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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 collisions. Information necessary to service the system safely is included in the SR and SB sections 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.

Precaution for Work

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
- Water soluble dirt:
- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.
- Oily dirt:
- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

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## **PREPARATION**

## < PREPARATION >

# **PREPARATION**

## **PREPARATION**

# Special Service Tool

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The actual shape of the tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name		Description	
 (J-46534) Trim tool set	AWJIA0483ZZ	Removing trim components	

## Commercial Service Tools

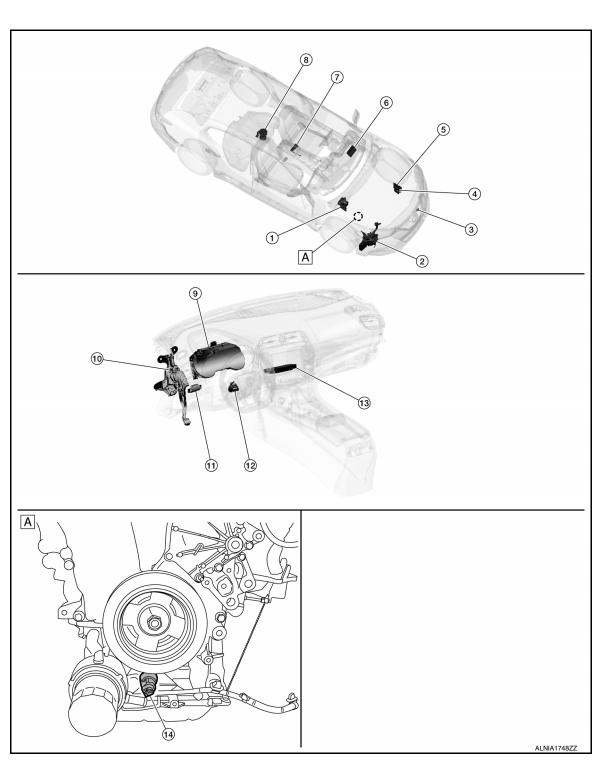
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Tool name		Description
Power tool		Loosening nuts, screws and bolts
	PIIB1407E	

# SYSTEM DESCRIPTION

COMPONENT PARTS METER SYSTEM

METER SYSTEM : Component Parts Location



A. View of front engine assembly (view with engine removed)

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## **COMPONENT PARTS**

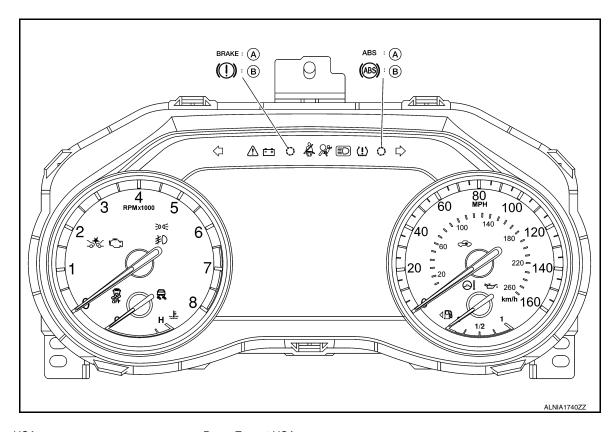
## < SYSTEM DESCRIPTION >

No.	Component	Function		
1.	ABS actuator and electric unit (control unit)	<ul> <li>Transmits each signal to the combination meter via CAN communication.</li> <li>Refer to <u>BRC-184, "System Description"</u> (with ICC) or <u>BRC-14, "System Description"</u> (without ICC).</li> <li>Refer to <u>BRC-10, "Component Parts Location"</u> for detailed installation location.</li> </ul>		
2.	Washer fluid level switch	<ul> <li>Transmits the washer fluid level switch signal to the combination meter.</li> <li>Refer to <u>WW-6</u>, "<u>Component Parts Location</u>" for detailed installation location.</li> </ul>		
3.	Ambient sensor	<ul> <li>Transmits the ambient sensor signal to the A/C auto amp.</li> <li>Refer to HAC-9. "Component Parts Location" for detailed installation location.</li> </ul>		
4.	TCM	<ul> <li>Transmits each signal to the combination meter via CAN communication.</li> <li>Refer to TM-27, "CVT CONTROL SYSTEM: System Description".</li> <li>Refer to TM-12, "CVT CONTROL SYSTEM: Component Parts Location" for detailed installation location.</li> </ul>		
5.	ECM	<ul> <li>Transmits each signal to the combination meter via CAN communication. Refer to EC-33, "ENGINE CONTROL SYSTEM: System Description".</li> <li>Refer to EC-15, "ENGINE CONTROL SYSTEM: Component Parts Location" for detailed installation location.</li> </ul>		
6.	ВСМ	<ul> <li>Transmits each signal to the combination meter via CAN communication.</li> <li>Refer to <u>BCS-7</u>, "<u>BODY CONTROL SYSTEM</u>: <u>System Description</u>".</li> <li>Refer to <u>BCS-5</u>, "<u>BODY CONTROL SYSTEM</u>: <u>Component Parts Location</u>" for detailed installation location.</li> </ul>		
7.	Seat belt buckle switch LH	Transmits the seat belt buckle switch LH signal to the combination meter.		
8.	Fuel level sensor unit and fuel pump (fuel level sensor)	Transmits the fuel level sensor signal to the combination meter.		
9.	Combination meter	Refer to MWI-9, "METER SYSTEM: System Description".		
10.	Parking brake switch	Transmits the parking brake switch signal to the combination meter.		
11.	Meter control switch	Refer to MWI-17, "Switch Name and Function".		
12.	Steering switches	Refer to MWI-17, "Switch Name and Function".		
13.	A/C auto amp.	<ul> <li>Transmits the ambient sensor signal to the combination meter via CAN communication.</li> <li>Refer to <u>HAC-9</u>, "<u>Component Parts Location</u>" for detailed installation location.</li> </ul>		
14.	Engine oil pressure sensor	Transmits the engine oil pressure sensor signal to the ECM.		

METER SYSTEM : Design

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ARRANGEMENT OF COMBINATION METER



A: USA B: Except USA

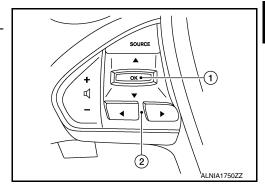
### **METER SYSTEM: Combination Meter**

The combination meter controls the following items according to the signals received from each unit via CAN communication and the signals from switches and sensors:

- Speedometer
- Tachometer
- Engine coolant temperature gauge
- · Fuel gauge
- Indicator lamps
- Warning lamps
- Meter illumination control
- · Meter effect function
- · Information display

## METER SYSTEM: Steering Switches

- · The steering switches are located on the steering wheel.
- The steering switch transmits the steering switch signal to the combination meter.



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### **COMPONENT PARTS**

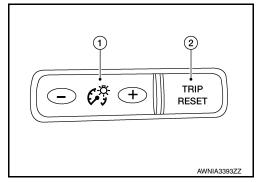
### < SYSTEM DESCRIPTION >

No.	Switch name	Operation	Description
1.	Enter/Up/Down switch	Press	The information display settings can be changed.
2.	Back or forward switch	FIESS	

## METER SYSTEM: Meter Control Switch

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- The meter control switch is located on the instrument lower panel LH.
- The meter control switch transmits the following signals to the combination meter:
- Trip reset switch signal
- Illumination control switch signal (+)
- Illumination control switch signal (-)



No.	Switch name	Operation	Description
1.	Illumination control switch	Press	The illumination level of the back light of the combination meter can be adjusted.
2.	Trip reset switch	Press	<ul> <li>The trip meter can be switched between A and B.</li> <li>Trip meter A/B can be reset by pressing and holding the trip reset switch.</li> <li>A trip computer value displayed on the information display can be reset by pressing and holding the trip reset switch for 1 second or more.</li> <li>All trip computer values can be reset by pressing and holding the trip reset switch for 3 seconds or more.</li> </ul>

## **SYSTEM**

## METER SYSTEM

## METER SYSTEM: System Description

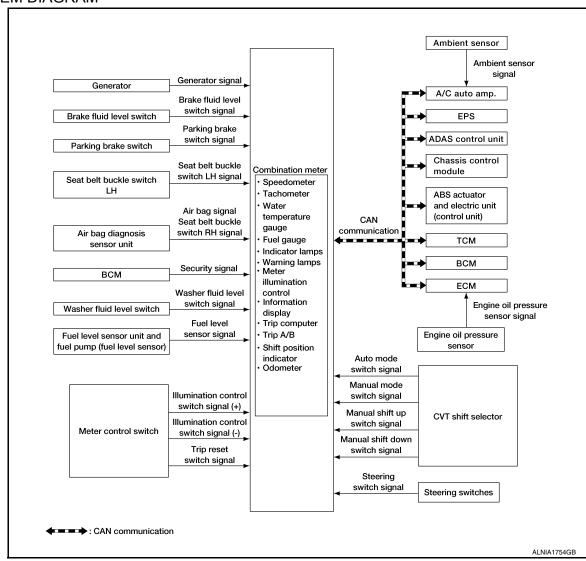
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#### SYSTEM DIAGRAM



## Combination Meter Input Signal (CAN Communication Signal)

Transmit unit	Signal name	MW
ABS actuator and electric unit (control unit)	Vehicle speed signal	
	ABS warning lamp signal	
	VDC warning lamp signal	0
	VDC OFF indicator lamp signal	
	Brake warning lamp signal	P

Transmit unit	Signal name
	Dimmer signal
	Position light request signal
	Door switch signal
	Trunk switch signal
	Front fog light request signal
	High beam request signal
	Meter display signal
BCM	Sleep wake up signal
	Buzzer output signal
	Tire pressure data signal
	Key ID signal
	Turn indicator signal
	TPMS malfunction warning lamp signal
	Starter relay status signal
	Low tire pressure warning lamp signal
TCM	Shift position signal
TOM	CVT error warning lamp signal
	Engine speed signal
	ASCD status signal
	Engine coolant temperature signal
ECM	Fuel consumption monitor signal
EGIVI	Malfunctioning indicator lamp signal
	Engine status signal
	Engine oil pressure sensor signal
	Fuel-filler cap warning display signal
	Active ride control signal
Chassis control module	Active trace control signal
Chassis control module	Active engine brake control signal
	Chassis control system error signal
A/C auto amp.	Ambient sensor signal
	BSW warning lamp signal
ADAS control unit	ICC warning lamp signal
	FEB warning lamp signal

### **DESCRIPTION**

#### **Combination Meter**

The combination meter controls the following items according to the signals received from each unit via CAN communication and the signals from switches and sensors:

- Speedometer
- Tachometer
- Engine coolant temperature gauge
- Fuel gauge
- Warning lamps
- Indicator lamps
- Meter illumination control
- Meter effect function
- Information display

### **SYSTEM**

### < SYSTEM DESCRIPTION >

The combination meter incorporates a buzzer function that sounds an audible alarm with the integrated buzzer. Refer to <a href="https://www.wcs-5">WCS-5</a>, "WARNING CHIME SYSTEM: System Description" for further details.

The combination meter includes an on board diagnosis function.

The combination meter can be diagnosed with CONSULT.

### METER CONTROL FUNCTION LIST

	System	Description	Reference
	Speedometer	Indicates vehicle speed.	MWI-12. "SPEEDOME- TER: System Description"
	Tachometer	Indicates engine speed.	MWI-13. "TA- CHOMETER: System Descrip- tion"
Measuring in- struments	Engine coolant temperature gauge	Indicates engine coolant temperature.	MWI-13. "EN- GINE COOLANT TEMPERA- TURE GAUGE : System Descrip- tion"
	Fuel gauge	Indicates fuel level.	MWI-13, "FUEL GAUGE : Sys- tem Description"
Information display		The information display displays status according to system malfunction or vehicle condition.	MWI-15. "IN- FORMATION DISPLAY: Sys- tem Description"
Meter illumina- tion control	Meter illumination control function	Switches back and forth between daytime mode and nighttime mode according to a light switch position.	MWI-14. "METER ILLU-
	Back light illumination control function	The operation of the illumination control switch allows the brightness adjustment of meter illumination.	MINATION CONTROL: System Description"
Meter effect function	Engine-start effect function	Controls pointers of combination meter, back light illumination and information display at engine start to produce illumination effects.	MWI-14. "METER EF- FECT FUNC-
	Driver welcome function	Controls meter illumination to produce illumination effects when getting in the vehicle.	TION : System Description"

### METER SYSTEM: Fail-safe

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

Function	Specifications	
Speedometer		
Tachometer	Reset to zero by suspending communication.	
Engine coolant temperature gauge		
Meter illumination control	When suspending communication, it changes to nighttime mode.	
Buzzer	Turns OFF by suspending communication.	

