

CONTENTS

BASIC INSPECTION4
DIAGNOSIS AND REPAIR WORKFLOW 4 Work Flow4
FUNCTION DIAGNOSIS6
METER SYSTEM6
METER SYSTEM
METER SYSTEM: Component Description9
SPEEDOMETER
TACHOMETER11TACHOMETER: System Diagram11TACHOMETER: System Description11TACHOMETER: Component Parts Location12TACHOMETER: Component Description13
ENGINE COOLANT TEMPERATURE GAUGE13 ENGINE COOLANT TEMPERATURE GAUGE : System Diagram
FUEL GAUGE 15 FUEL GAUGE : System Diagram 15 FUEL GAUGE : System Description 15 FUEL GAUGE : Component Parts Location 16

FUEL GAUGE : Component Description17
ODO/TRIP METER
SHIFT POSITION INDICATOR
WARNING LAMPS/INDICATOR LAMPS
INFORMATION DISPLAY
COMPASS 27 Description 27
DIAGNOSIS SYSTEM (METER) 29 Diagnosis Description 29 CONSULT-III Function (METER/M&A) 29

 D

Е

F

Н

J

K

L

M

MWI

0

COMPONENT DIAGNOSIS	. 32	Description	
		Component Function Check	
DTC U1000 CAN COMMUNICATION		Diagnosis Procedure	
DTC Logic		Component Inspection	45
Diagnosis Procedure	. 32	AMBIENT SENSOR SIGNAL CIRCUIT	40
U1010 CONTROL UNIT (CAN)	33	Description	
Description		Component Function Check	
DTC Logic		Diagnosis Procedure	
Diagnosis Procedure		Component Inspection	
DTC B2205 VEHICLE SPEED CIRCUIT	. 34	COMPASS	48
Description	. 34	Wiring Diagram	48
DTC Logic		EQUIDIA QUADIO	
Diagnosis Procedure	. 34	ECU DIAGNOSIS	50
B2267 ENGINE SPEED	. 35	COMBINATION METER	
Description	. 35	Reference Value	
DTC Logic		Wiring Diagram	
Diagnosis Procedure	. 35	Fail Safe	
DOOGO WATED TEMP		DTC Index	74
B2268 WATER TEMP		BCM (BODY CONTROL MODULE)	75
Description		Reference Value	
DTC Logic Diagnosis Procedure		Terminal Layout	
Diagnosis Procedure	. 30	Physical Values	
POWER SUPPLY AND GROUND CIRCUIT	. 37	Wiring Diagram	
		Fail Safe	
COMBINATION METER		DTC Inspection Priority Chart	
COMBINATION METER : Diagnosis Procedure	. 37	DTC Index	
BCM (BODY CONTROL MODULE)	37		
BCM (BODY CONTROL MODULE) : Diagnosis	. 57	IPDM E/R (INTELLIGENT POWER DISTRI-	
Procedure	38	BUTION MODULE ENGINE ROOM)	
	. 00	Reference Value	
PDM E/R (INTELLIGENT POWER DISTRIBU-		Wiring Diagram	
TION MODULE ENGINE ROOM)	. 38	Fail Safe	
IPDM E/R (INTELLIGENT POWER DISTRIBU-		DTC Index	127
TION MODULE ENGINE ROOM): Diagnosis Pro-		SYMPTOM DIAGNOSIS	120
cedure	. 38	STWIFTOW DIAGNOSIS	120
FUEL LEVEL SENSOR SIGNAL CIRCUIT	. 40	THE FUEL GAUGE POINTER DOES NOT	
Description	. 40	MOVE	128
Component Function Check	. 40	Description	
Diagnosis Procedure	. 40	Diagnosis Procedure	128
Component Inspection	. 41	THE FUEL GAUGE POINTER DOES NOT	
OIL PRESSURE SWITCH SIGNAL CIRCUIT	40	MOVE TO "F" WHEN REFUELING	400
Description		Description	
Component Function Check		Diagnosis Procedure	129
Diagnosis Procedure Component Inspection		THE OIL PRESSURE WARNING LAMP	
Component inspection	. 42	DOES NOT TURN ON	130
PARKING BRAKE SWITCH SIGNAL CIR-		Description	
CUIT	. 43	Diagnosis Procedure	
Description		•	
Component Function Check		THE OIL PRESSURE WARNING LAMP	
Diagnosis Procedure		DOES NOT TURN OFF	
Component Inspection		Description	
WASHER LEVEL SWITCH SIGNAL CIRCUIT	4.4	Diagnosis Procedure	131
	7.7		

THE PARKING BRAKE RELEASE WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY	132
Description Diagnosis Procedure	132
THE LOW WASHER FLUID WARNING CONTINUES DISPLAYING, or DOES NOT DIS-	
PLAY	
Description Diagnosis Procedure	
THE DOOR OPEN WARNING CONTINUES	
DISPLAYING, OR DOES NOT DISPLAY	
Description	
Diagnosis Procedure	134
THE AMBIENT TEMPERATURE DISPLAY IS	
INCORRECT	136
Description	
Diagnosis Procedure	136
NORMAL OPERATING CONDITION	137

COMPASS13	7
COMPASS: Description13	7 A
PRECAUTION13	8
PRECAUTIONS	
SIONER"	
With Electronic Steering Column Lock)13	8 _D
ON-VEHICLE REPAIR14	0
COMBINATION METER	_
METER CONTROL SWITCH14 Removal and Installation14	
DISASSEMBLY AND ASSEMBLY14	2
COMBINATION METER	2
	Н

 \mathbb{N}

J

Κ

L

0

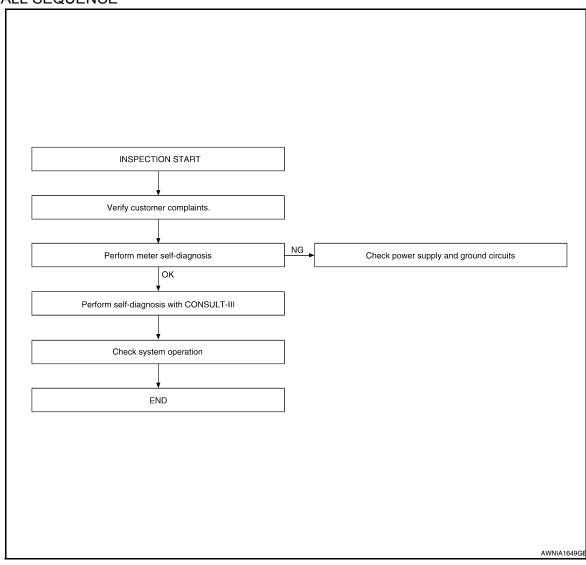
MWI

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-III)

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

Select "METER/M&A" on CONSULT-III and perform "SELF-DIAGNOSIS" of combination meter. Refer to MWI-29, "CONSULT-III 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-74, "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

D

Α

В

C

Е

F

Н

Κ

L

M

MWI

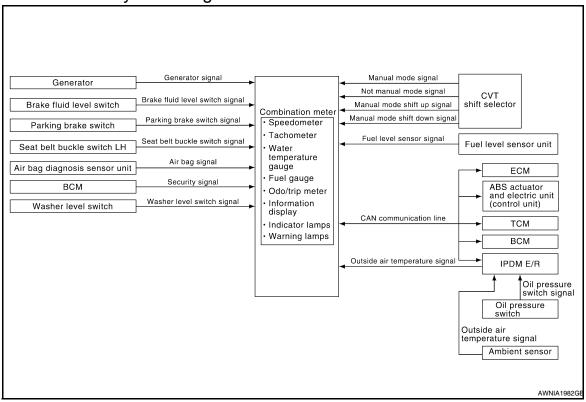
0

FUNCTION DIAGNOSIS

METER SYSTEM METER SYSTEM

METER SYSTEM: System Diagram

INFOID:0000000005459820



METER SYSTEM: System Description

INFOID:0000000005459821

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.

