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HOW TO USE THIS MANUAL

APPLICATION NOTICE

Information INFOID:000000012432665 B

Service information	Design of combination meter
TYPE A	JSNIA3947ZZ
TYPE B	AWNIA3632ZZ

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PRECAUTIONS

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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

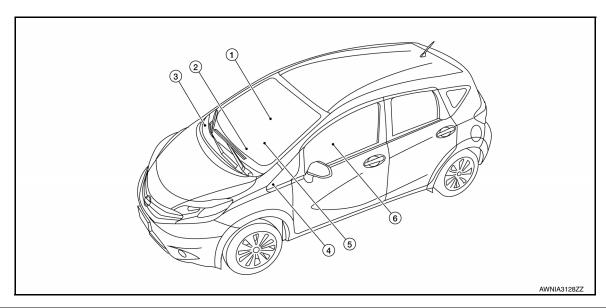
WARNING:

- 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.

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location



No.	Component	Function
1.	Parking brake switch	Transmits the parking brake switch signal to the combination meter.
2.	Key switch	Transmits the key switch signal to the BCM. Refer to <u>SEC-119</u> . "NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS: Component Parts Location" (without Intelligent Key system) 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 BRC-7 , "Component Parts Location" for detailed installation location.
4.	всм	Based on the signals received from various units and switches, transmits the buzzer output signal to the combination meter via CAN communication. Refer to BCS-6, "BODY CONTROL SYSTEM: Component Parts Location" (with Intelligent Key system) or BCS-77, "BODY CONTROL SYSTEM: Component Parts Location" (without Intelligent Key system) for detailed installation location.
5.	Combination meter	 Receives a buzzer output signal from the BCM with CAN communication line and sounds the buzzer. Controls the following with the vehicle speed signal received from ABS actuator and electric unit (control unit) via CAN communication and the signals from switches. Seat belt reminder warning chime Parking brake release warning chime Key warning chime
6.	Seat belt buckle switch LH	Transmits a seat belt buckle switch signal LH to the combination meter.

Combination Meter

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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
- Key warning chime (without Intelligent Key system)

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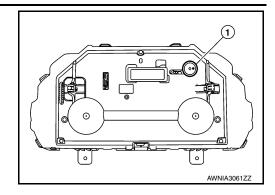
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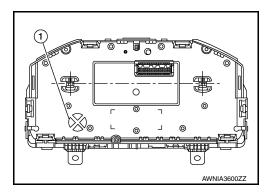
COMPONENT PARTS

< SYSTEM DESCRIPTION >

TYPE A



TYPE B



NOTE:

To identify combination meter type, refer to WCS-3. "Information".

SYSTEM

WARNING CHIME SYSTEM

WARNING CHIME SYSTEM: System Description

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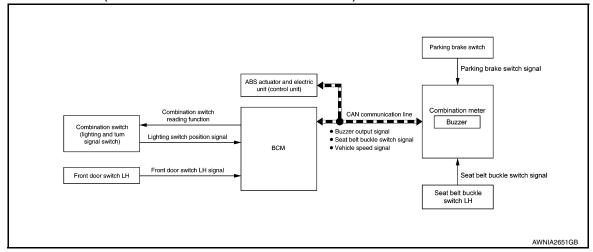
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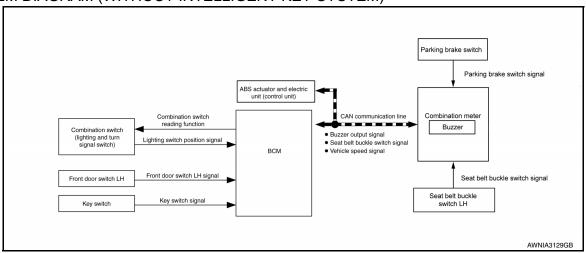
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SYSTEM DIAGRAM (WITH INTELLIGENT KEY SYSTEM)



SYSTEM DIAGRAM (WITHOUT INTELLIGENT KEY SYSTEM)



COMBINATION METER INPUT/OUTPUT SIGNAL (CAN COMMUNICATION SIGNAL)

Input signal

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

Output signal

Signal name	Reception unit
Vehicle speed signal	BCM

BCM INPUT/OUTPUT SIGNAL (CAN COMMUNICATION SIGNAL)

Input signal

Revision: August 2015 WCS-7 2016 Versa Note

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< SYSTEM DESCRIPTION >

Signal name	Transmit unit
Vehicle speed signal	Combination meter

Output signal

Signal name	Reception unit
Buzzer output signal	Combination meter

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-8, "LIGHT REMINDER WARNING CHIME : Light Reminder Warning"
Parking brake release warning chime	WCS-9, "PARKING BRAKE RELEASE WARNING CHIME : Parking Brake Release Warning Chime"
Seat belt warning	WCS-10, "SEAT BELT REMINDER WARNING CHIME : Seat belt Warning"
Key warning chime (without Intelligent Key system)	WCS-11, "KEY WARNING CHIME (WITHOUT INTELLIGENT KEY): Key Warning Chime"

WARNING CHIME SYSTEM: Fail-safe

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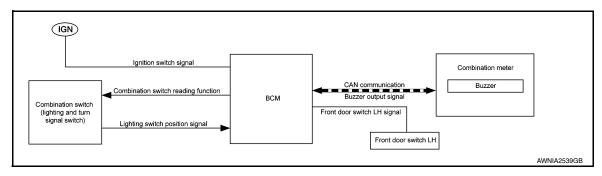
The combination meter activates the fail-safe control if CAN communication with each unit is malfunctioning.

Function	Specifications
Buzzer	The buzzer turns OFF by suspending communication.

LIGHT REMINDER WARNING CHIME

LIGHT REMINDER WARNING CHIME: Light Reminder Warning

INFOID:0000000012432671



WARNING CHIME OPERATION CONDITIONS

If all of the following conditions are fulfilled:

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

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WARNING CHIME CANCEL CONDITIONS

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

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

Signal name	Signal source
Ignition switch signal	_
Combination switch signal	Combination switch (Lighting switch) BCM
Driver door switch signal	Front door switch LH BCM

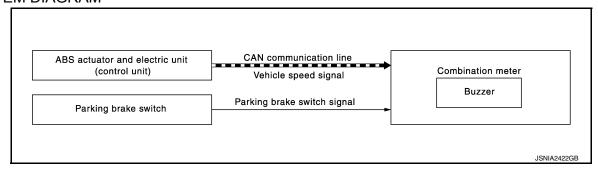
2. Combination meter sounds integrated buzzer, following the warning chime output requirement (below signal) from BCM.

Signal name	Signal source
Buzzer output signal	BCM CAN Combination meter

PARKING BRAKE RELEASE WARNING CHIME

PARKING BRAKE RELEASE WARNING CHIME: Parking Brake Release Warning Chime

SYSTEM DIAGRAM



WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled:

Operation conditions	
Ignition switch	ON

< SYSTEM DESCRIPTION >

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

WARNING CANCEL CONDITIONS

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

Operation conditions	
Ignition switch	OFF
Parking brake	Release condition (parking brake switch OFF)
Vehicle speed	Approximately 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.

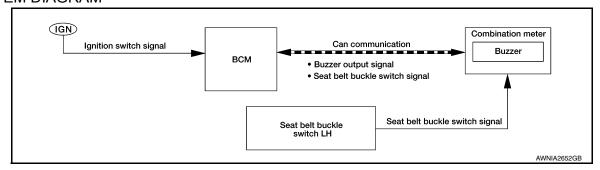
Signal name	Signal source
Ignition switch signal	_
Parking brake switch signal	Parking brake switch ——— Combination meter
Vehicle speed signal	ABS actuator and electric unit (control unit) CAN Combination meter

SEAT BELT REMINDER WARNING CHIME

SEAT BELT REMINDER WARNING CHIME: Seat belt Warning

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SYSTEM DIAGRAM



WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled.

