SECTION W METER, WARNING LAMP & INDICATOR

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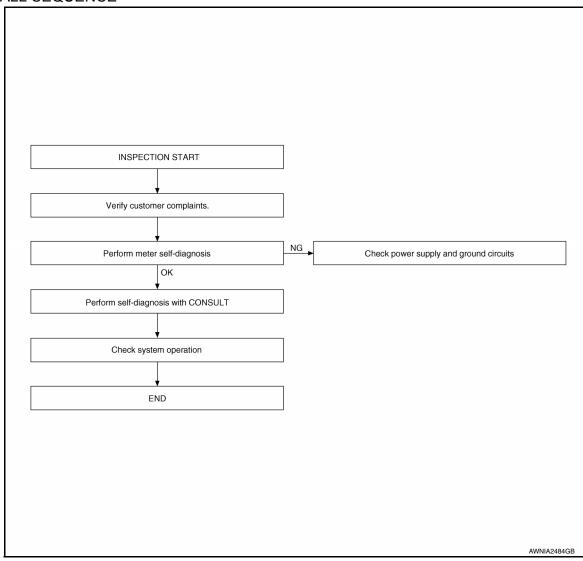
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

OVERALL SEQUENCE



DETAILED FLOW

1.CONFIRM SYMPTOM

Confirm symptom or customer complaint.

>> GO TO 2

2.CHECK SELF-DIAGNOSIS OPERATION OF COMBINATION METER

Perform self-diagnosis of combination meter. Refer to MWI-29, "Diagnosis Description".

Does self-diagnosis mode operate?

YES >> GO TO 3

NO >> Check power supply and ground circuit of combination meter. Refer to MWI-37, "COMBINATION METER: Diagnosis Procedure". Then, GO TO 4

3. CHECK COMBINATION METER (CONSULT)

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

Select "METER/M&A" on CONSULT and perform "SELF-DIAGNOSIS" of combination meter. Refer to MWI-29, "CONSULT Function (METER/M&A)".

Self-diagnostic results content

No malfunction detected>>Repair or replace the cause of symptom. Then, GO TO 4 Malfunction detected>>Refer to MWI-51, "DTC Index". Then, GO TO 4

4. CONFIRM OPERATION

Does the combination meter operate normally?

YES or NO

YES >> Inspection End.

NO >> GO TO 1

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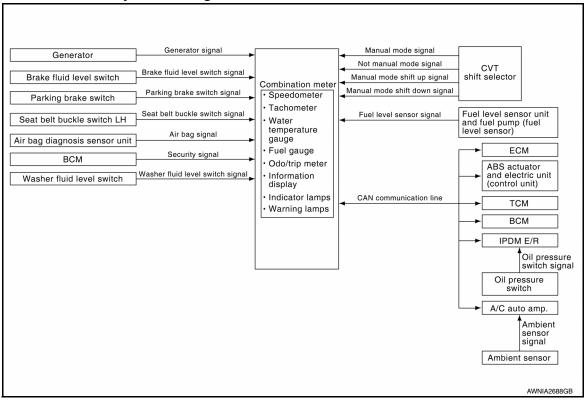
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SYSTEM DESCRIPTION

METER SYSTEM METER SYSTEM

METER SYSTEM: System Diagram

INFOID:0000000010049526



METER SYSTEM: System Description

INFOID:0000000010049527

COMBINATION METER

- Speedometer, odo/trip meter, tachometer, fuel gauge, water temperature gauge and information display are controlled by the unified meter control unit, which is built into the combination meter.
- Warning and indicator lamps are controlled by the unified meter control unit and by components connected directly to the combination meter.
- Digital meter is adopted for odo/trip meter.*
- *The record of the odometer is kept even if the battery cable is disconnected. The record of the trip meter is erased when the battery cable is disconnected.
- Odo/trip meter and information display segments can be checked in diagnosis mode.
- Meter/gauge can be checked in diagnosis mode.

EU : Except USA U: USA

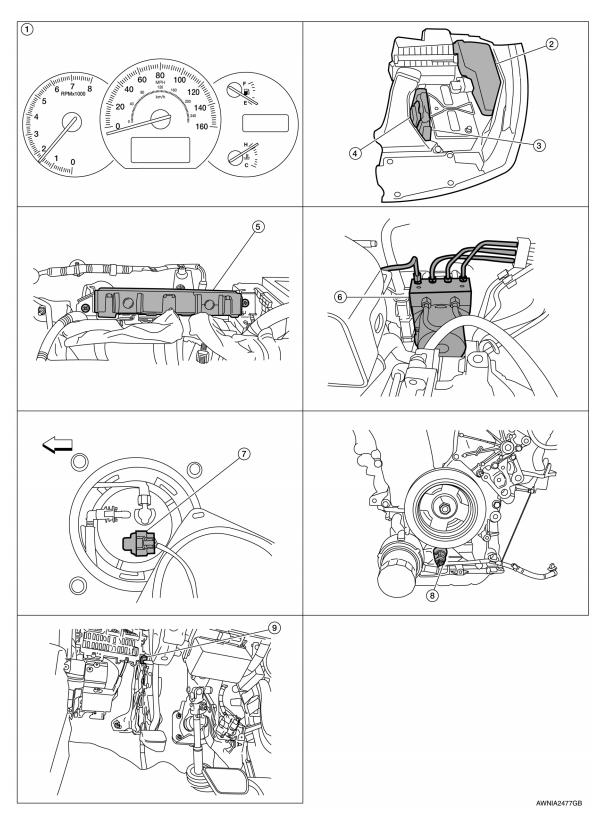
< SYSTEM DESCRIPTION > **METER SYSTEM: Arrangement of Combination Meter** INFOID:0000000010049528 4 KEY SERVICE BIOON SOON Α В CVT 💥 👗 C **™**888888 S¤88888 D Mulium 1 Е ∠ BRAKE : (U) ABS : U (ABS) : EU F (1) : EU Н 000 0 \bigcirc J K \bigcirc \bigcirc 0 0 L \bigcirc \bigcirc \bigcirc M MWI 46 45 44 43 42 41 52 51 50 49 48 47 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

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METER SYSTEM: Component Parts Location



- Combination meter M23, M24
- IPDM E/R E17, E18, E201, F10 3. ECM E10

< SYSTEM DESCRIPTION >

4. TCM F15

- 5. BCM M18, M19, M20, M21 (view with 6. instrument panel removed)
- ABS actuator and electric unit (control unit) E26

- Fuel level sensor unit and fuel pump (fuel level sensor) B42 (view with rear seat and inspection hole cover removed)
- Oil pressure switch F41 (view with en- 9. gine removed)
- Parking brake switch E35 (view with instrument lower cover LH removed)

METER SYSTEM: Component Description

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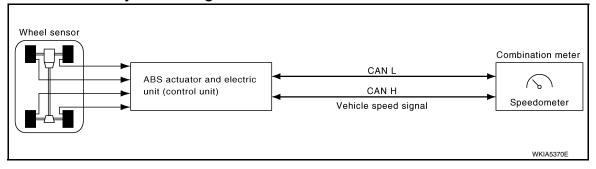
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Unit	Description
	Controls the following with the signals received from each unit via CAN communication and the signals from switches and sensors.
	• Speedometer • Tachometer
Combination meter	Engine coolant temperature gauge Fuel gauge
	Odo/trip meter Warning lamps
	Indicator lamps Warning chime
	Information display
IPDM E/R	IPDM E/R reads the ON/OFF signals of the oil pressure switch and transmits the oil pressure switch signal to the combination meter via BCM with CAN communication line.
Fuel level sensor unit and fuel pump (fuel level sensor)	Refer to MWI-40, "Description".
Oil pressure switch	Refer to MWI-42, "Description".
	Transmits the following signals to the combination meter with CAN communication line.
ECM	Engine speed signal Engine coolant temperature signal
	Fuel consumption monitor signal
ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal to the combination meter with CAN communication line.
	Transmits signals provided by various units to the combination meter with CAN communication
BCM	line. Transmits the security signal to the combination meter.
TCM	Transmits shift position signal to the combination meter with CAN communication line.
Washer fluid level switch	Transmits the washer fluid level signal to the combination meter.
Brake fluid level switch	Transmits the brake fluid level switch signal to the combination meter.
Parking brake switch	Refer to MWI-44, "Description".
DEEDOMETED	Total to mitt 11, 2000 paori.

SPEEDOMETER

SPEEDOMETER: System Diagram





SPEEDOMETER : System Description

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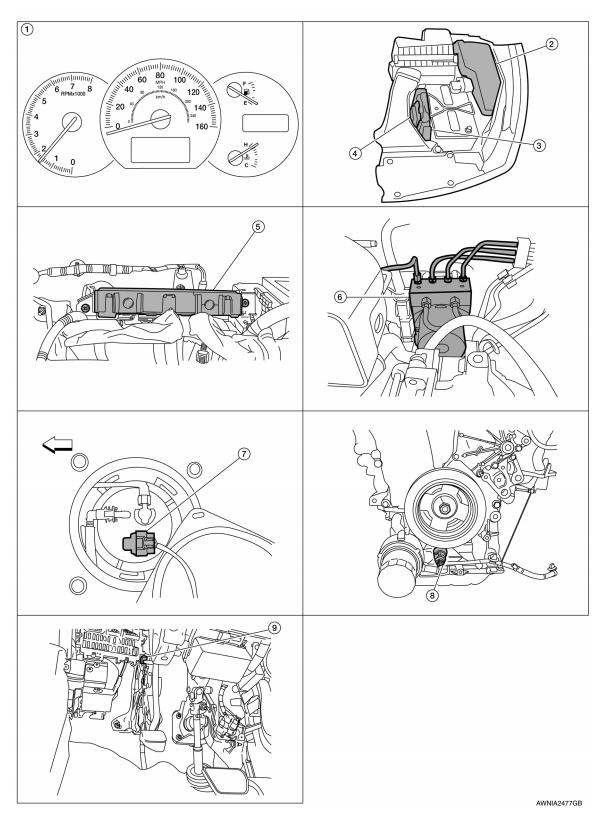
The ABS actuator and electric unit (control unit) provides a vehicle speed signal to the combination meter via CAN communication lines.

Revision: August 2013 MWI-9 2014 Maxima NAM

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SPEEDOMETER: Component Parts Location



- Combination meter M23, M24
- IPDM E/R E17, E18, E201, F10 3. ECM E10

< SYSTEM DESCRIPTION >

- TCM F15
- instrument panel removed) 8.
- BCM M18, M19, M20, M21 (view with 6. ABS actuator and electric unit (control unit) E26
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- Fuel level sensor unit and fuel pump (fuel level sensor) B42 (view with rear seat and inspection hole cover removed)
- Oil pressure switch F41 (view with en- 9. gine removed)

Parking brake switch E35 (view with instrument lower cover LH removed)

SPEEDOMETER: Component Description

Description	
Indicates the vehicle speed according to the vehicle speed signal received from ABS actuator and	
electric unit (control unit) via CAN communication.	

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electric unit (control unit) via CAN communication. ABS actuator and electric unit Transmits the vehicle speed signal to the combination meter with CAN communication line. (control unit)

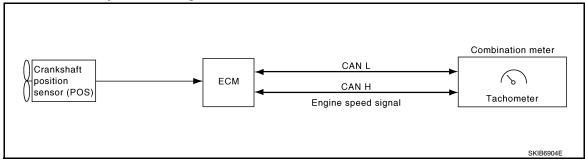
TACHOMETER

Combination meter

Unit

TACHOMETER: System Diagram

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TACHOMETER: System Description

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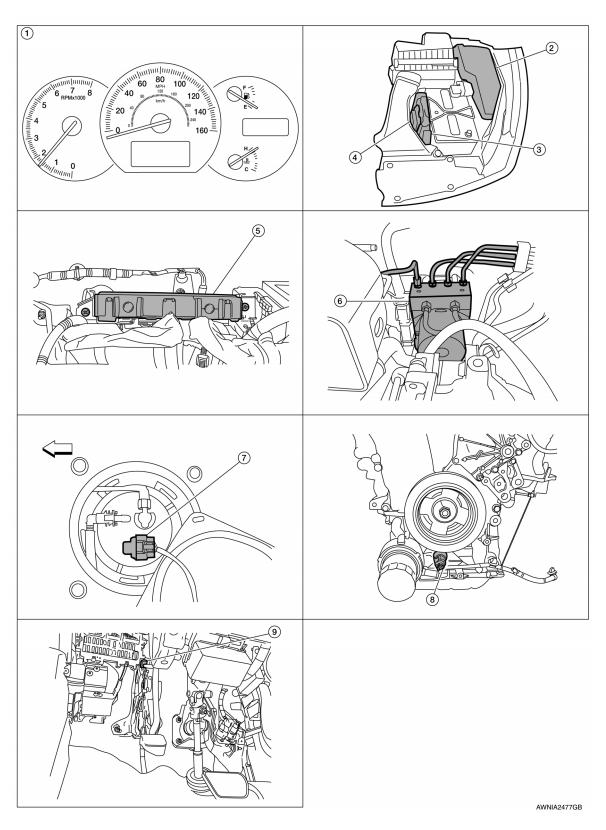
The tachometer indicates engine speed in revolutions per minute (RPM).

The ECM provides an engine speed signal to the combination meter via CAN communication lines.

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TACHOMETER: Component Parts Location



- Combination meter M23, M24
- IPDM E/R E17, E18, E201, F10 3. ECM E10

< SYSTEM DESCRIPTION >

Engine coolant temperature

sensor

- 4. TCM F15
 - Fuel level sensor unit and fuel pump 8. (fuel level sensor) B42 (view with rear seat and inspection hole cover re-
 - moved) ⇐: Front

- 5. BCM M18, M19, M20, M21 (view with 6. instrument panel removed)
- 8. Oil pressure switch F41 (view with en- 9. gine removed)
- ABS actuator and electric unit (control unit) E26
 - Parking brake switch E35 (view with instrument lower cover LH removed)

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TACHOMETER: Component Description

Unit	Description
Combination meter	Indicates the engine speed in RPM according to the engine speed signal received from ECM via CAN communication.
ECM	Transmits the engine speed signal to the combination meter with CAN communication line.

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Engine coolant temperature signal

ENGINE COOLANT TEMPERATURE GAUGE

ENGINE COOLANT TEMPERATURE GAUGE: System Diagram

ECM

Combination meter

Solution

Water temperature gauge

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ENGINE COOLANT TEMPERATURE GAUGE: System Description

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The water temperature gauge indicates the engine coolant temperature.

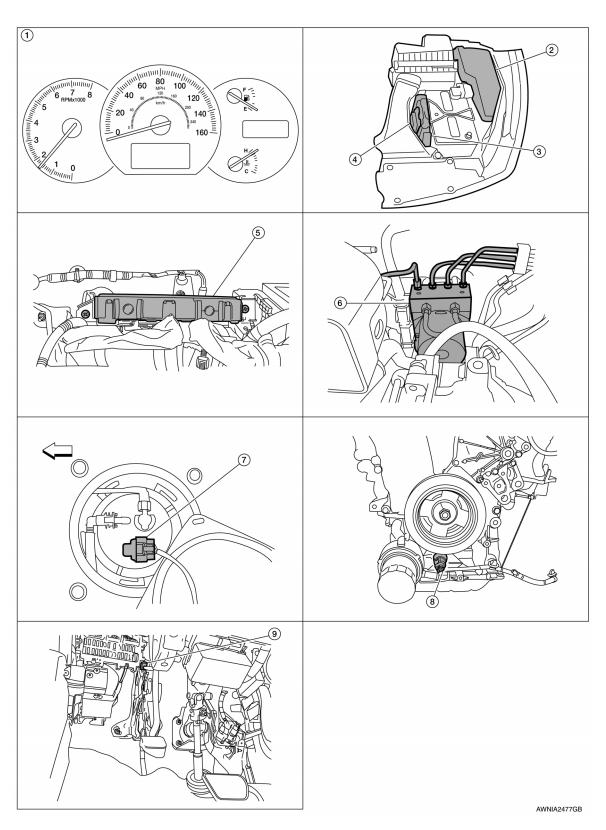
The ECM provides an engine coolant temperature signal to the combination meter via CAN communication lines.

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ENGINE COOLANT TEMPERATURE GAUGE: Component Parts Location



- Combination meter M23, M24
- 2. IPDM E/R E17, E18, E201, F10 3. ECM E10

< SYSTEM DESCRIPTION >

4. TCM F15

- 5. BCM M18, M19, M20, M21 (view with 6. instrument panel removed)
- ABS actuator and electric unit (control unit) E26

- Fuel level sensor unit and fuel pump (fuel level sensor) B42 (view with rear seat and inspection hole cover removed)
- . Oil pressure switch F41 (view with en- 9. gine removed)
- Parking brake switch E35 (view with instrument lower cover LH removed)

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ENGINE COOLANT TEMPERATURE GAUGE: Component Description

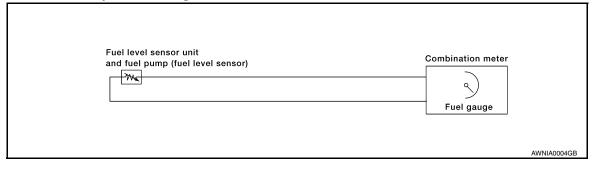
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Unit	Description
Combination meter	Indicates the engine coolant temperature according to the engine coolant temperature signal received from ECM via CAN communication.
ECM	Transmits the engine coolant temperature signal to the combination meter via CAN communication.

FUEL GAUGE

FUEL GAUGE: System Diagram

INFOID:0000000010049543



FUEL GAUGE: System Description

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The fuel gauge indicates the approximate fuel level in the fuel tank.

The fuel gauge is regulated by the unified meter control unit and a variable resistor signal supplied by the fuel level sensor unit and fuel pump (fuel level sensor).

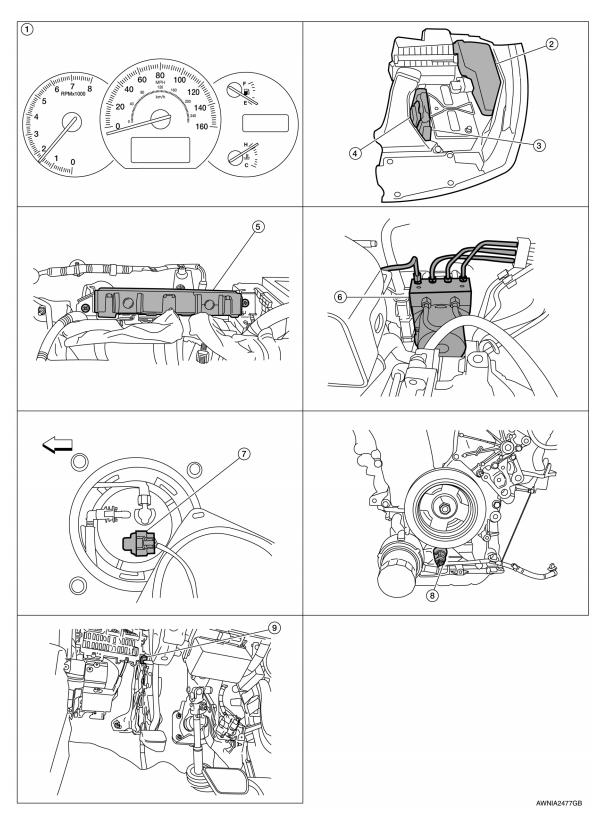
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FUEL GAUGE : Component Parts Location



- Combination meter M23, M24
- IPDM E/R E17, E18, E201, F10 3. ECM E10

< SYSTEM DESCRIPTION >

TCM F15

- Fuel level sensor unit and fuel pump (fuel level sensor) B42 (view with rear seat and inspection hole cover removed)
- BCM M18, M19, M20, M21 (view with 6. instrument panel removed)
 - ABS actuator and electric unit (control unit) E26
 - - Parking brake switch E35 (view with in-
- 8. Oil pressure switch F41 (view with en- 9. gine removed)
- strument lower cover LH removed)

FUEL GAUGE: Component Description

Unit	Description
Combination meter	Indicates the fuel level according to the fuel level sensor signal received from the fuel level sensor unit and fuel pump (fuel level sensor).
Fuel level sensor unit and fuel pump (fuel level sensor)	Refer to MWI-40, "Description".

ODO/TRIP METER

ODO/TRIP METER: System Diagram

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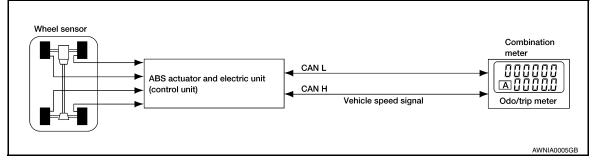
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ODO/TRIP METER: System Description

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The vehicle speed signal and the memory signals from the meter memory circuit are processed by the combination meter and the mileage is displayed.

HOW TO CHANGE THE DISPLAY FOR ODO/TRIP METER

Refer to Owner's Manual for odo/trip meter operating instructions.