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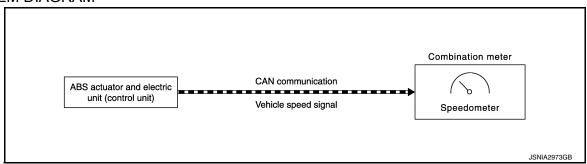
F	Function	Specifications	
	Current fuel consumption		
	Average fuel consumption		
	Average vehicle speed	The last result calculated during normal condition is indicated	
	Range (Distance to empty)		
	Driving distance		
	Door open warning		
	Trunk open warning		
Information display	Low tire pressure warning		
	Parking brake release warning	The display turns OFF by evenending company insting	
	Fuel-filler cap warning	The display turns OFF by suspending communication.	
	Oil pressure warning		
	CVT error warning lamp	-	
	BSW warning		
	Odo/trip meter	An indicated value is maintained at communications blackout	
	Shift selector position indicator	The indicator turns OFF by suspending communication.	
	ABS warning lamp		
	Brake warning lamp	1	
	EPS warning lamp		
	VDC warning lamp	Towns ON his supposed from supposed from	
	FEB warning lamp	Turns ON by suspending communication.	
	Malfunction indicator lamp		
\\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Air bag warning lamp		
Warning lamp/indicator lamp	Charge warning lamp	-	
	VDC OFF indicator lamp		
	High beam indicator lamp	1	
	Turn signal indicator lamp	Turns OFF by suspending communication.	
	Position lamp indicator lamp		
	Front fog lamp indicator lamp		
	Low tire pressure warning lamp	After blinking for 1 minute, the lamp remains ON.	

## **SPEEDOMETER**

## SPEEDOMETER: System Description

INFOID:0000000012227890

### SYSTEM DIAGRAM



## **DESCRIPTION**

The ABS actuator and electric unit (control unit) receives each wheel speed sensor signal and provides a vehicle speed signal to the combination meter via CAN communication lines.

### **TACHOMETER**

## **TACHOMETER: System Description**

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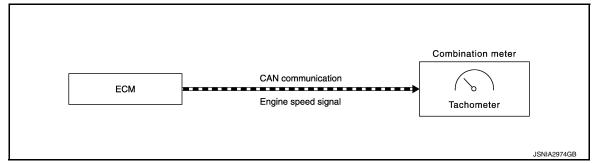
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#### SYSTEM DIAGRAM



#### DESCRIPTION

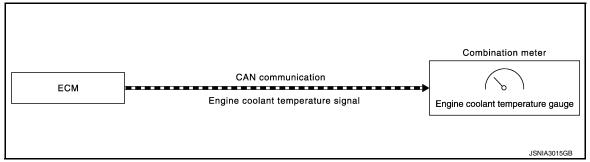
The crank position sensor sends a crankshaft position signal to the ECM. The ECM provides an engine speed signal to the combination meter via CAN communication lines. The tachometer indicates engine speed in revolutions per minute (rpm).

### ENGINE COOLANT TEMPERATURE GAUGE

## ENGINE COOLANT TEMPERATURE GAUGE: System Description

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### SYSTEM DIAGRAM



#### DESCRIPTION

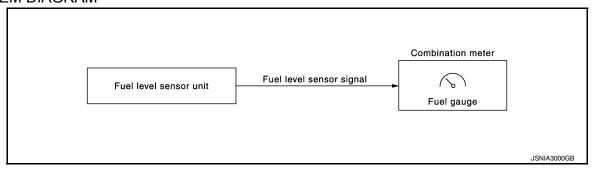
The engine coolant temperature sensor sends an engine coolant temperature signal to the ECM. The ECM provides an engine coolant temperature signal to the combination meter via CAN communication lines. The engine coolant temperature gauge indicates the engine coolant temperature.

#### **FUEL GAUGE**

## FUEL GAUGE: System Description

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#### SYSTEM DIAGRAM



#### DESCRIPTION

The fuel level sensor unit sends a variable resistor signal to the combination meter. The fuel gauge indicates the approximate fuel level in the fuel tank.

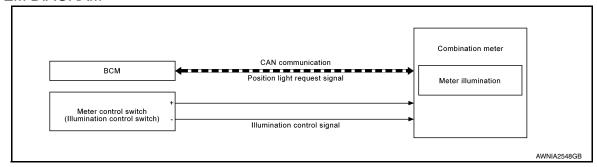
## METER ILLUMINATION CONTROL

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# METER ILLUMINATION CONTROL: System Description

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### SYSTEM DIAGRAM



#### **DESCRIPTION**

#### Meter Illumination Control Function

The operation of the illumination control switch changes brightness of the meter illumination.

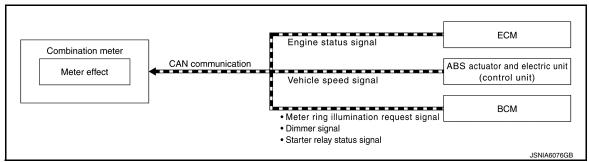
Meter illumination	The number of adjustable steps
Daytime	21
Nighttime	21

## METER EFFECT FUNCTION

## METER EFFECT FUNCTION: System Description

INFOID:0000000012227895

#### SYSTEM DIAGRAM



#### **ENGINE-START EFFECT FUNCTION**

When recognizing an engine start, the combination meter controls the following items for producing the effect:

- Speedometer
- Tachometer
- · Engine coolant temperature gauge
- Fuel gauge
- Meter illumination

Meter and Illumination Operations During Engine-start Effect

The combination meter controls the following items during the engine-start effect:

Control item		Operation	
Speedometer		Sweeps the pointer.	
Tachometer		Sweeps the pointer.	
Engine coolant temperature gauge		Stops the pointer.	
Fuel gauge		Stops the pointer.	
Pointers		Turns on the illumination at the effect level.	
Meter illumination	Information display	Turns on the illumination at the normal brightness level.	
Other than those a		Increases the brightness to the effect level in stages.	

#### NOTE:

The pointers are stopped and illumination is turned off while cranking the engine.

#### **Engine Start Judgment**

The combination meter judges engine-start and activates the engine-start effect only once when the following operational conditions are all satisfied:

Condition		
Ignition switch	ON position	
Vehicle speed	Less than 0.6 MPH (1 km/h)	
Engine state	Other than the time of cranking the engine	
Engine state	500 rpm or more	
Information display (SETTING)	The setting of "EFFECT" is ON	

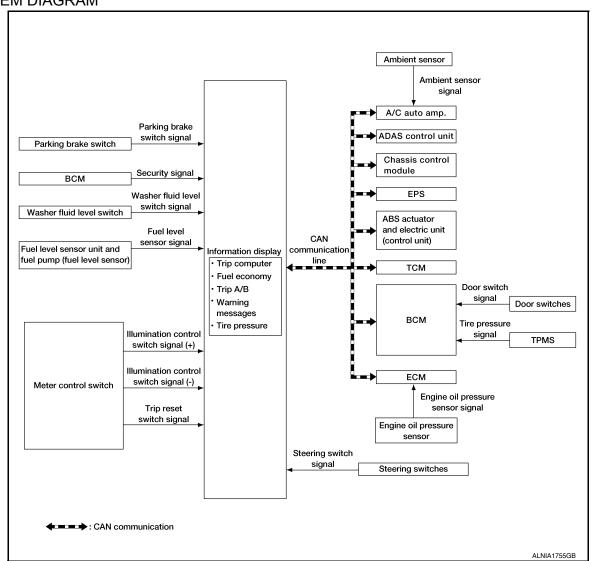
#### NOTE:

Engine-start effect exits when any of the above operational conditions are canceled during the engine-start effect.

### INFORMATION DISPLAY

## INFORMATION DISPLAY: System Description

## SYSTEM DIAGRAM



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#### < SYSTEM DESCRIPTION >

#### **FUNCTION**

The information display can indicate the following items:

- Outside air temperature
- Trip computer
- Intelligent Key operation information
- Odometer
- Warning/Indication messages (door open, trunk open, low oil pressure, I-Key, low fuel, low washer fluid, release parking brake, low tire pressure and loose fuel cap).

#### **OUTSIDE AIR TEMPERATURE INDICATION**

This indication displays the ambient temperature based on signal received from the A/C auto amp. via CAN communication lines.

#### LOOSE FUEL CAP MESSAGE

The LOOSE FUEL CAP message will display in the information display when the fuel-filler cap is not tightened correctly. The message will turn off as soon as the ECM detects the fuel-filler cap is properly tightened. The ECM provides a loose fuel cap signal to the combination meter via CAN communication lines.

#### LOW TIRE PRESSURE WARNING

This warning appears when the BCM detects low inflation pressure or a system malfunction. The BCM sends a signal to the combination meter via CAN communication lines to illuminate the low tire pressure warning lamp. In addition, a warning message will be displayed in the vehicle information display.

#### DOOR OPEN WARNING

This warning appears when the ignition switch is ON and the door is open. The BCM receives a door switch signal from the door switch of the open door. The BCM sends the door switch signal to the combination meter via CAN communication lines.

#### TRUNK OPEN WARNING

This warning appears when the ignition switch is ON and the trunk is opened. The BCM receives a trunk open switch signal from the trunk lamp switch. The BCM sends the trunk lamp switch signal to the combination meter via CAN communication lines.

#### LOW FUEL WARNING

This warning appears when the fuel level in the fuel tank is low.

#### LOW WINDSHIELD WASHER FLUID WARNING

When the windshield washer fluid level is low, the washer fluid level switch provides a ground signal to the combination meter and the warning is displayed. Once fluid is added, the switch opens and the warning is no longer displayed.

#### RELEASE PARKING BRAKE WARNING

When the parking brake is applied, the parking brake switch provides a ground signal to the combination meter. When the vehicle speed is greater than 4 MPH (7 km/h), the message is displayed and the warning chime sounds.

#### LOW OIL PRESSURE WARNING

The low oil pressure warning appears in the information display when the combination meter receives a low engine oil pressure signal from the ECM via CAN communication lines.

#### WARNING CHECK INDICATION

The combination meter can cause an interruption on the information display to indicate a warning, based on signals received from each unit and switch.

Refer to Owner's Manual for additional information on the information display items.

## **OPERATION**

## Switch Name and Function

### STEERING SWITCHES

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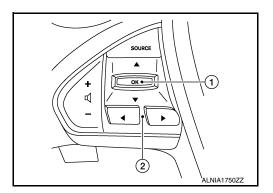
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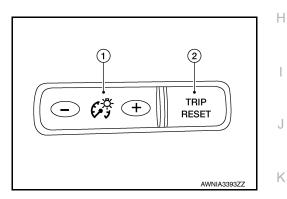
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No.	Switch name	Operation	Description
1.	Enter/Up/Down switch	Press	The information display settings can be changed.
2.	Back or forward switch	Fiess	

### METER CONTROL SWITCH



No.	Switch name	Operation	Description
1.	Illumination control switch	Press	The illumination level of the back light of the combination meter can be adjusted.
2.	Trip reset switch	Press	<ul> <li>The trip meter can be switched between A and B.</li> <li>Trip meter A/B can be reset by pressing and holding the trip reset switch.</li> <li>A trip computer value displayed on the information display can be reset by pressing and holding the trip reset switch for 1 second or more.</li> <li>All trip computer values can be reset by pressing and holding the trip reset switch for 3 seconds or more.</li> </ul>

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Revision: October 2015 MWI-17 2016 Maxima NAM

#### < SYSTEM DESCRIPTION >

## DIAGNOSIS SYSTEM (COMBINATION METER)

## On Board Diagnosis Function

INFOID:0000000012227898

#### COMBINATION METER SELF-DIAGNOSIS MODE

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

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

## STARTING COMBINATION METER SELF-DIAGNOSIS MODE

#### NOTE:

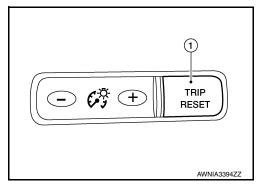
- Check combination meter power supply and ground circuits if self-diagnosis mode does not start. Refer to
   <u>MWI-50, "COMBINATION METER: Diagnosis Procedure"</u>. Replace combination meter if power supply and
   ground circuits are found to be normal and self-diagnosis mode does not start. Refer to <u>MWI-68, "Removal</u>
   <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.