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

WARNING CANCEL CONDITIONS

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

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

SIGNAL PATH

SYSTEM

< SYSTEM DESCRIPTION >

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

Signal name	Signal source
Ignition switch signal	_
Seat belt buckle switch signal (LH)	Seat belt buckle switch (LH) Combination meter CAN BCM

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

KEY WARNING CHIME (WITHOUT INTELLIGENT KEY)

KEY WARNING CHIME (WITHOUT INTELLIGENT KEY): Key Warning Chime

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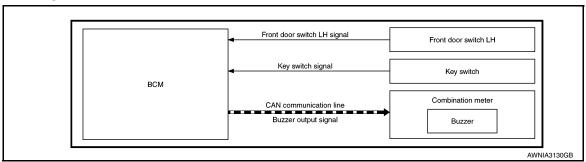
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SYSTEM DIAGRAM



WARNING CHIME OPERATION CONDITIONS

If all of the following conditions are fulfilled.

Operation conditions	
Ignition switch	OFF or ACC position
Key switch	ON (key is in key cylinder)
Driver side door	Open [front door switch LH ON]

WARNING CHIME CANCEL CONDITIONS

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

Operation conditions		
Ignition switch ON		
Key switch	ON (key is removed from key cylinder)	
Driver side door Close [front door switch LH OFF]		

SIGNAL PATH

1. BCM detects key inserted into the ignition switch, and sends key warning signal to combination meter with CAN communication line.

Signal name	Signal source	
Ignition switch signal	_	

SYSTEM

< SYSTEM DESCRIPTION >

Signal name	Signal source	
Key switch signal	Key switch BCM	
Driver door switch signal	Front door switch LH BCM	
2. Combination meter sounds integrated buzzer, when it receives a buzzer output signal from BCM.		
Signal name	Signal source	

Signal name	Signal source	
Buzzer output signal	BCM CAN Combination meter	

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (COMBINATION METER)

TYPE A

TYPE A: On Board Diagnosis Function

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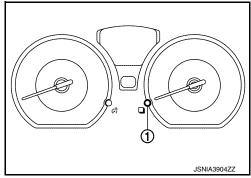
ON BOARD DIAGNOSIS ITEM

Information display, speedometer and tachometer can be checked in self-diagnosis mode.

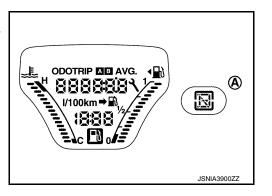
STARTING COMBINATION METER SELF-DIAGNOSIS MODE

METHOD OF STARTING

- 1. Turn ignition switch ON, and switch the trip meter to "trip A" or "trip B".
- 2. Turn ignition switch to OFF.
- 3. While pressing the meter control switch (1), turn the ignition switch ON.
- 4. Make sure that the trip meter displays "0000.0".
- Press the meter control switch (1) at least 3 times. (Within 7 seconds after the ignition switch is turned ON).



- 6. The combination meter is turned to self-diagnosis mode.
 - All segments of the information display and shift position indicator (A) for CVT models are displayed.



NOTE:

- Check combination meter power supply and ground circuit when the self-diagnosis mode of the combination meter does not start. replace combination meter if power supply and ground circuit are normal.
- If any of the segments are not displayed, replace combination meter.

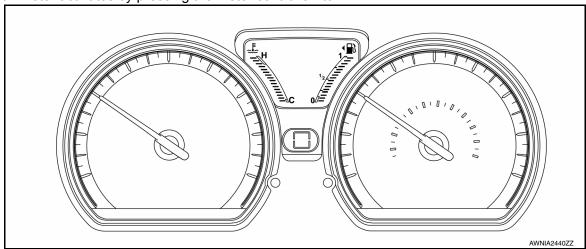
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< SYSTEM DESCRIPTION >

7. Each meter activates by pressing the meter control switch.



NOTE:

- If any of the meters or gauges is not activated, replace combination meter.
- · The figure is reference.

TYPE A: CONSULT Function (METER/M&A)

INFOID:0000000012542983

APPLICATION ITEMS

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

METER/M&A Diagnosis mode	Description	
Self Diagnostic Result	The combination meter self-diagnosis results.	
Data Monitor	Displays combination meter input/output data in real time.	
Work support	Supports combination meter diagnosis.	
ECU Identification	The combination meter part number is displayed.	
Warning History	Lighting history of the warning lamp and indicator lamp can be checked.	

SELF DIAG RESULT

Refer to MWI-24, "DTC Index".

DATA MONITOR

Display Item List

X: Applicable

Display item [Unit]	MAIN SIGNALS	Description	
SPEED METER [mph] or [km/h]	Х	Displays the value of vehicle speed signal.	
SPEED OUTPUT [mph] or [km/h]	Х	Displays the value of vehicle speed signal, which is transmitted to each unit with CAN communication.	
ODO OUTPUT [Mi] or [km]		Displays odometer signal value transmitted to other units via CAN communication.	
TACHO METER [rpm]	Х	Displays the value of engine speed signal, which is input from ECM.	
FUEL METER [L]	Х	Displays the fuel level.	
W TEMP METER [°F] or [°C]	Х	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]		Displays [ON/OFF] condition of VDC OFF indicator lamp.	

< SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description	
SLIP IND [ON/OFF]		Displays [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 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.	
LIGHT IND ON/OFF]		Displays [ON/OFF] condition of light indicator.	
OIL W/L ON/OFF]		Displays [ON/OFF] condition of engine oil pressure warning indicator.	
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]	OFF IND Displays [ON/OFF] condition of O/D OFF indicator		
FUEL W/L ON/OFF]	/L Displays (ON/OFF) condition of low-fuel warning indicator		
AIR PRES W/L [ON/OFF]		Displays [ON/OFF] condition of tire pressure warning lamp.	
EPS W/L [ON/OFF]		Displays [ON/OFF] condition of EPS indicator.	
CHG SIG [On/Off]		Displays [ON/OFF] condition of charge warning indicator.	
PASS BUCKLE SW [ON/OFF]		Status of seat belt buckle switch RH.	
FUEL CAP W/L Off]		Displays [ON/OFF] condition of loose fuel cap warning message.	
PKB SW [ON/OFF]		Status of parking brake switch.	
BUCKLE SW [ON/OFF]		Status of seat belt buckle switch LH.	
BRAKE OIL SW [ON/OFF]		Status of brake fluid level switch.	
DISTANCE [M] or [Mi]		Displays distance to empty.	
FUEL LOW SIG [ON/OFF]		Displays [ON/OFF] condition of low-fuel warning signal.	
BUZZER [ON/OFF]	Х	Displays [ON/OFF] condition of buzzer.	
TPMS PRESS L [ON/OFF]		Displays [ON/OFF] condition of check tire pressure warning message.	

NOTE:

Some items are not available according to vehicle specification.

WORK SUPPORT

< SYSTEM DESCRIPTION >

Work support item	Description	
Fuel meter diagnosis(Analog pointer)	A possible malfunction can be narrowed down by following the displayed instructions.	
Warning lamp diagnosis	A possible manufiction can be narrowed down by following the displayed instructions.	