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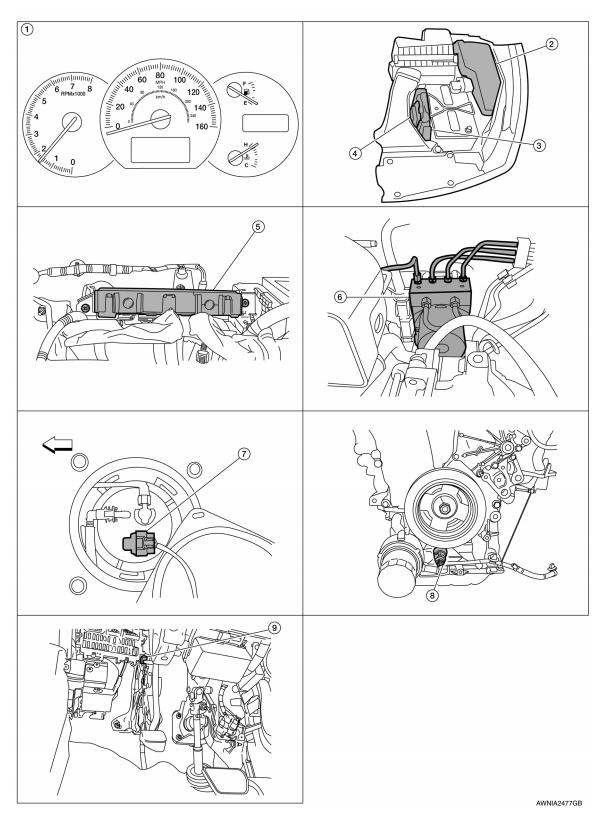
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MWI-17 Revision: August 2013 2014 Maxima NAM

ODO/TRIP METER: Component Parts Location



- Combination meter M23, M24
- IPDM E/R E17, E18, E201, F10 3. ECM E10

< SYSTEM DESCRIPTION >

- TCM F15
- Fuel level sensor unit and fuel pump (fuel level sensor) B42 (view with rear seat and inspection hole cover removed)
- BCM M18, M19, M20, M21 (view with 6. instrument panel removed)

gine removed)

- ABS actuator and electric unit (control unit) E26 Oil pressure switch F41 (view with en- 9.
 - - Parking brake switch E35 (view with instrument lower cover LH removed)

ODO/TRIP METER: Component Description

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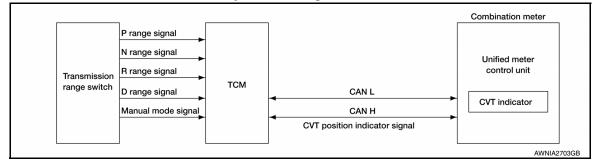
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Unit	Description	
Combination meter	Indicates the vehicle speed according to the vehicle speed signal received from ABS actuator and electric unit (control unit) via CAN communication.	
ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal to the combination meter with CAN communication line.	

SHIFT POSITION INDICATOR

SHIFT POSITION INDICATOR: System Diagram

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SHIFT POSITION INDICATOR: System Description

INFOID:0000000010049552

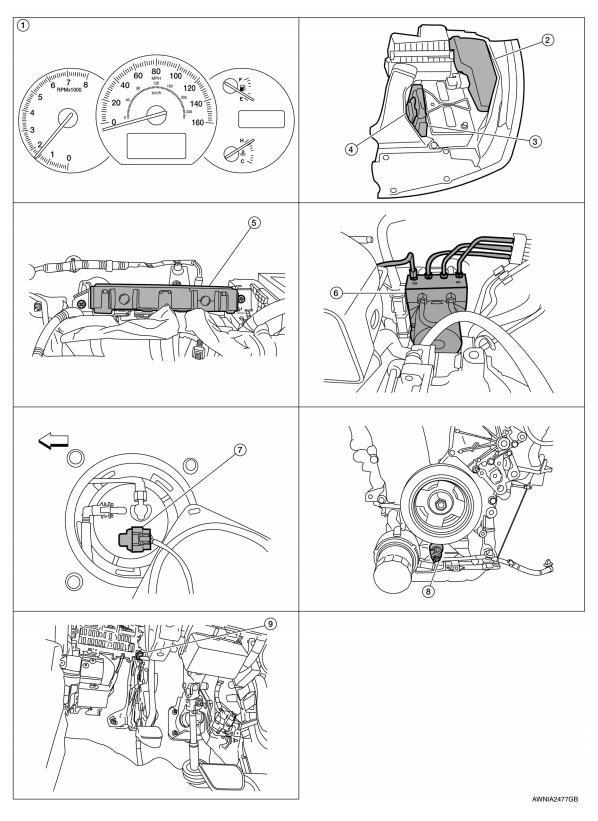
The TCM receives CVT indicator signals from the transmission range switch. The TCM then sends CVT position indicator signals to the combination meter via CAN communication lines. The combination meter indicates the received shift position.

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SHIFT POSITION INDICATOR: Component Parts Location



- Combination meter M23, M24
- IPDM E/R E17, E18, E201, F10 3. ECM E10

< SYSTEM DESCRIPTION >

TCM F15

TCM

- Fuel level sensor unit and fuel pump (fuel level sensor) B42 (view with rear seat and inspection hole cover removed)
- BCM M18, M19, M20, M21 (view with 6. instrument panel removed)

gine removed)

- ABS actuator and electric unit (control unit) E26 Oil pressure switch F41 (view with en- 9.

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Parking brake switch E35 (view with instrument lower cover LH removed)

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SHIFT POSITION INDICATOR: Component Description

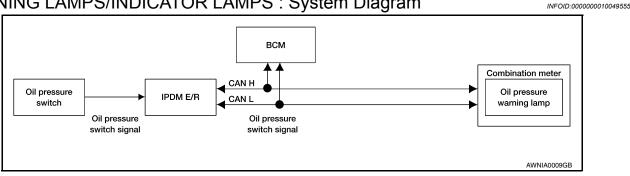
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Unit	Description
Combination meter	Displays the shift position using shift position signal received from TCM.

Transmits the shift position signal to the combination meter via CAN communication.

WARNING LAMPS/INDICATOR LAMPS

WARNING LAMPS/INDICATOR LAMPS: System Diagram



WARNING LAMPS/INDICATOR LAMPS: System Description

INFOID:0000000010049556

OIL PRESSURE WARNING LAMP

The oil pressure warning lamp is controlled by the IPDM E/R (intelligent power distribution module engine

Low oil pressure causes the oil pressure switch to provide a ground signal to the IPDM E/R. The IPDM E/R then signals the combination meter (unified meter control unit) via the CAN communication lines and ground is provided to the oil pressure warning lamp.

When power and ground are supplied, the oil pressure warning lamp illuminates.

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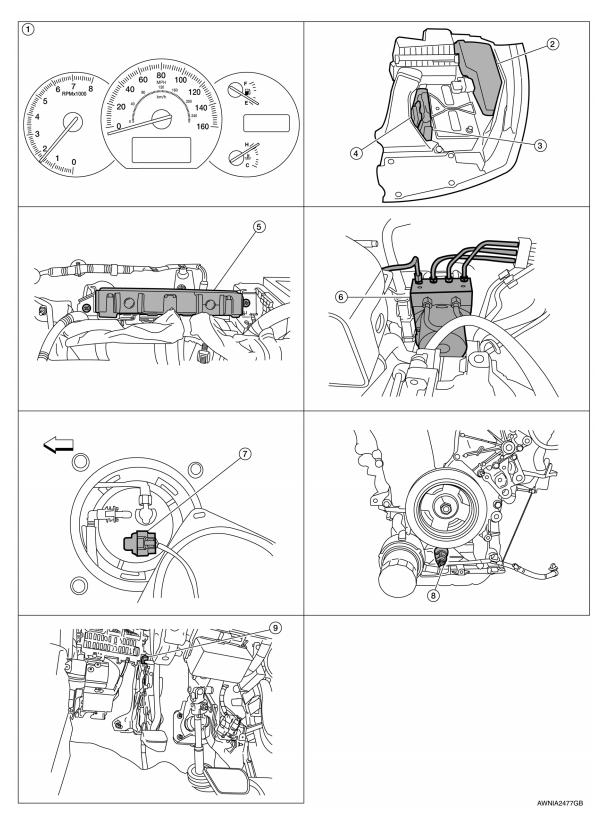
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MWI-21 Revision: August 2013 2014 Maxima NAM

WARNING LAMPS/INDICATOR LAMPS : Component Parts Location



- Combination meter M23, M24
- IPDM E/R E17, E18, E201, F10 3. ECM E10

< SYSTEM DESCRIPTION >

TCM F15

- Fuel level sensor unit and fuel pump (fuel level sensor) B42 (view with rear seat and inspection hole cover removed)
- 8. Oil pressure switch F41 (view with en- 9. gine removed)

instrument panel removed)

- BCM M18, M19, M20, M21 (view with 6. ABS actuator and electric unit (control unit) E26

 - Parking brake switch E35 (view with instrument lower cover LH removed)

WARNING LAMPS/INDICATOR LAMPS: Component Description

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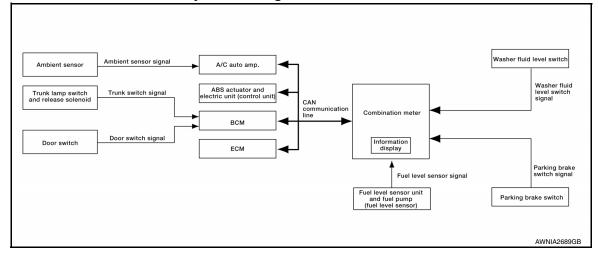
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Unit	Description		
Combination meter	Turns the oil pressure warning lamp ON/OFF according to the oil pressure switch signal received from BCM by means of communication.		
IPDM E/R	Reads the ON/OFF signals from the oil pressure switch and transmits the oil pressure switch signal to the combination meter via BCM with the CAN communication line.		
Oil pressure switch	Refer to MWI-42, "Description".		
ВСМ	Transmits the oil pressure switch signal received from IPDM E/R via CAN communication to the combination meter via CAN communication.		

INFORMATION DISPLAY

INFORMATION DISPLAY: System Diagram

INFOID:0000000010049559



INFORMATION DISPLAY: System Description

INFOID:0000000010049560

FUNCTION

The information display can indicate the following items.

- Outside air temperature
- Trip/fuel consumption readings
- · Intelligent Key operation information
- Tire pressure information
- Maintenance information
- Warning/Indication messages (Door ajar, low fuel, low washer fluid, parking brake, cruise control, loose fuel cap, check tire pressure)

OUTSIDE AIR TEMPERATURE INDICATION

The outside air temperature indication is displayed while the ignition switch is in the ON position. Indication range is between -30 and 55°C (-22 and 131°F). When outside temperature is less than 3°C (37°F), display shows ICY. The indicated temperature is not affected by engine heat. It changes only when one of the following conditions exists.

- When vehicle speed is more than approximately 20 km/h (12 MPH).
- The ignition switch has been turned OFF for more than 3.5 hours.
- When outside air temperature is less than the indicated temperature.

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MWI-23 Revision: August 2013 2014 Maxima NAM

< SYSTEM DESCRIPTION >

MPG

Average fuel consumption indication is calculated using vehicle speed signals from the ABS actuator and electric unit (control unit) and fuel consumption information from the ECM.

MPG/MPH

The average speed mode can be selected to display the average fuel consumption and average speed since last reset. The indications are calculated using vehicle speed signals from the ABS actuator and electric unit (control unit) and fuel consumption information from the ECM.

RANGE

The range indication provides the driver with an estimation of the distance that can be driven before refueling. The range is calculated using signals from the fuel level sensor unit and fuel pump (fuel level sensor) (fuel remaining), ECM (fuel consumption) and vehicle speed signals from the ABS actuator and electric unit (control unit).

TIRE PRESSURE DISPLAY

Displays the individual tire pressure details. The BCM sends the tire pressure signals to the combination meter via CAN communication lines.

DOOR AJAR WARNING

This warning appears when the Intelligent Key is in the vehicle and any door or the trunk is opened.

LOW FUEL WARNING

This warning appears when the fuel level in the fuel tank reaches approximately $12.3\,\ell$ (3 1/4 US gal, 2 3/4 Imp gal). A variable resistor signal is supplied to the combination meter from the fuel level sensor unit and fuel pump (fuel level sensor) to determine the amount of fuel in the fuel tank.

LOOSE FUEL CAP WARNING

The LOOSE FUEL CAP indicator will display in the information display when the fuel-filler cap is not tightened correctly. The indicator 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.

CHECK TIRE PRESSURE WARNING

The CHECK TIRE PRESSURE indicator will display in the information display when BCM has detected a low tire pressure condition. After 8 seconds, the Tire Pressure Warning Mode will flash and the low tire pressure will be highlighted (one of the four numbers). These two screens will continue to toggle every eight seconds until the low tire pressure condition has been corrected and the vehicle has been driven above 25 km/h (16 MPH).

LOW WINDSHIELD WASHER FLUID WARNING

This warning appears when the windshield washer fluid level is low. When the windshield washer fluid level is low, the washer fluid level switch provides a ground signal to the combination meter (unified meter control unit). The message will be displayed after the ignition switch is turned on for 3 minutes. Once fluid is added, the message will stay on for 30 seconds and then turn off.

PARKING BRAKE INDICATOR

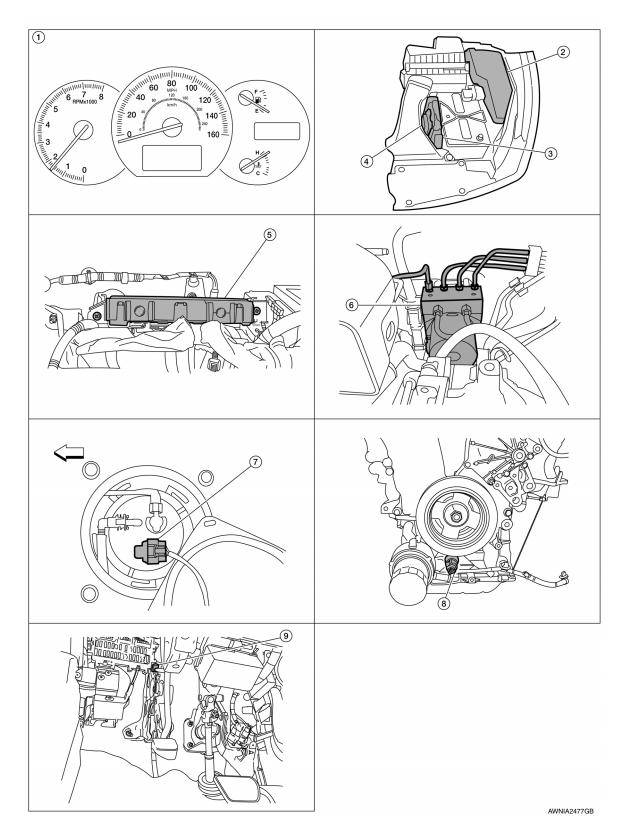
When the ignition switch is in the ON position and the parking brake is depressed, the indicator will turn on. When the parking brake is depressed, the parking brake switch provides a ground signal to the combination meter (unified meter control unit). Then, when the ignition switch is turned ON and vehicle speed is greater than 5 km/h (3 MPH), the message is displayed.

CRUISE SET INDICATOR

The cruise set indicator message is displayed when the vehicle speed is controlled by the ASCD system. The ECM provides an ASCD ON signal to the combination meter (unified meter control unit) via CAN communication lines.

INFORMATION DISPLAY: Component Parts Location

INFOID:0000000010049561



Combination meter M23, M24

2. IPDM E/R E17, E18, E201, F10

3. ECM E10

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< SYSTEM DESCRIPTION >

4. TCM F15

- 5. BCM M18, M19, M20, M21 (view with 6. instrument panel removed)
- ABS actuator and electric unit (control unit) E26

- Fuel level sensor unit and fuel pump (fuel level sensor) B42 (view with rear seat and inspection hole cover removed)
- 3. Oil pressure switch F41 (view with engine removed)
- Parking brake switch E35 (view with instrument lower cover LH removed)

 \Leftarrow : Front

INFORMATION DISPLAY: Component Description

Unit	Description		
Combination meter	Controls the information display according to the signal received from each unit.		
Fuel level sensor unit and fuel pump (fuel level sensor)	Refer to MWI-40, "Description".		
ECM	Transmits the following signals to the combination meter via CAN communication line. • Engine speed signal • Fuel consumption monitor signal • Loose fuel cap signal		
ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal to the combination meter via CAN communication line.		
BCM	Transmits signals provided by various units to the combination meter via CAN communication line.		
Washer fluid level switch	Transmits the washer fluid level signal to the combination meter.		
Parking brake switch	Refer to MWI-44, "Description".		
Door switch	Transmits the door switch signals to BCM.		
Trunk lamp switch and trunk release solenoid	Transmits the trunk switch signal to BCM.		

COMPASS

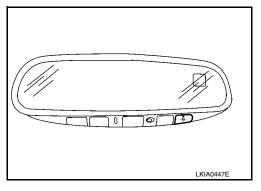
Description INFOID:000000010049563

DESCRIPTION

With the ignition switch in the ON position, and the mode (N) switch ON, the compass display will indicate the direction the vehicle is heading.

Vehicle direction is displayed as follows:

- N: north
- E: east
- · S: south
- W: west



ZONE VARIATION SETTING PROCEDURE

The difference between magnetic north and geographical north can sometimes be great enough to cause false compass readings. This difference is known as variance. In order for the compass to operate properly (accurately) in a particular zone, the zone variation must be calibrated using the following procedure.

Zone Variation Chart 2 0 15 14 13 13 12 11 11 10 7 9 9

- 1. Determine your location on the zone map.
- 2. Turn the ignition switch to the ON position.
- 3. Hold the mode (N) switch down until the current zone number is displayed.
- 4. Press the mode (N) switch repeatedly until the desired zone number appears in the display.

Compass will exit zone setting mode and display correct heading automatically.

NOTE:

Use zone number 5 for Hawaii.

CALIBRATION PROCEDURE

The compass display is equipped with an automatic correction function. If the compass display reads "C" or the direction is not shown correctly, perform the correction procedure below.

Revision: August 2013 MWI-27 2014 Maxima NAM

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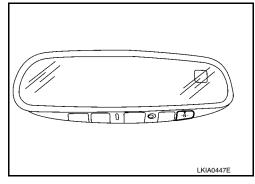
COMPASS

< SYSTEM DESCRIPTION >

- Hold the mode (N) switch until the display reads "C". Drive the vehicle slowly in a circle, in an open, safe place. The initial calibration is completed in about three turns.

NOTE:

In places where the terrestrial magnetism is extremely disturbed, the initial correction may start automatically.



DIAGNOSIS SYSTEM (METER)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (METER)

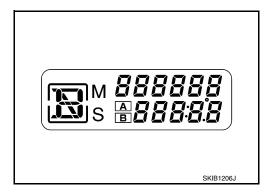
Diagnosis Description

SELF-DIAGNOSIS MODE

- Odo/trip meter and information display segment operation can be checked in self-diagnosis mode.
- Meters/gauges can be checked in self-diagnosis mode.

OPERATION PROCEDURE

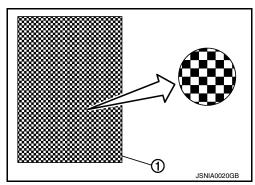
- Turn the ignition switch OFF.
- 2. While pushing the odo/trip meter switch, turn the ignition switch ON again.
- 3. Push the odo/trip meter switch at least 3 times within 7 seconds after the ignition switch is turned ON.
- 4. The unified meter control unit is turned to self-diagnosis mode.
 - All the segments on the odo/trip meter illuminate.



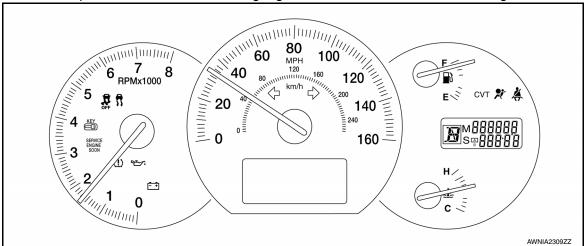
Dots in all segments of information display LCD (1) flash alternately.

NOTE:

If any of the segments are not displayed, replace the combination meter. Refer to MWI-122, "Removal and Installation".



Push the odo/trip meter switch. Each meter/gauge should indicate as shown in the figure.



CONSULT Function (METER/M&A)

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

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DIAGNOSIS SYSTEM (METER)

< SYSTEM DESCRIPTION >

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.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.

SELF-DIAG RESULTS

Display Item List

Refer to MWI-51, "DTC Index".

