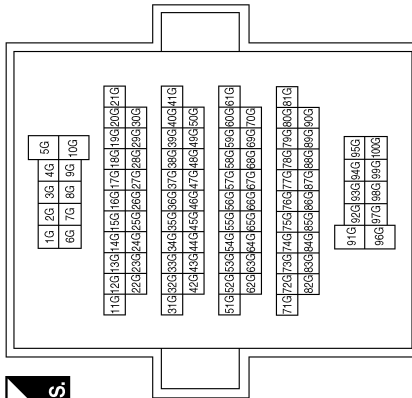


# WARNING CHIME SYSTEM

< WIRING DIAGRAM >

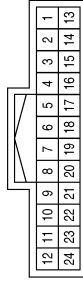
## WARNING CHIME SYSTEM CONNECTORS

Connector No.	M2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



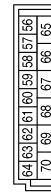
Terminal No.	Color of Wire	Signal Name
10G	Y	-
35G	BR	-
36G	W	-

Connector No.	M10
Connector Name	WIRE TO WIRE
Connector Color	WHITE



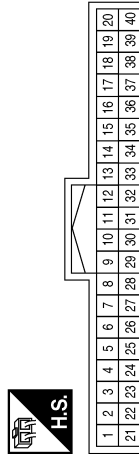
Terminal No.	Color of Wire	Signal Name
8	L	-

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
63	O	BATTERY (FUSE)
65	B	GND
70	Y	BATTERY (F/L)

Connector No.	M21
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



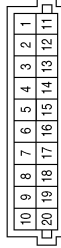
Terminal No.	Color of Wire	Signal Name
2	L	COMBINATION SW INPUT 5
3	GR	COMBINATION SW INPUT 4
4	BR	COMBINATION SW INPUT 3

Terminal No.	Color of Wire	Signal Name
5	O	COMBINATION SW INPUT 2
6	W	COMBINATION SW INPUT 1
32	LG	COMBINATION SW OUTPUT 5
33	Y	COMBINATION SW OUTPUT 4
34	V	COMBINATION SW OUTPUT 3
35	R	COMBINATION SW OUTPUT 2
36	SB	COMBINATION SW OUTPUT 1
37	GR	KEY SW
38	R	IGN SW
39	L	CAN-H
40	P	CAN-L

# WARNING CHIME SYSTEM

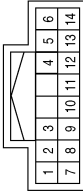
< WIRING DIAGRAM >

Connector No.	M31
Connector Name	JOINT CONNECTOR-M01
Connector Color	GRAY



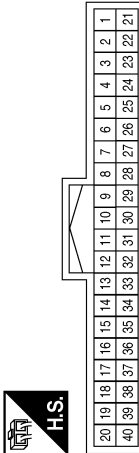
Terminal No.	Color of Wire	Signal Name
5	P	-
10	P	-
15	L	-
20	L	-

Connector No.	M28
Connector Name	COMBINATION SWITCH
Connector Color	WHITE



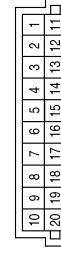
Terminal No.	Color of Wire	Signal Name
2	GR	-
5	BR	-
7	V	-
8	L	-
9	R	-
10	Y	-
11	SB	-
12	W	-
13	LG	-
14	O	-

Connector No.	M24
Connector Name	COMBINATION METER
Connector Color	WHITE



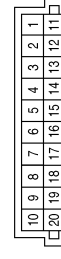
Terminal No.	Color of Wire	Signal Name
1	L	CAN-H
2	P	CAN-L
9	L	DR BUCKLE SW
10	SB	PKB SW
21	B	GND (ILL)
22	B	GND 2 (POWER)
23	B	GND 3 (CIRCUIT)
27	LG	BAT
28	GR	IGN

Connector No.	M60
Connector Name	JOINT CONNECTOR-M06
Connector Color	BLUE



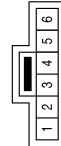
Terminal No.	Color of Wire	Signal Name
5	LG	-
7	BR	-
9	W	-

Connector No.	M53
Connector Name	JOINT CONNECTOR-M03
Connector Color	PINK



Terminal No.	Color of Wire	Signal Name
14	P	-
15	P	-
19	L	-
20	L	-

Connector No.	M50
Connector Name	KEY SWITCH
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	GR	-
2	BR	-