#### How to Initiate Self-Diagnosis Mode

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

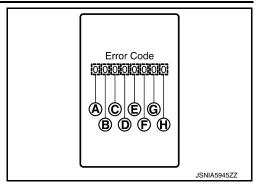


If the trip reset switch is not operated for 20 seconds or more, the self-diagnosis mode is automatically canceled.



Test order	Test item	Description
1	Work instruction code	
2	Part number	
3	Software code	This items is displayed but not you
4	EEPROM code	This item is displayed, but not used.
5	Hardware code	
6	P.C.B code	
7	Circuit check	The pointer of the following items moves from 0 to MAX twice:  • Speedometer  • Tachometer  • Engine coolant temperature gauge  • Fuel gauge  NOTE:  If any of the pointers does not sweep, replace combination meter.
8	Color check	Performs the color check of the information display.
9	Error code	Displays the error code of the following items:  • Speedometer  • Tachometer  • Engine coolant temperature gauge  • Fuel gauge  • Meter control switch
10	Warning/indicator lamp check	All warning/indicator lamps illuminate.

### < SYSTEM DESCRIPTION >



	Item	Code	Description	Action to take/Reference		
		0	Normal	_		
A 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 MWI-29, "DTC Index".		
		0	Normal	_		
B	Tachometer	1	An engine speed signal cannot be received from ECM.	Perform "Self Diagnostic Result" of "ECM." Refer to MWI-29, "DTC Index".		
				0	Normal	_
©	Fuel gauge	1	Fuel gauge circuit is shorted.	Refer to MWI-54, "Component Function		
		2	Fuel gauge circuit is open.	Check".		
		0	Normal	_		
© Engine coolant temperature gauge	1	An engine coolant temperature signal cannot be received from ECM.	Perform "Self Diagnostic Result" of "ECM." Refer to MWI-29, "DTC Index".			
		0	Normal	_		
	_	1	When judging that the illumination control switch signal circuit is shorted for 5 minutes or more.			
Meter control switch	2	When judging that the trip reset switch signal circuit is shorted for 5 minutes or more.	Refer to MWI-52, "Diagnosis Procedure".			
		3	When judging that both switch signal circuit are shorted for 5 minutes or more.			
(F)	_	0	Displays "0" constantly.	<del>-</del>		
G	_	0	Displays "0" constantly.	_		
$\oplus$	_	0	Displays "0" constantly.	_		

How to Reset Error Code

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

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

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## < SYSTEM DESCRIPTION >

# CONSULT Function (METER/M&A)

INFOID:0000000012227899

### **APPLICATION ITEMS**

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

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

### **SELF DIAG RESULT**

Refer to MWI-29, "DTC Index".

### **DATA MONITOR**

Display Item List

X: Applicable

Display item [Unit]	MAIN SIGNALS	Description
SPEED METER	Х	Displays the value of vehicle speed signal.
SPEED OUTPUT [mph or km/h]	Х	Vehicle speed signal value transmitted to other units via CAN communication.
ODO OUTPUT [mph or km/h]		Odometer signal value transmitted to other units via CAN communication.
TACHO METER [rpm]	Х	Value of the engine speed signal received from ECM via CAN communication.
FUEL METER [L]	Х	Fuel level indicated on combination meter.
W TEMP METER [°F] or [°C]	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 message in the information display.
TRUNK/GLAS-H [On/Off]		Displays [ON/OFF] condition of trunk warning message in the information display.
HI-BEAM IND [On/Off]		Displays [ON/OFF] condition of high beam indicator.
TURN IND [On/Off]		Displays [ON/OFF] condition of turn indicator.
LIGHT IND [On/Off]		Displays [ON/OFF] condition of light indicator.
FR FOG IND [On/Off]		Displays [ON/OFF] condition of front fog lamp indicator.
OIL W/L [On/Off]		Displays [ON/OFF] condition of low oil pressure warning message in the information display.

## < SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description	
MIL [On/Off]		Displays [ON/OFF] condition of malfunction indicator.	
BA W/L [On/Off]		Displays [ON/OFF] condition of FEB warning lamp indicator.	
ATC/T-AMT W/L [On/Off]		Displays [ON/OFF] condition of CVT error warning message in the information display.	
SPORT IND [On/Off]		Displays [ON/OFF] condition of SPORT indicator in the information display.	
FUEL W/L [On/Off]		Displays [ON/OFF] condition of low-fuel warning message in the information display.	
WASHER W/L [On/Off]		Displays [ON/OFF] condition of low washer fluid warning message in the information display.	
AIR PRES W/L [On/Off]		Displays [ON/OFF] condition of tire pressure warning lamp.	
KEY G/Y W/L [On/Off]		Displays [ON/OFF] condition of key green warning lamp.	
EPS W/L [On/Off]		Displays [ON/OFF] condition of EPS warning indicator.	
LCD		Displays the value of Intelligent Key system message indication.	
ACC TARGET [On/Off]		Displays [ON/OFF] condition of vehicle ahead detection indicator in the information display.	
ACC DISTANCE [Off, Short, Middle, Long]		Displays [Off, Short, Middle, Long] condition of set distance indicator in the information display.	
SHIFT IND [P, R, N, D]		Displays shift selector position.	
FUEL CAP W/L [On/Off]		Displays [ON/OFF] condition of loose fuel cap warning message in the information display.	
PKB SW [On/Off]		Displays [ON/OFF] condition of parking brake switch.	
BUCKLE SW [On/Off]		Displays [ON/OFF] condition of seat belt buckle switch LH.	
BRAKE OIL SW [On/Off]		Displays [ON/OFF] condition of brake fluid level switch.	
DISTANCE [Mi] or [km]		Displays distance to empty.	
OUTSIDE TEMP [°F or °C]		Displays the ambient air temperature which is input from the ambient sensor.	
FUEL LOW SIG [On/Off]		Displays [ON/OFF] condition of low-fuel warning signal.	
BUZZER [On/Off]	Х	Buzzer status (in the combination meter) is detected from the buzzer output signal received from each unit via CAN communication and the warning output condition of the combination meter.	
BATTERY CIRCUIT STATUS [Normal/Open]		Displays [Normal/Open] condition of battery power supply circuit.	
TPMS PRESS L [On/Off]		Displays [ON/OFF] condition of tire pressure low message in the information display.	
BSW IND [On/Off]		Displays [ON/OFF] condition of blind spot warning indicator.	
CHASSIS CONTROL WARN [On/Off]		Displays [ON/OFF] condition of chassis control system error warning message in the information display.	

**WORK SUPPORT** 

### < SYSTEM DESCRIPTION >

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/Indicator lamp diagnosis	

#### WARNING HISTORY

#### Special menu

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

#### W/L ON HISTORY

- "W/L ON HISTORY" indicates the "TIME" when the warning/indicator lamp is turned on.
- The "TIME" above is:
- 0: The condition that the warning/indicator lamp has been turned on 1 or more times after starting the engine and waiting for 30 seconds.
- 1 39: The number of times the engine was restarted after the 0 condition.
- NO W/L ON HISTORY: No warning/indicator lamp history is stored.

#### NOTE:

- "W/L ON HISTORY" is not stored for approximately 30 seconds after the engine starts.
- Brake warning lamp does not store any history when the parking brake is applied or the brake fluid level gets low.

## < ECU DIAGNOSIS INFORMATION >

# **ECU DIAGNOSIS INFORMATION**

## **COMBINATION METER**

Reference Value

### VALUES ON THE DIAGNOSIS TOOL

Monitor Item		Condition	Value/Status
SPEED METER [mph or km/h]	Ignition switch ON	While driving.	Input value of vehicle speed signal (CAN communication signal).
SPEED OUTPUT [mph or km/h]	Ignition switch ON	While driving.	Output value of vehicle speed signal (CAN communication signal).
ODO OUTPUT [mph or km/h]	Ignition switch ON	_	Output value of odometer signal (CAN communication signal).
TACHO METER [rpm]	Ignition switch ON	Engine running.	Input value of engine speed signal (CAN communication signal).
FUEL METER [L]	Ignition switch ON	_	Input value of fuel level sensor signal.
W TEMP METER [°F] or [°C]	Ignition switch ON	_	Input value of engine coolant temperature signal (CAN communication signal).
ADC W//	Ignition quitab ON	ABS warning lamp ON.	On
ABS W/L	Ignition switch ON	ABS warning lamp OFF.	Off
VDC/TCS IND	Ignition switch ON	VDC OFF indicator lamp ON.	On
VDC/TCS IND	Ignition switch ON	VDC OFF indicator lamp OFF.	Off
SI ID IND	Ignition quiteb ON	VDC warning lamp ON.	On
SLIP IND	Ignition switch ON	VDC warning lamp OFF.	Off
DDAKE W	legition with Chi	Brake warning lamp ON.	On*1
BRAKE W/L	Ignition switch ON	Brake warning lamp OFF.	Off
DOOD W//	Innition assistate ON	Door open warning displayed.	On
DOOR W/L	Ignition switch ON	Other than the above	Off
TDUNKICI AS LI	Ignition oviitab CNI	Trunk open warning displayed.	On
TRUNK/GLAS-H	Ignition switch ON	Other than the above	Off
HI DEAM IND	Ignition switch ON	High beam indicator lamp ON.	On
HI-BEAM IND	Ignition switch ON	High beam indicator lamp OFF.	Off
TURN IND	Ignition switch ON	Turn signal indicator lamp ON.	On
TORN IND	Ignition switch ON	Turn signal indicator lamp OFF.	Off
FR FOG IND	Ignition switch ON	Front fog lamp indicator lamp ON.	On
TRI OO IND	ignition switch ON	Front fog lamp indicator lamp OFF.	Off
LIGHT IND	Ignition switch ON	Position lamp indicator lamp ON.	On
	ignition switch ON	Position lamp indicator lamp OFF.	Off
OIL W/L	Ignition switch ON	Engine oil pressure warning displayed.	On
OIL VV/L	ignition switch ON	Other than the above.	Off
MIL	Ignition switch ON	Malfunction indicator lamp ON.	On
	- ignition switch Oil	Malfunction indicator lamp OFF.	Off
BA W/L	Ignition switch ON	FEB warning lamp ON	On
D. ( W/L	ignition switch ON	FEB warning lamp OFF	Off
ATC/T-AMT W/L	Ignition switch ON	CVT error warning is displayed	On
7.1. O/ 1. / W/ 1. VV/ L	- Igrillion owiton Oil	Other than the above	Off

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## < ECU DIAGNOSIS INFORMATION >

Monitor Item		Condition	Value/Status
SDODT IND	Ignition quitab ON	SPORT indicator displayed.	On
SPORT IND	Ignition switch ON	Other than the above.	Off
ELIEL \A//L	Ignitian quitab ON	Low fuel warning displayed.	On
FUEL W/L	Ignition switch ON	Low fuel warning lamp OFF.	Off
MACHED M//	Innitian assitah ON	Low washer fluid warning displayed.	On
WASHER W/L	Ignition switch ON	Other than the above.	Off
ALD DDEC W/	Investina avvitale ON	Low tire pressure warning lamp ON.	On
AIR PRES W/L	Ignition switch ON	Low tire pressure warning lamp OFF.	Off
KEN CW W/I	Ignition quitab ON	Intelligent Key system warning indication.	On
KEY G/Y W/L	Ignition switch ON	Other than the above.	Off
EDC M//	Investina avvitale ON	Power steering warning lamp ON.	On
EPS W/L	Ignition switch ON	Power steering warning lamp OFF.	Off
ACC TARCET	Ignitian quitab ON	During vehicle ahead detection indication.	On
ACC TARGET	Ignition switch ON	Other than the above	Off
		When following distance is set to "LONG"	LONG
ACC DISTANCE	Ignition switch ON	When following distance is set to "MID-DLE"	MID
		When following distance is set to "SHORT"	SHORT
		Set distance indicator not displayed	Off
SHIFT IND	Ignition switch ON	Shift selector position indicator displayed.	[P, R, N, D, L]
ELIEL CAD W/I	Ignition switch ON	Fuel filler cap warning displayed.	On
FUEL CAP W/L	ignition switch ON	Other than the above.	Off
PKB SW	Ignitian quitab ON	Parking brake switch ON.	On
PKD 3W	Ignition switch ON	Parking brake switch OFF.	Off
BUCKLE SW	Ignition switch ON	Driver seat belt not fastened.	On
BOOKLE 3W	Ignition switch ON	Driver seat belt fastened.	Off
BRAKE OIL SW	Ignition switch ON	Brake fluid level switch ON.	On
BRARE OIL SW	Ignition switch ON	Brake fluid level switch OFF.	Off
DISTANCE [mi] or [km]	Ignition switch ON	_	Distance to empty.
OUTSIDE TEMP [°F] or [°C]	Ignition switch ON	_	Displays the ambient air temperature which is input from the ambient sensor.
FUEL LOW OLG		Low fuel level warning.	On
FUEL LOW SIG	_	Except during low fuel level warning.	Off
DUZZED	1 37 37 1 0 1	Buzzer ON.	On
BUZZER	Ignition switch ON	Buzzer OFF.	Off
BATTERY CIR-		Battery power supply circuit is normal	Normal
CUIT STATUS	Ignition switch ON	Battery power supply circuit is open	Open
LCD	Ignition switch ON	Engine start information.	B&P
TDMC DDECC	Inviting with 1 ON	Tire pressure is low.	On
TPMS PRESS L	Ignition switch ON	Tire pressure is normal.	Off
DOMINE	I amariti a series and a series	Blind spot warning indicator ON.	On
BSW IND	Ignition switch ON	Blind spot warning indicator OFF.	Off
CHASSIS CON-	1 11 11 11 11 11	Chassis control warning is displayed.	On
TROL WARN	Ignition switch ON	Other than the above.	Off
	1	l .	i e e e e e e e e e e e e e e e e e e e

### < ECU DIAGNOSIS INFORMATION >

\*1: Displays "Off" if the brake warning lamp is illuminated when the valve check starts, the parking brake switch is turned ON or the brake fluid level switch is turned ON.