DATA MONITOR

Display Item List

X: Applicable

			X: Applicable
Display item [Unit]	MAIN SIGNALS	SELECTION FROM MENU	Description
SPEED METER [km/h] or [mph]	Х	Х	Displays the value of vehicle speed signal.
SPEED OUTPUT [km/h] or [mph]	Х	Х	Displays the value of vehicle speed signal, which is transmitted to each unit with CAN communication.
ODO OUTPUT		Х	Displays the value, which is calculated by vehicle speed signal.
TACHO METER [rpm]	Х	Х	Displays the value of engine speed signal, which is input from ECM.
FUEL METER [lit.]	Х	х	Displays the value, which processes a resistance signal from fuel gauge.
W TEMP METER [°C] or [°F]	Х	х	Displays the value of engine coolant temperature signal, which is input from ECM.
ABS W/L [ON/OFF]		Х	Displays [ON/OFF] condition of ABS warning lamp.
VDC/TCS IND [ON/OFF]		Х	Displays [ON/OFF] condition of VDC/TCS OFF indicator lamp.
SLIP IND [ON/OFF]		Х	Displays [ON/OFF] condition of SLIP indicator lamp.
BRAKE W/L [ON/OFF]		Х	Displays [ON/OFF] condition of brake warning lamp.*
DOOR W/L [ON/OFF]		Х	Displays [ON/OFF] condition of door warning lamp.
TRUNK/GLAS-H [ON/OFF]		Х	Displays [ON/OFF] condition of trunk warning lamp.
HI-BEAM IND [ON/OFF]		Х	Displays [ON/OFF] condition of high beam indicator.
TURN IND [ON/OFF]		Х	Displays [ON/OFF] condition of turn indicator.
LIGHT IND [ON/OFF]		Х	Displays [ON/OFF] condition of light indicator.
OIL W/L [ON/OFF]		х	Displays [ON/OFF] condition of oil pressure warning lamp.
MIL [ON/OFF]		Х	Displays [ON/OFF] condition of malfunction indicator lamp.
CRUISE IND [ON/OFF]		Х	Displays [ON/OFF] condition of CRUISE indicator.
CVT IND [ON/OFF]		Х	Displays [ON/OFF] condition of CVT warning lamp.
FUEL W/L [ON/OFF]		Х	Displays [ON/OFF] condition of low-fuel warning lamp.
WASHER W/L [ON/OFF]		Х	Displays [ON/OFF] condition of low washer fluid warning lamp.
AIR PRES W/L [ON/OFF]		Х	Displays [ON/OFF] condition of tire pressure warning lamp.
KEY G/Y W/L [ON/OFF]		Х	Displays [ON/OFF] condition of key warning lamp.
LCD		Х	Displays the value of Intelligent Key system message indication.
SHIFT IND [P, R, N, D]		Х	Displays [P, R, N, D] range position of CVT.
FUEL CAP W/L [ON/OFF]		Х	Status of fuel filler cap warning display detected from fuel filler cap warning display signal received from ECM via CAN communication.
M RANGE SW [ON/OFF]		Х	Displays [ON/OFF] condition of manual mode range switch.
NM RANGE SW [ON/OFF]		х	Displays [ON/OFF] condition of except for manual mode range switch.
ST SFT UP SW [ON/OFF]		Х	Displays [ON/OFF] condition of steering shift-up switch.

DIAGNOSIS SYSTEM (METER)

< SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	SELECTION FROM MENU	Description
ST SFT DWN SW [ON/OFF]		Х	Displays [ON/OFF] condition of steering shift-down switch.
AT SFT UP SW [ON/OFF]		Х	Displays [ON/OFF] condition of CVT shift-up switch.
AT SFT DWN SW [ON/OFF]		Х	Displays [ON/OFF] condition of CVT shift-down switch.
PKB SW [ON/OFF]		Х	Displays [ON/OFF] condition of parking brake switch.
BUCKLE SW [ON/OFF]		Х	Status of seat belt buckle switch LH.
BRAKE OIL SW [ON/OFF]		Х	Displays [ON/OFF] condition of brake fluid level switch.
MODE A SW [ON/OFF]		Х	Displays [ON/OFF] condition of mode switch A.
MODE B SW [ON/OFF]		Х	Displays [ON/OFF] condition of mode switch B.
DISTANCE [km] or [mile]		х	Displays the value, which is calculated by vehicle speed signal, fuel gauge and fuel consumption from ECM.
OUTSIDE TEMP [°C]		Х	Displays the ambient air temperature, which is input from ambient sensor.
FUEL LOW SIG [ON/FF]		Х	Displays [ON/OFF] condition of low-fuel warning signal.
BUZZER [ON/OFF]	Х	Х	Displays [ON/OFF] condition of buzzer.
TPMS PRESS L [ON/FF]		Х	Status of low tire pressure warning judged from low tire pressure warning lamp signal received from BCM with CAN communication line.

NOTE:

Some items are not available due to vehicle specification.

*: The monitor will indicate "OFF" even though the brake warning lamp is on if either of the following conditions exist.

- · The parking brake is engaged
- · The brake fluid level is low

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DTC U1000 CAN COMMUNICATION

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

DTC U1000 CAN COMMUNICATION

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display	Detection condition
U1000	CAN COMM CIRC [U1000]	When combination meter is not transmitting or receiving CAN communication signals for 2 seconds or more.

Diagnosis Procedure

INFOID:0000000010049567

Symptom: Displays "CAN COMM CIRC [U1000]" as a self-diagnosis result of combination meter.

1. CHECK CAN COMMUNICATION

Select "SELF-DIAG RESULTS" mode for "METER/M&A" with CONSULT.

>> Go to "LAN system". Refer to LAN-9. "Condition of Error Detection".

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

Description INFOID:000000010049568

Initial diagnosis of combination meter.

DTC Logic

DTC DETECTION LOGIC

DTC	Display contents of CON- SULT	Diagnostic item is detected when	Probable malfunction location
U1010	CONTROL UNIT (CAN)	If any malfunction is detected during initial diagnosis of combination meter CAN controller	Combination meter

Diagnosis Procedure

1. REPLACE COMBINATION METER

When DTC "U1010" is detected, replace combination meter. Refer to MWI-122, "Removal and Installation".

>> Inspection End.

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DTC B2205 VEHICLE SPEED CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC B2205 VEHICLE SPEED CIRCUIT

Description INFOID:000000010049571

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

DTC Logic

DTC	CONSULT display	Detection condition
B2205	VEHICLE SPEED CIRC [B2205]	Malfunction is detected when an erroneous speed signal is input for 2 seconds or more.

Diagnosis Procedure

INFOID:0000000010049573

Symptom: Displays "VEHICLE SPEED CIRC [B2205]" as a self-diagnosis result of combination meter.

1. CHECK COMBINATION METER INPUT SIGNAL

- Start engine and select "METER/M&A" on CONSULT.
- 2. Using "SPEED METER" on "DATA MONITOR", compare the value of DATA MONITOR with speedometer pointer of combination meter. Speedometer and DATA MONITOR indications should be close.

Is the inspection result normal?

- YES >> Perform ABS actuator and electric unit (control unit) self-diagnosis. Refer to BRC-21, "CONSULT Function (ABS)".
- NO >> Replace combination meter. Refer to MWI-122, "Removal and Installation".

B2267 ENGINE SPEED

< DTC/CIRCUIT DIAGNOSIS >

B2267 ENGINE SPEED

Description INFOID:000000010049574

The engine speed signal is transmitted from ECM to the combination meter via CAN communication.

DTC Logic

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	Diagnostic item is detected when	Probable malfunction location
B2267	ENGINE SPEED	ECM continuously transmits abnormal engine speed signals for 2 seconds or more	Crankshaft position sensor (POS) ECM

Diagnosis Procedure

INFOID:0000000010049576

1. PERFORM SELF-DIAGNOSIS OF ECM

Perform "Self Diagnostic Result" of ECM, and repair or replace malfunctioning parts.

>> Refer to EC-138, "CONSULT Function".

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B2268 WATER TEMP

< DTC/CIRCUIT DIAGNOSIS >

B2268 WATER TEMP

Description INFOID:000000010049577

The engine coolant temperature signal is transmitted from ECM to the combination meter via CAN communication.

DTC Logic

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	Diagnostic item is detected when	Probable malfunction location
B2268	WATER TEMP	ECM continuously transmits abnormal engine coolant temperature signals for 60 seconds or more	Engine coolant temperature sensor ECM

Diagnosis Procedure

INFOID:0000000010049579

1.PERFORM SELF-DIAGNOSIS OF ECM

Perform "Self Diagnosis Result" of ECM, and repair or replace malfunctioning parts.

>> Refer to EC-138, "CONSULT Function".

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT COMBINATION METER

INFOID:0000000010049580

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COMBINATION METER: Diagnosis Procedure

Regarding Wiring Diagram information, refer to MWI-87, "Wiring Diagram".

1. CHECK FUSES

Check for blown combination meter fuses.

Unit	Power source	Fuse No.
Combination meter	Battery	6
Combination meter	Ignition switch ON or START	4

MWI-37

Is the inspection result normal?

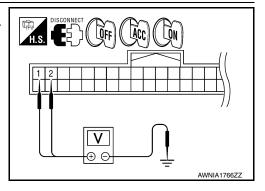
YES >> GO TO 2

NO >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.

2. POWER SUPPLY CIRCUIT CHECK

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

Terminals			Ignition switch position					
(+)		(_) OFF ON STA	(-)			ON	(–) OFF ON ST	START
Connector	Terminal		011	011	Oliviti			
M24	1	Ground	Battery voltage	Battery voltage	Battery voltage			
10124	2	Giodila	0V	Battery voltage	Battery voltage			



Is the inspection result normal?

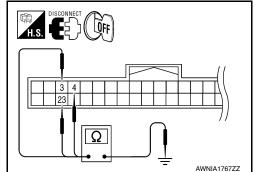
YES >> GO TO 3

NO >> Check harness for open between combination meter and fuse.

3. GROUND CIRCUIT CHECK

- Turn ignition switch OFF.
- Check continuity between combination meter harness connector terminals 3, 4, 23 and ground.

Terminals			Continuity	
(+)				
Connector	Terminal	(-)		
	3			
M24	4	Ground	Ground Yes	Yes
	23			



Is the inspection result normal?

YES >> Inspection End.

Revision: August 2013

NO >> Repair or replace harness or connector.

BCM (BODY CONTROL MODULE)

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

BCM (BODY CONTROL MODULE): Diagnosis Procedure

INFOID:0000000010062250

Regarding Wiring Diagram information, refer to BCS-67, "Wiring Diagram".

1. CHECK FUSE AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuse and fusible link No.
1		Н
11	Battery power supply	10
24		7

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.
- 3. Check voltage between BCM harness connector and ground.

(+)	(-)	Voltage
BCM			Voltage (Approx.)
Connector	Terminal		
M16	1	Ground	
M17	11		Battery voltage
M18	24		

Is the measurement normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M17	13		Yes

Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace harness.

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) : Diagnosis Procedure

Regarding Wiring Diagram information, refer to PCS-28, "Wiring Diagram".

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

1. CHECK FUSES AND FUSIBLE LINK

Check that the following IPDM E/R fuses or fusible link are not blown.

Terminal No.	Signal name Fuses and fusible link No	
1		В
2	Battery power supply	A, D
36		A, E, L

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 IPDM E/R connectors.
- 3. Check voltage between IPDM E/R harness connector and ground.

(+) IPDM E/R (-)		Voltage (V)	
		(-)	(Approx.)
Connector	Terminal		
E16	1	Ground	
LIO	2		Battery voltage
E18	36		

Is the measurement value normal?

YES >> GO TO 3

NO >> Repair harness or connector.

3. CHECK GROUND CIRCUIT

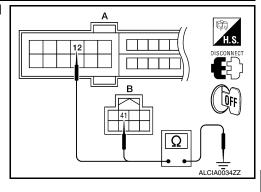
Check continuity between IPDM E/R harness connectors and ground.

IPDM E/R			Continuity
Connector	Terminal	Ground	Continuity
A: E18	12	Ground	Yes
B: E17	41		165

Does continuity exist?

YES >> Inspection End.

NO >> Repair harness or connector.



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FUEL LEVEL SENSOR SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

FUEL LEVEL SENSOR SIGNAL CIRCUIT

Description INFOID:000000010049583

The fuel level sensor unit and fuel pump (fuel level sensor) detects the approximate fuel level in the fuel tank and transmits the fuel level signal to the combination meter.

Component Function Check

INFOID:0000000010049584

1. COMBINATION METER INPUT SIGNAL

- Select "METER/M&A" on CONSULT.
- 2. Using "FUEL METER" of "DATA MONITOR", compare the value of DATA MONITOR with fuel gauge pointer of combination meter.

Fuel gauge pointer	Reference value of data monitor [lit.]
Full	Approx. 68
3/4	Approx. 56
1/2	Approx. 38
1/4	Approx. 22
Empty	Approx. 4

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

YES >> Inspection End.

NO >> Replace combination meter. Refer to MWI-122, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000010049585

Regarding Wiring Diagram information, refer to MWI-87, "Wiring Diagram".

1. CHECK HARNESS CONNECTOR

- 1. Turn ignition switch OFF.
- 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

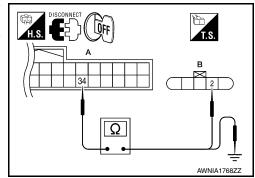
NO >> Repair or replace terminals or connectors.

2.CHECK FUEL LEVEL SENSOR UNIT AND FUEL PUMP (FUEL LEVEL SENSOR) CIRCUIT

- Disconnect combination meter connector and fuel level sensor unit and fuel pump (fuel level sensor) connector.
- Check continuity between combination meter harness connector (A) and fuel level sensor unit and fuel pump (fuel level sensor) harness connector (B).

Α		В		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M24	34	B42	2	Yes

 Check continuity between combination meter harness connector (A) and ground.



FUEL LEVEL SENSOR SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

А			Continuity
Connector	Terminal	Ground	Continuity
M24	34		No

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair harness or connector.

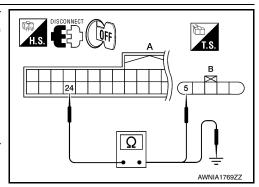
3.check fuel level sensor unit and fuel pump (fuel level sensor) ground circuit

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

А		В		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
M24	24	B42	5	Yes	

 Check continuity between combination meter harness connector (A) and ground.

	A		Continuity	
Connector	Terminal	Ground	Continuity	
M24	24		No	



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Is the inspection result normal?

YES >> GO TO 4

NO >> Repair harness or connector.

4. CHECK INSTALLATION CONDITION

Check fuel level sensor unit and fuel pump (fuel level sensor) 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 and fuel pump (fuel level sensor) properly.

Component Inspection

1. REMOVE 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-6. "Removal and Installation".

>> GO TO 2

$2. {\sf CHECK} \ {\sf FUEL} \ {\sf LEVEL} \ {\sf SENSOR} \ {\sf UNIT} \ {\sf AND} \ {\sf FUEL} \ {\sf PUMP} \ ({\sf FUEL} \ {\sf LEVEL} \ {\sf SENSOR})$

Check the resistance between terminals 2 and 5.

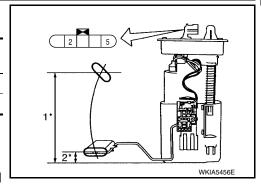
Terr	minal		Float p mm	Resistance value (Approx.)	
2	5	1*	Full (1)	154.5 (6.1)	4.5Ω
2		2*	Empty (2)	23.4 (0.9)	81.5Ω

1* and 2*: When float arm is in contact with stopper.

Is inspection result normal?

YES >> Inspection End.

NO >> Replace fuel level sensor unit and fuel pump (fuel level sensor). Refer to FL-6, "Removal and Installation".



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OIL PRESSURE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

OIL PRESSURE SWITCH SIGNAL CIRCUIT

Description INFOID:000000010049587

Detects the engine oil pressure and transmits the oil pressure switch signal to the IPDM E/R.

Component Function Check

INFOID:0000000010049588

1. COMBINATION METER INPUT SIGNAL

- 1. Select "METER/M&A" on CONSULT.
- 2. Monitor "OIL W/L" of "DATA MONITOR" while operating ignition switch.

OIL W/L

When ignition switch is in ON : ON

position (Engine stopped)

When engine is running : OFF

>> Inspection End.

Diagnosis Procedure

INFOID:0000000010049589

Regarding Wiring Diagram information, refer to MWI-87, "Wiring Diagram".

1. CHECK OIL PRESSURE SWITCH CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect IPDM E/R connector F10 and oil pressure switch connector F41.
- Check continuity between IPDM E/R harness connector F10 terminal 75 and oil pressure switch harness connector F41 terminal 1.

Continuity should exist.

4. Check continuity between IPDM E/R harness connector F10 terminal 75 and ground.

Continuity should not exist.

Are the inspection results normal?

YES >> Inspection End.

NO >> Repair harness or connector.

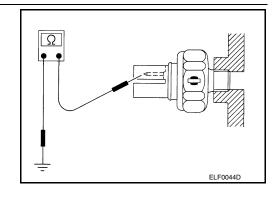
Component Inspection

INFOID:0000000010049590

1. CHECK OIL PRESSURE SWITCH

Check continuity between oil pressure switch and ground.

Condition	Oil pressure [kPa (kg/cm ² , psi)]	Continuity
Engine stopped	Less than 29 (0.3, 4)	Yes
Engine running	More than 29 (0.3, 4)	No



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< DTC	OIL PRESSURE SWITCH SIGNAL CIRCUIT /CIRCUIT DIAGNOSIS >	
YES NO	>> Inspection End. >> Replace the oil pressure switch.	A
		В
		С
		D
		Е
		F
		G
		Н
		1
		J
		K
		L
		M

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PARKING BRAKE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

PARKING BRAKE SWITCH SIGNAL CIRCUIT

Description INFOID:000000010049591

Transmits the parking brake switch signal to the combination meter.

Component Function Check

INFOID:0000000010049592

1. COMBINATION METER INPUT SIGNAL

- Select "METER/M&A" on CONSULT.
- 2. Monitor "PKB SW" of "DATA MONITOR" while applying and releasing the parking brake.

PKB SW

Parking brake depressed : ON
Parking brake released : OFF

>> Inspection End.

Diagnosis Procedure

INFOID:0000000010049593

Regarding Wiring Diagram information, refer to MWI-87, "Wiring Diagram".

1. CHECK PARKING BRAKE SWITCH CIRCUIT

- 1. Disconnect combination meter connector and parking brake switch connector.
- Check continuity between combination meter harness connector M24 (A) terminal 26 and parking brake switch harness connector tor E35 (B) terminal 1.

26 - 1 : Continuity should exist.

 Check continuity between combination meter harness connector M24 (A) terminal 26 and ground.

26 - Ground : Continuity should not exist.

H.S. DISCONNECT OFF A A AWNIA1770ZZ

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair harness or connector.

Component Inspection

INFOID:0000000010049594

1. CHECK PARKING BRAKE SWITCH

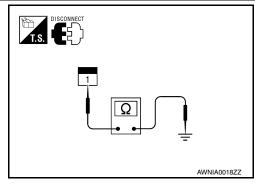
Check continuity between parking brake switch terminal 1 and switch case ground.

Component	Terminal	Condition	Continuity
Parking brake switch	1	Parking brake depressed	Yes
r arking brake switch	•	Parking brake released	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace parking brake switch.



WASHER LEVEL SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

WASHER LEVEL SWITCH SIGNAL CIRCUIT

Description INFOID:0000000010049595

Transmits the washer fluid level switch signal to the combination meter.

Component Function Check

1. COMBINATION METER INPUT SIGNAL

- Select "METER/M&A" on CONSULT.
- Monitor "WASHER W/L" of "DATA MONITOR" under the following conditions.

WASHER W/L

Washer fluid level low : ON Washer fluid level other : OFF

>> Inspection End.

Diagnosis Procedure

Regarding Wiring Diagram information, refer to MWI-87, "Wiring Diagram".

1. CHECK WASHER FLUID LEVEL SWITCH SIGNAL CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect combination meter connector and washer fluid level switch connector.
- 3. Check continuity between combination meter harness connector M24 (A) terminal 29 and washer fluid level switch harness connector E208 (B) terminal 1.

29 - 1 : Continuity should exist.

Check continuity between combination meter harness connector M24 (A) terminal 29 and ground.

29 - Ground : Continuity should not exist.

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair harness or connector.

2.CHECK WASHER FLUID LEVEL SWITCH GROUND CIRCUIT

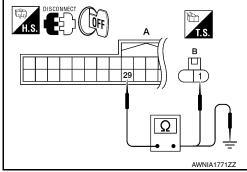
Check continuity between washer fluid level switch harness connector E208 terminal 2 and ground.

2 - Ground : Continuity should exist.

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair harness or connector.



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WASHER LEVEL SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Component Inspection

INFOID:0000000010049598

1. CHECK WASHER FLUID LEVEL SWITCH

Check continuity between washer fluid level switch terminals 1 and 2.

Terminal	Washer fluid level	Continuity
1 - 2	Low	Yes
1-2	Other	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace washer fluid level switch.