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WCS

# WARNING CHIME SYSTEM

< WIRING DIAGRAM >

Terminal No.	Color of Wire	Signal Name
32	LG	COMBINATION SW OUTPUT 5
33	Y	COMBINATION SW OUTPUT 4
34	V	COMBINATION SW OUTPUT 3
35	R	COMBINATION SW OUTPUT 2
36	SB	COMBINATION SW OUTPUT 1
39	L	CAN-H
40	P	CAN-L

Connector No.	M84
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
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Terminal No.	Color of Wire	Signal Name
2	L	COMBINATION SW INPUT 5
3	GR	COMBINATION SW INPUT 4
4	BR	COMBINATION SW INPUT 3
5	O	COMBINATION SW INPUT 2
6	W	COMBINATION SW INPUT 1

Connector No.	M83
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61
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Terminal No.	Color of Wire	Signal Name
78	W	SMART KEYLESS BUZZER OUTPUT

Connector No.	M130
Connector Name	PARKING BRAKE SWITCH
Connector Color	BLACK



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Terminal No.	Color of Wire	Signal Name
1	SB	-

Connector No.	M85
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



88	87	86	85	84	83	82	81	95	94	93	92	91	90
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Terminal No.	Color of Wire	Signal Name
88	O	BATTERY (FUSE)
90	Y	BATTERY (F/L)
93	B	GND (POWER)

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# WARNING CHIME SYSTEM

< WIRING DIAGRAM >

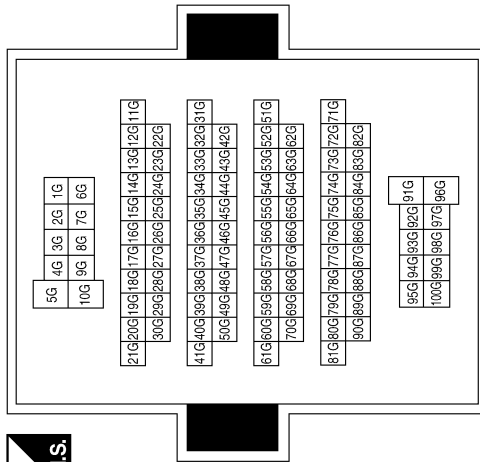
Connector No.	E70
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Color	BROWN



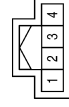
Terminal No.	Color of Wire	Signal Name
1	R	-
3	GR	-

Terminal No.	Color of Wire	Signal Name
10G	G	-
35G	R	-
36G	GR	-

Connector No.	E4
Connector Name	WIRE TO WIRE
Connector Color	WHITE

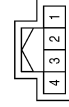


Connector No.	B21
Connector Name	FRONT DOOR SWITCH LH
Connector Color	WHITE



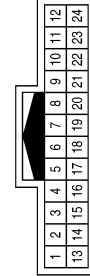
Terminal No.	Color of Wire	Signal Name
3	Y	-

Connector No.	B16
Connector Name	SEAT BELT BUCKLE SWITCH LH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	R	-
2	B	-

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
8	LG	-

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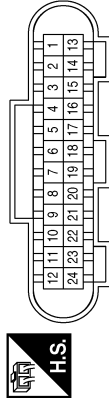
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# WARNING CHIME SYSTEM

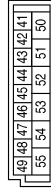
## < WIRING DIAGRAM >

Connector No.	B73
Connector Name	JOINT CONNECTOR-B01
Connector Color	BLACK



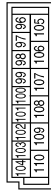
Terminal No.	Color of Wire	Signal Name
17	LG	-
18	R	-

Connector No.	B57
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
46	Y	DOOR SW (DR)

Connector No.	B24
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
98	Y	DOOR SW (DR)

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# DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