WARNING HISTORY

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

W/L ON HISTORY

- · Stores histories when warning/indicator lamp is turned on.
- "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 and waiting for 30 seconds.
- 1 39: The number of times the engine was restarted after the 0 condition.
- NO W/L ON HISTORY: Stores NO (0) turning on history of warning/indicator lamp.

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.

TYPE B

TYPE B: On Board Diagnosis Function

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ON BOARD DIAGNOSIS

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

- Pointer sweep of speedometer, tachometer and gauges.
- Illumination of all lamps/LEDs that are controlled by the combination meter (regardless of switch status).
- · Error code

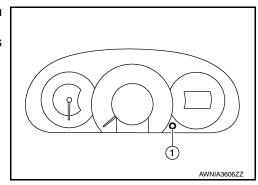
STARTING COMBINATION METER SELF-DIAGNOSIS MODE

NOTE:

- Check combination meter power supply and ground circuits if self-diagnosis mode does not start. Refer to
 <u>MWI-98</u>, "COMBINATION METER: Diagnosis Procedure". 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-115</u>, "Removal
 <u>and Installation"</u>.
- Combination meter self-diagnosis mode will function with the ignition switch in ON. Combination meter self-diagnosis mode will exit upon turning the ignition switch to OFF.

METHOD OF STARTING

- 1. Turn ignition switch to OFF.
- While pressing the trip reset switch (1), turn the ignition switch ON.
- 3. Press the trip reset switch at least 3 times. (Within 7 seconds after the ignition switch is turned ON.)

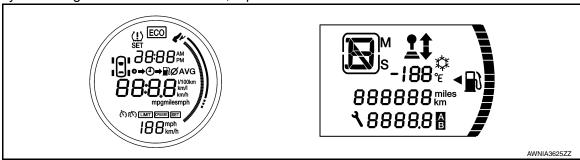


All LCD segments turn ON.

NOTE:

< SYSTEM DESCRIPTION >

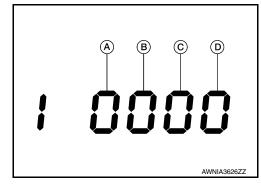
If any of the segments are not activated, replace the combination meter.



- 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 cancelled.
 - When the trip reset switch is pressed during the indication of Test order "10," test item returns to Test order "2."

Test order	Test item	Description	
1	Work instruction code		
2	Part number		
3	Software code	This item is displayed, but not used	
4	EEPROM code	This item is displayed, but not used.	
5	Hardware code		
6	P.C.B code		
7	The pointer of the following items moves from 0 to MAX twice. • Speedometer • Tachometer NOTE: If any one of the pointers does not sweep, replace combination meter.		
8	Displays the error code of the following items: • High water temperature indicator • Fuel gauge • Tachometer • Speedometer		
9	Error code E-H*2 Displays the error code of the following item: • Meter control switch		
10	All warning/indicator lamp illuminate. NOTE: When either one of them does not turn ON, replace combination meter.		

*1: Error code A-D



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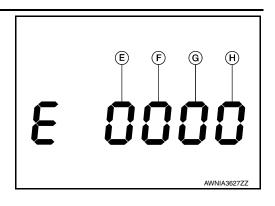
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< SYSTEM DESCRIPTION >

*2: Error code E-H



Item		Code	Description	Action to take/Reference
	High water tempera-	0	Normal	_
A	ture indicator signal	1	An engine coolant temperature signal cannot be received from ECM.	Perform "Self Diagnostic Result" of "ECM." Refer to EC-87, "DTC Index".
		0	Normal	_
lack	Fuel gauge	1	Fuel gauge circuit is shorted.	Refer to MWI-101, "Diagnosis Procedure".
		2	Fuel gauge circuit is open.	Relei to MWI-101, Diagnosis Flocedure.
		0	Normal	_
©	Tachometer	1	An engine speed signal cannot be received from ECM.	Perform "Self Diagnostic Result" of "ECM." Refer to EC-87, "DTC Index".
		0	Normal	_
(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 BRC-43, "DTC Index".
E	_	0	Displays "0" constantly.	_
F	_	0	Displays "0" constantly.	_
G	_	0	Displays "0" constantly.	_
		0	Normal	_
Θ	Trip odometer reset switch	2	When judging that the trip odometer reset switch signal circuit is short-circuited for 5 minutes or more.	Replace combination meter. Refer to MWI-115, "Removal and Installation".

TYPE B: CONSULT Function (METER/M&A)

INFOID:0000000012542985

APPLICATION ITEMS

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

METER/M&A Diagnosis mode	Description
Self Diagnostic Result	The combination meter self-diagnosis results.
Data Monitor	Displays combination meter input/output data in real time.
Work support	Supports combination meter diagnosis.
ECU Identification	The combination meter part number is displayed.
Warning History	Lighting history of the warning lamp and indicator lamp can be checked.

SELF DIAG RESULT

Refer to MWI-77, "DTC Index".

DATA MONITOR

Display Item List

< SYSTEM DESCRIPTION >

Display item [Init]	MAIN	Description					
Display item [Unit]	SIGNALS	Description					
SPEED METER [mph] or [km/h]	X	Displays the value of vehicle speed signal.					
SPEED OUTPUT [mph] or [km/h]	х	Displays the value of vehicle speed signal, which is transmitted to each unit with CAN communication.					
ODO OUTPUT [mph] or [km/h]		Displays odometer signal value transmitted to other units via CAN communication.					
TACHO METER [rpm]	х	Displays the value of engine speed signal, which is input from ECM.					
FUEL METER [L]	х	Displays the fuel level.					
W TEMP METER [°C] or [°F]	Х	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]		Displays [ON/OFF] condition of VDC OFF indicator lamp.					
SLIP IND [ON/OFF]		Displays [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 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.					
LIGHT IND [On/Off]		Displays [ON/OFF] condition of light indicator.					
OIL W/L [On/Off]		Displays [ON/OFF] condition of engine oil pressure warning indicator.					
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.					
PASS BUCKLE SW [On/Off]		Status of seat belt buckle switch RH.					
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 warning lamp.					
EPS W/L [On/Off]		Displays [ON/OFF] condition of EPS indicator.					
FUEL CAP W/L [Off]		Displays [ON/OFF] condition of loose fuel cap warning message.					
PKB SW [On/Off]		Status of parking brake switch.					

< SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description
BUCKLE SW [On/Off]		Status of seat belt buckle switch (LH).
BRAKE OIL SW [On/Off]		Status of brake fluid level switch.
CHG SIG [On/Off]		Displays [ON/OFF] condition of charge warning indicator.
DISTANCE [km] or [Mi]		Displays distance to empty.
OUTSIDE TEMP [°F] or [°C]		Displays the ambient temperature, which is input from ambient sensor.
FUEL LOW SIG [ON/OFF]		Displays [ON/OFF] condition of low-fuel warning signal.
BUZZER [On/Off]	Х	Displays [ON/OFF] condition of buzzer.
FR FOG IND [On/Off]		Displays [ON/OFF] condition of front fog lamp indicator.
TPMS PRESS L [On/Off]		Displays [ON/OFF] condition of check tire pressure warning message.

NOTE:

Some items are not available according to vehicle specification.

WORK SUPPORT

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

WARNING HISTORY

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

W/L ON HISTORY

- Stores histories when warning/indicator lamp is turned on.
- "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 and waiting for 30 seconds.
- 1 39: The number of times the engine was restarted after the 0 condition.
- NO W/L ON HISTORY: Stores NO (0) turning on history of warning/indicator lamp.

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.