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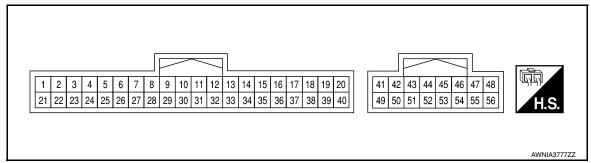
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## TERMINAL LAYOUT



## PHYSICAL VALUES

	inal No. e color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
7	Cravinal	Conveits signal	la acut	Ignition	Security indicator ON	0 V
(G)	Ground	Security signal	Input	switch OFF	Security indicator OFF	Battery voltage
10 (GR)	Ground	Ground	_	_	_	0 V
11	0 1	0 1 : 1		Ignition	Charge warning lamp ON	2 V
(R)	Ground	Generator signal		switch ON	Charge warning lamp OFF	Battery voltage
12	0 1	LED headlamp RH		Ignition	Headlamp ON	1.0 V
(BG)	Ground	warning signal	Input	switch ON	Headlamp OFF	Battery voltage
13		LED headlamp LH		Ignition	Headlamp ON	1.0 V
(W)	Ground	warning signal	Input	switch ON	Headlamp OFF	Battery voltage
14 (P)	Ground	ACC power supply	_	Ignition switch ACC	_	Battery voltage
17 (G)	Ground	Meter control switch ground	_	_	_	0 V
				Ignition	Trip/Reset switch is pressed	0 V
18 (V)	Ground	Trip/reset switch signal	Input	switch OFF or ON	Other than the above	5.0 V
21 (W)	Ground	Steering switch ground	_	_	_	0 V
22 (P)	Ground	Steering switch input 1	_	_	_	_
23 (G)	Ground	Steering switch input 2	_	_	_	_
24	Ground	Washer fluid level	Input	Ignition switch	Washer fluid level switch ON	0 V
(BG)	Ciound	switch signal	input	ON	Washer fluid level switch OFF	Battery voltage
25	0	Brake fluid level switch	1- '	Ignition	Brake fluid level low	0 V
(BR)	Ground	signal	Input	switch ON	Brake fluid level normal	Battery voltage

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## < ECU DIAGNOSIS INFORMATION >

	ninal No. e color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
26	0 1	Parking brake switch		Ignition	Parking brake applied	0 V
(V)	Ground	signal	Input	switch ON	Parking brake released	Battery voltage
28	Ground	Seat belt buckle switch	Input	Ignition switch	When driver seat belt is fastened	Battery voltage
(LG)	Ground	signal LH	mpat	ON	When driver seat belt is un- fastened	0 V
30 (W)	Ground	Manual mode signal	Input	Ignition switch	Selector lever manual mode position	0 V
(۷۷)				ON	Other than the above	Battery voltage
31 (G)	Ground	Non-manual mode sig-	Input	Ignition switch	Selector lever manual mode position	Battery voltage
(G)		IIdi		ON	Other than the above	0 V
32		Manual mode shift up		Ignition	Shift selector UP operation	0 V
(P)	Ground	signal	Input	switch ON	Other than the above	Battery voltage
33 (BG)	Ground	Manual mode shift down signal	Input	Ignition switch	Shift selector DOWN operation	0 V
(66)		Signal		ON	Other than the above	Battery voltage
34		D 111 1:0 : 1		Ignition	Paddle shift UP operation	0 V
(R)	Ground	Paddle shift up signal	Input	switch ON	Other than the above	Battery voltage
35 (W)	Ground	Paddle shift down signal	Input	Ignition switch	Paddle shift DOWN operation	0 V
(**)				ON	Other than the above	Battery voltage
36	Ground	Illumination control	Input	Ignition switch	When illumination control switch (+) is pressed	0 V
(Y)		switch signal (+)	,	OFF or ON	Other than the above	5.0 V
37	Ground	Illumination control	Input	Ignition switch	When illumination control switch (-) is pressed	0 V
(SB)		switch signal (-)	'	OFF or ON	Other than the above	5.0 V
						NOTE: The maximum voltage varies depending on the specification (destination unit).
38 (BG)	Ground	Vehicle speed signal (8-pulse)	Output	Ignition switch ON	Speedometer operated [When vehicle speed is approx. 25 MPH (40 km/h)]	0 J\$NIA0012GB

## < ECU DIAGNOSIS INFORMATION >

	ninal No. re color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
39 (P)	Ground	Vehicle speed signal (2-pulse)	Output	Ignition switch ON	Speedometer operated [When vehicle speed is approx. 25 MPH (40 km/h)]	NOTE: The maximum voltage varies depending on the specification (destination unit).
					Lighting switch 1st position     When meter illumination is minimum	(V) 15 10 5 0 2.5 ms JSNIA5983GB
42 (GR)	Ground	Illumination control signal	Output	Ignition switch ON	Lighting switch 1st position     When meter illumination is step 11	(V) 15 10 5 0 2.5 ms JPNIA1686GB
					Lighting switch 1st position     When meter illumination is maximum	0 V
43 (B)	Ground	Ground	_	_	_	0 V
44 (BR)	Ground	Ignition signal	_	Ignition switch ON or START	_	Battery voltage
45 (B)	Ground	Ground	_	_	_	0 V
46 (G)	Ground	Battery power supply	_	_	_	Battery voltage
47 (BG)	Ground	Welcome lighting illumi- nation control	_	_	_	_
48 (R)	Ground	Fuel level sensor signal	_	Ignition switch ON	Fuel gauge indication position	Battery voltage
49 (LG)	Ground	M CAN low	_	_	_	_
50 (SB)	Ground	M CAN high	_	_	_	_

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## < ECU DIAGNOSIS INFORMATION >

	ninal No. e color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
52 (P)	Ground	CAN low	_	_	_	_
53 (L)	Ground	CAN high	_	_	_	_
54 (W)	Ground	Fuel level sensor ground	_	Ignition switch ON	_	0 V

Fail-safe

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

	Function	Specifications
Speedometer		
Tachometer		Reset to zero by suspending communication.
Engine coolant temperat	ure gauge	
Meter illumination contro	I	When suspending communication, it changes to nighttime mode.
Buzzer		Turns OFF by suspending communication.
	Current fuel consumption	
	Average fuel consumption	
	Average vehicle speed	The last result calculated during normal condition is indicated.
	Range (Distance to empty)	
	Driving distance	
	Door open warning	
	Trunk open warning	
Information display	Low tire pressure warning	
	Parking brake release warning	The diapley turns OFF by evenending communication
	Fuel-filler cap warning	The display turns OFF by suspending communication.
	Oil pressure warning	
	CVT error warning lamp	
	BSW warning	
	Odo/trip meter	An indicated value is maintained at communications blackout.
	Shift selector position indicator	The indicator turns OFF by suspending communication.

## < ECU DIAGNOSIS INFORMATION >

F	unction	Specifications	-
	ABS warning lamp		-
	Brake warning lamp		
	EPS warning lamp		
	VDC warning lamp	Turne ON by even and in a communication	
	FEB warning lamp	Turns ON by suspending communication.	
	Malfunction indicator lamp		
Manaina laman (in dia atau laman	Air bag warning lamp		
Warning lamp/indicator lamp	Charge warning lamp		
	VDC OFF indicator lamp		-
	High beam indicator lamp		
	Turn signal indicator lamp	Turns OFF by suspending communication.	
	Position lamp indicator lamp		
	Front fog lamp indicator lamp		
	Low tire pressure warning lamp	After blinking for 1 minute, the lamp remains ON.	-

DTC Index

Display contents of CONSULT	Diagnostic item is detected when	Refer to
CAN COMM CIRCUIT [U1000]	Combination meter is not transmitting or receiving CAN communication signal for 2 seconds or more.	MWI-45
CONTROL UNIT (CAN) [U1010]	Detecting error during the initial diagnosis of CAN controller of combination meter.	MWI-46
VEHICLE SPEED [B2205]	The abnormal vehicle speed signal is input from ABS actuator and electric unit (control unit) for 2 seconds or more.	MWI-47
ENGINE SPEED [B2267]	ECM continuously transmits abnormal engine speed signals for 2 seconds or more.	MWI-48
WATER TEMP [B2268]	ECM continuously transmits abnormal engine coolant temperature signals for 60 seconds or more.	MWI-49

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## **BCM (BODY CONTROL MODULE)**

## < ECU DIAGNOSIS INFORMATION >

# **BCM (BODY CONTROL MODULE)**

## List of ECU Reference

INFOID:0000000012227903

ECU	Reference
	BCS-31, "Reference Value"
BCM	BCS-51, "Fail Safe"
BCIVI	BCS-52, "DTC Inspection Priority Chart"
	BCS-53, "DTC_Index"

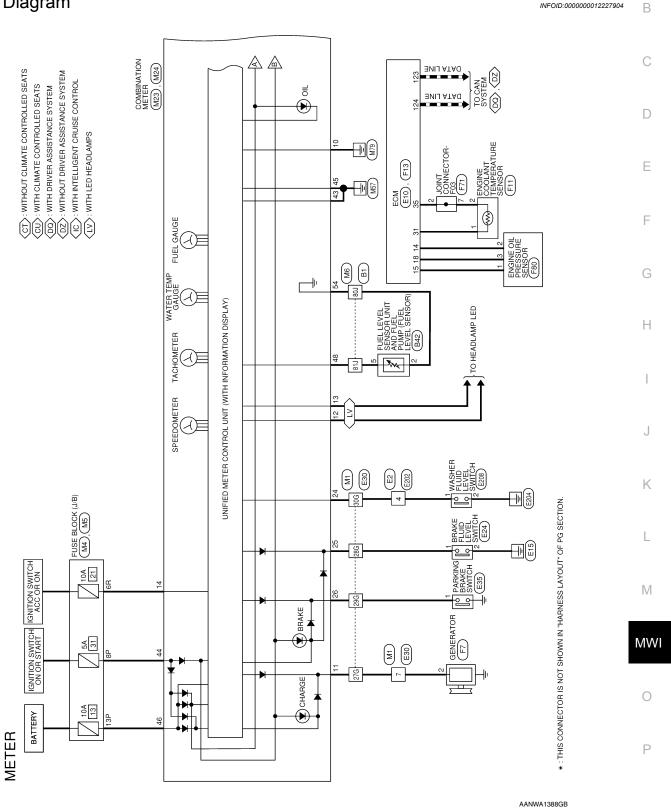
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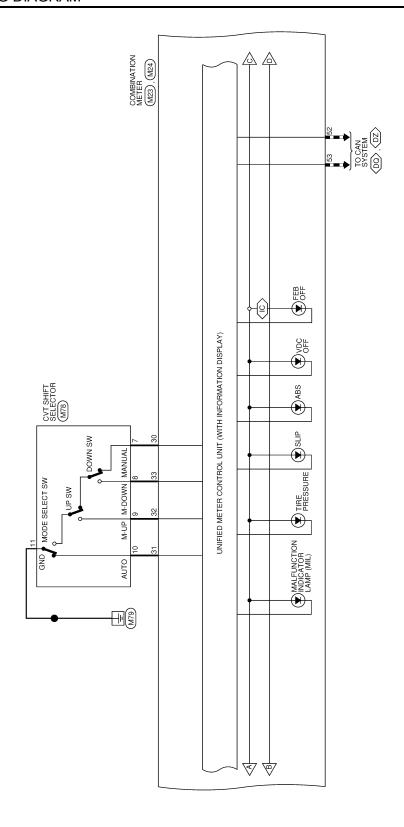
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# WIRING DIAGRAM