METER SYSTEM: Arrangement of Combination Meter

INFOID:0000000005459822

Α

Н

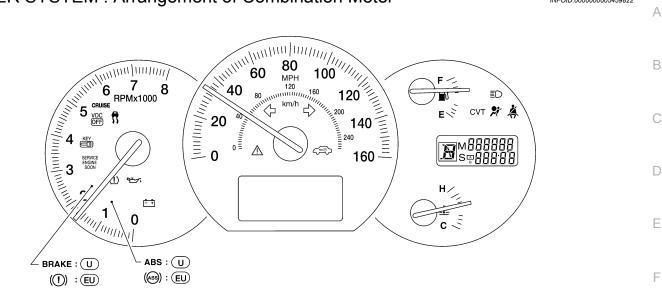
K

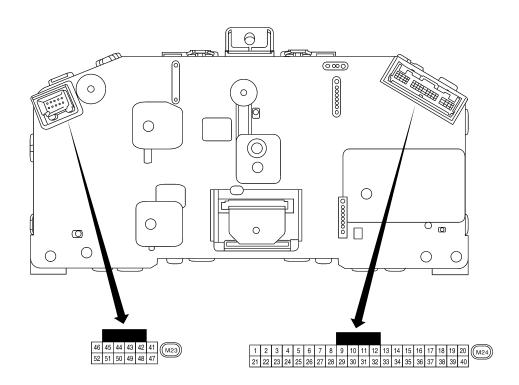
L

M

MWI

0



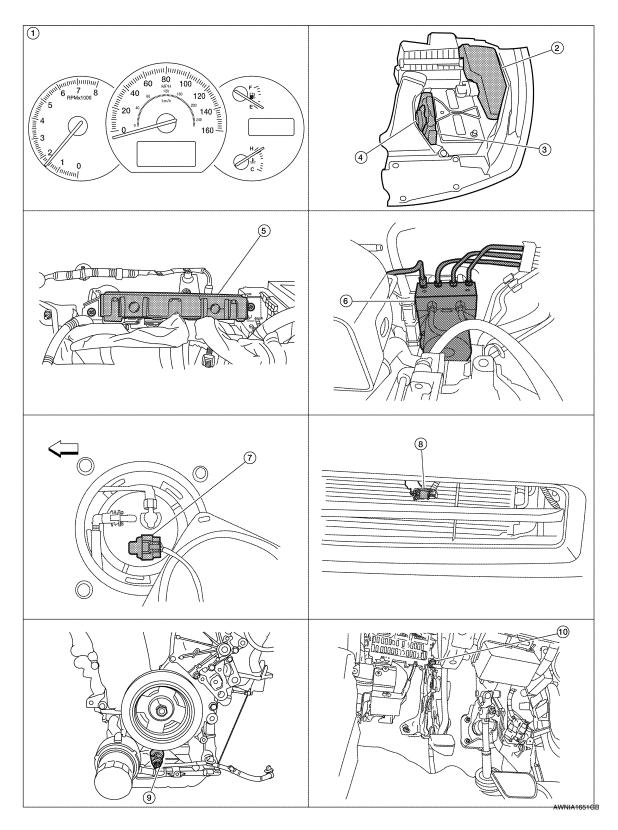


EU : Except USA

U: USA

AWNIA1997GB

METER SYSTEM: Component Parts Location



- Combination meter M23, M24
- TCM F15

- IPDM E/R E17, E18, E201, F10
- with instrument panel removed)
- ECM E10
- BCM M17, M18, M19, M20, M21 (view 6. ABS actuator and electric unit (control unit) E26

< FUNCTION DIAGNOSIS >

- Fuel level sensor unit and fuel pump (fuel level sensor) B42 (view with rear seat and inspection hole cover removed)
- 8. Ambient sensor E211
- Oil pressure switch F41 (view with engine removed)
- Α

В

INFOID:0000000005459824

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

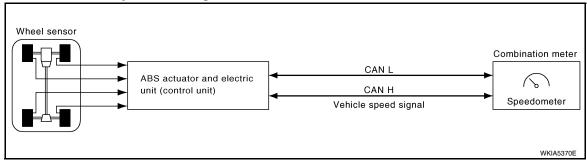
METER SYSTEM: Component Description

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	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.	
DOM	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 level switch	Transmits the washer 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-43, "Description".	

SPEEDOMETER

SPEEDOMETER: System Diagram

INFOID:0000000005459825



SPEEDOMETER: System Description

INFOID:0000000005459826

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

Revision: November 2009 MWI-9 2010 Maxima

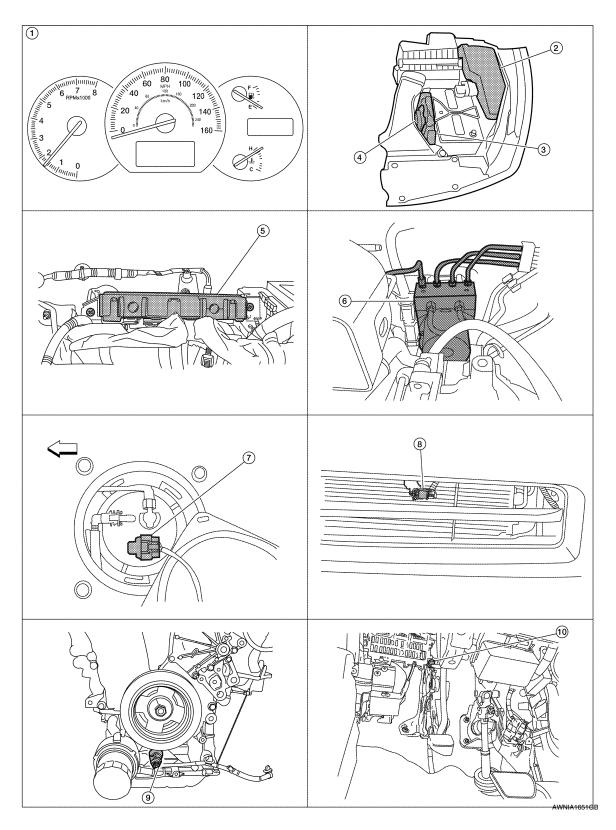
MWI

0

Р

M

SPEEDOMETER: Component Parts Location



- Combination meter M23, M24
- TCM F15

- IPDM E/R E17, E18, E201, F10
- with instrument panel removed)
- ECM E10
- BCM M17, M18, M19, M20, M21 (view 6. ABS actuator and electric unit (control unit) E26

< FUNCTION DIAGNOSIS >

- Fuel level sensor unit and fuel pump (fuel level sensor) B42 (view with rear seat and inspection hole cover removed)
- Ambient sensor E211
- Oil pressure switch F41 (view with engine removed)
- Α

В

D

Е

Н

 \Leftarrow : Front 10. Parking brake switch E35 (view with instrument lower cover LH removed)

SPEEDOMETER: Component Description

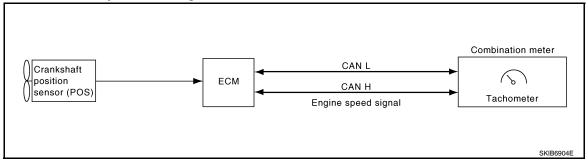
INFOID:0000000005459828	(

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.

TACHOMETER

TACHOMETER: System Diagram

INFOID:0000000005459829



TACHOMETER: System Description

INFOID:000000005459830

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.

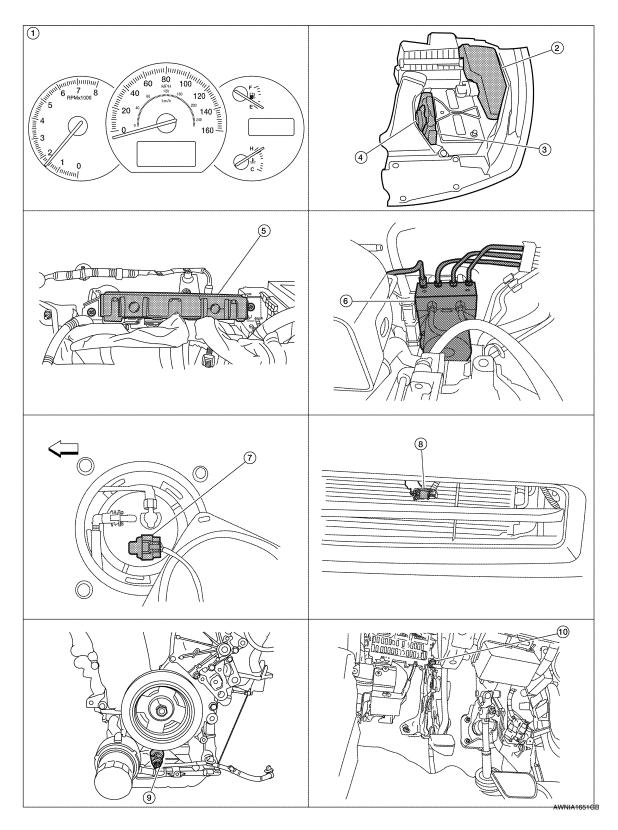
K

MWI

M

0

TACHOMETER: Component Parts Location



- Combination meter M23, M24
- TCM F15

- IPDM E/R E17, E18, E201, F10
- with instrument panel removed)
- ECM E10
- BCM M17, M18, M19, M20, M21 (view 6. ABS actuator and electric unit (control unit) E26

Ambient sensor E211

< FUNCTION DIAGNOSIS >

- Fuel level sensor unit and fuel pump (fuel level sensor) B42 (view with rear seat and inspection hole cover removed)
 - ⇐: Front
- 10. Parking brake switch E35 (view with instrument lower cover LH removed)

Oil pressure switch F41 (view with engine removed)

В

D

Е

Α

INFOID:0000000005459832

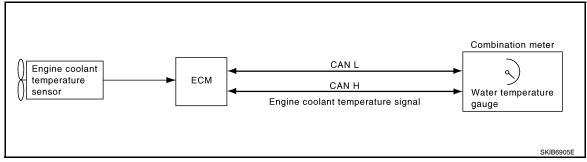
TACHOMETER: Component Description

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.

ENGINE COOLANT TEMPERATURE GAUGE

ENGINE COOLANT TEMPERATURE GAUGE: System Diagram

INFOID:0000000005459833



ENGINE COOLANT TEMPERATURE GAUGE : System Description

INFOID:0000000005459834

The water temperature gauge indicates the engine coolant temperature.

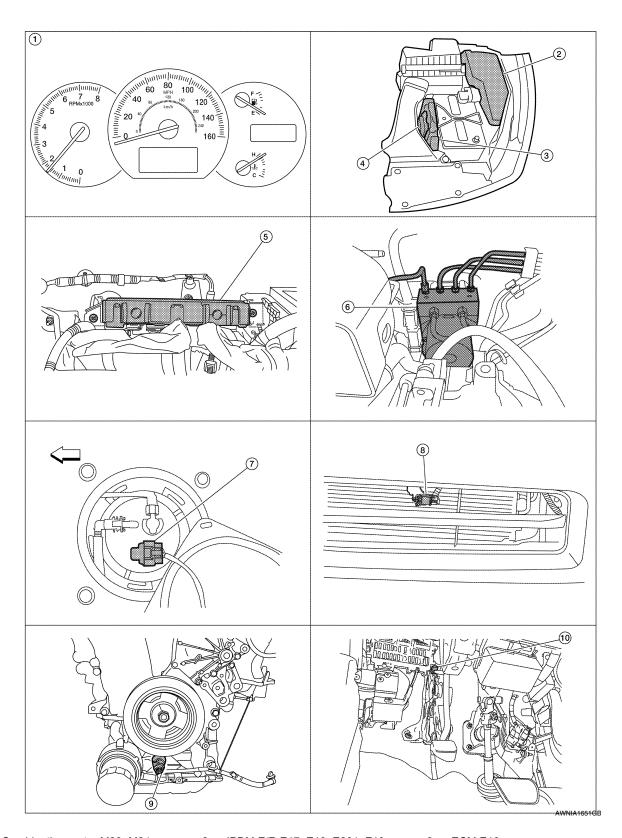
The ECM provides an engine coolant temperature signal to the combination meter via CAN communication lines.