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:0000000012542986

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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 [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	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			×	×	×		
Vehicle security system	THEFT ALM			×	×			
RAP system	RETAINED PWR			×				
Signal buffer system	SIGNAL BUFFER			×				
TPMS	AIR PRESSURE MONITOR		×	×	×	×		
Panic alarm system	PANIC ALARM				×			

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Revision: August 2015 WCS-21 2016 Versa Note

DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

BUZZER

BUZZER: CONSULT Function (BCM - BUZZER)

INFOID:0000000012542987

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 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].		

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:0000000012542988

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 Diagnostic 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			×	×	×		
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			×	×	×		
Vehicle security system	THEFT ALM			×		×		
RAP system	RETAINED PWR			×		×		
Signal buffer system	SIGNAL BUFFER			×				
TPMS	AIR PRESSURE MONITOR		×	×	×	×		
Panic alarm system	PANIC ALARM				×			

Revision: August 2015 WCS-23 2016 Versa Note

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DIAGNOSIS SYSTEM (BCM) (WITHOUT INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

BUZZER

BUZZER: CONSULT Function (BCM - BUZZER)

INFOID:0000000012542989

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.
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].		

BCM, COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM, COMBINATION METER

List of ECU Reference

ECU	Reference
	BCS-30, "Reference Value"
ВСМ	BCS-48. "Fail-safe"
(with Intelligent Key system)	BCS-49, "DTC Inspection Priority Chart"
	BCS-50, "DTC Index"
	BCS-101, "Reference Value"
ВСМ	BCS-115, "Fail-safe"
(without Intelligent Key system)	BCS-115, "DTC Inspection Priority Chart"
	BCS-115, "DTC Index"
	MWI-21, "Reference Value"
COMBINATION METER (TYPE A)	MWI-23, "Fail-safe"
(=)	MWI-24, "DTC Index"
	MWI-74, "Reference Value"
COMBINATION METER (TYPE B)	MWI-77, "Fail-safe"
· -/	MWI-77, "DTC Index"

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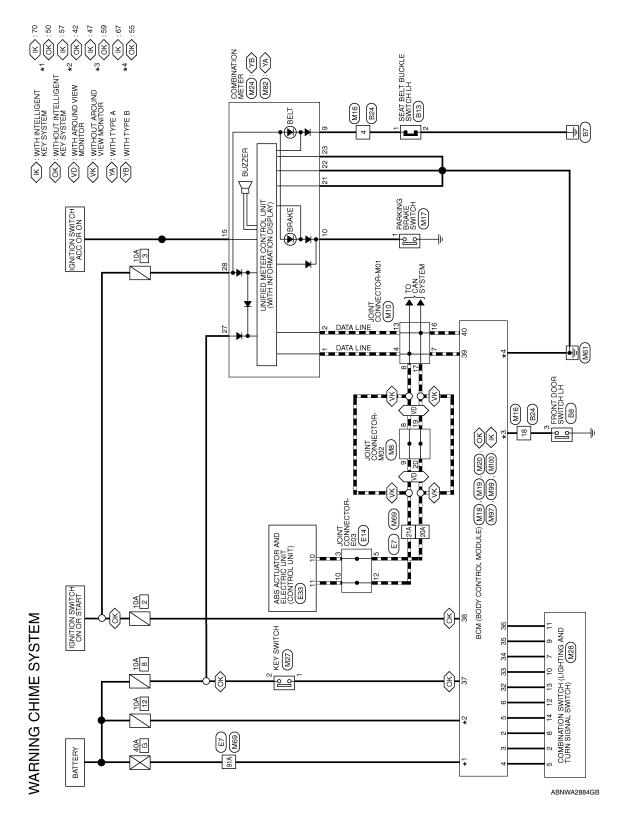
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WIRING DIAGRAM

WARNING CHIME SYSTEM

Wiring Diagram



M18

Connector No.

Connector No.

WARNING CHIME SYSTEM CONNECTORS

		E TO WIRE	TE		9 8 7 6 5 4 3 2 1 21 20 19 18 17 16 15 14 13	Signal Name	ı	I				
	M16	me WIR	or WHI		24 23 22 3	Color of Wire	>	SB				
	Connector No. M16	Connector Name WIRE TO WIRE	Connector Color WHITE	E	HS.	Terminal No. Wire	4	18				
		Connector Name JOINT CONNECTOR-M01		4 9 0 0 1	15 14 13	Signal Name	ı	ı	ı	ı	1	ı
	M10	JOIN.	or BLUE	2 8 7	9 8	Solor of Wire	_	_		۵	۵	۵
ν Σ	Connector No. M10	Connector Nan	Connector Color BLUE		H.S.	Terminal No. Wire	4	7	8	13	16	17
<u>5</u>		•					'	•			•	•
ARINING CHIME STOLEM CONNECTORS		Connector Name JOINT CONNECTOR-M02	EN		15 14 13	Signal Name	ı	ı	ı	I		
	M8	ne JOIN	or GRE	1		Solor of Wire	_	_	<u>ط</u>	۵		
	Connector No.	Connector Nan	Connector Color GREEN		H.S.	Terminal No. Wire	8	6	19	20		

Terminal No.	Color of Wire	Signal Name
32	А	COMBINATION SW OUTPUT 5
33	۸	COMBINATION SW OUTPUT 4
34	Μ	COMBINATION SW OUTPUT 3
35	В	COMBINATION SW OUTPUT 2
36	ГС	COMBINATION SW OUTPUT 1
37	Ь	KEY SW
38	0	IGN SW
39	٦	CAN-H
40	Ь	CAN-L

Connector Name		BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)	
Connector Color	olor WHITE	TE	
H.S.	L		
1 2 3 4 5 21 22 23 24 25	6 7 8	9 10 11 12 13 14 15 16 17 18 19 20 29 30 31 32 33 34 35 36 37 38 39 40	
Terminal No.	Color of Wire	Signal Name	
2	BR	COMBINATION SW INPUT 5	
ო	>	COMBINATION SW INPUT 4	
4	٦	COMBINATION SW INPUT 3	
5	9	COMBINATION SW INPUT 2	
9	В	COMBINATION SW INPUT 1	

BCM (BODY COI MODULE) (WITH INTELLIGENT KE	IE		9 10 11 12 13 1	Signal N	COMBINAT INPUT	COMBINAT INPUT	COMBINAT INPUT	COMBINAT INPUT	COMBINAT
	olor WHITE		6 7 8 26 27 28	Color of Wire	BR	>	٦	9	æ
Connector Name	Connector Color	麻南 H.S.	1 2 3 4 5 21 22 23 24 25	Terminal No.	2	3	4	5	9

Connector Name PARKING BRAKE SWITCH	K		Signal Name	1
me PARK	lor BLAC		Color of Wire	SB
 Connector Na	Connector Color BLACK	南 H.S.	Terminal No.	1

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Connector Name COMBINATION METER (WITH TYPE B) Connector Color WHITE	Connector No.	M24
Connector Color WHITE	Connector Name	COMBINATION METER (WITH TYPE B)
	Connector Color	WHITE