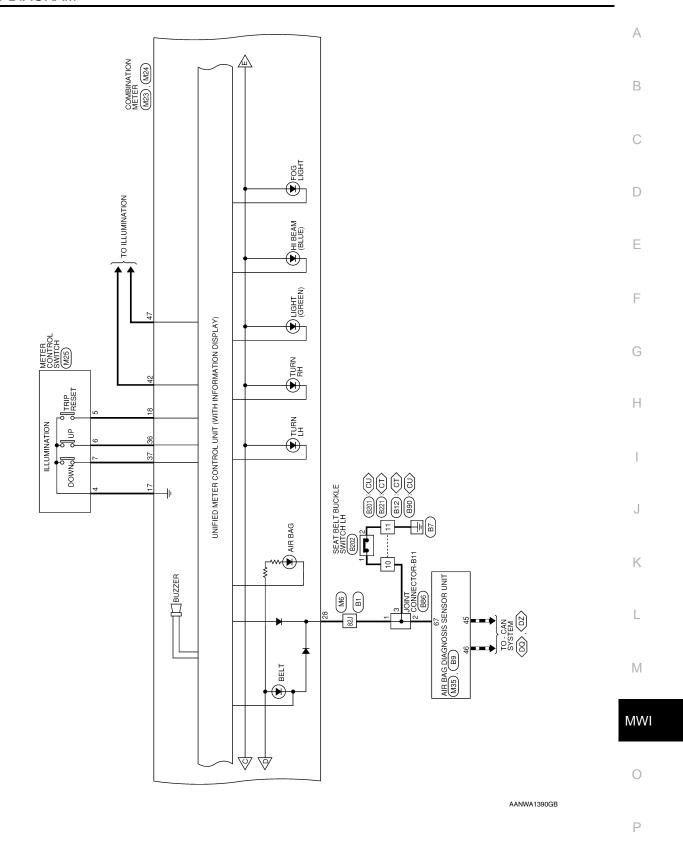
## **METER SYSTEM**

Wiring Diagram

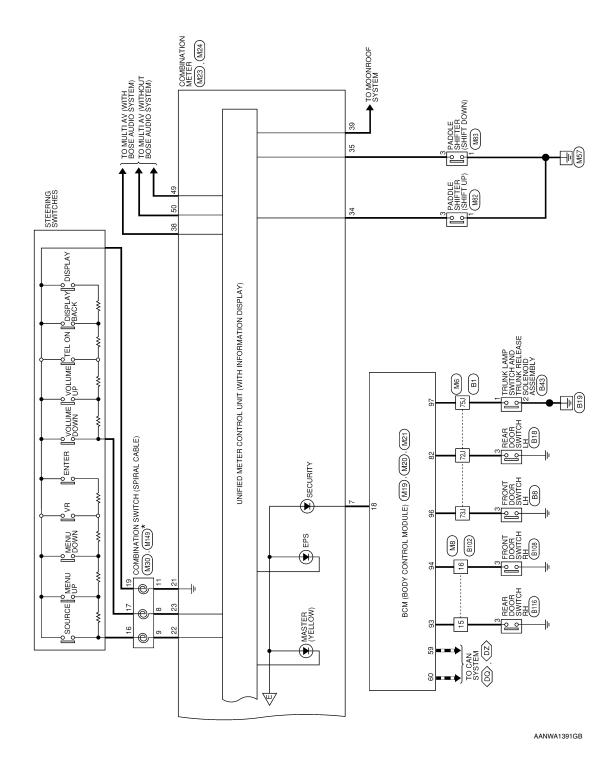




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Α

METER CONNECTORS

Connector No.   M5	MST   EFUSCK (J/B)   NST   EFW-CS   WHITE
MS1	Connector   Conn
	Connector Connec

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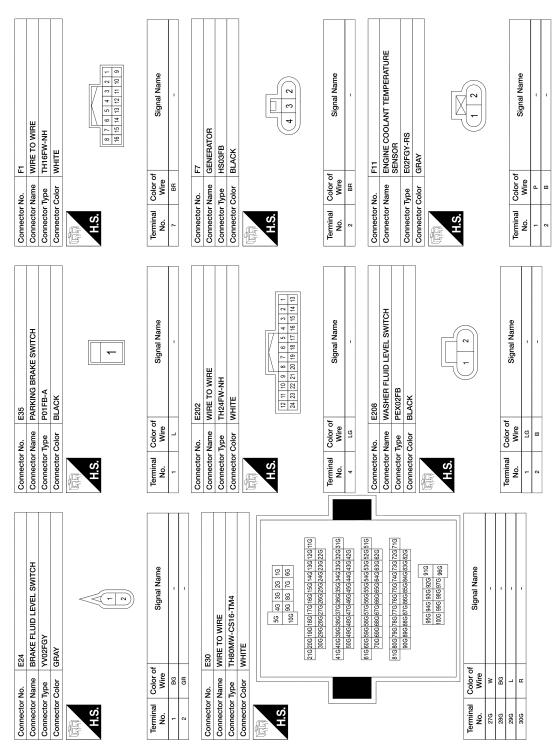
M20 BCM (BODY CONTROL MODILIE)	46	в   <sub>Ф</sub>	GND2 POWER (BAT)	27	- P	SEAT BELT SW (DR)
DY CONTROL MODULE)	47	BG	INDIRECT ILL CONT OUT	59		1
TH40FB-NH	48	œ	FUEL SENSOR	30	М	M RANGE
	49	ΓG	M-CAN (LOW)	31	5	NOT M RANGE
	20	SB	M-CAN (HI)	32	а	AT SHIFT UP
	51		1	33	BG	AT SHIFT DOWN
	52	۵.	CAN-L	34	۳	AT STRG SHIFT UP
7	53	_	CAN-H	32	8	AT STRG SHIFT DOWN
00 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41	54	>	FUEL SENSOR GND	36	>	ILL UP SW
1 1 10 03 00 01 00 02 04 02 07	55		1	37	SB	ILL DOWN SW
	26		1	38	BG	SPEED 8P/R OUT
				39	١	SPEED 2P/R OUT
Signal Name	Connector No.		M24			
CAN-L	Connector Name		COMBINATION METER	Connector No.		M25
CAN-H	Connector Tolor		MHTE	Connector Name		METER CONTROL SWITCH
		٦		Connector Type	$\vdash$	TH08FW-NH
	F			Connector Color	$\top$	WHITE
BCM (BODY CONTROL MODULE)	) E				1	
TH40FG-NH GREEN	5	1 2 3	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20			
		21 22 23	22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	Ċ.		7
				ı		5 1 2 3 4 5 7 8 8
16 14 13 12 11 10 9 8 7 6 5 4 3 2 1	Terminal No.	Color of Wire	Signal Name			
25 24 23	-		1	Terminal	Color of	O Comply Tourist
	2	1	1	No.	Wire	Signal Name
	ဇ	1	1	4	g	-
Signal Name	4 "	1	1	נט	>	1
2	n 4		1 1	0 1	- 8	
SECURITY INDICATOR		g	SECURITY		3	
	80		1	Old rottograd		M30
	6	'	1	COIIIECTO	$\top$	MOO
COMBINATION METER	10	GB.	INDIRECT ILLUMINATION SEMI-ACTIVE INPUT	Connector Name	$\top$	COMBINALION SWILCH (SPIKAL CABLE)
TH16FW-NH	F	œ	CHARGE	Connector Type	$\neg$	TK08FGY-1V
WHITE	12	BG	LED HEAD LAMP-R	Connector Color		GRAY
	13	W	LED HEAD LAMP-L	1		
	14	۵	POWER (ACC)	NEW TOWN		
	15	1	-	E C		
	16	1	-			1
41 42 43 44 45 46 47 48	17	g	GND (SATELLITE SW)			20 00 77
49 50 51 52 53 54 55 56	18	>	TRIP RESET SW			
	19	1	-			
	20	1	1			
	27	>	GND (STRG SW INPUT)	Terminal	Color of	
Signal Name	22	۵	STRG SW (INPUT1)	No.	Wire	Signal Name
1	23	g	STRG SW (INPUT2)	80	5	1
III CONT OUT	24	BG	WASHER LEVEL SW	6	۵	1
FUND	25	BB	BRAKE OIL SW	1	8	1
	56	>	PKB SW			

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Connector Name PADDLE SHIFTER (SHIFT DOWN)		3 3	Terminal Color of Signal Name No.			Connector Name COMBINATION SWITCH (SPIRAL CARLE)	H.S.	22 21 20 19 18 17 16 15	a C	No. Wire	17 G -						
	H.S. 23 24 25 25 25 20 30 30 41 45 46 47 50 50	nal Color of Sig.	45 P CAN-L	Connector No. M78	Connector Name CVT SHIFT SELECTOR Connector Type TH16FW-NH		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Terminal Color of No. Wire Signal Name	7 W –	9 P C C C C C C C C C C C C C C C C C C		Connector No. M82 Connector Name PADDLE SHIFTER (SHIFT UP)		H.V.	Color of	No. Wire Signal Name	

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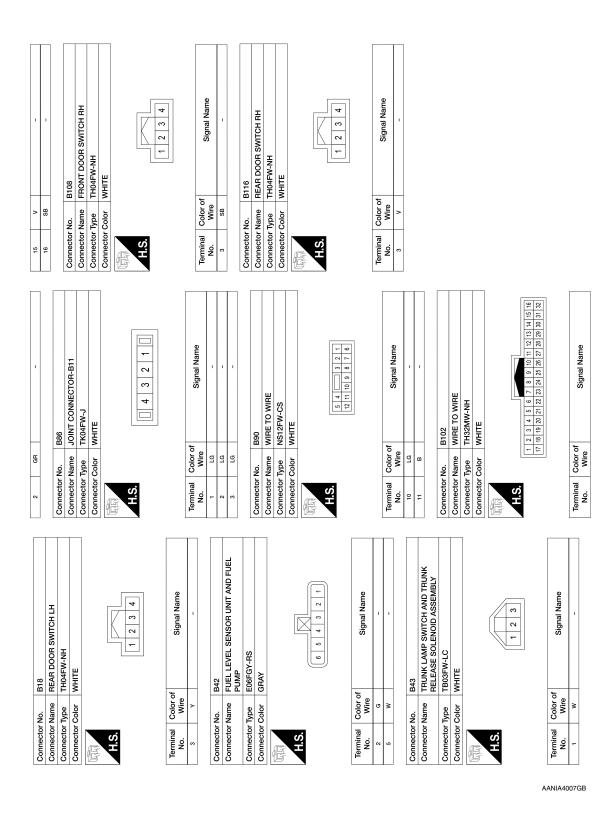