M

MWI

0

ENGINE COOLANT TEMPERATURE GAUGE : Component Parts Location



- Combination meter M23, M24
- TCM F15

- IPDM E/R E17, E18, E201, F10
- with instrument panel removed)
- ECM E10
- BCM M17, M18, M19, M20, M21 (view 6. ABS actuator and electric unit (control unit) E26

< FUNCTION DIAGNOSIS >

- Fuel level sensor unit and fuel pump (fuel level sensor) B42 (view with rear seat and inspection hole cover removed)
- Ambient sensor E211
- 9. Oil pressure switch F41 (view with engine removed)

Α

В

D

Е

←: Front

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

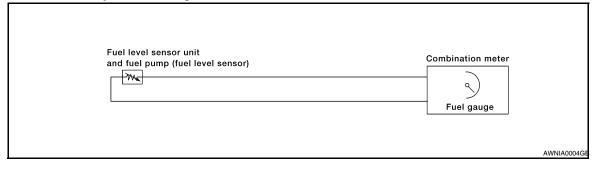
ENGINE COOLANT TEMPERATURE GAUGE: Component Description

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





FUEL GAUGE : System Description

INFOID:0000000005459838

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.

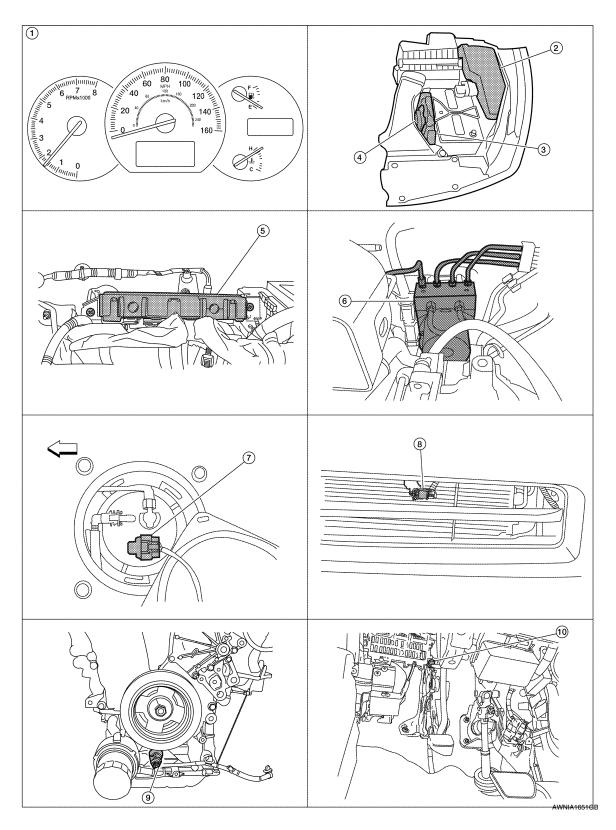
MWI

M

K

0

FUEL GAUGE : Component Parts Location



- Combination meter M23, M24
- TCM F15

- IPDM E/R E17, E18, E201, F10
- with instrument panel removed)
- ECM E10
- BCM M17, M18, M19, M20, M21 (view 6. ABS actuator and electric unit (control unit) E26

Ambient sensor E211

< FUNCTION DIAGNOSIS >

- Fuel level sensor unit and fuel pump (fuel level sensor) B42 (view with rear seat and inspection hole cover removed)
 - moved) ⇐: Front
- 10. Parking brake switch E35 (view with instrument lower cover LH removed)

- Oil pressure switch F41 (view with engine removed)
- Α

В

D

Е

INFOID:000000005459840

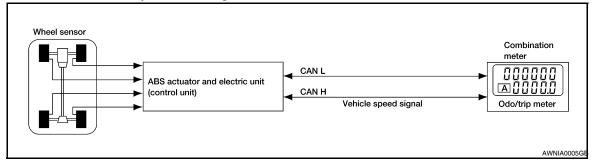
INFOID:0000000005459841

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.
Fuel level sensor unit	Refer to MWI-40, "Description".

ODO/TRIP METER

ODO/TRIP METER: System Diagram



ODO/TRIP METER: System Description

INFOID:0000000005459842

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.

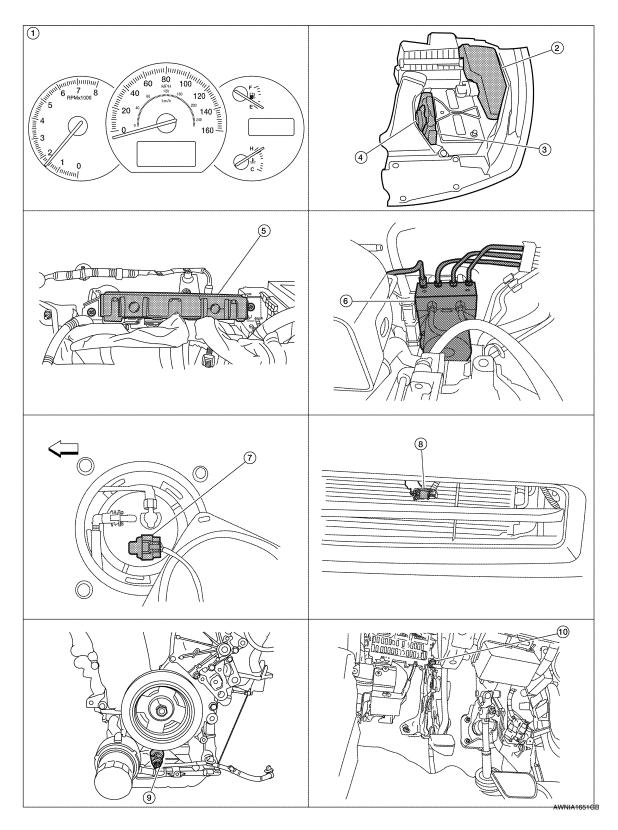
MWI

M

K

C

ODO/TRIP METER: Component Parts Location



- Combination meter M23, M24
- TCM F15

- IPDM E/R E17, E18, E201, F10
- with instrument panel removed)
- ECM E10
- BCM M17, M18, M19, M20, M21 (view 6. ABS actuator and electric unit (control unit) E26

Ambient sensor E211

< FUNCTION DIAGNOSIS >

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

- Oil pressure switch F41 (view with engine removed)
- Α
- В

D

Е

INFOID:0000000005459844

ODO/TRIP METER: Component Description

Unit	Description	
Combination meter	Indicates the vehicle speed according to the vehicle speed signal received from ABS actuator ar 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

INFOID:000000005459845 Combination meter P range signal N range signal Unified meter control unit R range signal Transmission TCM range switch D range signal CAN L **CVT** indicator L range signal CAN H CVT position indicator signal AWNIA19140

SHIFT POSITION INDICATOR: System Description

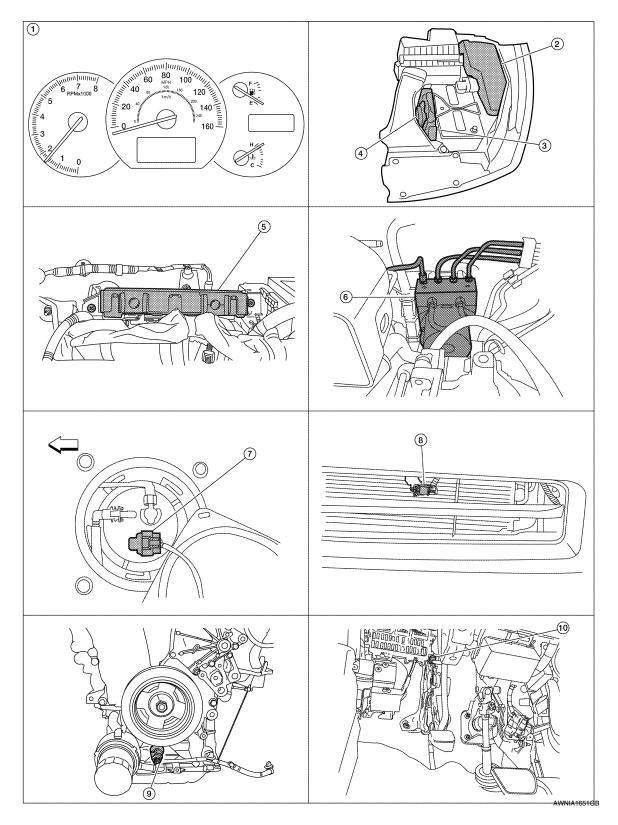
The TCM receives CVT indicator signals from the transmission range switch. The TCM then sends CVT position indicator signals to the combination meter via CAN communication lines. The combination meter indicates the received shift position.