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	-	7													
	2	22	L				_					_			
	က	23					≶								
	4	24					Щ				_	_			
	2	25		<u>e</u>			로				ΞB	≒			
	9	56		Signal Name	Ţ	با	SEAT BELT BUCKLE SW	PKB SW	ACC SW	GND (ILL)	GND (POWER)	GND (CIRCUIT)			
	7	27		<u> </u>	CAN-H	CAN-L	面	(V)	0	=	0		BAT	<u>B</u>	
	8	28		Ina	C	3	ᆸ	출	ŏ	뉟.	1) (9	В	=	
117	6	29		Sig			띪	ш.	٩.	ര	Ħ	吕			
W	11 10	೫					ΙĘ				g	മ			
IN.		32 31					Ш								
Π	12	32		J			S								
	13	33		Color of Wire				_					>	ا س ا	
	14	8		e ĕ Š	_	□	>	SB	ш	В	В	М	R/W	GR	
	15	32		S											
	16	37 36		<u>o</u>											
	20 19 18 17 16 15 14 13	37		Ferminal No.											
اة	18	38		ina	-	N	၈	9	15	21	22	23	27	28	
Ξ. S.	19	88		E						`	-				
71	8	4		டு											

Signal Name	I	I	ı	I	I	ı
Color of Wire	GR	>	LG	ш	Д	g
Terminal No.	6	10	11	12	13	14

Connector No.	M20
Connector Name	Connector Name MODULE) (WITHOUT NAME INTELLIGENT KEY SYSTEM)
Connector Color BLACK	BLACK



3 10 11 12 13 14	Signal Name	ı	I	ı	ı
2 8	Color of Wire	\	Т	×	BR
H.S.	Terminal No.	2	5	7	8

Connector No.	M19
Connector Name	Connector Name MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color WHITE	WHITE
麻 H.S.	[41 42 43 44 45 46 47 48 49] [50 51 52 53 54 55]



Signal Name	BATTERY (FUSE)	BATTERY(F/L)	GND
Color of Wire	\	В	В
Terminal No.	42	20	22

ector No. M27	ector Name KEY SWITCH	ector Color BROWN		nal No. Wire Signal Name	- ×	2 LG –
Connector No.	Connector Name	Connector Color	原 H.S.	Terminal No.	-	2

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Connector No. M82 Connector Name COMBINATION METER	Connector No. M82	A	Connector No. W82	Connector No. M97	Connector Name MODULE) (WITH	_	Connector Color BLACK	H.S.		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	Terminal No. Color of Signal Name	COMBINATION SW	5	3 Y COMBINATION SW INPUT 4	4 COMBINATION SW	J	5 G COMBINATION SW INPUT 2	6 R COMBINATION SW INPUT 1	C	32 P OUTPUT 5	33 V COMBINATION SW OUTPUT 4	34 W COMBINATION SW OUTPUT3	35 GR COMBINATION SW OUTPUT 2	36 LG COMBINATION SW OUTPUT 1	39 L CAN-H	40 P CAN-L	
Nector No. NB2 NB2	Connector No. M82	A Sea Sea	A Sea Sea						6 5 4 3 2	77 07 47 07 07	Name		7-	5	SW	SW	UND JATION)	(POWER)	(CIRCUIT)		z		-				
nector N nector N nector N nector N nector N nector C 2 2 2 2 2 2 2 2 2	Connector No. Connector No	IA A A A A A A A A A	IA A A A A A A A A A	M82		\vdash			13 12 11 10 9 8	97 87 90 10 70 00 +0																	
	IN 1224 11A IN 122A 131A	Name Name	Name Name	Connector No.	Connector Nar	Connector Colc	þ		18 17 16	00 00 80	Terminal No.	-	2	0	10	15	21	22	23	27	28						

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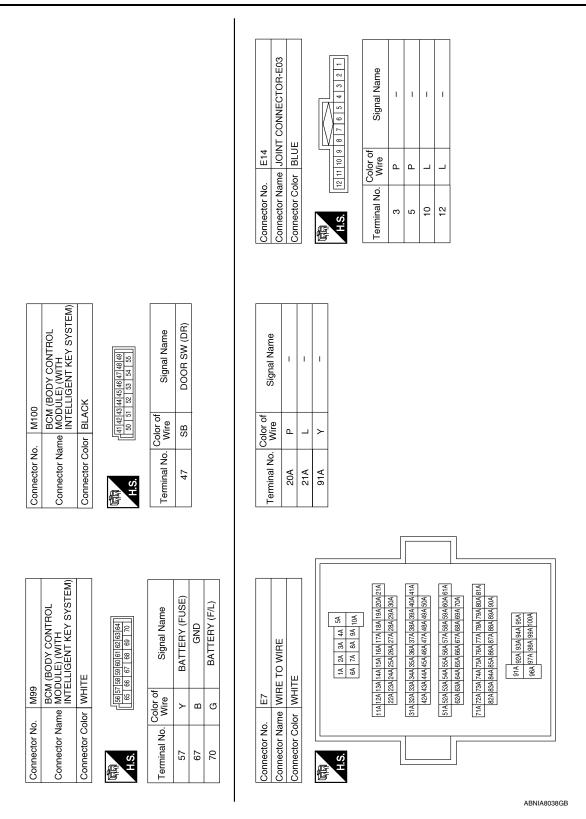
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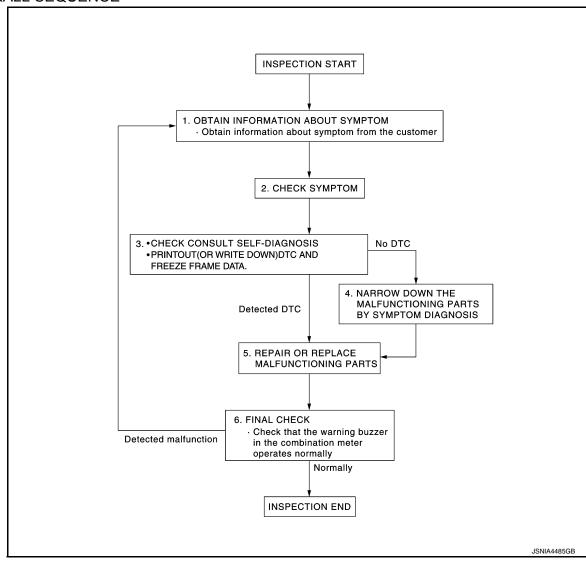
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



DETAILED FLOW

${f 1}$. 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.

$3. \mathsf{CHECK}$ CONSULT SELF-DIAGNOSIS RESULTS

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >	
1. Connect CONSULT and perform self-diagnosis. Refer to MWI-24, "DTC Index" (Type A) or MWI-77, "[
Index" (Type B).When DTC is detected, follow the instructions below:	А
- Record DTC and Freeze Frame Data.	
Are self-diagnosis results normal?	В
YES >> GO TO 4. NO >> GO TO 5.	
4. NARROW DOWN MALFUNCTIONING PARTS BY SYMPTOM DIAGNOSIS	С
Perform symptom diagnosis and narrow down the malfunctioning parts.	
>> GO TO 5.	D
5. REPAIR OR REPLACE MALFUNCTIONING PARTS	
Repair or replace malfunctioning parts. NOTE:	Е
If DTC is displayed, erase DTC after repairing or replacing malfunctioning parts.	F
>> GO TO 6.	Г
6. FINAL CHECK	
Check that the warning buzzer in the combination meter operates normally.	— G
Does it operate normally?	
YES >> Inspection End. NO >> GO TO 1.	Н
NO >> GO TO 1.	
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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT COMBINATION METER (TYPE A)

COMBINATION METER (TYPE A): Diagnosis Procedure

INFOID:0000000012542990

Regarding Wiring Diagram information, refer to MWI-26, "Wiring Diagram".

1.CHECK FUSE

Check that the following fuses are not blown.

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

Is the fuse blown?

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

NO >> GO TO 2.

2.power supply circuit check

- 1. Disconnect combination meter connector.
- 2. Check voltage between combination meter harness connector M82, terminals 27, 28, 15 and ground.