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Connector Name FRONT DOOR SWITCH LH		H.S.	No.	Connector No B9	e	Connector Type NH22FY-2V-EX	Connector Color   YELLOW		H.S.	259 159 259 259 259 259 259 259 259 259 259 2	ial Color of Sirnal	LH SEAT	Connector No. B12 Connector Name WIRE TO WIRE Connector Tune NS19FW-CS	Τ.	1	H.S.	12 11 10 9 8 7 6		- 1	Terminal Color of Signal Name	Wire	11 BB 1.	
0 0	8 8				[	Ö	3 [2	7	_					ŏ						<u> </u>			
ENSOR			au l								13J 12J 11J	33J 32J 31J	53J 52J 51J 63J 62J 73J 72J 71J	83.1 82.1			ше						
ENGINE OIL PRESSURE SENSOR	OK OK	123	Signal Name	1 1		BT WIRE TO WIRE	TH80MDGY-CS16-TM4	>=		50 44 33 23 13 11 10 89 81 73 60	21.J 20.J 19.J 18.J 17.J 16.J 15.J 14.J 13.J 12.J 11.J 30.J 29.J 28.J 27.J 26.J 25.J 24.J 23.J 22.J	41.1 40.1 39.1 38.1 37.1 36.1 35.1 34.1 33.1 32.1 31.1 36.1 48.1 48.1 48.1 48.1 48.1 48.1 48.1	(61.1)   (60.1)   (50.1)   (	901 891 881 871 861 851 841	95J 94J 93J 92J 91J 100J 95J 96J 97J 96J		Signal Name	1	1	1	1	1	
			Color of Wire	5 R		9		olor GRAY									Color of Wire	>	BB	≥ 0	ຫ ≩	n P	
Connector Name	Connector Color	H.S.	ınal .	3 8		Connector No.	Connector Type	Connector Color	F	H.S.							Terminal C No.	72.1	73.1	75.0	807	823	
				Τ		æ								T									
1	- j	27 32 37 42 47 62 28 33 38 43 48 53 49 54 65 65 65 65 65 65 65 65 65 65 65 65 65	35 40 45 30	ENGINE OIL PRESSURE SENSOR	SENSOR GROUND SENSOR POWER SUPPLY	IT TEMPERATURE SENSOR	SENSOR GROUND		R-F03		<b>\</b>	3 2 1	Signal Name		1								
MARSER-MERSO-I H	BLACK	2 7 1 1 1 1 1 1 2 2 1 2 1 2 1 2 1 1 1 1	12 20	ENGINE OIL	SENSOF	ENGINE COOLANT 1	SEN	F71	JOINT CONNECTOR-F03	BLACK		5 4 9 3	š										
			Color of Wire	LG WIE	_ a	۵	œ						Color of	m	ω.								
Connector Type	Connector Color	H.S.	Terminal	- 4 - 4	15	31	35	Connector No.	Connector Name	Connector Type	SH		Terminal	2	7								•
ار																							

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Connector No.	No.	B201
Connector Name	Name	WIRE TO WIRE
Connector Type	Туре	NS12MW-CS
Connector Color	Color	WHITE
F		
H.S.		1 2 3
		6 7 8 9 10 11 12
Terminal No.	Color of Wire	Signal Name
10	_	1
F	В	1
Connector No.	No.	B202
Connector Name	Name	SEAT BELT BUCKLE SWITCH LH
Connector Type	Type	TH04FW-NH
Connector Color	Color	WHITE

								5	12
me								4	=
Signal Name	,								9 10 11
igns									6
0)				щ				က	œ
				×	လှ			7	7
			B221	WIRE TO WIRE	NS12MW-CS	WHITE		-	œ
Jo		H	8	3	ž	₹			
Color of Wire	٦	8	Š	Name	Type	Color			
Terminal No.	1	2	Connector No.	Connector Name	Connector Type	Connector Color	F	H.S.	

Signal Name	1	1	
Color of Wire	-	8	
Terminal (No.	10	11	

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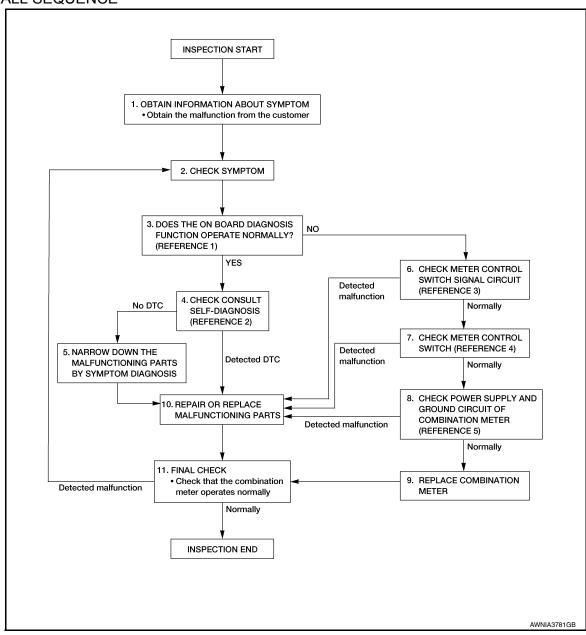
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# **BASIC INSPECTION**

# DIAGNOSIS AND REPAIR WORK FLOW

Work flow INFOID:0000000012227905

#### **OVERALL SEQUENCE**



- Reference 1: MWI-18, "On Board Diagnosis Function"
- Reference 2: MWI-29, "DTC Index"
- Reference 3: <u>MWI-52</u>, "<u>Diagnosis Procedure</u>" Reference 4: <u>MWI-53</u>, "<u>Component Inspection</u>"
- Reference 5: MWI-50, "COMBINATION METER: Diagnosis Procedure"

### **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.

#### DIAGNOSIS AND REPAIR WORK FLOW

#### < BASIC INSPECTION > >> GO TO 2. 2. CHECK SYMPTOM Α • Check the symptom based on the information obtained from the customer. · Check if any other malfunctions are present. В >> GO TO 3. 3.CHECK ON BOARD DIAGNOSIS OPERATION Check that the on board diagnosis function operates. Refer to MWI-18, "On Board Diagnosis Function". Is the inspection result normal? D YES >> GO TO 4. NO >> GO TO 6. f 4.CHECK CONSULT SELF-DIAGNOSIS RESULTS Е Perform "Self Diagnostic Result". Refer to MWI-29, "DTC Index". 2. When DTC is detected, follow the instructions below: Record DTC and Freeze Frame Data. Is the inspection result normal? YES >> GO TO 5. NO >> GO TO 10. ${f 5}$ . NARROW DOWN THE MALFUNCTIONING PARTS BY SYMPTOM DIAGNOSIS Perform symptom diagnosis and narrow down the malfunctioning parts. Н >> GO TO 10. $\mathsf{6}.$ CHECK METER CONTROL SWITCH SIGNAL CIRCUIT Check meter control switch signal circuit. Refer to MWI-52, "Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 7. NO >> GO TO 10. 7.CHECK METER CONTROL SWITCH Check meter control switch. Refer to MWI-53. "Component Inspection". Is the inspection result normal? YES >> GO TO 8. NO >> GO TO 10. $oldsymbol{\delta}$ .CHECK COMBINATION METER POWER SUPPLY AND GROUND CIRCUITS Check combination meter power supply and ground circuits. Refer to MWI-50, "COMBINATION METER: Diagnosis Procedure". Is the inspection result normal? MWI YES >> GO TO 9. NO >> GO TO 10. 9.REPLACE COMBINATION METER Replace combination meter. Refer to MWI-68, "Removal and Installation". Р >> GO TO 11. 10.REPAIR OR REPLACE MALFUNCTIONING PARTS Repair or replace the malfunctioning parts. NOTE: If DTC is displayed, erase DTC after repairing or replacing malfunctioning parts.

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>> GO TO 11.

## **DIAGNOSIS AND REPAIR WORK FLOW**

### < BASIC INSPECTION >

# 11. FINAL CHECK

Check that the combination meter operates normally.

Is the inspection result normal?

>> Inspection End. >> GO TO 2. YES

NO

### **U1000 CAN COMM CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

# DTC/CIRCUIT DIAGNOSIS

# U1000 CAN COMM CIRCUIT

**DTC** Description

INFOID:0000000012227906

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Refer to LAN-8, "System Description".

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC d	etection condition
		Diagnosis condition	When ignition switch is ON.
	CAN COMM CIDOLIIT	Signal (terminal)	-
U1000	CAN COMM CIRCUIT (CAN COMM CIRCUIT)	Threshold	When combination meter is not transmitting or receiving CAN communication signals
		Diagnosis delay time	2 seconds or more

#### POSSIBLE CAUSE

CAN communication system

#### **FAIL-SAFE**

The combination meter activates the fail-safe control if CAN communication with each unit is malfunctioning. Refer to MWI-28, "Fail-safe".

#### DTC CONFIRMATION PROCEDURE

# 1.PERFORM SELF-DIAGNOSIS

#### (P)CONSULT

- 1. Turn ignition switch ON and wait for 2 seconds or more.
- Select "Self Diagnostic Result" mode of "METER/M&A".
- Check DTC.

#### Is DTC detected?

>> Refer to <u>MWI-45, "Diagnosis Procedure"</u>. >> Refer to <u>GI-41, "Intermittent Incident"</u>. YES

NO

# Diagnosis Procedure

# 1. CHECK CAN COMMUNICATION SYSTEM

Check CAN communication system. Refer to LAN-17, "Trouble Diagnosis Flow Chart".

>> Inspection End.

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**MWI-45** Revision: October 2015 2016 Maxima NAM

# **U1010 CONTROL UNIT (CAN)**

#### < DTC/CIRCUIT DIAGNOSIS >

# U1010 CONTROL UNIT (CAN)

**DTC** Description INFOID:0000000012227908

#### DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC de	etection condition
		Diagnosis condition	When Ignition switch is ON.
U1010	CONTROL UNIT (CAN)	Signal (terminal)	-
01010	[CONTROL UNIT (CAN)]	Threshold	-
		Diagnosis delay time	2 seconds or more

#### **POSSIBLE CAUSE**

Combination meter

#### **FAIL-SAFE**

The combination meter activates the fail-safe control if CAN communication with each unit is malfunctioning. Refer to MWI-28, "Fail-safe".

#### DTC CONFIRMATION PROCEDURE

# 1.PERFORM SELF-DIAGNOSIS

#### CONSULT

- Turn ignition switch ON.
- Select "Self Diagnostic Result" mode of "METER/M&A".
- 3. Check DTC.

#### Is DTC detected?

>> Refer to MWI-46, "Diagnosis Procedure".
>> Refer to GI-41, "Intermittent Incident". YES

# Diagnosis Procedure

INFOID:0000000012227909

# 1. REPLACE COMBINATION METER

Replace combination meter. Refer to MWI-68, "Removal and Installation".

>> Inspection End.

### **B2205 VEHICLE SPEED**

#### < DTC/CIRCUIT DIAGNOSIS >

## **B2205 VEHICLE SPEED**

DTC Description

#### DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	D	TC detection condition
		Diagnosis condition	When ignition switch is ON.
D2205	VEHICLE SPEED CIRC	Signal (terminal)	-
B2205	[VEHICLE SPEED CIRC]	Threshold	When an erroneous speed signal is received
		Diagnosis delay time	2 seconds or more

#### POSSIBLE CAUSE

- Wheel speed sensor
- ABS actuator and electric unit (control unit)

#### DTC CONFIRMATION PROCEDURE

# 1.PERFORM SELF-DIAGNOSIS

### CONSULT

- Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "METER/M&A".
- 3. Check DTC.

#### Is DTC detected?

YES >> Refer to MWI-47, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

# 1. PERFORM SELF DIAGNOSTIC RESULT

### **©CONSULT**

- Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "ABS".
- Check DTC.

#### Is DTC detected?

YES >> Perform diagnosis procedure on the detected DTC. Refer to <u>BRC-227, "DTC Index"</u> (with ICC) or <u>BRC-52, "DTC Index"</u> (without ICC).

NO >> Inspection End.

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### **B2267 ENGINE SPEED**

#### < DTC/CIRCUIT DIAGNOSIS >

## **B2267 ENGINE SPEED**

# DTC Description

#### DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)		DTC detection condition
		Diagnosis condition	When ignition switch is ON.
B2267	ENGINE SPEED	Signal (terminal)	-
D2201	[ENGINE SPEED]	Threshold	ECM continuously transmits abnormal engine speed signals
		Diagnosis delay time	2 seconds or more

#### POSSIBLE CAUSE

- · Crankshaft position sensor
- ECM

#### DTC CONFIRMATION PROCEDURE

# 1.PERFORM SELF-DIAGNOSIS

### CONSULT

- 1. Turn ignition switch ON.
- Select "Self Diagnostic Result" mode of "METER/M&A".
- 3. Check DTC.

#### Is DTC detected?

YES >> Refer to MWI-48, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

INFOID:0000000012227913

# 1. PERFORM SELF DIAGNOSTIC RESULT

### CONSULT

- 1. Turn ignition switch ON.
- Select "Self Diagnostic Result" mode of "ECM".
- 3. Check DTC.

### Is DTC detected?

YES >> Perform diagnosis procedure on the detected DTC. Refer to <u>EC-107</u>, "<u>DTC\_Index</u>".

NO >> Inspection End.