INFOID:0000000005459846

K

MWI

SHIFT POSITION INDICATOR: Component Parts Location



- Combination meter M23, M24
- TCM F15

- IPDM E/R E17, E18, E201, F10
- with instrument panel removed)
- ECM E10
- BCM M17, M18, M19, M20, M21 (view 6. ABS actuator and electric unit (control unit) E26

< FUNCTION DIAGNOSIS >

- Fuel level sensor unit and fuel pump (fuel level sensor) B42 (view with rear seat and inspection hole cover removed)
- 10. Parking brake switch E35 (view with instrument lower cover LH removed)
- Ambient sensor E211 Oil pressure switch F41 (view with en
 - gine removed)

INFOID:0000000005459848

Α

D

Е

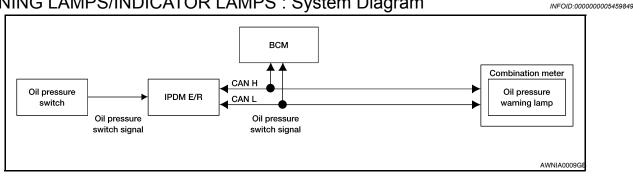
Н

SHIFT POSITION INDICATOR: Component Description

Unit	Description	
Combination meter	Displays the shift position using shift position signal received from TCM.	
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:0000000005459850

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.

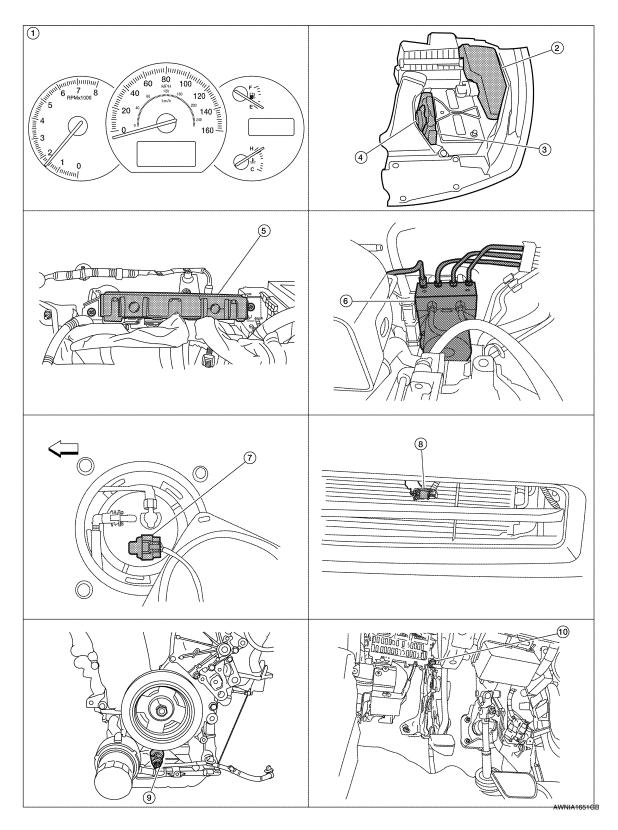
When power and ground are supplied, the oil pressure warning lamp illuminates.

MWI

M

L

WARNING LAMPS/INDICATOR LAMPS: Component Parts Location



- Combination meter M23, M24
- TCM F15

- IPDM E/R E17, E18, E201, F10
- with instrument panel removed)
- ECM E10
- BCM M17, M18, M19, M20, M21 (view 6. ABS actuator and electric unit (control unit) E26

< FUNCTION DIAGNOSIS >

- Fuel level sensor unit and fuel pump (fuel level sensor) B42 (view with rear seat and inspection hole cover removed)
- 10. Parking brake switch E35 (view with instrument lower cover LH removed)
- Ambient sensor E211 Oil pressure switch F41 (view with en
 - gine removed)

WARNING LAMPS/INDICATOR LAMPS: Component Description

INFOID:0000000005459852

Α

D

Е

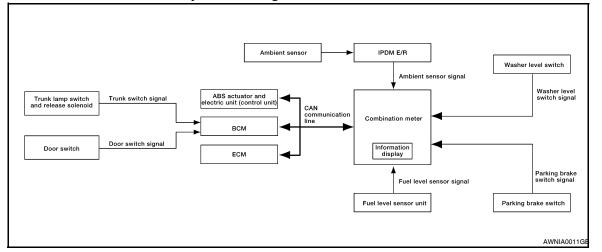
Н

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





INFORMATION DISPLAY: System Description

INFOID:0000000005459854

FUNCTION

The information display can indicate the following items.

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

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.

MPG

MWI

M

0

2010 Maxima

< FUNCTION DIAGNOSIS >

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 (fuel remaining), ECM (fuel consumption) and vehicle speed signals from the ABS actuator and electric unit (control unit).

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 to determine the amount of fuel in the fuel tank.

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 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:0000000005459855

Α

В

D

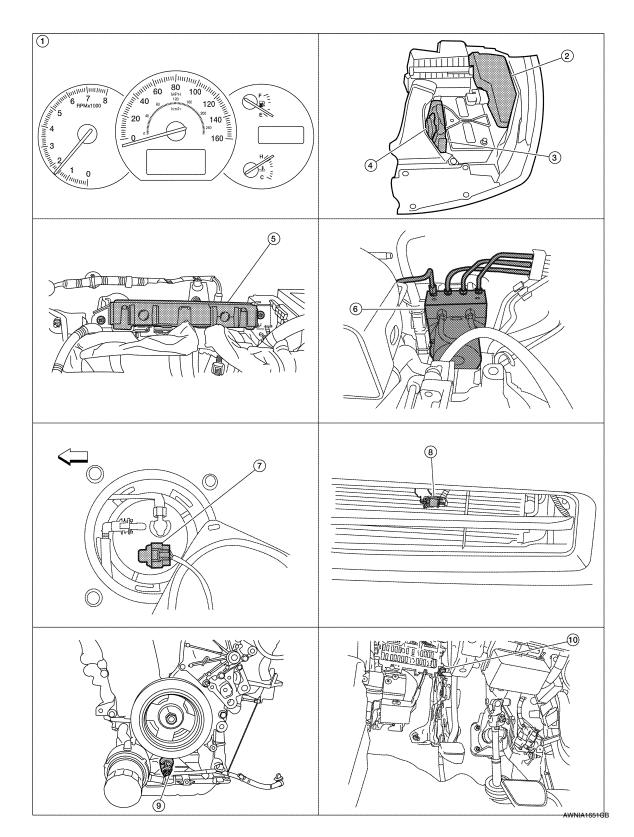
Е

Н

M

MWI

0



- 1. Combination meter M23, M24
- 4. TCM F15

- 2. IPDM E/R E17, E18, E201, F10
- 5. BCM M17, M18, M19, M20, M21 (view 6. with instrument panel removed)
- 3. ECM E10
- . ABS actuator and electric unit (control unit) E26

< FUNCTION DIAGNOSIS >

- Fuel level sensor unit and fuel pump (fuel level sensor) B42 (view with rear seat and inspection hole cover removed)
- 8. Ambient sensor E211
- 9. Oil pressure switch F41 (view with engine removed)

- $\Leftarrow: \mathsf{Front}$
- 10. Parking brake switch E35 (view with instrument lower cover LH removed)

INFORMATION DISPLAY: Component Description

Unit	Description		
Combination meter	Controls the information display according to the signal received from each unit.		
Fuel level sensor unit	Refer to MWI-40, "Description".		
FCM	Transmits the following signals to the combination meter via CAN communication line.		
ECM	Engine speed signal Fuel consumption monitor 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 level switch	Transmits the washer level signal to the combination meter.		
Parking brake switch	Refer to MWI-43, "Description".		
Door switch	Transmits the door switch signals to BCM.		
Trunk lamp switch and trunk release solenoid	Transmits the trunk switch signal to BCM.		
IPDM E/R	Transmits the ambient sensor signal received from the ambient sensor to the combination meter.		
Ambient sensor	Detects the ambient temperature and transmits the ambient sensor signal to the IPDM E/R.		

COMPASS

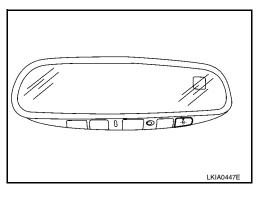
Description INFOID:0000000005459857

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 15 14 12 WKIA4148E

- 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: November 2009 MWI-27 2010 Maxima

Н

Α

В

D

Е

MWI

0

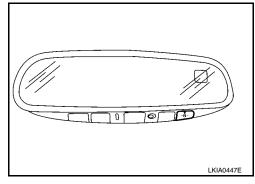
COMPASS

< FUNCTION DIAGNOSIS >

- 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)

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (METER)

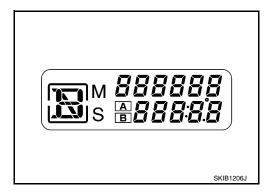
Diagnosis Description

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

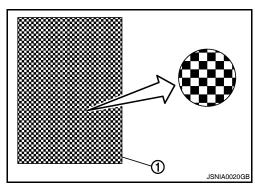
- Turn the ignition switch OFF.
- 2. While pushing the odo/trip meter switch, turn the ignition switch ON again.
- 3. Push the odo/trip meter switch at least 3 times within 7 seconds after the ignition switch is turned ON.
- 4. The unified meter control unit is turned to self-diagnosis mode.
 - All the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



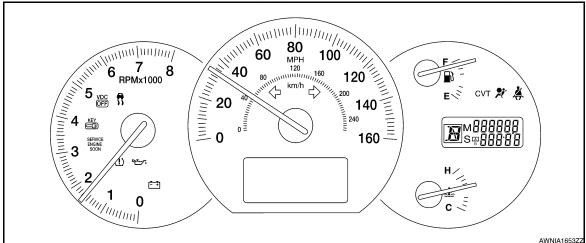
Dots in all segments of information display LCD (1) flash alternately.

NOTE:

If any of the segments are not displayed, replace the combination meter. Refer to MWI-140, "Removal and Installation".