	Terminals		Ignition switch position					
	(+)	()	OFF	ACC	ON	START		
Connector	Terminal	(-)	OH	ACC	ON	STAIN		
	27		Battery voltage	Battery voltage	Battery voltage	Battery voltage		
M82	28	Ground	0V	0V	Battery voltage	Battery voltage		
	15		0V	Battery voltage	Battery voltage	0V		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3.ground circuit check

- Turn ignition switch OFF.
- 2. Disconnect combination meter connector.
- 3. Check continuity between combination meter harness connector M82, terminals 21, 22, 23 and ground.

	Termin	als				
	(+)	()	Continuity			
Connector	Terminal	(–)				
	21					
M82	22	Ground	Yes			
	23					

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connector.

COMBINATION METER (TYPE B)

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

COMBINATION METER (TYPE B): Diagnosis Procedure

INFOID:0000000012542991

Regarding Wiring Diagram information, refer to MWI-79, "Wiring Diagram".

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1.CHECK FUSE

Check that the following fuses are not blown.

	\cup	

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

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Is the fuse blown?

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

NO >> GO TO 2.

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2.POWER SUPPLY CIRCUIT CHECK

Disconnect combination meter connector.

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

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	Terminals			Ignition sv	vitch position	
	(+)	(-)	OFF	ACC	ON	START
Connector	Terminal	(-)	011	ACC	ON	STAIRT
	27		Battery voltage	Battery voltage	Battery voltage	Battery voltage
M24	28	Ground	0V	0V	Battery voltage	Battery voltage
	15		0V	Battery voltage	Battery voltage	0V

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3. GROUND CIRCUIT CHECK

Turn ignition switch OFF.

2. Disconnect combination meter connector.

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

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	Termin	Continuity	
(+)			()
Connector	Terminal	(—)	
	21		
M24	22	Ground	Yes
	23		

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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

Regarding Wiring Diagram information, refer to BCS-52, "Wiring Diagram".

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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.
57	Pattory power cumply	12 (10A)
70	Battery power supply	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 M99.
- 2. Check voltage between BCM connector M99 and ground.

BCM		Ground	Voltago
Connector	Terminal	Giodila	Voltage
M99	57	- Battery voltag	Pattery voltage
	70		Dattery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M99 and ground.

BCM		Ground	Continuity
Connector	Terminal	Ground	Continuity
M99	67	_	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

Regarding Wiring Diagram information, refer to BCS-117, "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.
37		8 (10A)
42	Battery power supply	12 (10A)
50		G (40A)
11	Ignition switch ACC or ON	18 (10A)
38	Ignition switch ON or START	2 (10A)

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

ВСМ		Ground	Ignition switch position		
Connector	Terminal		OFF	ACC	ON
	11	Batter	0 V	- Battery voltage	
M18	37		Battery voltage		
	38		0 V	0 V	Battery voltage
M19	42		Pattory voltago	Pattory voltage	
	50		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.

В	CM	Ground	Continuity
Connector			Continuity
M19	55	_	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

Component Function Check

INFOID:0000000012432690

1. CHECK OPERATION OF METER BUZZER

- 1. Select "BUZZER" of "BCM" using CONSULT.
- 2. Perform "LIGHT WARN ALM" in "Active Test".

Does meter buzzer activate?

YES >> Inspection End.

NO >> GO TO 2.

2.CHECK COMBINATION METER INPUT SIGNAL

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

Monitor item	Condition	Status	
BUZZER	Under the condition of buzzer input	On	
BUZZER	Except above	Off	

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-54, "Removal and Installation" (Type A) or MWI-115, "Removal and Installation" (Type B).

NO >> Replace BCM. Refer to <u>BCS-74</u>, "Removal and Installation" (with Intelligent Key system) or <u>BCS-137</u>, "Removal and Installation" (without Intelligent Key system).

Diagnosis Procedure

INFOID:0000000012432691

1. CHECK POWER SUPPLY OF COMBINATION METER

Check power supply of combination meter. Refer to MWI-43, "COMBINATION METER: Diagnosis Procedure" (Type A) or MWI-98, "COMBINATION METER: Diagnosis Procedure" (Type B).

NOTE:

To identify combination meter type, refer to WCS-3, "Information".

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair power supply circuit of combination meter.

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

TYPE A

TYPE A: Description

INFOID:0000000012432692

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

TYPE A: Component Function Check

INFOID:0000000012432693

1. CHECK COMBINATION METER INPUT SIGNAL

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

Monitor item	Condition	Status
BUCKLE SW	When seat belt LH is fastened	OFF
BUCKLE SW	When seat belt LH is unfastened	ON

Is the inspection result normal?

YES >> Inspection End.

NO >> Refer to WCS-39, "TYPE A: Diagnosis Procedure".

TYPE A: Diagnosis Procedure

INFOID:0000000012432694

Regarding Wiring Diagram information, refer to WCS-26, "Wiring Diagram".

1. CHECK COMBINATION METER INPUT SIGNAL

1. Turn ignition switch ON.

2. Check voltage between combination meter harness connector M82 terminal 9 and ground.

Combina	Combination meter		Condition	Voltage		
Connector	Terminal	Ground	Condition	(Approx.)		
M82	M82 9 —		M82 9		When seat belt LH is fastened	Battery voltage
IVIOZ			When seat belt LH is unfastened	0 V		

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-54, "Removal and Installation" (Type A).

NO >> GO TO 2.

2.CHECK SEAT BELT BUCKLE SWITCH LH CIRCUIT

Turn ignition switch OFF.

2. Disconnect combination meter harness connector M82 and seat belt buckle switch LH harness connector B13.

3. Check continuity between combination meter harness connector M82 terminal 9 and seat belt buckle switch LH harness connector B13 terminal 1.

Combina	Combination meter		Seat belt buckle switch LH		
Connector	Terminal	Connector Terminal		Continuity	
M82	9	B13	1	Yes	

4. Check continuity between combination meter harness connector M82 terminal 9 and ground.

Combina	tion meter	Ground	Continuity	
Connector	Terminal	Giodila	Continuity	
M82	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 LH GROUND CIRCUIT

Check continuity between seat belt buckle switch LH harness connector B13 terminal 2 and ground.

Seat belt bud	ckle switch LH	Ground	Continuity	
Connector	Terminal	Giodila	Continuity	
B13	2	_	Yes	

Is the inspection result normal?

YES >> Check the seat belt buckle switch LH. Refer to SR-35, "Removal and Installation".

NO >> Repair or replace harness or connector.

TYPE A: Component Inspection

INFOID:0000000012432695

1. CHECK SEAT BELT BUCKLE SWITCH LH

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

Terr	minal	Condition	Continuity
1	2	When seat belt is fastened	No
ı	2	When seat belt is unfastened	Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace the seat belt buckle switch LH. Refer to <u>SR-35</u>, "Removal and Installation".

TYPE B

TYPE B: Description

INFOID:0000000012432696

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

TYPE B: Component Function Check

INFOID:0000000012432697

1. CHECK COMBINATION METER INPUT SIGNAL

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

Monitor item	Condition	Status
BUCKLE SW	When seat belt LH is fastened	OFF
	When seat belt LH is unfastened	ON

Is the inspection result normal?

YES >> Inspection End.

NO >> Refer to WCS-40, "TYPE B : Diagnosis Procedure".

TYPE B: Diagnosis Procedure

INFOID:0000000012432698

Regarding Wiring Diagram information, refer to WCS-26, "Wiring Diagram".