### **B2268 WATER TEMP**

#### < DTC/CIRCUIT DIAGNOSIS >

## **B2268 WATER TEMP**

# DTC Description

#### DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)		DTC detection condition
		Diagnosis condition	When ignition switch is ON.
	WATER TEMP	Signal (terminal)	-
B2268	[WATER temperature]	Threshold	ECM continuously transmits abnormal engine coolant temperature signals
		Diagnosis delay time	60 seconds or more

#### **POSSIBLE CAUSE**

- Engine coolant temperature sensor
- ECM

#### DTC CONFIRMATION PROCEDURE

# 1.PERFORM SELF-DIAGNOSIS

#### CONSULT

- 1. Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "METER/M&A".
- Check DTC.

#### Is DTC detected?

YES >> Refer to MWI-49, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

# 1. PERFORM SELF DIAGNOSTIC RESULT

#### CONSULT

- Turn ignition switch ON.
- 2. Select "Self Diagnostic Result" mode of "ECM".
- 3. Check DTC.

#### Is DTC detected?

YES >> Perform diagnosis procedure on the detected DTC. Refer to <u>EC-107</u>, "<u>DTC Index</u>".

NO >> Inspection End.

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Revision: October 2015 MWI-49 2016 Maxima NAM

### POWER SUPPLY AND GROUND CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

# POWER SUPPLY AND GROUND CIRCUIT COMBINATION METER

**COMBINATION METER: Diagnosis Procedure** 

INFOID:0000000012227916

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

# 1. CHECK FUSES

Check that the following fuses are not blown:

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

#### Is the fuse blown?

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

NO >> GO TO 2.

# 2.CHECK POWER SUPPLY CIRCUIT

- Disconnect combination meter harness connectors M23 and M24.
- 2. Check voltage between combination meter harness connectors M23 and M24 and ground.

Combina	tion meter	Ground	Ignition switch position					
Connector	Terminal	Ground	OFF	ON or ACC	START			
M24	14		0 V	Battery voltage	Battery voltage			
M23	44	(-)	0 V	Battery voltage	Battery voltage			
10123	46		Battery voltage	Battery voltage	Battery voltage			

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

# 3. CHECK GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Check continuity between combination meter harness connector M23, M24 and ground.

Combination meter		Ground	Continuity	
Connector	Terminal	Giodila	Continuity	
M24	10			
M23	43	(–)	Yes	
IVIZS	45	. ,		

#### Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connector.

BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE): Diagnosis Procedure

INFOID:0000000012250299

Regarding Wiring Diagram information, refer to BCS-56, "Wiring Diagram".

### POWER SUPPLY AND GROUND CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

# 1. CHECK FUSE AND FUSIBLE LINK

Check if the following BCM fuses or fusible link are blown.

Signal name	Fuse and fusible link No.
Fusible link battery power	I (40A)
BCM battery fuse	1 (10A)

#### Is the fuse or fusible link blown?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2.

# 2. CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector M17.
- 3. Check voltage between BCM harness connector M17 and ground.

	Terminals				
(	+)	(-)	Voltage (Approx.)		
В	CM		(Approx.)  Battery voltage		
Connector	Terminal	- Ground			
M17	135	Ground			
IVI I /	142				

#### Is the measurement normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

# 3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector M17 and ground.

В	CM		Continuity	
Connector	Terminal	Ground		
M17	138	Giound	Voo	
IVI I /	132		Yes	

#### Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness.

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### METER CONTROL SWITCH SIGNAL CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

## METER CONTROL SWITCH SIGNAL CIRCUIT

# Diagnosis Procedure

INFOID:0000000012227918

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

# 1. CHECK METER CONTROL SWITCH SIGNAL

- Turn ignition switch ON.
- 2. Check voltage between the following terminals of the meter control switch harness connector M25.

Meter control switch		ch			
Connector	Tern	ninals	Condition	Voltage (Approx.)	
Connector	(+)	(-)			
	7		When illumination control switch (-) is pressed	0 V	
	,		Other than the above	5 V	
M25	5	4	When trip reset switch is pressed	0 V	
IVIZO	5		Other than the above	5 V	
	6		When illumination control switch (+) is pressed	0 V	
	O		Other than the above	5 V	

#### Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 2.

# 2.CHECK METER CONTROL SWITCH CIRCUITS

- Turn ignition switch OFF.
- 2. Disconnect combination meter harness connector M24 and meter control switch harness connector M25.
- 3. Check continuity between combination meter harness connector M24 and meter control switch harness connector M25.

Combination meter		Meter control switch		Continuity
Connector	Terminal	Connector Terminal		Continuity
	18	M25	5	Yes
MOA	37		7	
M24	36		6	
	17			4

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

Combination meter			Continuity	
Connector	Terminal		Continuity	
	18	Ground	No	
M24	37			
	36		NO	
	17			

## Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connector.

## METER CONTROL SWITCH SIGNAL CIRCUIT

### < DTC/CIRCUIT DIAGNOSIS >

# Component Inspection

#### INFOID:0000000012227919

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# 1. CHECK METER CONTROL SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect meter control switch harness connector.
- 3. Check meter control switch.

Meter cor	trol switch	Condition	Continuity	
Term	ninals	Gonation	Continuity	
7		When illumination control switch (-) is pressed	Yes	
7		Other than the above	No	
E	5 4	When trip reset switch is pressed	Yes	
5		Other than the above	No	
6		When illumination control switch (+) is pressed	Yes	
0		Other than the above	No	

#### Is the inspection result normal?

YES >> Inspection End.

NO >> Replace meter control switch. Refer to <a href="MWI-69">MWI-69</a>, "Removal and Installation".

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#### **FUEL LEVEL SENSOR SIGNAL CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

# FUEL LEVEL SENSOR SIGNAL CIRCUIT

# Component Function Check

# 1. COMBINATION METER INPUT SIGNAL

### (P)CONSULT

- Select "Data Monitor" mode of "METER/M&A".
- 2. Select "FUEL METER".
- 3. Compare the "FUEL METER" value and the fuel gauge reading of the combination meter. Fuel gauge and data monitor indications should be close.

Combination meter	Monitor item
Fuel gauge	FUEL METER [L] (Approx.)
Full	67.1
3/4	53.2
1/2	37.3
1/4	21.9
Empty	7.3

#### Does the data monitor value approximately match the fuel gauge indication?

YES >> Inspection End.

NO >> Replace combination meter. Refer to MWI-68, "Removal and Installation".

# Diagnosis Procedure

INFOID:0000000012227921

INFOID:0000000012227920

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

# 1. CHECK HARNESS CONNECTOR

- 1. Turn ignition switch OFF.
- 2. Check combination meter and fuel level sensor unit and fuel pump (fuel level sensor) terminals (meterside and harness-side) for poor connection.

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace terminals or connectors.

# 2.CHECK FUEL LEVEL SENSOR CIRCUIT

- 1. Disconnect combination meter harness connector M23 and fuel level sensor unit and fuel pump (fuel level sensor) harness connector B42.
- Check continuity between combination meter harness connector M23 and fuel level sensor unit and fuel pump (fuel level sensor) harness connector B42.

Fuel level sensor unit and fuel pump (fuel level sensor)		Combination meter		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B42	5	M23	48	Yes	

Check continuity between fuel level sensor unit and fuel pump (fuel level sensor) harness connector B42 and ground.

Fuel level sensor unit an	d fuel pump (fuel level sensor)		Continuity	
Connector Terminal		Ground	Continuity	
B42	5		No	

#### Is the inspection result normal?

### **FUEL LEVEL SENSOR SIGNAL CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

>> GO TO 3.

NO >> Repair or replace harness or connector.

# 3.CHECK FUEL LEVEL SENSOR GROUND CIRCUIT

Check continuity between combination meter harness connector M23 and fuel level sensor unit and fuel pump (fuel level sensor) harness connector B42.

Fuel level sensor unit and	Fuel level sensor unit and fuel pump (fuel level sensor)		Combination meter	
Connector	Terminal	Connector Terminal		Continuity
B42	2	M23	54	Yes

Check continuity between fuel level sensor unit and fuel pump (fuel level sensor) harness connector B42 and ground.

Fuel level sensor unit an	d fuel pump (fuel level sensor)		Continuity
Connector	Terminal	Ground	Continuity
B42	2		No

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness or connector.

## 4. CHECK INSTALLATION CONDITION

Check fuel level sensor unit installation, and check whether the float arm interferes or binds with any of the internal components in the fuel tank.

#### Is the inspection result normal?

YES >> Inspection End.

NO >> Install the fuel level sensor unit properly. Refer to FL-5, "Removal and Installation".

# Component Inspection

INFOID:0000000012227922

# 1. CHECK FUEL LEVEL SENSOR UNIT AND FUEL PUMP (FUEL LEVEL SENSOR)

- Remove the fuel level sensor unit and fuel pump (fuel level sensor). Refer to FL-5. "Removal and Installation".
- 2. Check the resistance between fuel level sensor unit and fuel pump (fuel level sensor) terminals.

		1	1	
	ensor unit and el level sensor)	Condition	Resistance (Ω) (Approx.)	Height [mm (in)]
Terminals			(дриох.)	
2	5	Full <sup>*</sup> (A)	51	148.8 (5.9)
2 5	Empty* (B)	283	32.2 (1.3)	

<sup>\*:</sup> When float rod is in contact with stopper.

### Is the inspection result normal?

YES >> Inspection End.

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NO

>> Replace fuel level sensor unit and fuel pump (fuel level sensor). Refer to FL-5, "Removal and Installation".

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#### WASHER FLUID LEVEL SWITCH CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

## WASHER FLUID LEVEL SWITCH CIRCUIT

# Diagnosis Procedure

INFOID:0000000012227923

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

# 1. CHECK WASHER FLUID LEVEL SWITCH SIGNAL CIRCUIT

- Turn ignition switch OFF.
- Disconnect combination meter harness connector M24 and washer fluid level switch harness connector E208.
- Check continuity between combination meter harness connector M24 and washer fluid level switch harness connector E208.

Combination meter		Washer fluid level switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M24	24	E208	1	Yes

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

Combination meter			Continuity
Connector	Terminal	Ground	Continuity
M24	24		No

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connector.

# 2.CHECK WASHER FLUID LEVEL SWITCH GROUND CIRCUIT

Check continuity between washer fluid level switch harness connector E208 and ground.

Washer fluid level switch			Continuity
Connector	Terminal	Ground	Continuity
E208	2		Yes

#### Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connector.

# Component Inspection

INFOID:0000000012227924

# 1. CHECK WASHER FLUID LEVEL SWITCH

- Turn ignition switch OFF.
- 2. Disconnect washer fluid level switch connector.
- 3. Check washer fluid level switch.

Washer fluid level switch Terminals		Condition	Continuity
		Condition	
1	2	Washer fluid level switch ON	Yes
	2	Washer fluid level switch OFF	No

#### Is the inspection result normal?

YES >> Inspection End.

NO >> Replace washer fluid level switch. Refer to <a href="WW-6">WW-6</a>. "Component Parts Location".

### STEERING SWITCH

#### < DTC/CIRCUIT DIAGNOSIS >

## STEERING SWITCH

# Diagnosis Procedure

INFOID:0000000012227925

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

# 1. CHECK STEERING SWITCH CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect combination meter harness connector M24 and spiral cable harness connector M30.
- Check continuity between combination meter harness connector M24 and spiral cable harness connector M30.

Combinati	on meter	Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	Continuity
	21		11	
M24	22	M30	9	Yes
	23		8	

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

Combination meter			Continuity
Connector	Terminal		Continuity
	21	Ground	
M24	22		No
	23		

#### Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connector.

## Component Inspection

INFOID:0000000012227926

# 1. CHECK STEERING SWITCH RESISTANCE

Check resistance between the following steering switch terminals:

Steering switches		ng switches	Condition	Resistance (Ω)
Tern	ninals	Signal name	Condition	(Approx.)
17		Display	Depress ▷ switch.	2023
"		Back	Depress ⊴ switch.	723
	19	Enter	Depress OK switch.	2023
16		Menu Up	Depress $\Delta$ switch.	121
		Menu Down	Depress ▽ switch.	321

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace steering wheel switch. Refer to AV-184, "Removal and Installation".

## 2.CHECK SPIRAL CABLE

Check continuity between the following spiral cable terminals:

Revision: October 2015 MWI-57 2016 Maxima NAM

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## **STEERING SWITCH**

### < DTC/CIRCUIT DIAGNOSIS >

Spiral cable		Continuity
Terminals		Continuity
16	9	
17	8	Yes
19	11	

### Is the inspection result normal?

YES >> Inspection End.