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



CONSULT-III Function (METER/M&A)

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

Revision: November 2009 MWI-29 2010 Maxima

M

Α

В

D

Е

INFOID:000000005459858

MWI

0

Р

DIAGNOSIS SYSTEM (METER)

< FUNCTION DIAGNOSIS >

METER/M&A diagnosis mode	Description	
SELF-DIAG RESULTS	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-74, "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.
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.
SET IND [ON/OFF]		Х	Displays [ON/OFF] condition of SET indicator.
ATC/T-AMT W/L [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 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, L]		Х	Displays [P, R, N, D, L] range position of CVT.
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.
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.

DIAGNOSIS SYSTEM (METER)

< FUNCTION DIAGNOSIS >

Display item [Unit]	MAIN SIGNALS	SELECTION FROM MENU	Description
COMP F/B SIG [ON/OFF]		х	A/C compressor activation condition that ECM judges according to the water temperature and the acceleration degree.
PKB SW [ON/OFF]		Х	Displays [ON/OFF] condition of parking brake switch.
BUCKLE SW [ON/OFF]		Х	Displays [ON/OFF] condition of seat belt buckle switch LH.
BRAKE OIL SW [ON/OFF]		Х	Displays [ON/OFF] condition of brake fluid level switch.
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.

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

G

Α

В

 D

Е

F

Н

J

<

L

M

MWI

0

DTC U1000 CAN COMMUNICATION

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

DTC U1000 CAN COMMUNICATION

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT-III 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:0000000005459861

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-III.

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

U1010 CONTROL UNIT (CAN)

< COMPONENT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

Description INFOID:0000000005459862

Initial diagnosis of combination meter.

DTC Logic

DTC DETECTION LOGIC

DTC	Display contents of CON- SULT-III	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

INFOID:0000000005459864

1. REPLACE COMBINATION METER

When DTC "U1010" is detected, replace combination meter. Refer to MWI-140, "Removal and Installation".

>> Inspection End.

G

Α

В

D

Е

Н

J

1

L

M

MWI

0

DTC B2205 VEHICLE SPEED CIRCUIT

< COMPONENT DIAGNOSIS >

DTC B2205 VEHICLE SPEED CIRCUIT

Description INFOID:000000005459865

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-III 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:0000000005459867

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-III.
- 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 <u>BRC-22, "CONSULT-III Function (ABS)"</u>.
- NO >> Replace combination meter. Refer to MWI-140, "Removal and Installation".

B2267 ENGINE SPEED

< COMPONENT DIAGNOSIS >

B2267 ENGINE SPEED

Description INFOID:000000005459868

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-III	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:000000005459870

1. PERFORM SELF-DIAGNOSIS OF ECM

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

>> Refer to EC-126, "CONSULT-III Function".

G

Α

В

D

Е

ı

J

<

L

M

MWI

B2268 WATER TEMP

< COMPONENT DIAGNOSIS >

B2268 WATER TEMP

Description INFOID:0000000005459871

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-III	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 cencer

Diagnosis Procedure

INFOID:0000000005459873

1.PERFORM SELF-DIAGNOSIS OF ECM

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

>> Refer to EC-126, "CONSULT-III Function".

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT COMBINATION METER

INFOID:0000000005459874

COMBINATION METER: Diagnosis Procedure

Regarding Wiring Diagram information, refer to MWI-54, "Wiring Diagram".

1.CHECK FUSES

Check for blown combination meter fuses.

Unit	Power source	Fuse No.
Combination meter	Battery	11
Combination meter	Ignition switch ON or START	4

Is the inspection result normal?

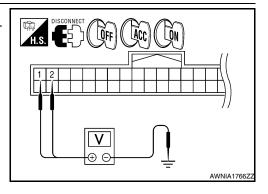
YES >> GO TO 2

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	START
Connector	Terminal		011		OTAICI
M24	1 Cround		Battery voltage	Battery voltage	Battery voltage
10124	2	Ground	0V	Battery voltage	Battery voltage



Is the inspection result normal?

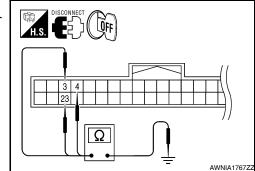
YES >> GO TO 3

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.

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



Is the inspection result normal?

YES >> Inspection End.

NO >> Check ground harness.

BCM (BODY CONTROL MODULE)

MWI-37 Revision: November 2009 2010 Maxima Α

В

D

Е

F

Н

K

M

MWI

0

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

BCM (BODY CONTROL MODULE): Diagnosis Procedure

INFOID:0000000005511908

Regarding Wiring Diagram information, refer to MWI-98, "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

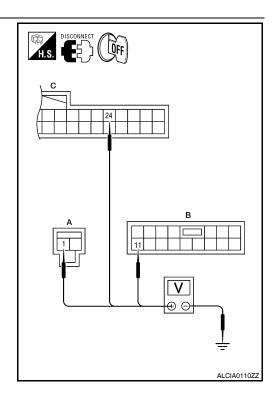
- 1. Turn ignition switch OFF.
- 2. Disconnect BCM.
- 3. Check voltage between BCM harness connector and ground.

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

Is the measurement normal?

YES >> GO TO 3

NO >> Repair or replace harness.



3. CHECK GROUND CIRCUIT

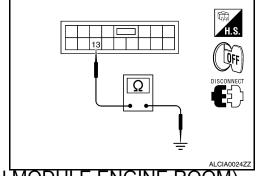
Check continuity between BCM harness connector and ground.

В	CM		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) : Di-

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

agnosis Procedure

INFOID:0000000005511909

Regarding Wiring Diagram information, refer to MWI-120, "Wiring Diagram".

В

D

Е

Α

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, 2		B, D
	Battery power supply	42
_		43

Is the fuse blown?

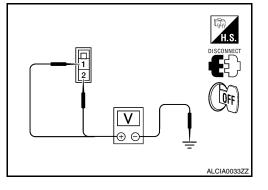
YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

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.

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



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	Cround	Continuity	
A: E18	12	Ground	Yes	
B: E17	41		165	

A H.S. DISCONNECT PARTY ALCIAO034ZZ

Does continuity exist?

YES >> Inspection End.

NO >> Repair harness or connector.

Revision: November 2009 MWI-39 2010 Maxima

F

3

Н

|

Κ

M

MWI

0

FUEL LEVEL SENSOR SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

FUEL LEVEL SENSOR SIGNAL CIRCUIT

Description INFOID:0000000005459877

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

Component Function Check

INFOID:0000000005459878

1.COMBINATION METER INPUT SIGNAL

- Select "METER/M&A" on CONSULT-III.
- 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-140, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000005459879

Regarding Wiring Diagram information, refer to MWI-54, "Wiring Diagram".

1. CHECK HARNESS CONNECTOR

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

Is the inspection result normal?

YES >> GO TO 2

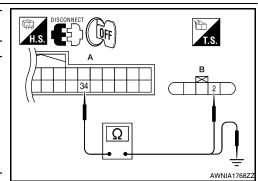
NO >> Repair or replace terminals or connectors.

2.CHECK FUEL LEVEL SENSOR UNIT CIRCUIT

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

	Α		В	
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

< COMPONENT DIAGNOSIS >

Α			Continuity
Connector	Terminal	Ground	Continuity
M24	34		No

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair harness or connector.

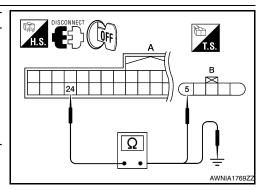
3.check fuel level sensor unit ground circuit

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

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

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

	Α		Continuity
Connector	Terminal	Ground	Continuity
M24	24		No



Is the inspection result normal?

YES >> GO TO 4

NO >> Repair harness or connector.

4. CHECK INSTALLATION CONDITION

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Install the fuel level sensor unit properly.

Component Inspection

1. REMOVE FUEL LEVEL SENSOR UNIT

Remove the fuel level sensor unit. Refer to FL-7, "Removal and Installation".

>> GO TO 2

$2.\mathsf{CHECK}$ FUEL LEVEL SENSOR UNIT AND FUEL PUMP

Check the resistance between terminals 2 and 5.

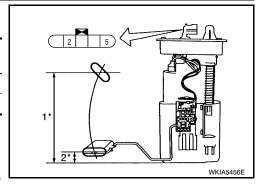
Terr	minal		Float p mm	Resistance value (Approx.)	
2	5	1*	Full (1)	155.4 (6.1)	6Ω
2	3	2*	Empty (2)	22.9 (0.9)	80Ω

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

Is inspection result normal?

YES >> Inspection End.
NO >> Replace fuel lev

>> Replace fuel level sensor unit and fuel pump. Refer to FL-7, "Removal and Installation".



Α

3

C

Ε

D

F

G

Н

K

INFOID:0000000005459880

MWI

M

0

OIL PRESSURE SWITCH SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

OIL PRESSURE SWITCH SIGNAL CIRCUIT

Description INFOID:0000000005459881

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

Component Function Check

INFOID:0000000005459882

1.COMBINATION METER INPUT SIGNAL

- 1. Select "METER/M&A" on CONSULT-III.
- 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:0000000005459883

Regarding Wiring Diagram information, refer to MWI-54, "Wiring Diagram".

1. CHECK OIL PRESSURE SWITCH CIRCUIT

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

Continuity should exist.

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair harness or connector.

Component Inspection

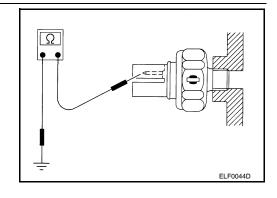
DISCONNECT OFF A T.S. AWNIA0016ZZ

INFOID:0000000005459884

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



Is the inspection result normal?

YES >> Inspection End.

NO >> Replace the oil pressure switch.

PARKING BRAKE SWITCH SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

PARKING BRAKE SWITCH SIGNAL CIRCUIT

Description INFOID:000000005459885

Transmits the parking brake switch signal to the combination meter.