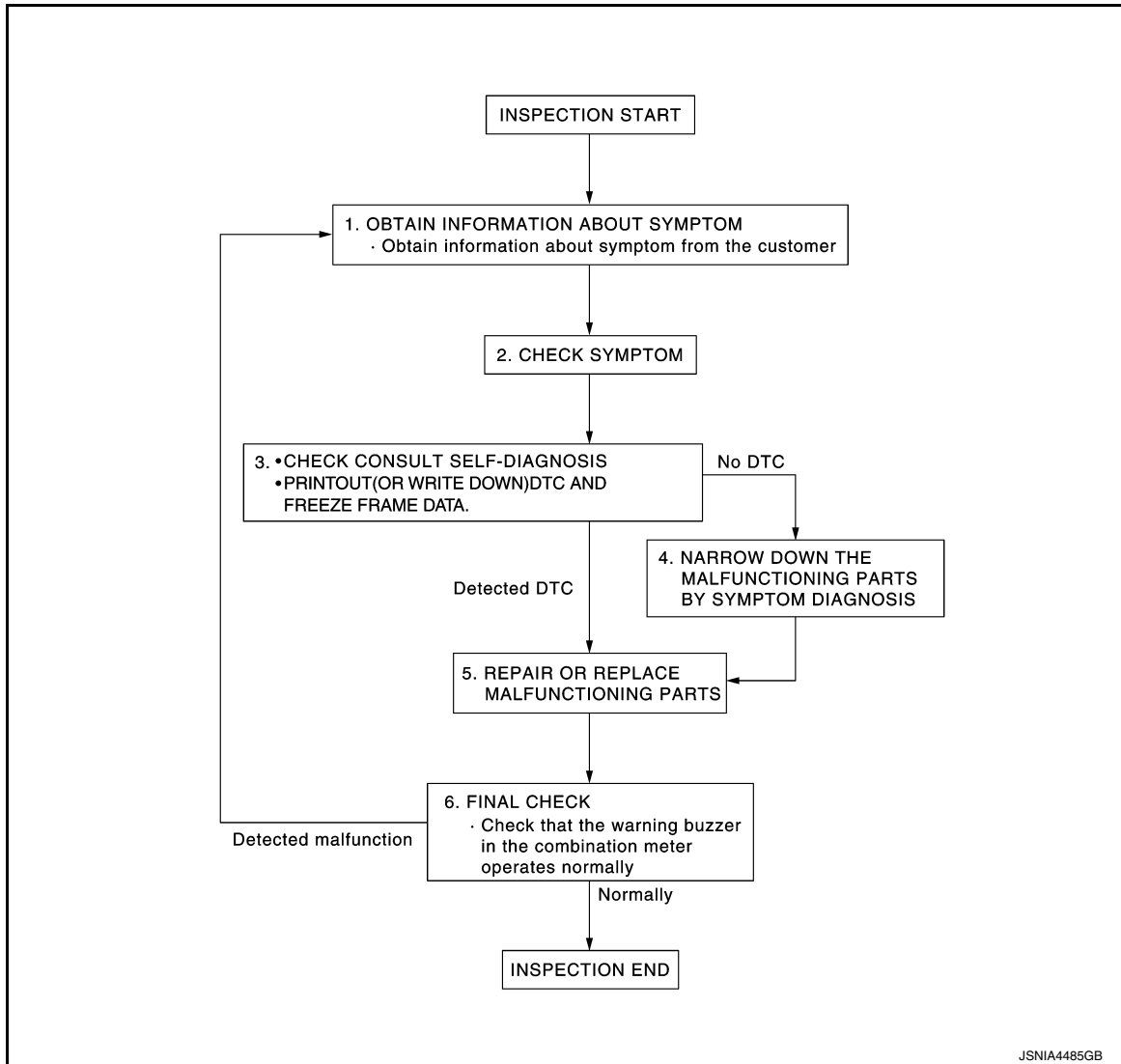
## BASIC INSPECTION

### DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000009759240

#### 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

Connect CONSULT and perform self-diagnosis. Refer to [MWI-26, "DTC Index"](#).

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## DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

---

Are self-diagnosis results normal?

YES >> GO TO 4.

NO >> GO TO 5.

### 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:000000010289405

Regarding Wiring Diagram information, refer to [MWI-28, "Wiring Diagram"](#).

#### 1. CHECK FUSES

Check that the following fuses are not blown.

Unit	Power source	Fuse No.
Combination meter	Battery	8
	Ignition switch ON or ACC	18
	Ignition switch ON or START	3

##### Is the fuse blown?

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

NO >> GO TO 2.

#### 2. POWER SUPPLY CIRCUIT CHECK

Check voltage between combination meter harness connector M24 terminals 15, 27, 28 and ground.

Terminals		Ignition switch position				
(+)		(-)	OFF	ACC	ON	START
Connector	Terminal					
M24	27	Ground	Battery voltage	Battery voltage	Battery voltage	Battery voltage
	15		0V	Battery voltage	Battery voltage	0V
	28		0V	0V	Battery voltage	Battery voltage

##### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

#### 3. CHECK GROUND CIRCUIT

Check continuity between combination meter harness connector M24 terminals 21, 22, 23 and ground.