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

COMBINATION METER

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
SPEED METER [km/h or mph]	While driving	Displays the value of the vehicle speed signal.
SPEED OUTPUT [km/h or mph]	While driving	Displays the value of the vehicle speed signal which is transmitted to each unit with CAN communication.
ODO OUTPUT [kilometers or miles]	_	Equivalent to odometer reading in combination meter
TACHO METER [rpm]	While driving	Displays the value of engine speed signal which is input from the ECM.
FUEL METER [L]	_	Displays the value processed from a resistance signal from the fuel gauge.
W TEMP METER [°C] or [°F]	_	Displays the value of the engine coolant temperature signal which is input from the ECM.
ABS W/L	ABS warning lamp ON	ON
ADO WIL	ABS warning lamp OFF	OFF
VDC/TCS IND	VDC OFF indicator lamp ON	ON
VDC/TC3 IND	VDC OFF indicator lamp OFF	OFF
SLIP IND	SLIP Indicator lamp ON	ON
SLIP IND	SLIP indicator lamp OFF	OFF
DDAKE MUL*	Brake warning lamp ON	ON
BRAKE W/L*	Brake warning lamp OFF	OFF
DOOD W/I	Door warning lamp ON	ON
DOOR W/L	Door warning lamp OFF	OFF
TDUNIK/OLAC II	Trunk warning lamp ON	ON
TRUNK/GLAS-H	Trunk warning lamp OFF	OFF
LIL DE AM IND	High-beam indicator lamp ON	ON
HI-BEAM IND	High-beam indicator lamp OFF	OFF
TUDNUND	Turn signal indicator lamp ON	ON
TURN IND	Turn signal indicator lamp OFF	OFF
LICHTIND	Light indicator lamp ON	ON
LIGHT IND	Light indicator lamp OFF	OFF
OIL W//	Oil pressure warning lamp ON	ON
OIL W/L	Oil pressure warning lamp OFF	OFF
MII	Malfunction indicator lamp ON	ON
MIL	Malfunction indicator lamp OFF	OFF
CDUICE IND	CRUISE indicator ON	ON
CRUISE IND	CRUISE indicator OFF	OFF
CV/T IND	CVT warning lamp ON	ON
CVT IND	CVT warning lamp OFF	OFF

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Monitor Item	Condition	Value/Status
FUEL W/L	Low-fuel warning lamp ON	ON
FUEL W/L	Low-fuel warning lamp OFF	OFF
WASHER W/L	Low washer fluid warning lamp ON	ON
WASHER W/L	Low washer fluid warning lamp OFF	OFF
AID DDEC W/I	Low tire pressure warning lamp ON	ON
AIR PRES W/L	Low tire pressure warning lamp OFF	OFF
KEN ON MIL	Key warning lamp ON	ON
KEY G/Y W/L	Key warning lamp OFF	OFF
LCD	Intelligent Key information received	Displays the value of Intelligent Key system message indication.
	Range position indicator P display	Р
	Range position indicator R display	R
SHIFT IND	Range position indicator N display	N
	Range position indicator D display	D
	Range position indicator L display	L
FUEL CAP W/L	_	Status of fuel filler cap warning display detected from fuel filler cap warning display signal received from ECM via CAN communication.
M RANGE SW	Manual mode range switch ON	ON
WITANGE SW	Manual mode range switch OFF	OFF
NM RANGE SW	Except for manual mode range switch ON	ON
NW NANGE SW	Except for manual mode range switch OFF	OFF
ST SFT UP SW	Steering shift-up switch ON	ON
31 3F1 UF 3W	Steering shift-up switch OFF	OFF
ST SFT DWN SW	Steering shift-down switch ON	ON
31 3F1 DWW 3W	Steering shift-down switch OFF	OFF
AT SFT UP SW	CVT shift-up switch ON	ON
AT SET UP SW	CVT shift-up switch OFF	OFF
AT SFT DWN SW	CVT shift-down switch ON	ON
AT SET DWIN SW	CVT shift-down switch OFF	OFF
DICD CIM	Parking brake switch ON	ON
PKB SW	Parking brake switch OFF	OFF
BUCKLE SW	_	Status of seat belt buckle switch LH.
DDAKE OIL OM	Brake fluid level switch ON	ON
BRAKE OIL SW	Brake fluid level switch OFF	OFF
MODE A CW	Mode A switch ON	ON
MODE A SW	Mode A switch OFF	OFF
MODE B SW	Mode B switch ON	ON
WODE B 3W	Mode B switch OFF	OFF
DISTANCE [kilometers or miles]	_	Displays the value which is calculated by vehicle speed signal, fuel gauge and fuel consumption from ECM.
OUTSIDE TEMP [°C] or [°F]	_	Displays the ambient air temperature which is input from the ambient sensor.
FUEL LOW SIG	Low fuel warning displayed	ON
. 5	Low fuel warning not displayed	OFF

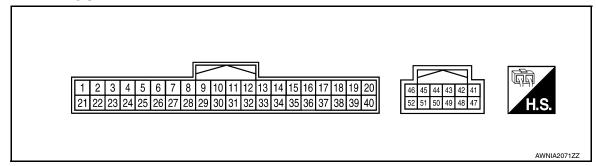
< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
BUZZER	Buzzer ON	ON	
BUZZER	Buzzer OFF	OFF	
TPMS PRESS L	_	Status of low tire pressure warning judged from low tire pressure warning lamp signal received from BCM with CAN communication line.	

NOTE:

- * The monitor will indicate "OFF" even though the brake warning lamp is on if either of the following conditions exist:
- · The parking brake is engaged
- · The brake fluid level is low

TERMINAL LAYOUT



PHYSICAL VALUES

Termi-	Wire			Condition	Reference value (V)
nal	color	Item	Ignition switch	Operation or condition	(Approx.)
1	Y/R	Battery power supply	_	_	Battery voltage
2	0	Ignition switch ON or START	ON	_	Battery voltage
3	В	Ground (Power)			0
4	В	Ground (Illumination)	_	_	U
5	В	Illumination output	_	_	Refer to INL-9, "System Description".
10	O/L	Mode switch ground	ON	_	0
11	L/R	Mode switch A	ON	Switch pressed	0
11	L/K		ON	Switch released	5
10	D/D	Made suitela D	ON	Switch pressed	0
12 B/R	Mode switch B	ON	Switch released	5	
15	45 5544	W Air bag warning lamp input	ON	Air bag warning lamp ON	3
15	BR/W		put	ON	Air bag warning lamp OFF
21	L	CAN-H	_	_	_
22	Р	CAN-L	_	_	_
23	В	Ground (Circuit)	_	_	0
24	B/W	Fuel level sensor ground	ON	_	0
25	BR	Generator	ON	Generator voltage low	0
25	DK	Generator	ON	Generator voltage normal	Battery voltage
26	G/R	Darking broke quitch	ON	Parking brake depressed	0
∠0	G/K	Parking brake switch	ON	Parking brake released	Battery voltage
27	V	Droke fluid level awitch	ON	Brake fluid level low	0
27 V	V Brake fluid level switch	ON	Brake fluid level normal	Battery voltage	

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T	\A/'			Condition	Defended at a 40		
Termi- nal	Wire color	Item	Ignition switch	Operation or condition	Reference value (V) (Approx.)		
28	28 L/O	0 ' - '	OFF	Security indicator ON	0		
20 L/O	Security indicator input	OFF	Security indicator OFF	Battery voltage			
29	R	Washer fluid level switch	ON	Washer fluid level low	0		
29	K	wasilei ilulu levei switcii	ON	Washer fluid level normal	Battery voltage		
30	L/B	Vehicle speed signal output (2-pulse)	ON	Speedometer operated [When vehicle speed is approx. 20 km/h (12 MPH)]	240 Hz		
31	V/W	Vehicle speed signal output (8-pulse)	ON	Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)]	NOTE: Maximum voltage may be 12V due to specifications (connected units). (V) 6 4 2 0 PKICO643E		
34	G/B	Fuel level sensor signal	_	_	Refer to MWI-15, "FUEL GAUGE : System Description".		
25	VA//D	Seat belt buckle switch LH	ON	Unfastened (ON)	0		
35	W/B			Fastened (OFF)	Battery voltage		
36	L/W	Seat belt buckle switch RH	ON	Unfastened (ON)	0		
30	L/VV		ON	Fastened (OFF)	Battery voltage		
37	G	Not M range	ON	Manual mode switch OFF	0		
37	G		INOT IN TAILING	Not Wilange	145t Wilange	ON	Manual mode switch ON
38	BR	BR CVT shift down	ON	Manual mode switch ON Shift down operation	0		
				Other than above	Battery voltage		
39	W	CVT shift up	ON	Manual mode switch ON Shift up operation	0		
				Other than above	Battery voltage		
40	LG/R	M range	ON	Manual mode switch OFF	Battery voltage		
40	LG/IX	W range	ON	Manual mode switch ON	0		
49	G	Paddle shifter signal	ON	Shift down operation	0		
		(shift down)	ON	Switch released	Battery voltage		
50	0	Paddle shifter signal	ON	Shift up operation	0		
		(shift up)		Switch released	Battery voltage		

Fail Safe

The combination meter performs a fail-safe operation for the functions listed below when communication is lost.

	Function	Specifications	
Speedometer			
Tachometer		Zero indication.	
Fuel gauge		Zero malcation.	
Engine coolant temperature gauge			
Illumination control Meter illumination		Change to nighttime mode when communication is lost.	

< ECU DIAGNOSIS INFORMATION >

	Function	Specifications		
Sagment I CD	Odometer	Freeze current indication.		
Segment LCD	CVT position	Display turns off.		
Buzzer		Buzzer turns off.		
	ABS warning lamp			
	Brake warning lamp			
	TCS/VDC OFF indicator lamp	Lamp turns on when communication is lost.		
	SLIP indicator lamp			
	Malfunction indicator lamp			
	CVT warning lamp			
	Oil pressure warning lamp			
	Master warning lamp			
	Air bag warning lamp	Lower transport rubes communication is last		
Warning lamp/indicator lamp	High beam indicator	Lamp turns off when communication is lost.		
	Turn signal indicator lamp			
Segment LCD Odometer CVT position Display turn Buzzer turn ABS warning lamp Brake warning lamp TCS/VDC OFF indicator lamp SLIP indicator lamp Malfunction indicator lamp CVT warning lamp Oil pressure warning lamp Master warning lamp Air bag warning lamp High beam indicator Turn signal indicator lamp CRUISE indicator lamp Intelligent Key system warning lamp Driver and passenger seat belt warning lamp Charge warning lamp Security indicator lamp Lamp turns Lamp turns Lamp turns Lamp turns Lamp turns				
	Intelligent Key system warning lamp			
	. •			
	Charge warning lamp	Lamp turns off when disconnected.		
	Security indicator lamp			
	Low tire pressure warning lamp	Lamp will flash every second for 1 minute and then stay on continuously thereafter.		

DTC Index

CONSULT display	Malfunction	Reference page
CAN COMM CIRCUIT [U1000]	When combination meter is not transmitting or receiving CAN communication signal for 2 seconds or more.	MWI-32
CONTROL UNIT (CAN) [U1010]	When detecting error during the initial diagnosis of the CAN controller of combination meter.	MWI-33
VEHICLE SPEED [B2205]	The abnormal vehicle speed signal is input from the ABS actuator and electric unit (control unit) for 2 seconds or more.	MWI-34
ENGINE SPEED [B2267]	If ECM continuously transmits abnormal engine speed signals for 2 seconds or more.	MWI-35
WATER TEMP [B2268]	If ECM continuously transmits abnormal engine coolant temperature signals for 60 secosnds or more.	MWI-36

NOTE:

"TIME" indicates the following.

- 0: Indicates that a malfunction is detected at present.
- 1-63: Indicates that a malfunction was detected in the past. (Displays number of ignition switch OFF → ON cycles after malfunction is detected. Self-diagnosis result is erased when "63" is exceeded.)

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< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Reference Value

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- · Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs
- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	OFF
FR WIPER III	Front wiper switch HI	ON
ED WIDED LOW	Other than front wiper switch LO	OFF
FR WIPER LOW	Front wiper switch LO	ON
ED WACHED CW	Front washer switch OFF	OFF
FR WASHER SW	Front washer switch ON	ON
ED WIDED INT	Other than front wiper switch INT	OFF
FR WIPER INT	Front wiper switch INT	ON
ED WIDED OTOD	Front wiper is not in STOP position	OFF
FR WIPER STOP	Front wiper is in STOP position	ON
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
TUDNI CIONAL D	Other than turn signal switch RH	OFF
TURN SIGNAL R	Turn signal switch RH	ON
TUDNI CIONIAL I	Other than turn signal switch LH	OFF
TURN SIGNAL L	Turn signal switch LH	ON
TAIL LAMP CVA	Other than lighting switch 1ST and 2ND	OFF
TAIL LAMP SW	Lighting switch 1ST or 2ND	ON
LII DE ANA OVA	Other than lighting switch HI	OFF
HI BEAM SW	Lighting switch HI	ON
LIEAD LAMB CVV 4	Other than lighting switch 2ND	OFF
HEAD LAMP SW 1	Lighting switch 2ND	ON
LIEAD LAMB OM O	Other than lighting switch 2ND	OFF
HEAD LAMP SW 2	Lighting switch 2ND	ON
DACCINIC CVV	Other than lighting switch PASS	OFF
PASSING SW	Lighting switch PASS	ON
ALITO LIQUIT OW	Other than lighting switch AUTO	OFF
AUTO LIGHT SW	Lighting switch AUTO	ON
ED EOC 8/4/	Front fog lamp switch OFF	OFF
FK FUG SW	Front fog lamp switch ON	ON
DOOD OW DD	Driver door closed	OFF
DOOK SW-DK	Driver door opened	ON
FR WIPER INT	Passenger door closed	OFF
	Passenger door opened	ON

Monitor Item	Condition	Value/Status	_
DOOD CW DD	Rear door RH closed	OFF	
DOOR SW-RR	Rear door RH opened	ON	
D00D 0W DI	Rear door LH closed	OFF	E
DOOR SW-RL	Rear door LH opened	ON	_
	Trunk door closed	OFF	_
DOOR SW-BK	Trunk door opened	ON	
25. 1 2 2 1 2 2 1	Other than power door lock switch LOCK	OFF	
CDL LOCK SW	Power door lock switch LOCK	ON	
	Other than power door lock switch UNLOCK	OFF	
CDL UNLOCK SW	Power door lock switch UNLOCK	ON	
	Other than driver door key cylinder LOCK position	OFF	E
KEY CYL LK-SW	Driver door key cylinder LOCK position	ON	_
	Other than driver door key cylinder UNLOCK position	OFF	
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	ON	l
	When hazard switch is not pressed	OFF	
HAZARD SW	When hazard switch is pressed	ON	
REAR DEF SW	When rear window defogger switch is pressed	ON	
	Trunk lid opener cancel switch OFF	OFF	
TR CANCEL SW	Trunk lid opener cancel switch ON	ON	<u> </u>
	Trunk lid opener switch OFF	OFF	
TR/BD OPEN SW	While the trunk lid opener switch is turned ON	ON	
	Trunk lid closed	OFF	_
TRNK/HAT MNTR	Trunk lid opened	ON	_
	When LOCK button of Intelligent Key is not pressed	OFF	_
RKE-LOCK	When LOCK button of Intelligent Key is pressed	ON	_
	When UNLOCK button of Intelligent Key is not pressed	OFF	_
RKE-UNLOCK	When UNLOCK button of Intelligent Key is pressed	ON	
	When TRUNK OPEN button of Intelligent Key is not pressed	OFF	
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is pressed	ON	— L
	When PANIC button of Intelligent Key is not pressed	OFF	
RKE-PANIC	When PANIC button of Intelligent Key is pressed	ON	
	When UNLOCK button of Intelligent Key is not pressed and held	OFF	\
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is pressed and held	ON	
	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF	M
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON	
	When outside of the vehicle is bright	Close to 5 V	_ `
OPTICAL SENSOR	When outside of the vehicle is dark	Close to 0 V	
	When front door request switch is not pressed (driver side)	OFF	- F
REQ SW -DR	When front door request switch is pressed (driver side)	ON	
	When front door request switch is not pressed (passenger side)	OFF	
REQ SW -AS	When front door request switch is pressed (passenger side)	ON	
	When rear door request switch is not pressed (driver side)	OFF	
REQ SW -RL			
	When rear door request switch is pressed (driver side)	ON	_

Monitor Item	Condition	Value/Status
DEO SW. DD	When rear door request switch is not pressed (passenger side)	OFF
REQ 3W -RR	When rear door request switch is pressed (passenger side)	ON
DEO SW. DD/TD	When trunk opener request switch is not pressed	OFF
REQ 3W -BD/TR	When trunk opener request switch is pressed	ON
DIICH CW	When engine switch (push switch) is not pressed	OFF
FUSH SW	When engine switch (push switch) is pressed	ON
ICN DI V2 E/D	Ignition switch OFF or ACC	OFF
IGN IXETZ -17B	Ignition switch ON	ON
ACC DIV E/R	Ignition switch OFF	OFF
ACC RLT -F/B	Ignition switch ACC or ON	ON
DDAKE CW 1	When the brake pedal is not depressed	ON
DRAKE SW I	When the brake pedal is depressed	OFF
DETE/CANCL SW	When selector lever is in P position	OFF
DETE/CANCE SW	When selector lever is in any position other than P	ON
SET DN/N SW	When selector lever is in any position other than P or N	OFF
SET PIN/IN SVV	When selector lever is in P or N position	ON
LINI K CEN DD	Driver door UNLOCK status	OFF
UNLK SEN -DK	Driver door LOCK status	ON
DUCH CW IDDM	When engine switch (push switch) is not pressed	OFF
POSH SW -IPDIVI	When engine switch (push switch) is pressed	ON
ION DIVA E/D	Ignition switch OFF or ACC	OFF
IGN RLY1 -F/B	Ignition switch ON	ON
DETE OW IDDM	When selector lever is in P position	OFF
DETE SW -IPDIVI	When selector lever is in any position other than P	ON
CET DN IDDM	When selector lever is in any position other than P or N	OFF
SET AN -INDIN	When selector lever is in P or N position	ON
CET D MET	When selector lever is in any position other than P	OFF
SELE-MET	When selector lever is in P position	ON
CET N. MET	When selector lever is in any position other than N	OFF
SELIN-MET	When selector lever is in N position	ON
	Engine stopped	STOP
ENCINE STATE	While the engine stalls	STALL
ENGINE STATE	At engine cranking	CRANK
	Engine running	RUN
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading
	Driver door LOCK status	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door UNLOCK status	UNLK
	Passenger door LOCK status	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door UNLOCK status	UNLK
VEH SPEED 2 DOOR STAT-DR	Ignition switch ACC or ON	RESET
ID OK FLAG	Ignition switch OFF	SET

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
PRMT ENG STRT	When the engine start is prohibited	RESET
TRIVIT LING STIRT	When the engine start is permitted	SET
KEY SW -SLOT	When Intelligent Key is not inserted into key slot	OFF
KET OW -SEOT	When Intelligent Key is inserted into key slot	ON
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
CONFRM ID ALL	The key ID that the key slot receives does not accord with any key ID registered to BCM.	YET
SOM NIVI ID ALL	The key ID that the key slot receives accords with any key ID registered to BCM.	DONE
CONFIRM ID4	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	YET
CONFIRM 1D4	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	DONE
CONEIDM ID3	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	YET
CONFIRM ID3	The key ID that the key slot receives accords with the third key ID registered to BCM.	DONE
CONFIDM IDO	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	YET
CONFIRM ID2	The key ID that the key slot receives accords with the second key ID registered to BCM.	DONE
CONFIDM ID4	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	YET
CONFIRM ID1	The key ID that the key slot receives accords with the first key ID registered to BCM.	DONE
TP 4	The ID of fourth key is not registered to BCM	YET
1 F 4	The ID of fourth key is registered to BCM	DONE
TP 3	The ID of third key is not registered to BCM	YET
P 3	The ID of third key is registered to BCM	DONE
TP 2	The ID of second key is not registered to BCM	YET
1P 2	The ID of second key is registered to BCM	DONE
ΓP 1	The ID of first key is not registered to BCM	YET
IF I	The ID of first key is registered to BCM	DONE
AIR PRESS FL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear LH tire
D DECST EL 4	When ID of front LH tire transmitter is registered	DONE
D REGST FL1	When ID of front LH tire transmitter is not registered	YET
D DECOT ED:	When ID of front RH tire transmitter is registered	DONE
D REGST FR1	When ID of front RH tire transmitter is not registered	YET
ID DECOT ET :	When ID of rear RH tire transmitter is registered	DONE
D REGST RR1	When ID of rear RH tire transmitter is not registered	YET
	When ID of rear LH tire transmitter is registered	DONE
D REGST RL1	When ID of rear LH tire transmitter is not registered	YET

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Monitor Item	Condition	Value/Status
WARNING LAMP	Tire pressure indicator OFF	OFF
	Tire pressure indicator ON	ON
BU77FR	Tire pressure warning alarm is not sounding	OFF
BOZZEN	Tire pressure warning alarm is sounding	ON