Component Function Check

1. COMBINATION METER INPUT SIGNAL

- 1. Select "METER/M&A" on CONSULT-III.
- 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

Regarding Wiring Diagram information, refer to MWI-54, "Wiring Diagram".

1 - CHECK PARKING BRAKE SWITCH CIRCUIT

- 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.

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

26 - Ground : Continuity should not exist.

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair harness or connector.

Component Inspection

1. CHECK PARKING BRAKE SWITCH

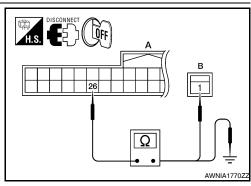
Check continuity between parking brake switch terminal 1 and switch case ground.

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace parking brake switch.



INFOID:0000000005459888



M

Α

В

D

Е

Н

INFOID:0000000005459886

INFOID:000000005459887

0

Р

AWNIA0018Z

WASHER LEVEL SWITCH SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

WASHER LEVEL SWITCH SIGNAL CIRCUIT

Description INFOID:000000005459888

Transmits the washer level switch signal to the combination meter.

Component Function Check

1. COMBINATION METER INPUT SIGNAL

- 1. Select "METER/M&A" on CONSULT-III.
- 2. 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-54, "Wiring Diagram".

1. CHECK WASHER LEVEL SWITCH SIGNAL CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect combination meter connector and washer level switch connector.
- Check continuity between combination meter harness connector M24 (A) terminal 29 and washer 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 LEVEL SWITCH GROUND CIRCUIT

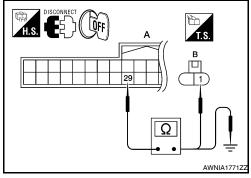
Check continuity between washer fluid level switch harness connector E208 terminal 2 and ground.

2 - Ground : Continuity should exist.

Is the inspection result normal?

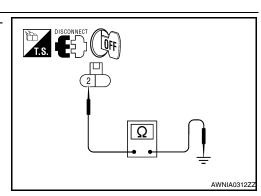
YES >> Inspection End.

NO >> Repair harness or connector.



INFOID:000000005459890

INFOID:0000000005459891



WASHER LEVEL SWITCH SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

Component Inspection

INFOID:0000000005459892

1. CHECK WASHER FLUID LEVEL SWITCH

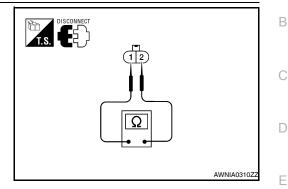
Check continuity between washer level switch terminals 1 and 2.

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace washer level switch.



F

Α

G

Н

Κ

L

M

MWI

0

AMBIENT SENSOR SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

AMBIENT SENSOR SIGNAL CIRCUIT

Description INFOID:000000005459893

Transmits the ambient sensor signal to the combination meter.

Component Function Check

INFOID:0000000005459894

1. COMBINATION METER INPUT SIGNAL

- 1. Select "METER/M&A" on CONSULT-III.
- Using "OUTSIDE TEMP" on "DATA MONITOR", compare the value of DATA MONITOR with temperature display on combination meter. DATA MONITOR and combination meter indications should be close.

Does the data monitor value approximately match the display on the combination meter?

YES >> Inspection End.

NO >> Replace combination meter. Refer to MWI-140, "Removal and Installation".

Diagnosis Procedure

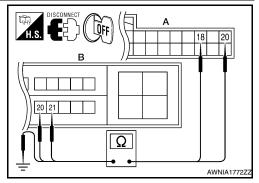
INFOID:0000000005459895

Regarding Wiring Diagram information, refer to MWI-54, "Wiring Diagram".

1. CHECK AMBIENT SENSOR CIRCUITS BETWEEN COMBINATION METER AND IPDM E/R

- Disconnect combination meter connector M24 and IPDM E/R connector E18.
- Check continuity between combination meter harness connector M24 (A) terminals 18, 20 and IPDM E/R harness connector E18 (B) terminals 20 and 21.

	A		В	Continuity
Connector	Terminal	Connector Terminal		Continuity
M24	18	E18	21	Yes
10124	20	E10	20	res



3. Check continuity between combination meter harness connector M24 (A) terminals 18, 20 and ground.

	Α		Continuity
Connector	Terminal	Ground	Continuity
M24	18	Orodina	No
IVIZ4	20		NO

Is the inspection result normal?

YES >> GO TO 2

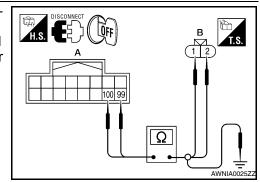
NO >> Repair harness or connector.

2.CHECK AMBIENT SENSOR CIRCUITS BETWEEN IPDM E/R AND AMBIENT SENSOR

- Disconnect IPDM E/R connector E201 and ambient sensor connector E211.
- Check continuity between IPDM E/R harness connector E201

 (A) terminals 99, 100 and ambient sensor harness connector E211 terminals 1 and 2.

Α		В		Continuity
Connector	Terminal	Connector	Terminal	Continuity



AMBIENT SENSOR SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

F004	99	F044	2	V
E201	100	E211	1	Yes

3. Check continuity between IPDM E/R harness connector E201 (A) terminals 99, 100 and ground.

Α			Continuity
Connector	Terminal	Ground	Continuity
E201	99	Ground	No
	100		NO

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-41, "Removal and Installation".

NO >> Repair harness or connector.

Component Inspection

Refer to <u>HAC-35</u>, "Component Inspection" (with color display) or <u>HAC-163</u>, "Component Inspection" (without color display).

INFOID:000000005459896

G

Α

В

D

Е

F

Н

L

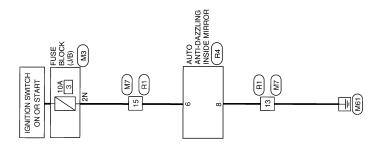
M

MWI

0

COMPASS

Wiring Diagram



COMPASS

ABNWA0140GI

Connector Name WIRE TO WIRE

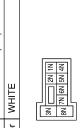
뜐

Connector No.

Connector Color WHITE

COMPASS CONNECTORS

M7	WIRE TO WIRE	JIHM
Connector No.	Connector Name	Connector Color
M3	FUSE BLOCK (J/B)	WHITE
Connector No.	Connector Name	Connector Color





Signal Nar	ı	
Color of Wire	D	
rminal No.	2N	

Signal Name

Color of Wire

Terminal No. 13 15

Signal Name

Color of Wire ш ပြ

Terminal No.

5 5

В

			AUTO ANTI-DAZZLING INSIDE MIRROR (WITH
5		P4	AUT(INSI
		O	ome
7		Connector No.	Omely reported

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



Signal Name	NSI	GND	
Color of Wire	B/R	В	
Terminal No.	9	8	

10 9 8 7 6	Signal N	IGN	GND
1-1	Color of Wire	B/R	В
ó	ninal No.	9	8

ABNIA1680GB

Α

В

С

 D

Е

F

G

Н

J

Κ

L

 \mathbb{N}

MWI

0

ECU DIAGNOSIS

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 W/L	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
SLIF IND	SLIP indicator lamp OFF	OFF
BRAKE W/L*	Brake warning lamp ON	ON
	Brake warning lamp OFF	OFF
DOOR W/L	Door warning lamp ON	ON
DOOR W/L	Door warning lamp OFF	OFF
TDUNKICI AC II	Trunk warning lamp ON	ON
TRUNK/GLAS-H	Trunk warning lamp OFF	OFF
LUDEAMIND	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
OII W/I	Oil pressure warning lamp ON	ON
OIL W/L	Oil pressure warning lamp OFF	OFF
MAII	Malfunction indicator lamp ON	ON
MIL	Malfunction indicator lamp OFF	OFF
CDUISE IND	CRUISE indicator ON	ON
CRUISE IND	CRUISE indicator OFF	OFF
CET IND	SET indicator ON	ON
SET IND	SET indicator OFF	OFF
ATC/T ANAT MAIN	CVT warning lamp ON	ON
ATC/T-AMT W/L	CVT warning lamp OFF	OFF

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
FUEL W/L	Low-fuel warning lamp ON	ON
I OLL VV/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//	Low tire pressure warning lamp ON	ON
AIR PRES W/L	Low tire pressure warning lamp OFF	OFF
KEN O MIII	Key warning lamp ON	ON
KEY G 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
M DANIOE 014/	Manual mode range switch ON	ON
M RANGE SW	Manual mode range switch OFF	OFF
NIM DANIOE OW	Except for manual mode range switch ON	ON
NM RANGE SW	Except for manual mode range switch OFF	OFF
	CVT shift-up switch ON	ON
AT SFT UP SW	CVT shift-up switch OFF	OFF
4T 05T B\4/L 0\4/	CVT shift-down switch ON	ON
AT SFT DWN SW	CVT shift-down switch OFF	OFF
	A/C compressor ON	Displays the A/C compressor activation con-
COMP F/B SIG	A/C compressor OFF	dition [ON/OFF] the ECM judges according to the water temperature and the acceleration degree.
PKB SW	Parking brake switch ON	ON
PND SW	Parking brake switch OFF	OFF
DUCKLE CW	Seat belt (driver side) not fastened	ON
BUCKLE SW	Seat belt (driver side) fastened	OFF
DDAKE OIL CM	Brake fluid level switch ON	ON
BRAKE OIL SW	Brake fluid level 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 OLO	Low fuel warning displayed	ON
FUEL LOW SIG	Low fuel warning not displayed	OFF
DUZZED	Buzzer ON	ON
BUZZER	Buzzer OFF	OFF

NOTE:

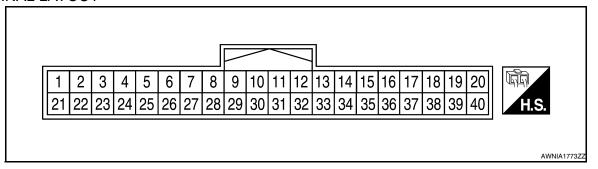
^{*} The monitor will indicate "OFF" even though the brake warning lamp is on if either of the following conditions exist:

[·] The parking brake is engaged

[·] The brake fluid level is low

< ECU DIAGNOSIS >

TERMINAL LAYOUT



PHYSICAL VALUES

Termi-	Wire			Condition	Reference value (V)
nal	color	Item	Ignition switch	Operation or condition	(Approx.)
1	W/L	Battery power supply	_	_	Battery voltage
2	0	Ignition switch ON or START	ON	_	Battery voltage
3	В	Ground (Power)			0
4	В	Ground (Illumination)	_	_	0
5	В	Illumination output	_	_	Refer to INL-9, "System Description".
10	O/L	Mode switch ground	ON	_	0
44	L /D	Made quitab A	ON	Switch pressed	0
11	L/R	Mode switch A	ON	Switch released	5
10	D/D	Made quitek D	ON	Switch pressed	0
12	B/R	Mode switch B	ON	Switch released	5
45	DD/M/	Air bag warning lamp in-	ON	Air bag warning lamp ON	3
15	BR/W	put	ON	Air bag warning lamp OFF	0
18	O/B	Ambient sensor signal	ON	_	0 - 5 (Based on ambient temperature
19	Р	Ambient sensor power	ON	_	5
20	B/Y	Ambient sensor ground	ON	_	0
21	L	CAN-H	_	_	-
22	Р	CAN-L	_	_	-
23	В	Ground (Circuit)	_	_	0
24	B/W	Fuel level sensor ground	ON	_	0
0.5	DD	Commenter	ON	Generator voltage low	0
25	BR	Generator	ON	Generator voltage normal	Battery voltage
00	O/D	Danking backs switch	ON	Parking brake depressed	0
26	G/R	Parking brake switch	ON	Parking brake released	Battery voltage
07	\ <u>/</u>	Droke fluid level ewitch	ON	Brake fluid level low	0
27	V	Brake fluid level switch	ON	Brake fluid level normal	Battery voltage
20	1.10		٥٢٢	Security indicator ON	0
28	L/O	Security indicator input	OFF	Security indicator OFF	Battery voltage
20	ר	Weeker fluid level aviitele	ON	Washer fluid level low	0
29	R	Washer fluid level switch	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

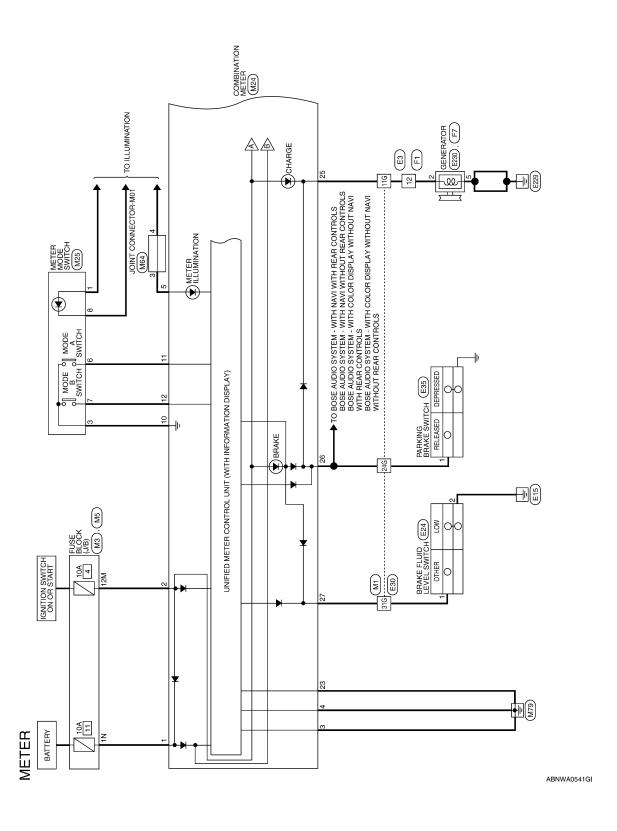
< ECU DIAGNOSIS >

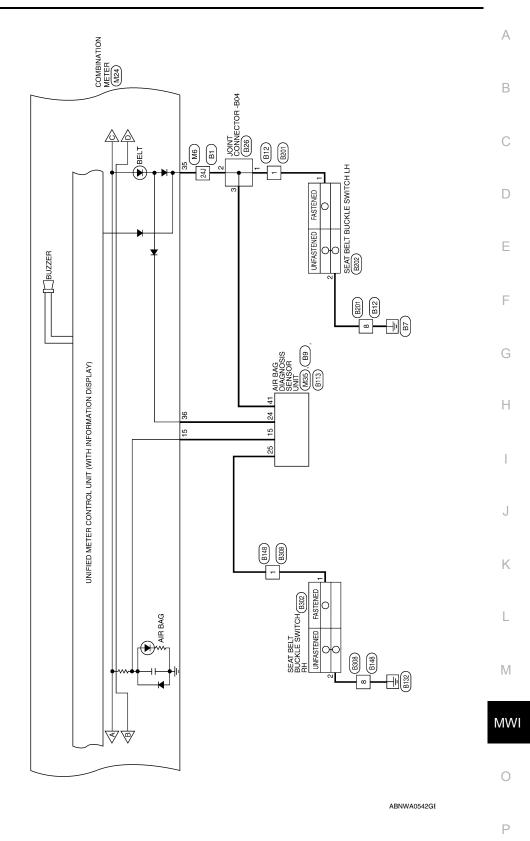
Termi-	Wire			Condition	Reference value (V)
nal	color	Item	Ignition switch	Operation or condition	(Approx.)
31	V/W	Vehicle speed signal out- put (8-pulse)	ON	Speedometer operated [When vehicle speed is ap- prox. 40 km/h (25 MPH)]	NOTE: Maximum voltage may be 12V due to specifications (connected units). (V) 6 4 2 0 PKICO643E
34	G/B	Fuel level sensor signal	_	_	Refer to MWI-15, "FUEL GAUGE : System Description".
25	W//D	Seat belt buckle switch	ON	Unfastened (ON)	0
35	W/B	LH	ON	Fastened (OFF)	Battery voltage
36	L/W	Seat belt buckle switch	ON	Unfastened (ON)	0
30	L/VV	RH	ON	Fastened (OFF)	Battery voltage
37	G	Not M range	ON	Manual mode switch OFF	0
31	0	Not wrange	ON	Manual mode switch ON	Battery voltage
38	BR	AT shift down	ON	 Manual mode switch ON Shift down operation	0
				Other than above	Battery voltage
39	W	AT 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
10	20/10	rango	011	Manual mode switch ON	0
49	G	Paddle shift signal	ON	Shift down operation	0
-		(shift down)	-	Switch released	Battery voltage
50	0	Paddle shift signal	ON	Shift up operation	0
		(shift up)		Switch released	Battery voltage