Combination meter		Ground	Continuity
Connector	Terminal		
M24	21	Ground	Yes
	22		
	23		

##### Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connector.

### BCM (BODY CONTROL SYSTEM) (WITH INTELLIGENT KEY SYSTEM)

#### BCM (BODY CONTROL SYSTEM) (WITH INTELLIGENT KEY SYSTEM) : Diagnosis Procedure

INFOID:000000010309901

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# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Regarding Wiring Diagram information, refer to [BCS-51, "Wiring Diagram"](#).

## 1. CHECK FUSES AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuses and fusible link No.
88	Battery power supply	12 (10A)
90		G (40A)

Is the fuse 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 M85.
2. Check voltage between BCM connector M85 and ground.

BCM		Ground	Voltage
Connector	Terminal		
M85	88	—	Battery voltage
	90		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

## 3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M85 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M85	93	—	Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair harness or connector.

**BCM (BODY CONTROL SYSTEM) (WITHOUT INTELLIGENT KEY SYSTEM)**

**BCM (BODY CONTROL SYSTEM) (WITHOUT INTELLIGENT KEY SYSTEM) : Diagnosis Procedure**

INFOID:000000010289407

Regarding Wiring Diagram information, refer to [BCS-111, "Wiring Diagram"](#).

## 1. CHECK FUSES AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuses and fusible link No.
63	Battery power supply	12 (10A)
70		G (40A)
11	Ignition switch ACC or ON	18 (10A)

Is the fuse blown?

# POWER SUPPLY AND GROUND CIRCUIT

## < DTC/CIRCUIT DIAGNOSIS >

- YES >> Replace the blown fuse or fusible link after repairing the affected circuit.  
NO >> GO TO 2.

### 2.CHECK POWER SUPPLY CIRCUIT

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

BCM		Ground	Ignition switch position		
Connector	Terminal		OFF	ACC	ON
M20	63	—	Battery voltage	Battery voltage	Battery voltage
	70				
M21	11	—	0 V	Battery voltage	Battery voltage

#### Is the inspection result normal?

- YES >> GO TO 3.  
NO >> Repair harness or connector.

### 3.CHECK GROUND CIRCUIT

Check continuity between BCM connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M20	65	—	Yes

#### Is the inspection result normal?

- YES >> Inspection End.  
NO >> Repair harness or connector.

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# METER BUZZER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## METER BUZZER CIRCUIT

### Description

INFOID:000000009759244

- The buzzer for warning chime system is installed in the combination meter.
- The combination meter sounds the alarm buzzer based on the signals transmitted from various units.

### Component Function Check

INFOID:000000009759245

#### 1. CHECK OPERATION OF METER BUZZER

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

#### Does meter buzzer activate?

- YES >> Inspection End.  
NO >> Refer to [WCS-28, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000009759246

#### 1. CHECK COMBINATION METER INPUT SIGNAL

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

Monitor Item	Condition	Status
BUZZER	Under the condition of the Buzzer input	ON
	Except above	OFF

#### Is the inspection result normal?

- YES >> Replace combination meter. Refer to [MWI-77, "Removal and Installation"](#).  
NO >> Replace BCM. Refer to [BCS-73, "Removal and Installation"](#) (with Intelligent Key) or [BCS-126, "Removal and Installation"](#) (without Intelligent Key).

# SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

### Description

INFOID:000000009759247

Transmits a seat belt buckle switch LH (driver seat) signal to the combination meter.

### Component Function Check

INFOID:000000009759248

#### 1. CHECK COMBINATION METER INPUT SIGNAL

Select DATA MONITOR for METER/M&A and check the BUCKLE SW monitor value.

Monitor Item	Condition	Status
BUCKLE SW	When seat belt LH (driver seat) is fastened	OFF
	When seat belt LH (driver seat) is unfastened	ON

YES >> Inspection End.

NO >> Refer to [WCS-29, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000009759249

Regarding Wiring Diagram information, refer to [WCS-17, "Wiring Diagram"](#).

#### 1. CHECK COMBINATION METER INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between combination meter harness connector M24 terminal 9 and ground.

Combination meter		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
M24	9	—	When driver seat belt is fastened	12 V
			When driver seat belt is unfastened	0 V

Is the inspection result normal?