NO >> Replace spiral cable. Refer to <u>SR-16. "Removal and Installation"</u>.

#### THE FUEL GAUGE INDICATOR DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

#### SYMPTOM DIAGNOSIS Α THE FUEL GAUGE INDICATOR DOES NOT OPERATE Description INFOID:0000000012227927 Fuel gauge will not indicate from a certain position. Diagnosis Procedure INFOID:0000000012227928 1.PERFORM COMBINATION METER SELF-DIAGNOSIS MODE Perform the self-diagnosis mode of combination meter, and then check that the fuel gauge operates normally. D Refer to MWI-18, "On Board Diagnosis Function". Is the inspection result normal? Е YES >> GO TO 2. NO >> Replace the combination meter. Refer to MWI-68, "Removal and Installation". 2 .CHECK COMBINATION METER INPUT SIGNAL Perform component function check. Refer to MWI-54, "Component Function Check". Does data monitor value match fuel gauge reading? YES >> GO TO 3. NO >> Replace combination meter. Refer to MWI-68, "Removal and Installation". 3.check fuel level sensor unit circuits Check the fuel level sensor circuits. Refer to MWI-54, "Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace harness or connector. 4.CHECK FUEL LEVEL SENSOR UNIT Check the fuel level sensor unit. Refer to MWI-55, "Component Inspection". Is the inspection result normal? YES >> GO TO 5. NO >> Replace fuel level sensor unit. Refer to FL-5, "Removal and Installation". K ${f 5}$ . CHECK FLOAT INTERFERENCE Check that the float arm does not interfere with or bind to other components in the fuel tank. Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident". NO >> Repair or replace malfunctioning parts. M

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### THE METER CONTROL SWITCH IS INOPERATIVE

#### < SYMPTOM DIAGNOSIS >

## THE METER CONTROL SWITCH IS INOPERATIVE

Description INFOID:000000012227929

The meter control switches are inoperative when pressed.

# Diagnosis Procedure

INFOID:0000000012227930

# 1. CHECK METER CONTROL SWITCH

Check the meter control switch. Refer to MWI-53, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace meter control switch. Refer to MWI-69, "Removal and Installation".

# 2. CHECK METER CONTROL SWITCH SIGNAL

Check the meter control switch signal. Refer to MWI-52, "Diagnosis Procedure".

#### Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-68, "Removal and Installation".

NO >> Repair or replace harness or connector.

# THE OIL PRESSURE WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

### < SYMPTOM DIAGNOSIS >

# THE OIL PRESSURE WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

Description INFOID:0000000012227931

- The low oil pressure warning message stays on when oil pressure is normal.
- The low oil pressure warning message stays off when oil pressure is low.

### Diagnosis Procedure

# 1. CHECK COMBINATION METER INPUT

(P)CONSULT

- 1. Start the engine.
- 2. Select "Data Monitor" mode of "METER/M&A".
- Select "OIL W/L".
- 4. Check that the function operates normally according to the following conditions:

Monitor item	Condition	CONSULT
OIL W/L	Engine running	Off

#### Is the inspection result normal?

YES >> Perform "Self Diagnostic Result" of "ECM". Refer to EC-73, "CONSULT Function".

NO >> Replace combination meter. Refer to MWI-68, "Removal and Installation".

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### THE PARKING BRAKE RELEASE WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

### < SYMPTOM DIAGNOSIS >

# THE PARKING BRAKE RELEASE WARNING CONTINUES DISPLAYING. OR DOES NOT DISPLAY

Description

- The parking brake warning is displayed during vehicle travel, even though the parking brake is released.
- The parking brake warning is not displayed, even while driving the vehicle with the parking brake applied.

### Diagnosis Procedure

#### INFOID:0000000012227934

# 1.CHECK PARKING BRAKE WARNING LAMP OPERATION

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

Condition	Warning lamp status
Parking brake applied	ON
Parking brake released	OFF

#### Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 2.

# 2.check parking brake switch signal circuit

- Turn ignition switch OFF.
- Check the parking brake switch signal circuit. Refer to WCS-30, "Diagnosis Procedure".

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

## 3.CHECK PARKING BRAKE SWITCH UNIT

Check the parking brake switch. Refer to WCS-30, "Component Inspection".

#### Is the inspection result normal?

YES

>> Replace combination meter. Refer to <a href="MWI-68">MWI-68</a>, "Removal and Installation". >> Replace parking brake switch. Refer to <a href="PB-11">PB-11</a>, "Removal and Installation". NO

# THE LOW WASHER FLUID WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

### < SYMPTOM DIAGNOSIS >

# THE LOW WASHER FLUID WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

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- The warning is still displayed even after washer fluid is added.
- The warning is not displayed even though the washer tank is empty.

# Diagnosis Procedure

Description

#### INFOID:0000000012227936

# 1. CHECK WASHER FLUID LEVEL SWITCH SIGNAL CIRCUIT

Check the washer fluid level switch signal circuit. Refer to MWI-56, "Diagnosis Procedure".

### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connector.

# 2.CHECK WASHER FLUID LEVEL SWITCH UNIT

Check the washer fluid level switch. Refer to MWI-56, "Component Inspection".

### Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-68, "Removal and Installation".

NO >> Replace washer fluid level switch. Refer to WW-53, "Removal and Installation".

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# THE DOOR OPEN WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

#### < SYMPTOM DIAGNOSIS >

# THE DOOR OPEN WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

Description INFOID:000000012227937

- The door open warning is displayed even though all of the doors are closed.
- The door open warning is not displayed even though a door is ajar.

### Diagnosis Procedure

INFOID:0000000012227938

# 1. CHECK BCM INPUT SIGNAL

Check the BCM input signal. Refer to DLK-98, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 2. NO >> GO TO 3.

# 2.CHECK COMBINATION METER INPUT SIGNAL

#### (P)CONSULT

- 1. Select "Data Monitor" mode of "METER/M&A".
- 2. Select "DOOR W/L".
- 3. Check that the function operates normally according to the following conditions:

Monitor item	Condition	Status
DOOR W/L	Door open	On
	Door closed	Off

#### Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-68, "Removal and Installation".

NO >> Replace BCM. Refer to BCS-82, "Removal and Installation".

# 3.CHECK DOOR SWITCH SIGNAL CIRCUIT

Check the door switch signal circuit. Refer to DLK-98, "Diagnosis Procedure".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness or connector.

## 4. CHECK DOOR SWITCH

Check the door switch. Refer to DLK-99, "Component Inspection".

#### Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-68, "Removal and Installation".

NO >> Replace applicable door switch. Refer to DLK-197, "Removal and Installation".

# THE TRUNK OPEN WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

#### < SYMPTOM DIAGNOSIS >

# THE TRUNK OPEN WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

Description INFOID:0000000012227939

- The trunk open warning is displayed continuously even though the trunk is closed.
- The trunk open warning is not displayed even though the trunk is open.

### Diagnosis Procedure

# 1. CHECK BCM INPUT SIGNAL

Check the BCM input signal. Refer to DLK-133, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 2. NO >> GO TO 3.

2. CHECK COMBINATION METER INPUT SIGNAL

### (P)CONSULT

- 1. Select "Data Monitor" mode of "METER/M&A".
- 2. Select "TRUNK/GLAS-H".
- 3. Check that the function operates normally according to the following conditions:

Monitor item	Condition	Status
TRUNK/GLAS-H	Trunk open	On
	Trunk closed	Off

#### Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-68, "Removal and Installation".

NO >> Replace BCM. Refer to BCS-82, "Removal and Installation".

# 3.CHECK TRUNK LAMP SWITCH SIGNAL CIRCUIT

Check the trunk lamp switch signal circuit. Refer to DLK-133, "Diagnosis Procedure".

#### Is the inspection result normal?

YES >> GO TO 4.

NO

NO >> Repair or replace harness or connector.

#### 4. CHECK TRUNK LAMP SWITCH

Check the trunk lamp switch. Refer to DLK-134, "Component Inspection".

#### Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-68, "Removal and Installation".

>> Replace trunk lamp switch. Refer to <u>DLK-190, "TRUNK LAMP SWITCH AND TRUNK RELEASE SOLENOID: Removal and Installation".</u>

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### THE STEERING SWITCHES ARE INOPERATIVE

#### < SYMPTOM DIAGNOSIS >

# THE STEERING SWITCHES ARE INOPERATIVE

Description INFOID.000000012227941

One or more of the steering switches to control the information display are inoperative.

Diagnosis Procedure

INFOID:0000000012227942

# 1. CHECK STEERING SWITCH CIRCUIT

Check steering switch circuit. Refer to MWI-57, "Diagnosis Procedure".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connector.

# 2. CHECK STEERING SWITCH RESISTANCE

Check steering switch resistance. Refer to MWI-57, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace steering switch. Refer to AV-184, "Removal and Installation".

# 3. CHECK SPIRAL CABLE

Check spiral cable for continuity. Refer to MWI-57, "Component Inspection".

#### Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-68, "Removal and Installation".

NO >> Replace spiral cable. Refer to SR-16, "Removal and Installation".

#### THE AMBIENT TEMPERATURE DISPLAY IS INCORRECT

#### < SYMPTOM DIAGNOSIS >

# THE AMBIENT TEMPERATURE DISPLAY IS INCORRECT Α Description INFOID:0000000012227943 • The displayed outside air temperature is higher than the actual temperature. В • The displayed outside air temperature is lower than the actual temperature. Outside air temperature is not indicated. Diagnosis Procedure INFOID:0000000012227944 1. CHECK AMBIENT SENSOR SIGNAL CIRCUIT D Check the ambient sensor signal circuit. Refer to HAC-59, "Diagnosis Procedure". Is the inspection result normal? Е YES >> GO TO 2. NO >> Repair or replace harness or connector. 2. CHECK AMBIENT SENSOR F Check the ambient sensor. Refer to HAC-61, "Component Inspection". Is the inspection result normal? YES >> Replace combination meter. Refer to MWI-68, "Removal and Installation". NO >> Replace ambient sensor. Refer to HAC-103, "Removal and Installation". Н M

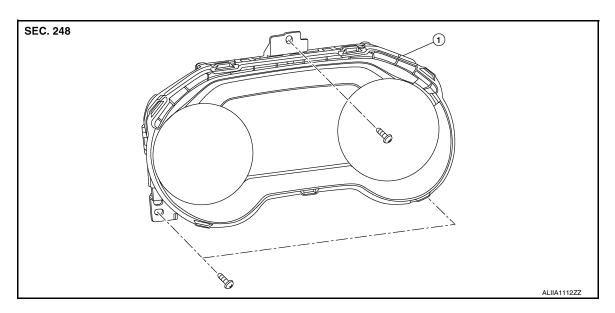
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# REMOVAL AND INSTALLATION

# **COMBINATION METER**

Exploded View



1. Combination meter

#### Removal and Installation

INFOID:0000000012227946

#### **REMOVAL**

- 1. Remove cluster lid A. Refer to IP-22, "Removal and Installation".
- 2. Remove combination meter screws.
- 3. Pull out combination meter.
- 4. Disconnect harness connector from combination meter.
- 5. Remove combination meter.

#### **INSTALLATION**

Installation is in the reverse order of removal.

## **METER CONTROL SWITCH**

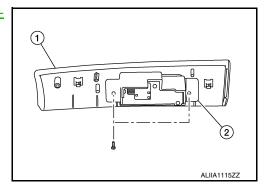
#### < REMOVAL AND INSTALLATION >

# METER CONTROL SWITCH

# Removal and Installation

#### **REMOVAL**

- 1. Remove instrument finisher A (1). Refer to <u>IP-16</u>, <u>"INSTRU-MENT FINISHER A : Removal and Installation"</u>.
- 2. Remove screws from the meter control switch (2) and remove.



#### **INSTALLATION**

Installation is in the reverse order of removal.

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### **COMBINATION METER**

< UNIT DISASSEMBLY AND ASSEMBLY >

# **UNIT DISASSEMBLY AND ASSEMBLY**

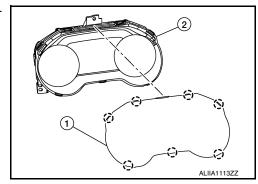
# **COMBINATION METER**

# Disassembly and Assembly

#### INFOID:0000000011935785

#### DISASSEMBLY

- 1. Remove the combination meter. Refer to MWI-68, "Removal and Installation".
- 2. Release the combination meter lens (1) pawls from the combination meter (2) using a suitable tool and remove.



#### **ASSEMBLY**

Assembly is in the reverse order of disassembly.