Terminal Layout

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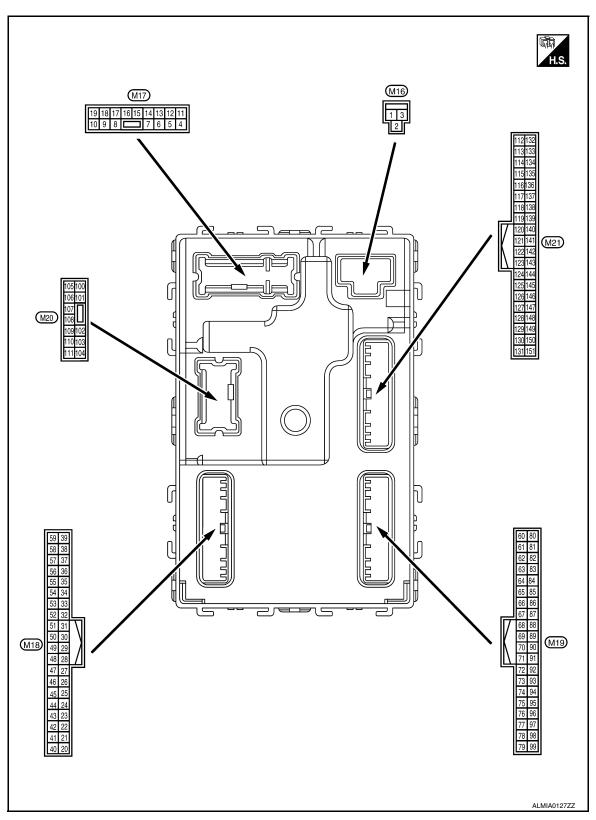
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Physical Values

		.				
	inal No. e color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OFF		Battery voltage
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON		Battery voltage
4	Ground	Interior room lamp	Output	After passing the interior room lamp battery saver operation time		0V
(P/W)	Oround	power supply	Output	Any other time after lamp battery save	er passing the interior room roperation time	Battery voltage
5	Ground	Front door RH UN-	Output	Front door PH	UNLOCK (actuator is activated)	Battery voltage
(G)	Orouna	LOCK	Output	Front door RH Other than UNLOCK (actuator is not activated)		0V
7	Ground	Step lamp	Output	Step lamp	ON	OV
(R/W)	Cround	Otop lamp	Output	Otop lamp	OFF	Battery voltage
8	Ground	All doors LOCK	Output	All doors	LOCK (actuator is activated)	Battery voltage
(V)	0.000	, doo.o 200.t	Ошрис	i	Other than LOCK (actuator is not activated)	ov
9	Ground	Front door LH UN-	Output	Front door LH	UNLOCK (actuator is activated)	Battery voltage
(L)		LOCK			Other than UNLOCK (actuator is not activated)	ov
10	Ground	Rear door RH and rear door LH UN-	Output	Rear door RH	UNLOCK (actuator is activated)	Battery voltage
(G)		LOCK		and rear door LH	Other than UNLOCK (actuator is not activated)	0V
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
13 (B)	Ground	Ground	_	Ignition switch ON		ov
					OFF	0V
14 (GR/ W)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position (V) 10 0 2 ms JSNIA0010GB
15	Crainal	ACC indicator law-	Outout	lanition cuitab	OFF	Battery voltage
(Y/L)	Ground	ACC indicator lamp	Output	Ignition switch	ACC or ON	0V

	inal No.	Description				Value	А
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	\wedge
					Turn signal switch OFF	0V	В
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	C
					Turn signal switch OFF	0V	E
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	F
19	_	Room lamp timer	_	Interior room	OFF	Battery voltage	Н
(Y)	Ground	control	Output	lamp	ON	0V	- 11
21	Ground	Optical sensor signal	Input	Ignition switch	When outside of the vehi- cle is bright	Close to 5V	
(P/B)	0.00	opassa senser eigna	ON		When outside of the vehi- cle is dark	Close to 0V	
24 (R/W)	Ground	Stop lamp switch 1	Input		_	Battery voltage	J
26	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (brake pedal is released)	0V	K
(O/L)	Ground	Stop famp switch 2	прис	Stop famp switch	ON (brake pedal is depressed)	Battery voltage	-
27 (O)	Ground	Front door lock assembly LH (unlock sensor)	Input	Front door LH	LOCK status	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V	M
					UNLOCK status	0V	
29	Ground	Key slot switch	Input	When Intelligent K	ey is inserted into key slot	Battery voltage	0
(Y)	Cround	. to, diet ownor	put	When Intelligent K	ey is not inserted into key slot	0V	<u>-</u>
31	Ground	Rear window defog-	Input	Rear window de-	OFF	0V	Р
(G)		ger feedback signal		fogger switch	ON	Battery voltage	

	inal No.	Description				Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	OFF (when front door RH closes)	(V) 15 10 5 0 10 ms 10 ms 11.8 V
					ON (when front door RH opens)	0V
37 (O)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB
					ON	0V
38 (GR/ W)	Ground	Rear window defog- ger ON signal	Input	Rear window de- fogger switch	OFF	5V 0V
40 (Y/G)	Ground	Power window serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB
				Ignition switch OF	F or ACC	0V
41		Engine switch (push		Engine switch	ON	5.5V
(W)	Ground	switch) illumination	Output	(push switch) illu- mination	OFF	0V
42	Graund	LOCK indicator lamp	Output	LOCK indicator	ON	0V
(R)	Ground	-	Output	lamp	OFF	Battery voltage
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON		0V
46	Ground	Receiver & sensor	Output	Ignition switch	OFF	0V
(V/W)		power supply output		g	ACC or ON	5.0V

	inal No.	Description				Value	А
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
47		Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 ••• 0.2s	B C D
(G/O)	Ground	er signal	Output		When receiving the signal from the transmitter	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E F
48		Selector lever trans-			P or N position	12.0V	G
(R/G)	Ground	mission range switch signal	Input	Selector lever	Except P and N positions	0V	
					ON	0V	Н
49 (L/O)	Ground	Security indicator signal	Output	Security indicator	Blinking	(V) 15 10 5 0 1 s JPMIA0014GB	J
					OFF	Battery voltage	K
50				Combination	All switch OFF Lighting switch 1ST Lighting switch high-beam	0V (V)	L
50 (LG/ B)	Ground	Combination switch OUTPUT 5	Input	switch (Wiper intermit- tent dial 4)	Lighting switch 2ND Turn signal switch RH	10 5 0 2 ms	M
						JРМIA0031GB 10.7V	MW
					All switch OFF (Wiper intermittent dial 4)	ov	
					Front wiper switch HI (Wiper intermittent dial 4)	(V)	0
51 (L/W)	Ground	Combination switch OUTPUT 1	Input	Combination switch	Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7	15 10 5 0 2 ms JPMIA0032GB	Р

	inal No. e color)	Description			0 1111	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	0V
					Front washer switch ON (Wiper intermittent dial 4)	(V) 15
52 (G/B)	Ground	Combination switch OUTPUT 2	Input	Combination switch	Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	2 ms JPMIA0033GB
-					All switch OFF	0V
					Front wiper switch INT	
				Combination	Front wiper switch LO	(V)
53 (LG/ R)	Ground	Combination switch OUTPUT 3	ion switch switch	switch (Wiper intermit-	Lighting switch AUTO	10 5 0 2 ms JPMIA0034GB
					All switch OFF	10.7V
				(wiper intermit-	Front fog lamp switch ON	OV
		Combination switch OUTPUT 4	Input		Lighting switch 2ND	(V)
54 (G/Y)	Ground				Lighting switch flash-to- pass	15 10 5 0
				tent dial 4)	Turn signal switch LH	2 ms JPMIA0035GB
57 (W)	Ground	Tire pressure warn- ing check switch	Input		_	5V
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V
					ON (front door LH OPEN)	0V
59	Ground	Rear window defog-	Output	Rear window de-	Active	Battery voltage
(G/R)			fogger	Not activated	0V	

	inal No. e color)	Description				Value	
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	А
20					When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	B C
60 (B/R)	Ground	Front console antenna 2 (-)	Output	Ignition switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	E
61		Center console an-		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	G H
(W/R)	Ground	tenna 2 (+)	Output	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 1	J K L
62		Front outside handle		When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	MW
(V)	Ground	RH antenna (-)	Output	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	O

	ninal No. e color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
63				When the front	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(P)	ed with ignition switch OFF When Intelligent	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB			
64	Ground	round Front outside handle LH antenna (-)	Output	When the front door LH request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(V)	Sidulid				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
65	Ground	Front outside handle	Quitout	When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(P)	Giouria	LH antenna (+) Output	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	

	inal No. e color)	Description	_		Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
68 (G/O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
69 (O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
70 (R/B)	Ground	Ignition relay-2 control	Output	Ignition switch	OFF or ACC	0V Battery voltage
71	Ground	Remote keyless entry	During waiting			(V) 15 10 5 1 ms 1 ms JMKIA0064GB
(L/O) Ground	Ground	receiver signal	Output	When operating either button on Intelligent Key		(V) 15 10 5 0 1 ms JMKIA0065GB
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
75 (R/Y) Ground	Ground	und Combination switch INPUT 5	Output	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB

	inal No.	Description				Value
(Wire (+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
		Combination switch INPUT 3	Output	Output Combination switch	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V
76 (R/G)	Ground				Lighting switch high-beam (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V
· -/					Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB
78 (P)	Ground	CAN-L	Input/ Output		_	_
79 (L)	Ground	CAN-H	Input/ Output		_	_
80 (R/L)	Ground	Key slot illumination	Output	Key slot illumina- tion	OFF	Battery voltage (V) 15 10 5 0 JPMIA0015GB 6.5V
81 (LG)	Ground	ON indicator lamp	Output	Ignition switch	ON OFF or ACC ON	0V 0V Battery voltage

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	inal No.	Description				Value	A
(+)	e color) (-)	Signal name	Input/ Output	Condition		(Approx.)	-
83 (L)	Ground	ACC relay control	Output	Ignition switch	OFF ACC or ON	0V	Е
84 (Y/R)	Ground	CVT shift selector	Output		—	Battery voltage Battery voltage	
87 (G/B)	Ground	Selector lever P position switch	Input	Selector lever	P position Any position other than P	0V Battery voltage	
					ON (pressed)	0V	
88 (R)	Ground	Front door RH request switch	Input	Front door RH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB	E
					ON (pressed)	0V	G
89 (R)	Ground	Front door LH request switch	Innut	Front door LH request switch	OFF (not pressed)	(V) 15 10 5	F
						10 ms JPMIA0016GB	1
90	Ground	Blower fan motor re-	Output	Ignition switch	OFF or ACC	0V	J
(Y)		lay control	•		ON	Battery voltage	
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		Battery voltage	K

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	inal No.	Description				Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V
					Turn signal switch LH	(V) 15 10 0 2 ms JPMIA0037GB 1.3V
95 (R/W)	Ground	Combination switch INPUT 1	Output	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3V

< ECU DIAGNOSIS INFORMATION >

	ninal No.	Description				Value	
(+)	re color)	Signal name	Input/ Output		Condition	(Approx.)	
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V	
					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms	
96 (P/B)	Ground	Combination switch INPUT 4	Output	Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	1.3V (V) 15 10 2 ms JPMIA0036GB	
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	1.3V (V) 15 10 2 ms JPMIA0039GB 1.3V	

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	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB
					Lighting switch flash-to- pass	(V) 15 10 5 0 2 ms JPMIA0037GB
97 (R/B)	Ground	Combination switch INPUT 2	Output	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3V
					Pressed	0 V
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1V

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	inal No.	Description				Value
(Wir	e color)	Signal name	Input/ Output		Condition	(Approx.)
103	Carried	To calc list on a give	0.44	Tarrell lid	Open (trunk lid opener actuator is activated)	Battery voltage
(V)	Ground	Trunk lid opening.	Output	Trunk lid	Close (trunk lid opener actuator is not activated)	ov
110	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0V
(V/W)	Oround	Trank room lamp	Оигрис	Traint room lamp	OFF	Battery voltage
114	Ground	Trunk room antenna	Quitout	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(B) Grou	Glound	1 (-)	Output	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB
115	Ground	Trunk room antenna	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB
(W)	Signific	1 (+) Output OFF	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	

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	inal No. e color)	Description				Value	
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	
118	Ground	Rear bumper anten-		When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(L/O)	Clound	na (-)	Output	ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
119 (BR/	Ground	Rear bumper anten-	Output	When the trunk lid request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
`W)		na (+)			When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	
127 (BR/ W)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC	Battery voltage 0V	
130 (W)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (trunk is closed)	(V) 15 10 5 0 10 ms 11.8V	
					ON (trunk is open)	0V	
132	Ground	Starter motor relay control	Output	Ignition switch ON	When selector lever is in P or N position and the brake is depressed	Battery voltage	
(R)	Siguria				When selector lever is in P or N position and the brake is not depressed	0V	

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	inal No. e color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
140	Ground	Engine switch (push	Input	Engine switch	Pressed	0V
(BR)	0.000	switch)		(push switch)	Not pressed	Battery voltage
141 (BR)	Ground	Trunk opener request switch	Input	Trunk opener request switch	ON (pressed) OFF (not pressed)	(V) 15 10 10 ms JPMIA0016GB
144	Ground	Request switch buzz-	Output	Request switch	Sounding	0V
(GR)	Ground	er	Output	buzzer	Not sounding	Battery voltage
147	Ground	Trunk lid opener	Input	Trunk lid opener	Pressed	0V
(L/R)	Giodila	switch	iliput	switch	Not pressed	Battery voltage
148 (R/W)	Ground	Rear door RH switch	Input	Rear door RH switch	OFF (when rear door RH closes)	(V) 15 10 5 0 10 ms 10 ms JPMIA0011GB
					ON (when rear door RH opens)	0V
149 (R/B)	Ground	Rear door LH switch	Input	Rear door LH switch	OFF (when rear door LH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V
					ON (when rear door LH opens)	ov

Fail Safe

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Erase DTC
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Starter control relay signal • Starter relay status signal

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Display contents of CONSULT	Fail-safe	Cancellation
B2562: LO VOLTAGE	Inhibit engine cranking	100 ms after the power supply voltage increases to more than 8.8 V
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent • Starter motor relay control signal • Starter relay status signal (CAN)
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B26E1: ENG STATE NO RECIV	Inhibit engine cranking	When any of the following conditions are fulfilled Power position changes to ACC Receives engine status signal (CAN)

DTC Inspection Priority Chart

INFOID:000000001006225

If some DTCs are displayed at the same time, perform inspections one by one based on the following priority chart.

Priority	DTC
1	B2562: LO VOLTAGE
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)
3	 B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM
4	 B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP SWITCH B2605: PNP SWITCH B2608: STARTER RELAY B2608: STARTER RELAY B2609: ENG STATE SIG LOST B2614: ACC RELAY CIRC B2615: BLOWER RELAY CIRC B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC B2618: BCM B2611: PUSH-BTN IGN SW B2612: ENG STATE NO RECIV C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG

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Priority	DTC	
5	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RR C1708: [NO DATA] FL C1709: [NO DATA] FL C1710: [NO DATA] FR C1711: [NO DATA] RR C1711: [NO DATA] RL C1712: [CHECKSUM ERR] FL C1714: [CHECKSUM ERR] FR C1715: [CHECKSUM ERR] RR C1716: [PRESSDATA ERR] FR C1716: [PRESSDATA ERR] FR C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1712: [CODE ERR] RR C1720: [CODE ERR] RR C1721: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FR C1726: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RR	
6	C1734: CONTROL UNIT B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA	

DTC Index

NOTE:

Details of time display

CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.

1 - 39: Displayed if any previous malfunction is present when current condition is normal. It increases 1 → 2
 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter
 remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch
 OFF → ON after returning to the normal condition if the malfunction is detected again.

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	BCS-32
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-33
U0415: VEHICLE SPEED SIG	_	_	_	BCS-34
B2190: NATS ANTENNA AMP	×	_	_	<u>SEC-37</u>
B2191: DIFFERENCE OF KEY	×	_	_	SEC-40
B2192: ID DISCORD BCM-ECM	×	_	_	<u>SEC-41</u>
B2193: CHAIN OF BCM-ECM	×	_	_	<u>SEC-42</u>
B2553: IGNITION RELAY	_	_	_	PCS-46
B2555: STOP LAMP	_	_	_	<u>SEC-43</u>
B2556: PUSH-BTN IGN SW	_	×	_	<u>SEC-46</u>
B2557: VEHICLE SPEED	×	×	_	<u>SEC-48</u>
B2560: STARTER CONT RELAY	×	×	_	SEC-49

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CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2562: LOW VOLTAGE	_	_	_	BCS-35
B2601: SHIFT POSITION	×	×	_	<u>SEC-50</u>
B2602: SHIFT POSITION	×	×	_	<u>SEC-53</u>
B2603: SHIFT POSI STATUS	×	×	_	<u>SEC-56</u>
B2604: PNP SWITCH	×	×	_	<u>SEC-59</u>
B2605: PNP SWITCH	×	×	_	<u>SEC-61</u>
B2608: STARTER RELAY	×	×	_	<u>SEC-63</u>
B260A: IGNITION RELAY	×	×	_	PCS-48
B260F: ENG STATE SIG LOST	×	×	_	<u>SEC-65</u>
B2614: ACC RELAY CIRC	_	×	_	PCS-50
B2615: BLOWER RELAY CIRC	_	×	_	PCS-53
B2616: IGN RELAY CIRC	_	×	_	PCS-56
B2617: STARTER RELAY CIRC	×	×	_	<u>SEC-67</u>
B2618: BCM	×	×	_	PCS-59
B261A: PUSH-BTN IGN SW	_	×	_	PCS-60
B2622: INSIDE ANTENNA	_	_	_	<u>DLK-60</u>
B2623: INSIDE ANTENNA	_	_	_	<u>DLK-63</u>
B26E1: ENG STATE NO RES	×	×	_	<u>SEC-66</u>
C1704: LOW PRESSURE FL	_	_	×	<u>WT-43</u>
C1705: LOW PRESSURE FR	_	_	×	<u>WT-43</u>
C1706: LOW PRESSURE RR	_	_	×	<u>WT-43</u>
C1707: LOW PRESSURE RL	_	_	×	<u>WT-43</u>
C1708: [NO DATA] FL	_	_	×	<u>WT-13</u>
C1709: [NO DATA] FR	_	_	×	<u>WT-13</u>
C1710: [NO DATA] RR	_	_	×	<u>WT-13</u>
C1711: [NO DATA] RL	_	_	×	<u>WT-13</u>
C1712: [CHECKSUM ERR] FL	_	_	×	<u>WT-15</u>
C1713: [CHECKSUM ERR] FR	_	_	×	<u>WT-15</u>
C1714: [CHECKSUM ERR] RR	_	_	×	<u>WT-15</u>
C1715: [CHECKSUM ERR] RL	_	_	×	<u>WT-15</u>
C1716: [PRESSDATA ERR] FL	_	_	×	<u>WT-17</u>
C1717: [PRESSDATA ERR] FR	_	_	×	<u>WT-17</u>
C1718: [PRESSDATA ERR] RR	_	_	×	<u>WT-17</u>
C1719: [PRESSDATA ERR] RL	_	_	×	<u>WT-17</u>
C1720: [CODE ERR] FL	_	_	×	<u>WT-15</u>
C1721: [CODE ERR] FR	_	_	×	<u>WT-15</u>
C1722: [CODE ERR] RR	_	_	×	<u>WT-15</u>
C1723: [CODE ERR] RL	_	_	×	<u>WT-15</u>
C1724: [BATT VOLT LOW] FL	_	_	×	<u>WT-15</u>
C1725: [BATT VOLT LOW] FR	_	_	×	<u>WT-15</u>
C1726: [BATT VOLT LOW] RR	_	_	×	<u>WT-15</u>
C1727: [BATT VOLT LOW] RL	_	_	×	<u>WT-15</u>

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1729: VHCL SPEED SIG ERR	_	_	×	<u>WT-19</u>
C1734: CONTROL UNIT	_	_	×	<u>WT-20</u>

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< ECU DIAGNOSIS INFORMATION >