YES >> Replace combination meter. Refer to [MWI-77, "Removal and Installation"](#).

NO >> GO TO 2.

#### 2. CHECK SEAT BELT BUCKLE SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect combination meter harness connector M24 and seat belt buckle switch LH (driver seat) harness connector B16.
3. Check continuity between combination meter harness connector M24 terminal 9 and seat belt buckle switch LH (driver seat) harness connector B16 terminal 1.

Combination meter		Seat belt buckle switch LH (driver seat)		Continuity
Connector	Terminal	Connector	Terminal	
M24	9	B16	1	Yes

4. Check continuity between combination meter harness connector M24 terminal 9 and ground.

Combination meter		Ground	Continuity
Connector	Terminal		
M24	9	—	No

Is the inspection result normal?

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# SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

## < DTC/CIRCUIT DIAGNOSIS >

- YES >> GO TO 3.  
NO >> Repair or replace harness or connector.

### 3. CHECK SEAT BELT BUCKLE SWITCH GROUND CIRCUIT

Check continuity between seat belt buckle switch LH (driver seat) harness connector B16 terminal 2 and ground.

Seat belt buckle switch LH (driver seat)		Ground	Continuity
Connector	Terminal		
B16	2	—	Yes

#### Is the inspection result normal?

- YES >> Check the seat belt buckle switch. Refer to [WCS-30, "Component Inspection"](#).  
NO >> Repair or replace harness or connector.

## Component Inspection

INFOID:000000009759250

### 1. CHECK SEAT BELT BUCKLE SWITCH

1. Turn ignition switch OFF.
2. Disconnect the seat belt buckle switch LH (driver seat).
3. Check continuity between the seat belt buckle switch LH (driver seat) terminals 1 and 2.

Terminal		Condition	Continuity
1	2	When seat belt is fastened	No
		When seat belt is unfastened	Yes

#### Is the inspection result normal?

- YES >> Inspection End.  
NO >> Replace the seat belt buckle switch LH (driver seat). Refer to [SR-32, "Removal and Installation"](#).

# WARNING CHIME SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

## SYMPTOM DIAGNOSIS

### WARNING CHIME SYSTEM SYMPTOMS

#### Symptom Table

INFOID:000000009759251

**CAUTION:**

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

Symptom	Possible cause	Reference
The light reminder warning does not sound.	<ul style="list-style-type: none"><li>• Harness between BCM and front door switch LH</li><li>• Front door switch LH</li><li>• BCM</li><li>• Combination meter</li></ul>	Refer to <a href="#">WCS-34</a> .
The parking brake release warning continues sounding or does not sound.	<ul style="list-style-type: none"><li>• Harness between combination meter and parking brake switch</li><li>• Parking brake switch</li><li>• BCM</li><li>• Combination meter</li></ul>	Refer to <a href="#">WCS-32</a> .
The seat belt warning continues sounding or does not sound.	<ul style="list-style-type: none"><li>• Harness between combination meter and seat belt buckle switch (LH)</li><li>• Seat belt buckle switch (LH)</li><li>• BCM</li><li>• Combination meter</li></ul>	Refer to <a href="#">WCS-33</a> .
The key warning does not sound. (without Intelligent Key)	<ul style="list-style-type: none"><li>• Harness between BCM and key switch</li><li>• Key switch</li><li>• BCM</li></ul>	Refer to <a href="#">WCS-35</a> .
Warning chime does not sound at all.	<ul style="list-style-type: none"><li>• BCM</li><li>• Combination meter</li></ul>	Refer to <a href="#">WCS-28</a> .

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# 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

INFOID:000000009759252

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

### Diagnosis Procedure

INFOID:000000009759253

#### 1. CHECK PARKING BRAKE WARNING LAMP

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

Combination meter	Condition	Status
Brake warning lamp	When parking brake is applied	ON
	When parking brake is released	OFF

Is the inspection result normal?

YES >> Replace combination meter. Refer to [MWI-77, "Removal and Installation"](#).

NO >> GO TO 2.

#### 2. CHECK PARKING BRAKE SWITCH SIGNAL CIRCUIT

Check the parking brake switch signal circuit. Refer to [MWI-60, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

#### 3. CHECK PARKING BRAKE SWITCH

Check the parking brake switch. Refer to [MWI-61, "Component Inspection"](#).

Is the inspection result normal?