1. CHECK COMBINATION METER INPUT SIGNAL

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

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SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Combination meter		Ground	Condition	Voltage
Connector	Terminal	Ground	Condition	(Approx.)
M24	M24 0		When seat belt LH is fastened	Battery voltage
M24 9	_	When seat belt LH is unfastened	0 V	

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-115, "Removal and Installation" (Type B).

NO >> GO TO 2.

2.check seat belt buckle switch lh circuit

- Turn ignition switch OFF.
- 2. Disconnect combination meter harness connector M24 and seat belt buckle switch LH harness connector B13.
- 3. Check continuity between combination meter harness connector M24 terminal 9 and seat belt buckle switch LH harness connector B13 terminal 1.

Combination meter		Seat belt buckle switch LH		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
M24	9	B13	1	Yes	

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

Combina	tion meter	Ground	Continuity	
Connector	Terminal	Ground	Continuity	
M24	9	_	No	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3.check seat belt buckle switch LH ground circuit

Check continuity between seat belt buckle switch LH harness connector B13 terminal 2 and ground.

Seat belt but	ckle switch LH	Ground	Continuity
Connector	Connector Terminal		Continuity
B13	2	_	Yes

Is the inspection result normal?

YES >> Check the seat belt buckle switch LH. Refer to SR-35, "Removal and Installation".

NO >> Repair or replace harness or connector.

TYPE B : Component Inspection

1. CHECK SEAT BELT BUCKLE SWITCH LH

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

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

Is the inspection result normal?

YES >> Inspection End.

Revision: August 2015

>> Replace the seat belt buckle switch LH. Refer to SR-35, "Removal and Installation". NO

> **WCS-41** 2016 Versa Note

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INFOID:0000000012432699

PARKING BRAKE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

PARKING BRAKE SWITCH SIGNAL CIRCUIT

TYPE A

TYPE A: Component Function Check

INFOID:0000000012432700

1. CHECK PARKING BRAKE SWITCH OPERATION

Check that brake warning lamp in combination meter turns ON/OFF when parking brake is actuated.

Is the inspection result normal?

YES >> Inspection End.

NO >> Proceed to diagnosis procedure. Refer to WCS-42, "TYPE A : Diagnosis Procedure".

TYPE A: Diagnosis Procedure

INFOID:0000000012432701

Regarding Wiring Diagram information, refer to WCS-26, "Wiring Diagram".

1. CONNECTOR INSPECTION

- 1. Turn ignition switch OFF.
- 2. Disconnect combination meter and parking brake switch connectors.
- 3. Check connectors and terminals for deformation, disconnection, looseness or damage.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace as necessary.

2.CHECK PARKING BRAKE SWITCH

Check parking brake switch. Refer to WCS-42, "TYPE A: Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

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

3. CHECK PARKING BRAKE SWITCH SIGNAL

(P)With CONSULT.

- 1. Connect combination meter connector and parking brake switch connectors.
- 2. Turn ignition switch ON.
- 3. Select "METER/M&A".
- 4. Monitor "PKB SW" in "Data Monitor" while applying and releasing the parking brake.

Monitor item	Condition	Status
PKB SW	When parking brake is applied	On
	When parking brake is released	Off

Is the inspection result normal?

YES >> Refer to WCS-32, "Work Flow".

NO >> GO TO 4.

4. CHECK PARKING BRAKE SWITCH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect combination meter and parking brake switch connectors.
- Check continuity between combination meter connector M82 terminal 10 and parking brake switch connector M17 terminal 1.

Combina	Combination meter		Parking brake switch		
Connector	Terminal	Connector Terminal		Continuity	
M82	10	M17	1	Yes	

PARKING BRAKE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNO		WITCH SIGNAL CIRCUI		
Oznakia	ation mater			/
Connector	Combination meter		Continuity	,
M82	10	Ground	No	
Is the inspection result no		Ordana	110	E
YES >> Replace comb		VI-54, "Removal and Installation nents.	<u>"</u> (Type A).	(
TYPE A : Componer	nt Inspection		INFOID:000000012432702	
1. CHECK PARKING BRA	AKE SWITCH			
 Turn ignition switch O Disconnect parking br Check continuity betw 		terminal 1 and ground.		Е
Parking brake switch terminal	_	Condition	Continuity	
1	Cround	Parking brake actuated	Yes	F
1	Ground	Parking brake released	No	
TYPE B: Componer 1. CHECK PARKING BRA	AKE SWITCH OPERATION	·	INFOID:000000012432703	ŀ
Is the inspection result not YES >> Inspection En	<u>mal?</u> d.	o <u>WCS-43, "TYPE B : Diagnosis</u>		
TYPE B : Diagnosis				
Regarding Wiring Diagram	n information, refer to WCS	S-26, "Wiring Diagram".		
1.CONNECTOR INSPEC				ľ
	on meter and parking brak	e switch connectors. , disconnection, looseness or da	amage.	W
Is the inspection result not YES >> GO TO 2. NO >> Repair or repl 2.CHECK PARKING BRA	ace as necessary.			

Check parking brake switch. Refer to WCS-44, "TYPE B: Component Inspection".

Is the inspection result normal?

YES >> GO TO 3.

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

3.CHECK PARKING BRAKE SWITCH SIGNAL

With CONSULT.

1. Connect combination meter connector and parking brake switch connectors.

Revision: August 2015 WCS-43 2016 Versa Note

PARKING BRAKE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

- 2. Turn ignition switch ON.
- 3. Select "METER/M&A".
- 4. Monitor "PKB SW" in "Data Monitor" while applying and releasing the parking brake.

Monitor item	Monitor item Condition	
PKB SW	When parking brake is applied	ON
PKB SW	When parking brake is released	OFF

Is the inspection result normal?

YES >> Refer to WCS-32, "Work Flow".

NO >> GO TO 4.

4. CHECK PARKING BRAKE SWITCH CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect combination meter and parking brake switch connectors.
- Check continuity between combination meter connector M24 terminal 10 and parking brake switch connector M17 terminal 1.

Combina	tion meter	Parking b	rake switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M24	10	M17	1	Yes

4. Check continuity between combination meter connector and ground.

Combina	tion meter		Continuity
Connector Terminal		_	Continuity
M24	10	Ground	No

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-115, "Removal and Installation" (Type B).

NO >> Repair or replace malfunctioning components.

TYPE B : Component Inspection

INFOID:0000000012432705

1. CHECK PARKING BRAKE SWITCH

- 1. Turn ignition switch OFF.
- Disconnect parking brake switch connector.
- 3. Check continuity between parking brake switch terminal 1 and ground.

Parking brake switch terminal	_	Condition	Continuity
1	Ground	Parking brake actuated	Yes
		Parking brake released	No

Is the inspection result normal?

YES >> Inspection End.

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

KEY SWITCH SIGNAL CIRCUIT (WITHOUT INTELLIGENT KEY)

< DTC/CIRCUIT DIAGNOSIS >

KEY SWITCH SIGNAL CIRCUIT (WITHOUT INTELLIGENT KEY)

Description INFOID:0000000012432706

Transmits a key switch signal to the BCM.

Component Function Check

INFOID:0000000012432707

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1. CHECK BCM INPUT SIGNAL

Select Data Monitor for BCM and check the KEY ON SW monitor value.

Monitor Item	Condition	Status
KEY ON SW	When key is removed from key cylinder	OFF
	When key is inserted into key cylinder	ON

Is the inspection result normal?

YES >> Inspection End.

NO >> Refer to WCS-45, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012432708

Regarding Wiring Diagram information, refer to WCS-26, "Wiring Diagram".

1. CHECK FUSE

Check if the key switch 10A fuse [No. 8, located in the fuse block (J/B)] is blown.