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

Reference Value

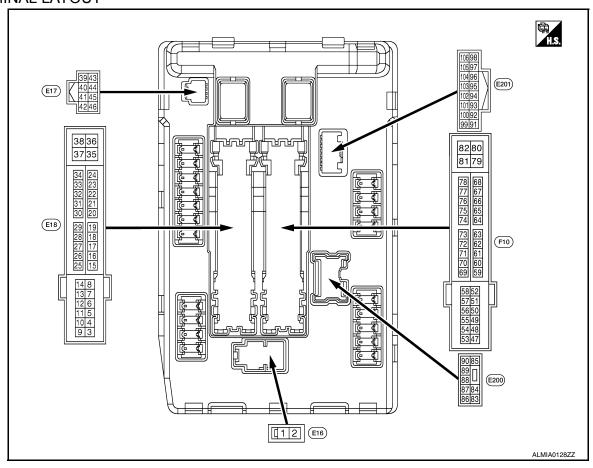
VALUES ON THE DIAGNOSIS TOOL

Monitor Item	(Condition	
MOTOR FAN REQ	Engine idle speed	Changes depending on engine coolant temperature, air conditioner operation status, vehicle speed, etc.	1,2,3,4
		A/C switch OFF	Off
AC COMP REQ	Engine running	A/C switch ON (Compressor is operating)	On
TAIL A OL D. D.F.O.	Lighting switch OFF		Off
TAIL&CLR REQ	Lighting switch 1ST, 2ND, HI or	AUTO (Light is illuminated)	On
III I O DEO	Lighting switch OFF		Off
HL LO REQ	Lighting switch 2ND HI or AUTO	(Light is illuminated)	On
	Lighting switch OFF		Off
HL HI REQ	Lighting switch HI		On
		Front fog lamp switch OFF	Off
FR FOG REQ	Lighting switch 2ND or AUTO (Light is illuminated)	 Front fog lamp switch ON Daytime running light activated (Only for Canada models) 	On
		Front wiper switch OFF	STOP
FR WIP REQ	Impition quitab ON	Front wiper switch INT	1LOW
	Ignition Switch ON	Front wiper switch LO	Low
	Front wiper sw		Hi
		Front wiper stop position	STOP P
WIP AUTO STOP	Ignition switch ON	Any position other than front wiper stop position	ACT P
		Front wiper operates normally	Off
WIP PROT	Ignition switch ON	Front wiper stops at fail-safe operation	BLOCK
ION DIVI DEO	Ignition switch OFF or ACC		Off
IGN RLY1 -REQ	Ignition switch ON		On
ION DLV	Ignition switch OFF or ACC		Off
IGN RLY	Ignition switch ON		On
DITCH CW	Engine running A/C switch OFF A/C switch ON (Compressor is operating) Lighting switch OFF Lighting switch 1ST, 2ND, HI or AUTO (Light is illuminated) Lighting switch OFF Lighting switch 2ND HI or AUTO (Light is illuminated) Lighting switch OFF Lighting switch 4ND or AUTO (Light is illuminated) Front fog lamp switch OF Pront fog lamp switch OF Front wiper switch OFF Front wiper switch OFF Front wiper switch INT Front wiper switch HI Front wiper switch HI Front wiper stop position Any position other than from the stop position Ignition switch ON Ignition switch ON Ignition switch ON Ignition switch ON Release the push-button ignition switch Ignition switch ON CVT selector lever in any other than P or N	switch	Off
PUSH SW	Press the push-button ignition sy	witch	On
INTER/NR OW	Ignition switch ON	CVT selector lever in any position other than P or N	Off
INTER/NP SW	Ignition switch ON	CVT selector lever in P or N position	On
OT DLY CONT	Ignition switch ON	<u> </u>	Off
ST RLY CONT	At engine cranking		On
HIDT DLV DEO	Ignition switch ON		Off
IHBT RLY -REQ	At engine cranking		On

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Con	dition	Value/Status
	Ignition switch ON	Off	
	At engine cranking	ST →INHI	
ST/INHI RLY	The status of starter relay or starter of the battery voltage malfunction, etc. starter control relay is OFF	UNKWN	
DETENT SW	Ignition switch ON	 Press the selector button with CVT selector lever in P position CVT selector lever in any position other than P 	
	Release the CVT selector button wi	On	
DTRL -REQ	DTRL ON	On	
DIKL-KEQ	DTRL OFF	Off	
OIL P SW	Ignition switch OFF, ACC or engine	running	Open
OIL P SW	Ignition switch ON	Close	
	Not operated	Off	
THFT HRN REQ	Panic alarm is activated Horn is activated with VEHICLE S TEM	On	
HORN CHIRP	Not operated		Off
HORN CHIRP	Door locking with Intelligent Key (ho	orn chirp mode)	On

TERMINAL LAYOUT



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	inal No.	Description				Value
+ (VVire	e color)	Signal name	Input/ Output		Condition	(Approx.)
1 (R)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (L)	Ground	Battery power supply	Input	Ignition swi	itch OFF	Battery voltage
4 (LG)	Ground	Front wiper LO	Output	Ignition switch ON	Front wiper switch OFF Front wiper switch LO	0 V Battery voltage
5	Ground	Front wiper HI	Output	Ignition switch ON	Front wiper switch OFF	0 V
(Y) 6	Ground	Daytime light relay power supply (Canada models	Output	Ignition swi	Front wiper switch HI	Battery voltage Battery voltage
(L) 7		only) Tail, license plate lamps &		Ignition	Lighting switch OFF	0 V
(GR)	Ground	interior lamps	Output	switch ON	Lighting switch 1ST	Battery voltage
10				Ignition swi (For a few s switch OFF	seconds after turning ignition	0 V
(BR)	Ground	ECM relay power supply	Output			Battery voltage
12 (B)	Ground	Ground		Ignition swi	itch ON	0 V
13				Approximately 1 second or more after turning the ignition switch ON		0 V
(SB)	Ground	Fuel pump power supply	Output		nately 1 second after turning on switch ON unning	Battery voltage
15	Ground	Ignition relay-1 power sup-	Output	Ignition swi	itch OFF	0 V
(W)	Ground	ply	Catput	Ignition swi	I	Battery voltage
16 (R)	Ground	Front wiper auto stop	Input	Ignition switch ON	Front wiper stop position Any position other than front wiper stop position	0 V Battery voltage
19	Ground	Ignition relay-1 power sup-	Output	Ignition swi	itch OFF	0 V
(Y)	Giodila	ply	Output	Ignition swi	itch ON	Battery voltage
20 (L)	Ground	Ambient sensor ground		Ignition swi	itch ON	ov
21 (LG)	Ground	Ambient sensor	_	Ignition swi	itch ON	5V
22 (SB)	Ground	Refrigerant pressure sensor ground	_	Ignition swi	itch ON	ov
23 (GR)	Ground	Refrigerant pressure sensor	_	Ignition switch ON (READY) Both A/C switch and blower motor switch ON (electric compressor operates)		1.0 - 4.0V
24 (G)	Ground	Refrigerant pressure sensor power supply	_	Ignition swi	itch ON	5V
25	Ground	Ignition relay-1 power sup-	Output	Ignition swi		0 V
(GR)		ply	•	Ignition swi	itch ON	Battery voltage

	inal No.	Description				Value	
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
27	Ground	Ignition relay monitor	Input	Ignition swi	itch OFF or ACC	Battery voltage	- - В
(W)	0.000	iginion roley monitor		Ignition swi	itch ON	0 V	_
28	Ground	Push-button ignition	Input	Press the p	oush-button ignition switch	0 V	
(SB)	Ordana	switch	mpat	Release the	e push-button ignition switch	Battery voltage	С
30	Ground	Starter relay control	Input		or lever in any position other (ignition switch ON)	0 V	
(BR)	Cround	Clarici Tolay control	mpat	CVT select switch ON)	for lever P or N (ignition	Battery voltage	D
34	Ground	Cooling fan relay-3 control	Input	Ignition sw	itch OFF or ACC	0 V	_
(O)	Ground	Cooling lan relay-3 control	Input	Ignition swi	itch ON	0.7 V	E
35	Cround	Cooling for motor control	Output	Ignition swi	itch OFF or ACC	0 V	_
(P)	Ground	Cooling fan motor control	Output	Ignition swi	itch ON	0.7 V	_
36 (G)	Ground	Battery power supply	Input	Ignition swi	itch OFF	Battery voltage	_ '
38	01	On the factor of the sector.	0.1.1	Ignition switch OFF or ACC		0 V	G
(GR)	Ground	Cooling fan motor control	Output	Ignition switch ON		0.7 V	_ 0
39 (P)	_	CAN - L	Input/ Output	_		_	— Н
40 (L)	_	CAN - H	Input/ Output	_		_	_
41 (B)	Ground	Ground	_	Ignition switch ON		0 V	_
42	Cround	Cooling for roles, 2 control	lmmt	Ignition sw	itch OFF or ACC	0 V	_
(SB)	Ground	Cooling fan relay-2 control	Input	Ignition swi	itch ON	0.7 V	J
					Press the CVT selector button (CVT selector lever P)	Battery voltage	K
43 (Y)	Ground	CVT shift selector (Detention switch)	Input	Ignition switch ON	CVT selector lever in any position other than P Release the CVT selector button (CVT selector lever P)	0 V	L
44	Ground	Horn relay control	Input	The horn is	s deactivated	Battery voltage	M
(W)	Cround	Tioni Tolay oblidor	put	The horn is	sactivated	0 V	_
45	Ground	Anti theft horn relay control	Input	The horn is	deactivated	Battery voltage	MW
(GR)	Cidana	7 and dioletion rollay control	put	The horn is	activated	0 V	
46	Ground	Starter relay control	Input		or lever in any position other I (ignition switch ON)	0 V	_ 0
(BR)	Ground	Starter relay control	mput	CVT select switch ON)	or lever P or N (ignition	Battery voltage	
					A/C switch OFF	0 V	_ Р
48 (W)	Ground	A/C relay power supply	Output	Engine running	A/C switch ON (A/C compressor is operating)	Battery voltage	_ `

	inal No.	Description				Value		
+	e color)	Signal name	Input/ Output		Condition	(Approx.)		
49				Ignition swi (For a few s switch OFF	seconds after turning ignition	0 V		
(R/B)	Ground	ECM relay power supply	Output	Ignition s (More that	switch ON switch OFF an a few seconds after turn- on switch OFF)	Battery voltage		
51	Ground	Ignition relay power supply	Output	Ignition swi		0 V		
(LG)			Battery voltage					
52 (Y/G)	Ground	Ignition relay power supply	Output	Ignition swi		0 V		
(170)				Ignition swi		Battery voltage		
53				Ignition swi (For a few s switch OFF	seconds after turning ignition	0 V		
(R/W)	Ground	ECM relay power supply	Output			Battery voltage		
				Ignition swi (For a few s switch OFF	seconds after turning ignition	0 V		
54 (G/W)	Ground	Throttle control motor re- lay power supply	Output	Ignition s (More that	switch ON switch OFF an a few seconds after turn- on switch OFF)	Battery voltage		
55 (W/L)	Ground	ECM power supply	Output	Ignition swi	itch OFF	Battery voltage		
56	Ground	Ignition relay power supply	Output	Ignition swi	tch OFF	0 V		
(R/Y)	Ground	ignition relay power supply	Output	Ignition swi	tch ON	Battery voltage		
57	Ground	Ignition relay power supply	Output	Ignition swi	itch OFF	0 V		
(O)		3		Ignition swi		Battery voltage		
58 (Y)	Ground	Ignition relay power supply	Output	Ignition swi		0 V		
(1)				Ignition swi		Battery voltage		
69				Ignition swi (For a few s switch OFF	seconds after turning ignition	Battery voltage		
(W/B)	Ground	ECM relay control	Output			0 - 1.5 V		
						0 -1.0 V		
70		Throttle control motor re-		Ignition swi	itch ON → OFF	↓ Battery voltage		
(O)	Ground	lay control	Output	3		↓ o∨		
				Ignition swi	itch ON	0 - 1.0 V		
7.0					CVT selector lever in P or N position	Battery voltage		
72 (R/B)	Ground	Transmission range switch signal	Input	Ignition switch ON	CVT selector lever in any position other than P or N position	0 V		

/\ A /:	inal No.	Description				Value			
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)			
75	Ground	Oil pressure switch	Input	Ignition	Engine stopped	0 V			
(LG)	Ground	Oil pressure switch	iliput	switch ON	Engine running	Battery voltage			
				Ignition sw	itch ON	(V) 6 4 2 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
76 (SB)	Ground	Power generation command signal	Output		on "Active test", "ALTERNA- " of "ENGINE"	(V) 6 4 2 0 2ms JPMIA0002GB 3.8 V			
					on "Active test", "ALTERNA- /" of "ENGINE"	(V) 6 4 2 0 2 2ms JPMIA0003GB 1.4 V			
77 (GR)	Ground	Fuel pump relay control	Output		nately 1 second after turning on switch ON unning	0 - 1.0 V			
(0.1)					tely 1 second or more after ignition switch ON	Battery voltage			
80 (B)	Ground	Starter motor	Output	At engine of	cranking	Battery voltage			
83				Ignition	Lighting switch OFF	0 V			
(R/Y)	Ground	Headlamp LO (RH)	Output	switch ON	Lighting switch 2ND	Battery voltage			
84	Ground	Headlamp LO (LH)	Output	Ignition	Lighting switch OFF	0 V			
(L)	Cround	Treadianip LO (LIT)	Juiput	switch ON	Lighting switch 2ND	Battery voltage			
86 (W/R)	Ground	Front fog lamp (RH)	Output	Lighting switch 2ND	Front fog lamp switch ON Daytime running light activated (Only for Canada models)	Battery voltage			
					Front fog lamp switch OFF	0 V			
87	Ground	Front fog lamp (LH)	Output	Lighting switch 2ND	Front fog lamp switch ON Daytime running light activated (Only for Canada models)	Battery voltage			
(L/Y)					add modelo)				

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value			
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)			
88 (R/W)	Ground	Washer pump power supply	Output	Ignition swi	itch ON	Battery voltage			
89 (L/W)	Ground	Headlamp HI (RH)	Output	Ignition switch ON	Lighting switch HI Lighting switch PASS	Battery voltage			
(L/VV)				SWILCH ON	Lighting switch OFF	0 V			
90 (G)	Ground	Headlamp HI (LH)	Output	Ignition switch ON	Lighting switch HI Lighting switch PASS	Battery voltage			
(G)				SWILCH ON	Lighting switch OFF	0 V			
91		Parking lamp (RH)		Ignition	Lighting switch 1ST	Battery voltage			
(LG/ R)	Ground	Side marker lamp (RH)	Output	switch ON	Lighting switch OFF	0 V			
92		Parking lamp (LH)		Ignition	Lighting switch 1ST	Battery voltage			
(LG/ B)	Ground	Side marker lamp (LH)	Output	switch ON	Lighting switch OFF	0 V			
99 (BR/ W)	Ground	Ambient sensor ground	_	Ignition swi	itch ON	0V			
100 (SB)	Ground	Ambient sensor	_	Ignition swi	itch ON	5V			
101 (W)	Ground	Refrigerant pressure sensor ground	_	Ignition swi	itch ON	0V			
102 (R)	Ground	Refrigerant pressure sensor	_	Both A/C	witch ON (READY) switch and blower motor N (electric compressor oper-	1.0 - 4.0V			
103 (P)	Ground	Refrigerant pressure sensor power supply	_	Ignition swi	itch ON	5V			
105	Ground	Daytime light relay control	Output	Ignition switch ON	Daytime light system active	Battery voltage			
(V)	(V) Ground	(Only for Canada models)	Output	Ignition switch ON	Daytime light system inactive	0 V			

Fail Safe

CAN COMMUNICATION CONTROL

When CAN communication with ECM and BCM is impossible, IPDM E/R performs fail-safe control. After CAN communication recovers normally, it also returns to normal control.

If No CAN Communication Is Available With ECM

Control part	Fail-safe in operation
Cooling fan	 Signals cooling fans ON when the ignition switch is turned ON Signals cooling fans OFF when the ignition switch is turned OFF
A/C compressor	A/C relay OFF
Generator	Outputs the power generation command signal (PWM signal) 0%

If No CAN Communication Is Available With BCM

< ECU DIAGNOSIS INFORMATION >

Control part	Fail-safe in operation
Headlamp	 Turns ON the headlamp low relay when the ignition switch is turned ON Turns OFF the headlamp low relay when the ignition switch is turned OFF Headlamp high relay OFF
Parking lampsSide marker lampsLicense plate lampsIlluminationTail lamps	 Turns ON the tail lamp relay when the ignition switch is turned ON Turns OFF the tail lamp relay when the ignition switch is turned OFF
Front wiper	 The status just before activation of fail-safe control is maintained until the ignition switch is turned OFF while the front wiper is operating at LO or HI speed. The wiper is operated at LO speed until the ignition switch is turned OFF if the fail-safe control is activated while the front wiper is set in the INT mode and the front wiper motor is operating.
Front fog lamps (if equipped)	Front fog lamp relay OFF
Horn	Horn OFF
Ignition relay	The status just before activation of fail-safe is maintained.
Starter motor	Starter control relay OFF

IGNITION RELAY MALFUNCTION DETECTION FUNCTION

- IPDM E/R monitors the voltage at the contact circuit and excitation coil circuit of the ignition relay-1 inside it.
- IPDM E/R judges the ignition relay-1 error if the voltage differs between the contact circuit and the excitation coil circuit.
- If the ignition relay-1 cannot turn OFF due to contact seizure, it activates the tail lamp relay for 10 minutes to alert the user to the ignition relay-1 malfunction when the ignition switch is turned OFF.

DTC	Ignition switch	Ignition relay-1	Tail lamp relay
_	ON	ON	_
_	OFF	OFF	_
B2098: IGN RELAY ON	OFF	ON	ON (10 minutes)
B2099: IGN RELAY OFF	ON	OFF	_

NOTE:

The tail lamp turns OFF when the ignition switch is turned ON.

FRONT WIPER CONTROL

IPDM E/R detects front wiper stop position by a front wiper auto stop signal.

When a front wiper auto stop signal is in the conditions listed below, IPDM E/R stops power supply to wiper after repeating a front wiper 10 seconds activation and 20 seconds stop five times.

Ignition switch	Front wiper switch	Auto stop signal
ON	OFF	Front wiper stop position signal cannot be input 10 seconds.
	ON	The signal does not change for 10 seconds.

NOTE:

This operation status can be confirmed on the IPDM E/R "Data Monitor" that displays "BLOCK" for the item "WIP PROT" while the wiper is stopped.

STARTER MOTOR PROTECTION FUNCTION

IPDM E/R turns OFF the starter control relay to protect the starter motor when the starter control relay remains active for 90 seconds.

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< ECU DIAGNOSIS INFORMATION >

DTC Index

CONSULT display	Fail-safe	TIME	NOTE	Refer to
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	×	CRNT	1 – 39	PCS-15
B2098: IGN RELAY ON	×	CRNT	1 – 39	PCS-16
B2099: IGN RELAY OFF	_	CRNT	1 – 39	PCS-17
B210B: START CONT RLY ON	_	CRNT	1 – 39	<u>SEC-69</u>
B210C: START CONT RLY OFF	_	CRNT	1 – 39	<u>SEC-72</u>
B210D: STARTER RELAY ON	_	CRNT	1 – 39	<u>SEC-72</u>
B210E: STARTER RELAY OFF	_	CRNT	1 – 39	<u>SEC-74</u>
B210F: INTRLCK/PNP SW ON	_	CRNT	1 – 39	<u>SEC-76</u>
B2110: INTRLCK/PNP SW OFF	_	CRNT	1 – 39	<u>SEC-78</u>

NOTE:

The details of TIME display are as follows.

- CRNT: The malfunctions that are detected now
- 1 39: The number is indicated when it is normal at present and a malfunction was detected in the past. It increases like 0 → 1 → 2 ··· 38 → 39 after returning to the normal condition whenever IGN OFF → ON. It is fixed to 39 until the self-diagnosis results are erased if it is over 39. It returns to 0 when a malfunction is detected again in the process.