YES >> Replace combination meter. Refer to [MWI-77, "Removal and Installation"](#).

NO >> Replace parking brake switch. Refer to [PB-7, "Exploded View"](#).



# THE SEAT BELT REMINDER WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

## THE SEAT BELT REMINDER WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

### Description

INFOID:000000009759254

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

### Diagnosis Procedure

INFOID:000000009759255

#### 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.

Combination meter	Condition	Status
Seat belt warning lamp	When seat belt LH (driver seat) is fastened	OFF
	When seat belt LH (driver seat) is unfastened	ON

Is the inspection result normal?

YES >> Replace combination meter. Refer to [MWI-77, "Removal and Installation"](#).

NO >> GO TO 2.

#### 2. CHECK SEAT BELT BUCKLE SWITCH (LH) SIGNAL CIRCUIT

Check the seat belt buckle switch (LH) circuit. Refer to [WCS-29, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

#### 3. CHECK SEAT BELT BUCKLE SWITCH (LH)

Check the seat belt buckle switch (LH). Refer to [WCS-30, "Component Inspection"](#).

Is the inspection result normal?

YES >> Replace combination meter. Refer to [MWI-77, "Removal and Installation"](#).

NO >> Replace seat belt buckle (LH). Refer to [SR-32, "Removal and Installation"](#).

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# THE LIGHT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

## THE LIGHT REMINDER WARNING DOES NOT SOUND

### Description

INFOID:000000009759256

Light reminder warning chime does not sound even though headlamp is illuminated.

### Diagnosis Procedure

INFOID:000000009759257

#### 1. CHECK COMBINATION METER INPUT SIGNAL

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

Monitor Item	Condition	Status
BUZZER	Under the condition of buzzer input	ON
	Except above	OFF

#### Is the inspection result normal?

YES >> Replace combination meter. Refer to [MWI-77, "Removal and Installation"](#).

NO >> GO TO 2.

#### 2. CHECK FRONT DOOR SWITCH LH SIGNAL CIRCUIT

Check the front door switch LH signal circuit. Refer to [DLK-102, "Diagnosis Procedure"](#) (with Intelligent Key system) or [DLK-253, "Diagnosis Procedure"](#) (without Intelligent Key system).

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

#### 3. CHECK FRONT DOOR SWITCH LH

Check front door switch LH. Refer to [DLK-103, "Component Inspection"](#) (with Intelligent Key system) or [DLK-255, "Component Inspection"](#) (without Intelligent Key system).

#### Is the inspection result normal?

YES >> Replace the BCM. Refer to [BCS-73, "Removal and Installation"](#) (with Intelligent Key system) or [BCS-126, "Removal and Installation"](#) (without Intelligent Key system).

NO >> Replace the front door switch LH. Refer to [DLK-194, "Removal and Installation"](#) (with Intelligent Key system) or [DLK-341, "Removal and Installation"](#) (without Intelligent Key system).

# THE KEY WARNING DOES NOT SOUND (WITHOUT INTELLIGENT KEY)

< SYMPTOM DIAGNOSIS >

## THE KEY WARNING DOES NOT SOUND (WITHOUT INTELLIGENT KEY)

### Description

INFOID:000000009759258

The key warning chime does not sound, when all of the following conditions are fulfilled.

- Key inserted into the key cylinder (key switch signal ON).
- Ignition switch is in ACC or OFF (ignition switch signal OFF).
- Driver side door is open (driver side door switch ON)

### Diagnosis Procedure

INFOID:000000009759259

#### 1. CHECK BCM INPUT SIGNAL

1. Connect CONSULT.
2. Select the DATA MONITOR of BCM (BUZZER) and check the KEY ON SW monitor value. Refer to [BCS-88. "BUZZER : CONSULT Function \(BCM - BUZZER\)"](#).

Is the inspection result normal?

YES >> Replace the BCM. Refer to [BCS-73. "Removal and Installation"](#) (with Intelligent Key system) or [BCS-126. "Removal and Installation"](#) (without Intelligent Key system).

NO >> GO TO 2.

#### 2. CHECK KEY SWITCH SIGNAL CIRCUIT

Check the key switch signal circuit. Refer to [DLK-262. "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> Replace the BCM. Refer to [BCS-73. "Removal and Installation"](#) (with Intelligent Key system) or [BCS-126. "Removal and Installation"](#) (without Intelligent Key system).

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

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