Is the fuse blown?

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

NO >> GO TO 2.

$oldsymbol{2}$. CHECK BCM INPUT SIGNAL

Check voltage between BCM harness connector M18 terminal 37 and ground.

Terminals				
(+)			Condition	Voltage
BCM connector	Terminal	(-)	00.000	(Approx.)
M18 37		Ground	Key is inserted	Battery voltage
IVI I O	31	Ground	Key is removed	0V

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 3.

3. CHECK KEY SWITCH CIRCUIT

1. Disconnect BCM connector M18 and key switch.

Check continuity between BCM harness connector M18 terminal 37 and key switch harness connector M27 terminal 1.

BCM		Key switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M18	37	M27	1	Yes

Check continuity between BCM harness connector M18 terminal 37 and ground.

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KEY SWITCH SIGNAL CIRCUIT (WITHOUT INTELLIGENT KEY)

< DTC/CIRCUIT DIAGNOSIS >

ВСМ			Continuity
Connector	Terminal	Ground	Continuity
M18	37		No

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK KEY SWITCH POWER SUPPLY CIRCUIT

Check voltage between key switch harness connector M27 terminal 2 and ground.

Terminals			
(+)		()	Voltage (Approx.)
Key switch	Terminal	(-)	() ,
M27	2	Ground	Battery voltage

Is the inspection result normal?

YES >> Replace key switch.

NO >> Repair or replace harness.

Component Inspection

INFOID:0000000012432709

1. CHECK KEY SWITCH

- Turn ignition switch OFF.
- 2. Disconnect key switch.
- 3. Check continuity between key switch terminals 1 and 2.

Terr	minal	Condition	Continuity
1 2	When key is removed from key cylinder	No	
	When key is inserted into key cylinder	Yes	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace key switch.

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

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

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

Description

- 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:0000000012432711

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NOTE:

To identify combination meter type, refer to WCS-3, "Information".

1. CHECK PARKING BRAKE WARNING LAMP

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

Condition	Seat belt 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 <u>MWI-54, "Removal and Installation"</u> (Type A) or <u>MWI-115, "Removal and Installation"</u> (Type B).

NO >> GO TO 2.

2.CHECK PARKING BRAKE SWITCH SIGNAL CIRCUIT

Check the parking brake switch signal circuit. Refer to <u>WCS-42</u>, "TYPE A: <u>Diagnosis Procedure"</u> (Type A) or <u>WCS-43</u>, "TYPE B: <u>Diagnosis Procedure"</u> (Type B).

Is the inspection result normal?

YES >> GO TO 3.

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NO >> Repair or replace harness or connector.

3.CHECK PARKING BRAKE SWITCH

Check the parking brake switch. Refer to <u>WCS-43</u>, "TYPE A: Component Inspection" (Type A) or <u>WCS-44</u>, "TYPE B: Component Inspection" (Type B).

Is the inspection result normal?

YES >> Replace combination meter. Refer to <u>MWI-54, "Removal and Installation"</u> (Type A) or <u>MWI-115.</u> "Removal and Installation" (Type B).

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

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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:000000012432712

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

Diagnosis Procedure

INFOID:0000000012432713

NOTE:

To identify combination meter type, refer to WCS-3, "Information".

1. CHECK WARNING CHIME OPERATION

- 1. Select "BUZZER" of "BCM" using CONSULT.
- Perform "SEAT BELT WARN TEST" in "Active Test".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace combination meter. Refer to MWI-54, "Removal and Installation" (Type A) or MWI-115, "Removal and Installation" (Type B).

2.CHECK SEAT BELT WARNING LAMP

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

Condition	Seat belt warning lamp
Driver seat belt fastened	OFF
Driver seat belt not fastened	ON

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-74</u>, "Removal and Installation" (with Intelligent Key system) or <u>BCS-137</u>, "Removal and Installation" (without Intelligent Key system).

NO >> GO TO 3.

3.CHECK SEAT BELT BUCKLE SWITCH LH CIRCUIT

Check the seat belt buckle switch LH circuit. Refer to <u>WCS-39</u>, "TYPE A: <u>Diagnosis Procedure"</u> (Type A) or <u>WCS-40</u>, "TYPE B: <u>Diagnosis Procedure"</u> (Type B).

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 <u>WCS-40</u>, "TYPE A: Component Inspection" (Type A) or <u>WCS-41</u>, "TYPE B: Component Inspection" (Type B).

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-54, "Removal and Installation" (Type A) or MWI-115, "Removal and Installation" (Type B).

NO >> Replace the seat belt buckle switch LH. Refer to SR-35, "Removal and Installation".

THE LIGHT REMINDER WARNING DOES NOT SOUND

THE EIGHT REMINDER WARRING BOLD NOT GOORD	
< SYMPTOM DIAGNOSIS >	
THE LIGHT REMINDER WARNING DOES NOT SOUND	А
Description INFOID:0000000012432714	\wedge
Light reminder warning chime does not sound even though headlamps are illuminated.	В
Diagnosis Procedure	
1. CHECK COMBINATION SWITCH (LIGHTING SWITCH) OPERATION	С
Check that the headlamps operate normally by operating the combination switch (lighting switch).	
Do they operate normally?	D
YES >> GO TO 2. NO >> Refer to WCS-32, "Work Flow".	
2.CHECK FRONT DOOR SWITCH LH SIGNAL CIRCUIT	Е
Check the front door switch LH signal circuit. Refer to <u>DLK-98</u> , " <u>Diagnosis Procedure</u> " (with Intelligent Key system) or <u>DLK-232</u> , " <u>Diagnosis Procedure</u> " (without Intelligent Key system).	
Is the inspection result normal?	F
YES >> GO TO 3. NO >> Repair or replace harness or connector.	
3.CHECK FRONT DOOR SWITCH LH	G
Check the front door switch LH. Refer to <u>DLK-99</u> , " <u>Component Inspection</u> " (with Intelligent Key system) or <u>DLK-234</u> , " <u>Component Inspection</u> " (without Intelligent Key system). Is the inspection result normal?	Н
YES >> Replace BCM. Refer to BCS-74, "Removal and Installation" (with Intelligent Key system) or BCS-	
NO > Replace front door switch LH. Refer to <u>DLK-181</u> , " <u>Removal and Installation</u> " (with Intelligent Key system). No by Replace front door switch LH. Refer to <u>DLK-181</u> , " <u>Removal and Installation</u> " (with Intelligent Key system) or <u>DLK-308</u> , " <u>Removal and Installation</u> " (without Intelligent Key system).	I
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THE KEY WARNING DOES NOT SOUND (WITHOUT INTELLIGENT KEY)

< SYMPTOM DIAGNOSIS >

THE KEY WARNING DOES NOT SOUND (WITHOUT INTELLIGENT KEY)

Description INFOID:0000000012432716

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 (front door switch LH ON)

Diagnosis Procedure

INFOID:0000000012432717

1. CHECK BCM INPUT SIGNAL

- Connect CONSULT.
- Select the "Data Monitor" of "BCM (BUZZER)" and check the "KEY ON SW" monitor value.

Monitor item	Condition	Status
KEY ON SW	Under the condition of buzzer input	On
	Except above	Off

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-137, "Removal and Installation".

NO >> GO TO 2.

2.CHECK KEY SWITCH SIGNAL CIRCUIT

Check the key switch signal circuit. Refer to WCS-45, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3. CHECK KEY SWITCH

Check the key switch. Refer to WCS-46, "Component Inspection".

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-137, "Removal and Installation".

NO >> Replace key switch.