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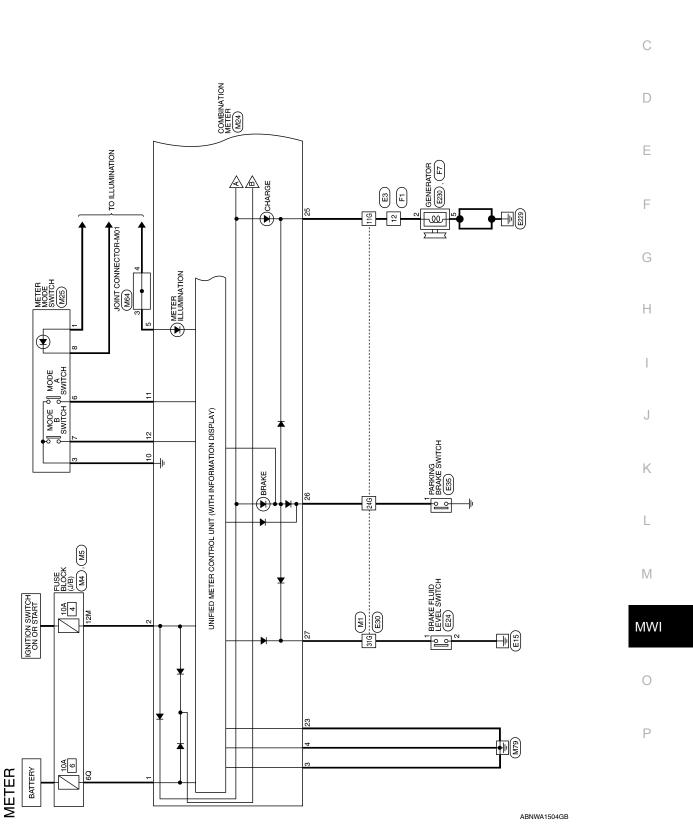
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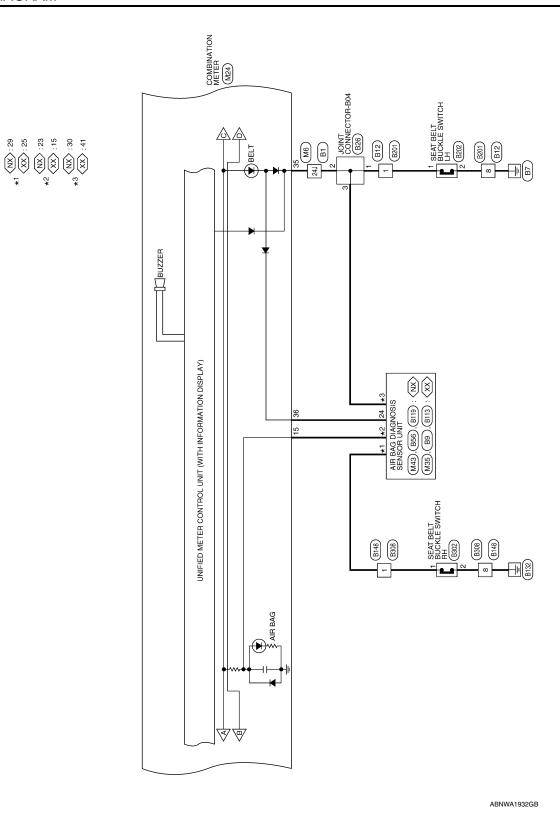
WIRING DIAGRAM

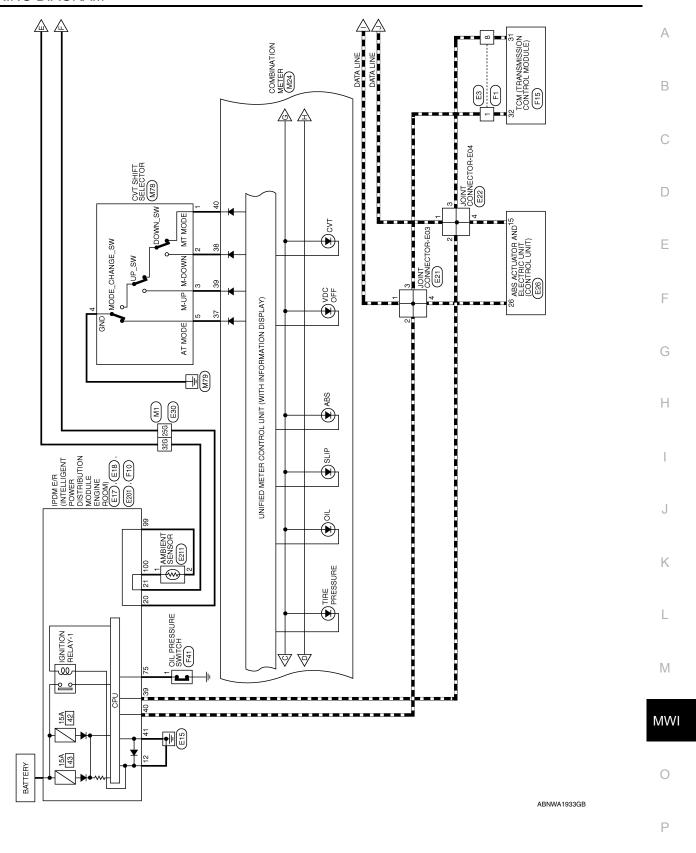
METER

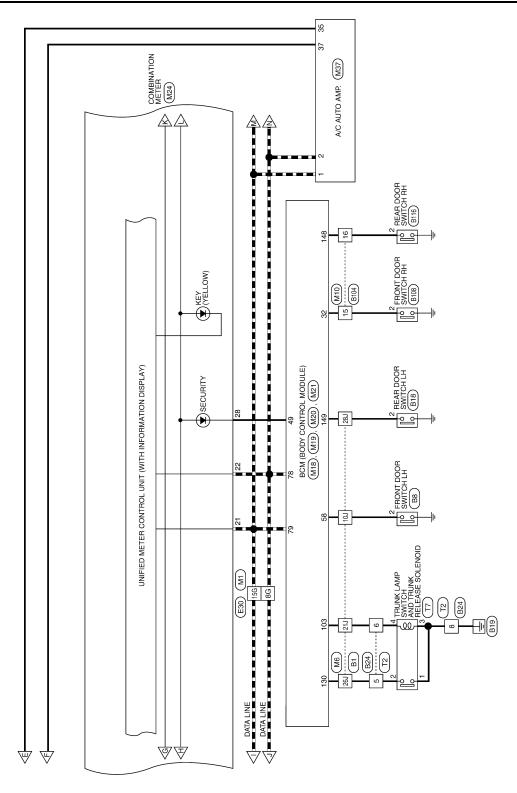
Wiring Diagram



⟨NX⟩ : EXCEPT FOR MEXICO
⟨XX⟩ : FOR MEXICO

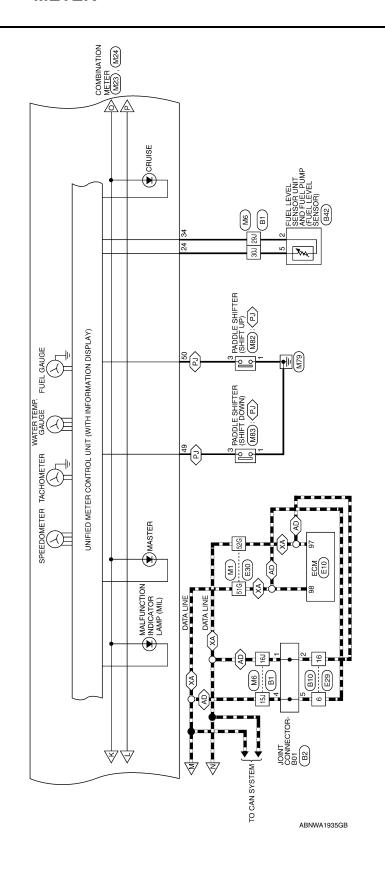






ABNWA1505GB

 $\begin{tabular}{ll} $\langle \Delta D \rangle$: with automatic drive positioner \\ \hline $\langle PJ \rangle$: with paddle shift \\ \hline $\langle XA \rangle$: without automatic drive positioner \\ \hline \end{tabular}$



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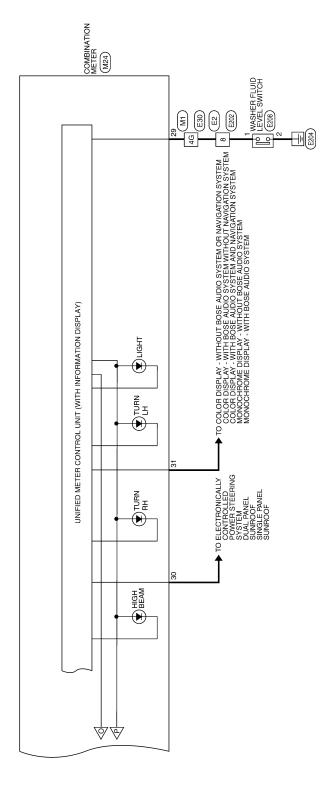
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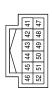
									Γ		1	7								А
		OCK (J/B)			20 10	0 60 50				Signal Name	1									В
		ne FUSE BLOCK (J/B)	or WHITE		40 30	100 90 80 70 60 5			-	Color of Wire	Y/R									C
	Connector No.	Connector Name	Connector Color			SH				Terminal No.	ő	3								E
		T					_													F
	Signal Name		1	1	ı	ı	I	1	ı	1	ı	1								G
	Color of Wire	2 (r	<u> </u>	BB	_	G/R	В/У	>	O/B	7	۵.								Н
	Terminal No.	į	4G	58	11G	15G	24G	25G	31G	32G	51G	52G								1
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		RE				4G 3G	17G 16G 15G 14G 13G 12G 11G 10G 2G 1G	216 206	346 336 326 316 306 296 286 276 196 186	366 356	50G 49G 48G 47G 46G 45G 44G 43G 42G	S80 S70 S80 S50 S40 S30 S20 S10 S20 S10 S20 S10 S20 S10 S20 S20 S10 S20 S20	((1/B)		I eM	Signal Name	1			L
TORS		RE TO WIF	WHITE			9G 8G 7G 6G 5G 4G 3G	3 146 136 126	26G 25G 24G 23G 22G 21G 20G	31G 30G 29G	G 39G 38G 37G	G 47G 46G 45G	SeG 570 SeG SSG SSG	M5 FUSE BLOCK (J/B) WHITE		5M 4M 3M 2M 1M 12M 11M 10M 9M 8M 7M 6M					M
NNEC	No.	Connector Name WIRE TO WIRE	Color W			96	17G 16G 15	26G 25G	34G 33G 32G	416 40	50G 49G 48	80G 79G 78G 77 80G 79G 78G 77 80G 79G 78G 77 80G 79G 78G 77			5M 4N 12M 11N	lo. Color of Wire	0			MW
METER CONNECTORS	Connector No.	Connector	Connector Color		E	HS							Connector No. Connector Name Connector Color	Œ	H.S.	Terminal No.	12M			0
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Connector No. M10 Connector Name WIRE TO WIRE		_		16 15 14 13 12 11 10	_	Color of	Terminal No. Wire Signal Name	15 R/B –	16 R/W –		Connector No. M20		Connector Color WHILE	(100 101 102 103 104 105 105 104 111		Terminal No. Color of Signal Name	103 V CDL BACK TRUNK		
Signal Name	1	I	ı	1	ı	1	ı	ı	ı		M19	BCM (BODY CONTROL MODULE)	BLACK		71 70 69 68 67 66 65 64 63 62 61 60	of Signal Name	CAN-L	CAN-H	
Terminal No. Wire	10J SB	15J L	16J	21J V	24J W/B	26J W	28J R/B	29J G/B	30J B/W		Connector No.		Connector Color B	E.S.	79 78 77 76 75 74 73 72 71 99 98 97 96 95 94 93 92 91	Terminal No. Wire	78 P	7 62	
Connector No. M6		-		[21 21 21 21 24 33	15J 14J 13J 12J 11J	105 104 105 105	300 280 280 272 280 210 200 190 180		5/J 56J 55J 54J 55J 57J 56J 51J 65J 65J 65J 75J 65J 65J 65J 65J 65J 65J 65J 65J 65J 6	554 544 554 544 547 554 454 473 653 652 614 604 554 554 554 554 454 473 704 654 655 654 655 654 655 644 705 705 705 705 705 705 705 705 877 882 852 804 877 882 893 893 893 894 893 993 993 973 984 993 944 933	Connector No. M18		Connector Color GREEN	是 H.S.	39 38 37 36 35 44 33 32 51 30 29 28 27 26 25 24 23 22 21 20 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Terminal No. Wire Signal Name	32 R/B AS DOOR SW 1	49 L/O (SECURITY INDICATOR)	58 SB DR DOOR SW

	_											
Signal Name	-	I	_	_	ı	1	ı	ı	PADDLE SHIFT (SHIFT DOWN)	PADDLE SHIFT (SHIFT UP)	=	-
Color of Wire	1	1	-	_	1	1	ı	ı	G	0	ı	-
Terminal No.	41	42	43	44	45	46	47	48	49	50	51	52

Signal Name	ЭНЭ	PKB	BRAKE OIL IN	SECURITY	LOW WASH FLUID SW	2P/R OUT	8P/R OUT	I	-	FUEL SENSOR	DR BELT	AS BELT	NOT M RANGE	AT SHIFT DOWN	AT SHIFT UP	M RANGE
Color of Wire	BR	G/R	>	9	æ	L/B	W/N	ı	1	G/B	M/B	ΜΠ	g	BB	Μ	LG/R
Terminal No.	22	26	27	28	29	30	31	32	33	34	35	36	37	38	68	40

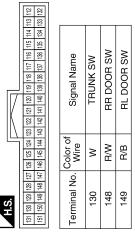
M23	ector Name COMBINATION METER	WHITE	
ector No.	ector Name	ector Color	



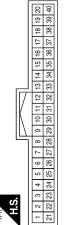


Signal Name	ı	GND (SATELLITE SW)	MODE A SW	MODE B SW	I	-	AIR BAG	I	I	I	I	I	CAN-H	CAN-L	GND (CIRCUIT)	GND (FUEL SENSOR)
Color of Wire	-	O/L	L/R	B/R	1	1	BR/W	1	ı	1	1	ı	L	Ь	В	B/W
Terminal No.	6	10	11	12	13	14	15	16	11	18	19	50	21	22	23	24

Connector No.	M21
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color	GRAY



M24	Connector Name COMBINATION METER	WHITE	
Connector No.	Connector Name	Connector Color	



Signal Name	BAT	NÐI	GND (POWER)	GND (ILL)	ILL OUTPUT	-	I	ı
Color of Wire	Y/R	0	В	В	В	-	_	1
Terminal No. Wire	-	2	3	4	5	9	7	8

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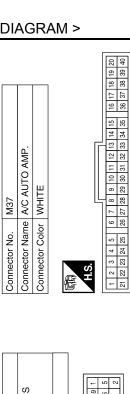
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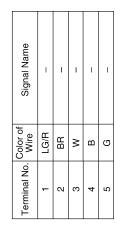
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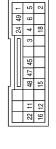


	Signal Name	CAN-H	CAN-L	AMB SENS	SENS GND
Color of	Wire	T	Д	O/B	В/У
	Terminal No. Wire	1	2	32	37

Connector No. M78	Sonnector Name CVT SHIFT SELECTOR	Connector Color WHITE	
Connecto	Connecto	Connecto	



M35	AIR BAG DIAGNOSIS SENSOR UNIT (FOR MEXICO)	YELLOW
Connector No.	Connector Name SENSOR UNIT (FOR MEXICO)	Connector Color YELLOW

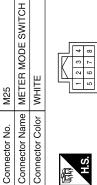


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-	5	2		Ĕ	
6	9			l a	
24 49	4	18		Signal Name	
Π	3			l g	i
$\ $				S	ŀ
$\ $	45				
$\ $	48 47 45				
Ш	48	15		<u>_</u>	
				Color of Wire	
	11	16 12		응통	
	22 11	16		O -	
THE PARTY NAMED IN	Ų.	į E	J	erminal No.	

Signal Name	AIRBAG W/L	SEAT BELT REMINDER
Color of Wire	BR/W	MΠ
Terminal No.	15	24

M64	Connector Name JOINT CONNECTOR-M01	WHITE	
Connector No.	Connector Name	Connector Color WHITE	

IITE	3 2 1	Signal Nam	_	1
lor WHITE	4	Color of Wire	В	R/Υ
Connector Color	原 H.S.	Terminal No. Wire	3	4



Connector No.



Signal Name	1	1	I	I	ı
Color of Wire	B/L	J/O	Z,	B/R	₽\
Terminal No. Wire	-	3	9	7	8

Connector No.	M43
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT (EXCEPT FOR MEXICO)
Connector Color YELLOW	YELLOW

	2 5 4 3	23 24 22	60 59 25 57 1	Signal Name	1/4/ O 4 0 0 1 4
	9	54	53	of	
	7	-	L	Color of Wire	0
\perp	8	19 52	18 51	ŏ^	١
	H.S.	<u> </u>	=	Terminal No.	

Signal Name	AIRBAG W/L	SEAT BELT REMINDER	
Color of Wire	BR/W	L/W	
Terminal No.	23	24	

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WHRE TO WIRE WHITE	Signal Name	E17 IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) WHITE	46 45 44 43	Signal Name	CAN-L	CAN-H	GND (SIGNAL)
	Color of Wire V		42 41 40 46 45 44	Color of Wire	Д	7	В
Connector Name Connector Color	Terminal No.	Connector No. Connector Name Connector Color	斯 H.S.	Terminal No.	39	40	4
E							
PADDLE SHIFTER (SHIFT DOWN) WHITE	Signal Name		85 99 95 97 1001 1005 1009 86 90 94 99 102 106 110 87 91 95 99 103 107 111 88 92 96 1001 104 108 112	Signal Name	CAN-L	CAN-H	
	Color of Wire B	me ECM lor BLACK	81 85 89 93 97 101 105 82 86 90 94 88 102 106 83 87 91 95 99 103 107 84 88 92 96 100 104 108	Color of Wire	Ь	٦	
Connector Name Connector Color	Terminal No.	Connector No. E10 Connector Name ECM Connector Color BLAC	H.S.	Terminal No.	6	86	
PADDLE SHIFTER (SHIFT UP) WHITE	Signal Name	Connector No. E3 Connector Name WIRE TO WIRE Connector Color WHITE	4	Signal Name	1	1	1
Connector Name PADDL (SHIFT Connector Color WHITE H.S.	Color of Wire B B O	Connector No. E3 Connector Name WIRE T Connector Color WHITE	11 01	Color of Wire	_	Д	re
	Terminal No.	Connector No. Connector Nan Connector Col		Terminal No.			

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Connector No. E18 POW	E18 IPDM E/R (INTELLIGENT POWNER DISTRIBUTION POWNER DISTRIBUTION	000	Connector No. Connector Name	E21 ne JOINT (Connector No. E21 Connector Name JOINT CONNECTOR-E03 Connector Color WHITE		Connector No. Connector Name	9 2	E22 JOINT CONNECTOR-E04 WHITE
Connector Color WHITE	TE TE		H.S.		4 3 2 1 0		H.S.	4	3 2 1 🗍
9 10 11 12 13 14	25 26 27 28 29 30 31 32 33 34 15 16 17 18 19 20 21 22 23 24	37 38	Terminal No.	Color of Wire	Signal Name	Ter	Terminal No.	Color of Wire	Signal Name
Terminal No. Color of	Signal Name		- 0 0 4		1 1 1		- 0 m 4		1 1 1
\$ "	GND (POWER) AMB SENS GND-E/R AMB SENS SIG-E/R								
Connector No. E24 Connector Name BRAKE Connector Color GRAY H.S.	KE FLUID LEVEL SWITCH		Connector No. Connector Color Connector Color		TUATOR AND RIC UNIT (CONTROL	Con	Connector Name Connector Color		WHRE TO WIRE WHITE 6 5 4
Terminal No. Color of Wire 2 N No. 2 N N N N N N N N N N N N N N N N N N	Signal Name	' <u> </u>	Terminal No. C 15 26	Color of Wire P	Signal Name CAN-L CAN-H		Terminal No. 6	Color of Wire L	Signal Name

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Revision: August 2013 MWI-99 2014 Maxima NAM

Connector No. E211 Connector Name AMBIENT SENSOR Connector Color BLACK	Connector No. E230 Connector Name GENERATOR Connector Color –	Connector No. F1 Connector Name WI Connector Color WI	F1 WIRE TO WIRE WHITE
H.S.	原本 H.S.	T 6 5 14 H.S.	4 13 12 11 10 9 8
Terminal No. Color of Wire Signal Name 1 SB – BRW – 1	Terminal No. Color of Wire Signal Name 5 B -	Terminal No. Color of Wire 1	Signal Name
Connector No. F7 Connector Name GENERATOR Connector Color BLACK H.S.	2. F10 IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) MODULE ENGINE ROOM) F 56 57 58 50 51 52 50 51 52 50 51 52 50 51 52 50 51 52 50 51 52 50 51 52 50 51 52 50 51 52 51	Connector No. F15	TCM (TRANSMISSION CONTROL MODULE) BLACK 2 23 34 35 8 77 38 39 40 47 48 2 23 24 25 24 25 27 28 29 30 45 46 2 3 4 4 5 6 7 8 19 10 20 41 42 Or of Signal Name CAN-L CA
	reminal No. Wire Signal Name 75 LG OIL PRESSURE SW		

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																		А
Signal Name	-	ı	ı	1	ı	ı	ı	ı	-			B9 AIR BAG DIAGNOSIS SENSOR UNIT (FOR MEXICO) YELLOW 41 28 9 10 37 38 9 10 or of Signal Name	LH BUCKLE SW INPUT					В
Color of Wire	SB		۵	>	GR	8	BR	>	В			B9		-				C
Terminal No.	107	15J	16J	21J	24J	26J	28J	29J	307			Connector No. Connector Color Connector Color H.S. ##S. Terminal No. Color WW	41					Е
		7	/	/-				1						-				F
L				6. 7. 8. 9.	10 111 12 13 14 14 15 16 17	22.123.124.125.1	18J 19J 20J 21J 26J 27J 28J 29J 30J	35 36 37	380 400 411 420 430 441 451 461	431 501 521 531 541 552 533 441 552 533 541 553 543 553 543 553 543 553 543	841 851 851 851 871 951 961 971 961 991	Connector No. B8 Connector Name FRONT DOOR SWITCH LH Connector Color WHITE H.S. 2 2 3 Color of Signal Name	1					G
B1	WIRE 10 W	1		3 4 5	21 110 111 120		19J 20J 21J	31 32 33 34	39J 40J 41J 42	480 500 514 523 534 544 5 71 480 560 573 580 590 600 610 610 610 610 610 610 610 610 61	857	PRONT DO WHITE Sor of Sire Sire Sire Sire Sire Sire Sire Sire						Н
or No.					11 21		181			4 (74	801 811	or No. B8	SB					I
Connector No.	Connector Color			V I								Connector No. Connector Color H.S. Terminal No. Ool	2					J
		7													·		1	K
- IOE	Connector Color GRAY						Signal Name	1				Connector No. B2 Connector Name JOINT CONNECTOR-B01 Connector Color BLACK A.S. Terminal No. Color of Signal Name	1	ı	1	1		L
F41	GRAY			<u></u>)	J .		(5	_			JOINT CO JOINT CO BLACK						M
or No.	Connector Color			\subseteq		-	No. Wire	PI				Connector No. B2 Connector Name JOII Connector Color BLA H.S. Color of Terminal No. Color of Wire	<u> </u>	В		_		MV
Connector No.	Connect			Į.	Š		Terminal No.	-				Connector No. Connector Cole Connector Cole H.S.	-	2	4	5		0
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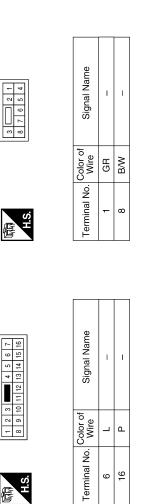
Revision: August 2013 MWI-101 2014 Maxima NAM

1 4	Connector No. B12	Connector No. B18	B18
_	Connector Name WIRE TO WIRE	Connector Name	Connector Name REAR DOOR SWITCH LH
	Connector Color WHITE	Connector Color WHITE	WHITE
	3 7 6 5 4	(月) H.S.	<u> </u>

Connector Name WIRE TO WIRE Connector Color WHITE

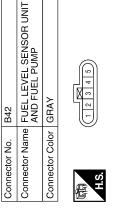
Connector No. B10

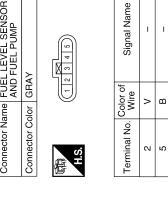
Signal Name	I	
Color of Wire	BR	
Terminal No.	2	

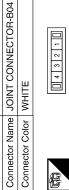


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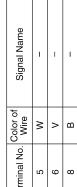
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Connector No.





Connector No.	B24
Connector Name WIRE TO WIRE	WIRE TO WIRE
Connector Color WHITE	WHITE
H.S.	1 2 4 5 6 7 8



Signal Name	_	1	-
Color of Wire	M	^	В
Terminal No.	5	9	8

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Connector Name FRONT DOOR SWITCH RH Connector Color WHITE	Terminal No. Color of Signal Name 2 GR –	Connector No. B119 Alr BAG DIAGNOSIS Connector Name SENSOR UNIT (EXCEPT FOR MEXICO) Connector Color YELLOW \$5 \$\pi\$ \$\frac{26}{17}\$ \$\frac{1}{16}\$ \$\frac{26}{15}\$ \$\frac{1}{11}\$ \$\frac{10}{10}\$	Terminal No. Color of Signal Name Wire 29 L RH BUCKLE SW INPUT
Connector Name WIRE TO WIRE Connector Color WHITE 2	Terminal No. Color of Signal Name 15 GR – 16 B –	Connector No. B116 Connector Name REAR DOOR SWITCH RH Connector Color WHITE	Terminal No. Color of Signal Name 2 B
Connector Name SENSOR UNIT (EXCEPT FOR MEXICO) Connector Color YELLOW H.S. (2 13 30 50 49 56	Terminal No. Color of Signal Name 30 GR LH BUCKLE SW INPUT	Connector No. B113 AIR BAG DIAGNOSIS Connector Name SENSOR UNIT (FOR MEXICO) Connector Color YELLOW ALS REPART OF THE SE SE 40	Terminal No. Color of Signal Name 25 L RH BUCKLE SW INPUT

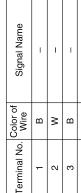
Revision: August 2013 MWI-103 2014 Maxima NAM

Connector No. B148 Connector Name WIRE TO WIRE Connector Color WHITE	B148 WIRE TO WIRE WHITE	Connector No. B201 Connector Name WIRE TO WIRE Connector Color WHITE	B201 me WIRE Talor WHITE	E TO WIRE	Connector No. Connector Name Connector Color	e 5	B202 SEAT BELT BUCKLE SWITCH LH WHITE
(可) H.S.	8 7 6 2 1	是 H.S.	- 4	8 3 2 5 2 5	H.S.		
Terminal No. Color of Wire 1 L B B B	Signal Name	Terminal No.	Color of Wire L L B	Signal Name	Terminal No.	Color of Wire B	Signal Name
	B302	Connector No.	B308		Connector No.	0. 72	אינט די
Connector Name S S Connector Color M	SEAT BELT BUCKLE SWITCH RH WHITE	Connector Name WIRE TO WIRE Connector Color WHITE	me WIRE T	E TO WIRE	Connector Name WHE IO WIRE Connector Color WHITE	ame WIF	E IO WIRE
H.S.		原 H.S.	- 4		H.S.		3 7 6 5 4
Terminal No. Wire	of Signal Name	Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name
1 -	ı	1	Г	-	5	M	1
2 B	ı	8	В	1	9	>	I

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Connector No.	77
Connector Name	Connector Name TRUNK LAMP SWITCH AND TRUNK RELEASE SOLENOID
Connector Color WHITE	WHITE



Signal Name	-	1	1	-
Color of Wire	В	Μ	В	^
Terminal No.	-	2	3	4

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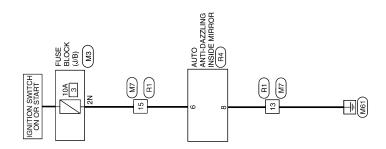
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COMPASS

Wiring Diagram - WITH HOMELINK UNIVERSAL TRANSCEIVER

INFOID:0000000010049612



COMPASS - WITH HOMELINK UNIVERSAL TRANSCEIVER

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COMPASS CONNECTORS - WITH HOMELINK UNIVERSAL TRANSCEIVER

Connector Name FUSE BLOCK (J/B) Connector Color WHITE	Connector No.	M3
	Connector Name	FUSE BLOCK (J/B)
	Connector Color	WHITE

Connector No. M7
Connector Name WIRE TO WIRE
Connector Color WHITE

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	2N 1N 5N 4N
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WHILE	
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ector Color	
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3N	Signal Nam	1
NE N8	Color of Wire	9
H.S.	Terminal No.	2N

	WIRE TO WIRE	ш	4 5 1 1 1 2 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	Signal Name	ı	1
<u>æ</u>		or WHITE	8 7 6 5 14 13 .	Color of Wire	В	B/R
Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	13	15

Signal Name	_	1
Color of Wire	В	G
rminal No.	13	15

Connector No.	R4
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR (WITH HOMELINK UNIVERSAL TRANSCEIVER)
Connector Color BLACK	BLACK

	5 4 3 2 1	9 2 8 0		Signal Name
Ľ			J	Color of
				_

10 9 8 7 6	Signal Name	-	Î
ات	Color of Wire	B/R	В
j	erminal No. Wire	9	8

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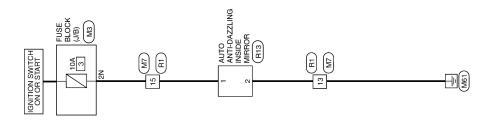
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COMPASS - WITHOUT HOMELINK UNIVERSAL TRANSCEIVER



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Connector Name | WIRE TO WIRE

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Connector No.

Connector Color WHITE

COMPASS CONNECTORS - WITHOUT HOMELINK UNIVERSAL TRANSCEIVER

Connector No.	M3		Connector No.	o. M7		
ď	ne FUS	Connector Name FUSE BLOCK (J/B)	Connector Name WIRE TO WIRE	ame WIRE	TO WIRE	
0	Connector Color WHITE	11	Connector Color WHITE	olor WHIT	ш	
		3N	赋 H.S.	9 10 11 12	9 10 11 12 13 14 15 16	
— —	Terminal No. Color of Wire	Signal Name	Terminal No. Wire	Color of Wire	Signal Name	
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Signal Name	ı	
Color of Wire	В	
Terminal No.	2N	

Signal Name

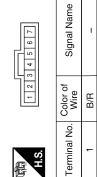
Color of Wire

Terminal No.

B/R В

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R13	AUTO ANTI-DAZZING INSIDE MIRROR (WITHOUT HOMELINK UNIVERSAL TRANSCEIVER)	BLACK
Connector No.	Connector Name	Connector Color BLACK



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THE FUEL GAUGE POINTER DOES NOT MOVE

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

THE FUEL GAUGE POINTER DOES NOT MOVE

Description INFOID:000000010049614

Fuel gauge needle will not move from a certain position.

Diagnosis Procedure

INFOID:0000000010049615

1. CHECK COMBINATION METER INPUT SIGNAL

- 1. Select "METER/M&A" on CONSULT.
- 2. Using "FUEL METER" of "DATA MONITOR", compare the monitor value with the fuel gauge reading on the combination meter. Refer to MWI-40, "Component Function Check".

Does monitor value match fuel gauge reading?

YES >> GO TO 2

NO >> Replace combination meter. Refer to MWI-122, "Removal and Installation".

2.CHECK FUEL LEVEL SENSOR SIGNAL CIRCUIT

Check the fuel level sensor signal circuit. Refer to MWI-40. "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair harness or connector.

3.CHECK FUEL LEVEL SENSOR UNIT AND FUEL PUMP (FUEL LEVEL SENSOR)

Perform a unit check for the fuel level sensor unit and fuel pump (fuel level sensor). Refer to MWI-41, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace fuel level sensor unit and fuel pump (fuel level sensor). Refer to <u>FL-6</u>, "<u>Removal and Installation</u>".

4. CHECK FLOAT INTERFERENCE

Check that the float arm does not interfere or bind with any of the components in the fuel tank.

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-122, "Removal and Installation".

NO >> Repair or replace malfunctioning parts.

THE FUEL GAUGE POINTER DOES NOT MOVE TO "F" WHEN REFUELING

< SYMPTOM DIAGNOSIS >	
THE FUEL GAUGE POINTER DOES NOT MOVE TO "F" WHEN REFUEL-ING	А
Description INFOID:000000010049616	В
The fuel gauge needle will not move to "F" position when refueling.	Ь
Diagnosis Procedure	С
1. OBSERVE FUEL GAUGE	
Does it take a long time for the pointer to move to FULL position? YES or NO YES >> GO TO 2 NO >> GO TO 3	D E
2.IDENTIFY FUELING CONDITION	
Was the vehicle fueled with the ignition switch ON? YES or NO	F
YES >> Be sure to fuel the vehicle with the ignition switch OFF. Otherwise, it will take a long time to move to FULL position because of the characteristic of the fuel gauge. NO >> GO TO 3	G
3. OBSERVE VEHICLE POSITION	
Is the vehicle parked on an incline? YES or NO	Н
YES >> Check the fuel level indication with vehicle on a level surface. NO >> GO TO 4	I
4. OBSERVE FUEL GAUGE POINTER	
During driving, does the fuel gauge pointer move gradually toward EMPTY position? YES or NO	J
YES >> Check the components. Refer to MWI-41 . "Component Inspection". NO >> The float arm may interfere or bind with the components in the fuel tank.	K
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THE OIL PRESSURE WARNING LAMP DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

THE OIL PRESSURE WARNING LAMP DOES NOT TURN ON

Description INFOID:000000010049618

The oil pressure warning lamp stays off when the ignition switch is turned ON.

Diagnosis Procedure

INFOID:0000000010049619

1. CHECK OIL PRESSURE WARNING LAMP

Perform IPDM E/R auto active test. Refer to PCS-11, "Diagnosis Description".

Is oil pressure warning lamp illuminated?

YES >> GO TO 2

NO >> Replace combination meter. Refer to MWI-122, "Removal and Installation".

2.CHECK OIL PRESSURE SWITCH SIGNAL CIRCUIT

Check the oil pressure switch signal circuit. Refer to MWI-42, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair harness or connector.

3. CHECK OIL PRESSURE SWITCH UNIT

Perform a unit check for the oil pressure switch. Refer to <u>MWI-42</u>, <u>"Component Inspection"</u>. Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-35, "Removal and Installation".

NO >> Replace oil pressure switch.

THE OIL PRESSURE WARNING LAMP DOES NOT TURN OFF

< SYMPTOM DIAGNOSIS >

THE OIL PRESSURE WARNING LAMP DOES NOT TURN OFF

Description INFOID:000000010049620

The oil pressure warning lamp remains illuminated while the engine is running (normal oil pressure).

Diagnosis Procedure

INFOID:000000010049621

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Regarding Wiring Diagram information, refer to MWI-87, "Wiring Diagram".

1. CHECK OIL PRESSURE WARNING LAMP

Perform IPDM E/R auto active test. Refer to PCS-11, "Diagnosis Description".

Is oil pressure warning lamp illuminated?

YES >> GO TO 2

NO >> Replace combination meter. Refer to MWI-122, "Removal and Installation".

2.CHECK IPDM E/R OUTPUT VOLTAGE

- 1. Turn ignition switch OFF.
- 2. Disconnect the oil pressure switch connector.
- 3. Turn ignition switch ON.
- Check voltage between the oil pressure switch harness connector F41 terminal 1 and ground.

1 – Ground : Approx. 12V

Is the inspection result normal?

YES >> GO TO 3 NO >> GO TO 4

3. CHECK OIL PRESSURE SWITCH

Perform a unit check for the oil pressure switch. Refer to MWI-42, "Component Inspection".

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-35, "Removal and Installation".

NO >> Replace oil pressure switch.

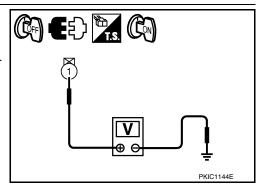
4. CHECK OIL PRESSURE SWITCH SIGNAL CIRCUIT

Check the oil pressure switch signal circuit. Refer to MWI-42, "Diagnosis Procedure".

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-35, "Removal and Installation".

NO >> Repair harness or connector.



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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 INFOID:000000010049622

- The parking brake warning is displayed while driving the vehicle even though the parking brake is released.
- The parking brake warning is not displayed even though driving the vehicle with the parking brake depressed.

Diagnosis Procedure

INFOID:0000000010049623

1. CHECK PARKING BRAKE WARNING LAMP OPERATION

- Start engine.
- Monitor "BRAKE" warning lamp while applying and releasing the parking brake.

BRAKE warning lamp

Parking brake depressed : ON
Parking brake released : OFF

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-122, "Removal and Installation".

NO >> GO TO 2

2.CHECK PARKING BRAKE SWITCH SIGNAL CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Check the parking brake switch signal circuit. Refer to MWI-44, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3

NG >> Repair harness or connector.

3.CHECK PARKING BRAKE SWITCH UNIT

Perform a unit check for the parking brake switch. Refer to MWI-44, "Component Inspection".

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-122, "Removal and Installation".

NO >> Replace parking brake switch.

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

< SYMPTOM DIAGNOSIS >

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

Description INFOID:000000010049624

- 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

1. CHECK WASHER FLUID LEVEL SWITCH SIGNAL CIRCUIT

Check the washer fluid level switch signal circuit. Refer to MWI-45, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair harness or connector.

2. CHECK WASHER FLUID LEVEL SWITCH UNIT

Perform a unit check for the washer fluid level switch. Refer to MWI-46, "Component Inspection".

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-122, "Removal and Installation".

NO >> Replace washer fluid level switch.

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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

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

Diagnosis Procedure

INFOID:0000000010049627

1. CHECK BCM INPUT SIGNAL

Connect CONSULT and check the BCM input signals. Refer to <u>DLK-67</u>, "Component Function Check" (Door switch) and <u>DLK-88</u>, "Component Function Check" (Trunk lamp switch and truck release solenoid).

Are the inspection results normal?

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

2.CHECK COMBINATION METER INPUT SIGNAL

- 1. Select "METER/M&A" on CONSULT.
- Monitor "DOOR W/L" and "TRUNK/GLAS-H" of "DATA MONITOR" while opening and closing doors and trunk.

"DOOR W/L"

Door open : ON
Door closed : OFF

"TRUNK/GLAS-H"

Trunk open : ON
Trunk closed : OFF

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-122, "Removal and Installation".

NO >> Replace BCM. Refer to BCS-79, "Removal and Installation".

3.CHECK DOOR SWITCH SIGNAL CIRCUIT

Check the door switch signal circuit. Refer to DLK-67, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair harness or connector.

4.CHECK DOOR SWITCH UNIT

Perform a unit check for the door switch. Refer to <u>DLK-69</u>, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace door switch.

${f 5}$.CHECK TRUNK LAMP SWITCH AND TRUNK RELEASE SOLENOID SIGNAL CIRCUIT

Check the trunk lamp switch and trunk release solenoid signal circuit. Refer to <u>DLK-88</u>, "<u>Diagnosis Procedure</u>".

Is the inspection result normal?

YES >> GO TO 6

NO >> Repair harness or connector.

6. CHECK TRUNK LAMP SWITCH AND TRUNK RELEASE SOLENOID UNIT

Perform a unit check for the trunk lamp switch and trunk release solenoid. Refer to DLK-90, "Component Inspection".

THE DOOR OPEN WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

< SYMPTOM DIAGNOSIS >

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YES >> Replace combination meter. Refer to MWI-122, "Removal and Installation".

NO >> Replace trunk lamp switch and trunk release solenoid.

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THE AMBIENT TEMPERATURE DISPLAY IS INCORRECT

< SYMPTOM DIAGNOSIS >

THE AMBIENT TEMPERATURE DISPLAY IS INCORRECT

Description INFOID:000000010049628

- The displayed ambient air temperature is higher than the actual temperature.
- The displayed ambient air temperature is lower than the actual temperature.

Diagnosis Procedure

INFOID:0000000010049629

1. COMBINATION METER INPUT SIGNAL

- 1. Select "METER/M&A" on CONSULT.
- 2. Using "OUTSIDE TEMP" on DATA MONITOR, compare the value of DATA MONITOR with the actual ambient temperature. DATA MONITOR value and actual ambient temperature should be close.

Does the data monitor value approximately match the actual ambient temperature?

- YES >> Replace combination meter. Refer to MWI-122, "Removal and Installation".
- NO >> Refer to <u>HAC-33, "Diagnosis Procedure"</u> (with color display) or <u>HAC-136, "Diagnosis Procedure"</u> (with monochrome display).

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

NORMAL OPERATING CONDITION COMPASS

COMPASS: Description

COMPASS

- The electronic compass is highly protected from changes in most magnetic fields. However, some large changes in magnetic fields can affect it. Some examples are (but not limited to): high tension power lines, large steel buildings, subways, steel bridges, automatic car washes, large piles of scrap metal, etc.
- During normal operation, the Compass Mirror will continuously update the compass calibration to adjust for gradual changes in the vehicle's magnetic "remnant" field. If the vehicle is subjected to high magnetic influences, the compass may appear to indicate false headings, become locked, or appear that it is unable to be calibrated. If this occurs, perform the calibration procedure.
- If at any time the compass continually displays the incorrect direction or the reading is erratic or locked, verify the correct zone variance.

SYMPTOM CHART

Symptom	Cause	Solution / Reference
The compass display reads "C".		
Compass shows the wrong direction.		
Compass does not change direction appears "Locked".	Compass is not calibrated. Incorrect zone variance setting. Large change in magnetic field (Steel bridges, subways, concentrations of metal, car washes, etc.) Compass was calibrated incorrectly or in the presence of a strong magnetic field.	Perform Calibration. Refer to MWI-27,
Compass does not show all the directions, one or more is missing.		"Description".
The compass was calibrated but it "loses" calibration.		
On long trips the compass shows the wrong direction.		Perform Zone Variation Setting if correct reading is desired in that location. Refer to MWI-27, "Description".

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Revision: August 2013 MWI-119 2014 Maxima NAM

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

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.

PREPARATION

< PREPARATION >

PREPARATION

PREPARATION

Special Service Tools

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The actual shapes 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

INFOID:0000000009465120

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

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COMBINATION METER

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

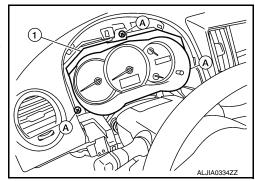
COMBINATION METER

Removal and Installation

INFOID:0000000009465121

REMOVAL

- 1. Disconnect the negative battery terminal. Refer to PG-67, "Removal and Installation (Battery)".
- 2. Remove the cluster lid A. Refer to IP-16, "Removal and Installation".
- 3. Remove the combination meter screws (A) using power tools.
- 4. Pull out the combination meter (1).
- 5. Disconnect the harness connectors from the combination meter (1) and remove.



INSTALLATION

Installation is in the reverse order of removal.

METER CONTROL SWITCH

< REMOVAL AND INSTALLATION >

METER CONTROL SWITCH

Removal and Installation

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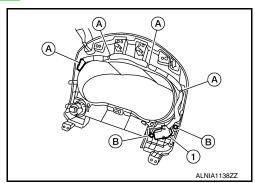
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REMOVAL

- 1. Disconnect the negative battery terminal. Refer to PG-67, "Removal and Installation (Battery)".
- 2. Remove the cluster lid A. Refer to IP-16, "Removal and Installation".
- 3. Detach the combination meter control switch harness clips (A).
- 4. Remove the combination meter control switch screws (B) and remove the combination meter control switch (1).



INSTALLATION

Installation is in the reverse order of removal.

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COMBINATION METER

< UNIT DISASSEMBLY AND ASSEMBLY >

UNIT DISASSEMBLY AND ASSEMBLY

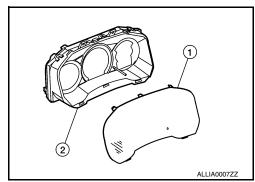
COMBINATION METER

Disassembly and Assembly

INFOID:0000000009465123

DISASSEMBLY

- 1. Remove the combination meter. Refer to MWI-122, "Removal and Installation".
- 2. Remove the combination meter lens (1) from the combination meter (2).



ASSEMBLY

Assembly is in the reverse order of disassembly.