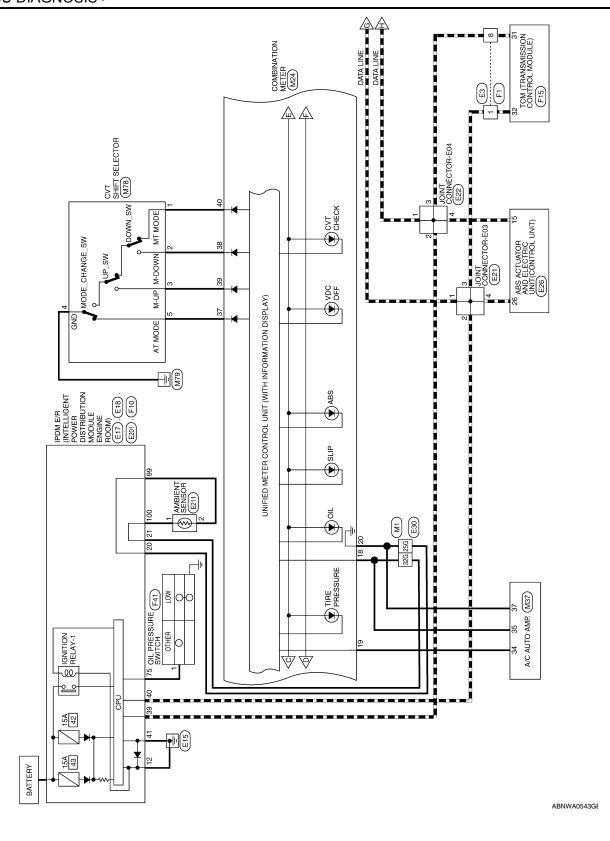
MWI

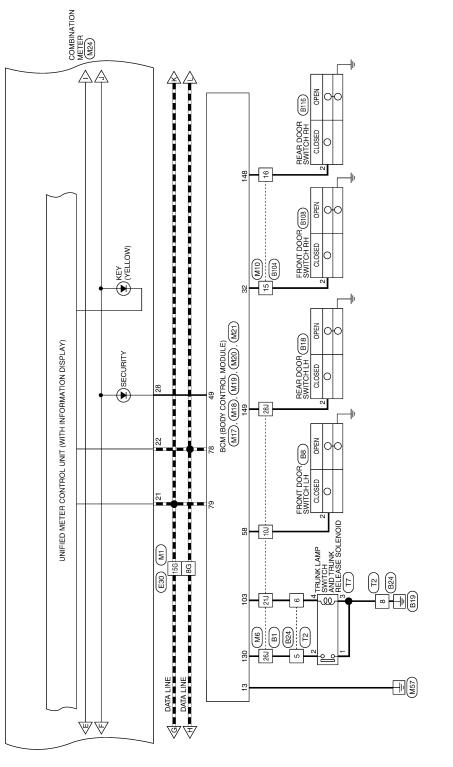
0

Wiring Diagram









MWI

Α

В

С

 D

Е

F

G

Н

J

Κ

L

M

0

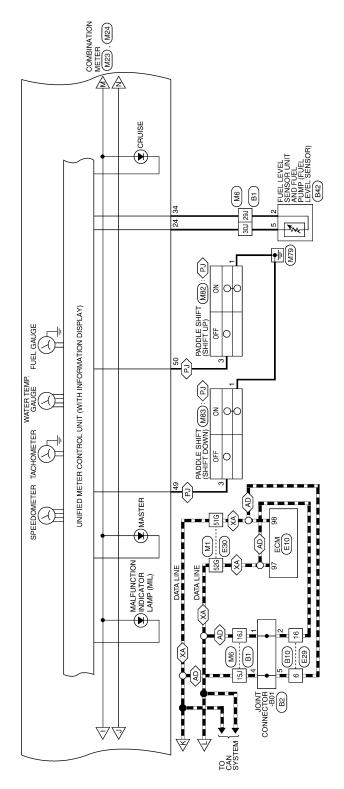
ABNWA0544GE

 ⟨AD⟩
 :WITH AUTOMATIC DRIVE POSITIONER

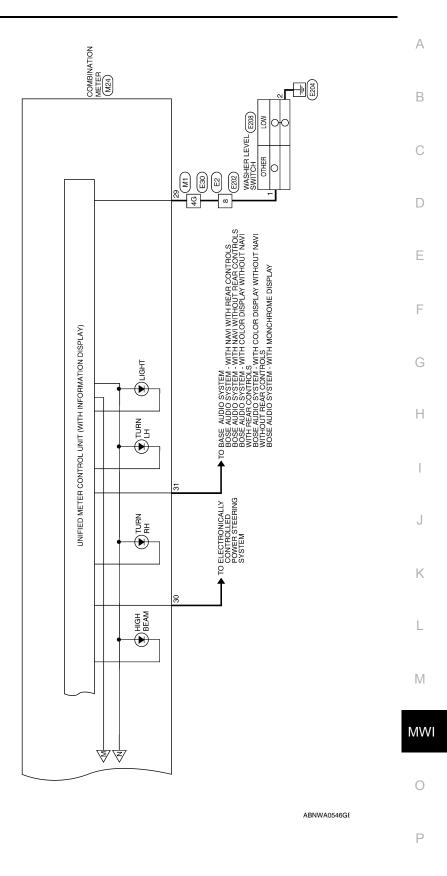
 ⟨PJ⟩
 :WITH PADDLE SHIFT

 ⟨XA⟩
 :WITHOUT AUTOMATIC DRIVE

 POSITIONER

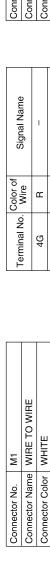


ABNWA0545GE

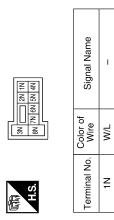


Revision: November 2009 MWI-59 2010 Maxima

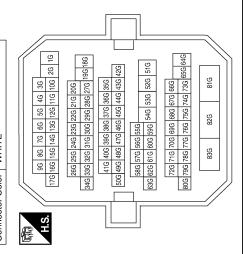
METER CONNECTORS







Signal Name	-	_	_	_	_	I	_	_	_	1
Color of Wire	н	Ь	BR	٦	G/R	B/Y	^	O/B	Г	۵
Terminal No.	4G	8G	11G	15G	24G	25G	31G	32G	51G	52G



M5	FUSE BLOCK (J/B)	WHITE
Connector No.	Connector Name	Connector Color

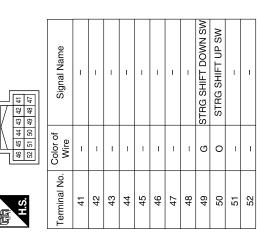


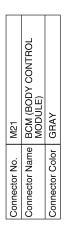
Signal Name	1	
Color of Wire	0	
Terminal No.	12M	

ABNIA0415GB

Connector No. M10	Connector No. M19	A B C D
Signal Name	M18 BCM (BODY CONTROL MODULE) GREEN SE 51 50 150 150 150 150 150 150 150 150 1	F G H
Terminal No. Color of Wire 10.0 SB 15.0 L 15.1 L 21.0 V 24.0 W/B 28.0 G/B 30.0 B/W	Connector No. M18	J
M6 WIRE TO WIRE WHITE	M17 BCM (BODY CONTROL MODULE) WHITE S 7	K L M
Connector No. M6 Connector Name WIRE TO WIRE Connector Color WHITE Standard Standar	Connector No. M17	MWI O

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

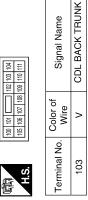






Color of Signal Name	W TRUNK SW	R/W RR DOOR SV	R/B RL DOOR SV
Terminal No.	130	148	149

M20	Connector Name BCM (BODY CONTROL MODULE)	WHITE	
Connector No.	Connector Name	Connector Color WHITE	



ABNIA0417GB

Connector No.	. M25	
Connector Name		METER MODE SWITCH
Connector Color	_	WHITE
[-
佢	1 2 3	4
ġ.	2 6 7	8
Terminal No.	Color of Wire	Signal Name
-	B/L	SW ILL POWER
က	O/L	SW GND
9	L/R	MODE SW A
7	B/R	MODE SW B
80	₽/Y	SW ILL GND

Signal Name	ı	OUTSIDE SENDER	OUTSIDE SENDER VAC	OUTSIDE SENDER GND	CAN-H	CAN-L	GND (CIRCUIT)	GND (FUEL SENSOR)	CHG	PKB	BRAKE OIL IN	SECURITY	LOW WASH FLUID SW	2P/R OUT	8P/R OUT	_	_	FUEL SENSOR	DR BELT	AS BELT	NOT M RANGE	AT SHIFT DOWN	AT SHIFT UP	M RANGE
Color of Wire	ı	0/B	۵	В/У	_	۵	В	B/W	BR	G/R	^	0/7	æ	L/B	W/N	I	_	G/B	M/B	N/	G	BB	Μ	LG/R
Terminal No.	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Connector No.	. M24	4	
Connector Name	_	COMBINATION METER	
Connector Color		WHITE	
H.S.			
1 2 3 4 5 21 22 23 24 25	6 7 8	9 10 11 12 13 14 15 16 17 18 19 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	9 6
Terminal No.	Color of Wire	Signal Name	
1	M/L	BAT	
2	0	NÐI	
3	В	GND (POWER)	
4	В	GND (ILL)	
2	В	ILL OUTPUT	
6	-	1	
7	_	-	
8	_	1	
6	-	ı	
10	T/O	GND (SATELLITE SW)	
11	L/R	MODE A SW	
12	B/B	MODE B SW	
13	ı	ı	
14	Ι	-	
15	BR/W	AIR BAG	
16	-	ı	

Α

В

C

D

Е

F

G

Н

Κ

L

M

MWI

C

ABNIA0418GB

PADDLE SHIFTER (SHIFT DOWN)

M83

WHITE

Q-00

Signal Name

Color of Wire

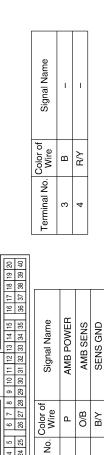
<u>ක</u> | ග

က

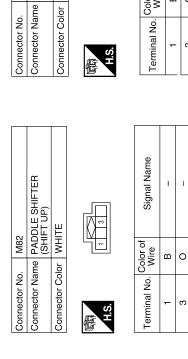
Connector Name A/C AUTO AMP. Connector Color WHITE	S AUTO AMP.	Connector Name JOIN Connector Color WHIT	Connector Color WHITE
£			
NEWS			4 3 2 1 11

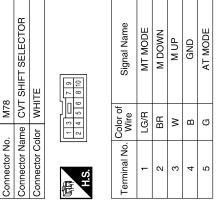
Connector		H.S. 1 2 3 4 21 22 23 24	Terminal N	34	35
Connector Name AIR BAG DIAGNOSIS SENSOR UNIT	wo	77 45 1 18 6 5 1 18 18 1 5 1 18 18 1 18 18 18 18 18 18 18 18 18 18	Signal Name	AIRBAG W/L	SEAT BELT REMINDER
me AIR B SENS	lor YELL	22 11 46 48 47 45 16 12 15	Color of Wire	BR/W	M
Connector Na	Connector Color YELLOW	H.S.	Terminal No.	15	24

Connector No.



37

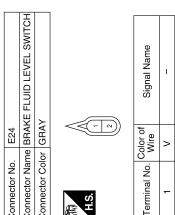




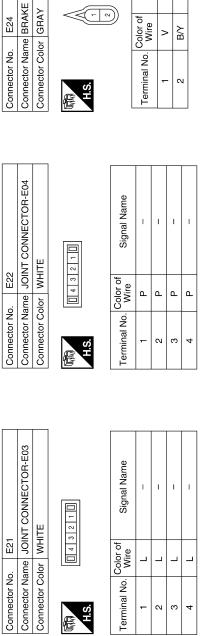
ABNIA1673GB

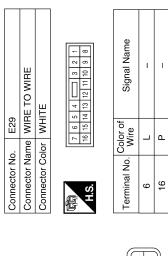
E10 ECM BLACK	5 89 93 97 for 105 109 5 90 94 80 120 101 1 90 94 89 102 101 101	8 28	or of Signal Name	CAN-L												A B C
Connector No. Connector Name Connector Color	H.S. 82 88 85 88 85 88 85 88 85 88 85 88 85 88 85 88 85 88 85 88 85 88 85 88 85 88 85 88 85 85	88 88 88	Terminal No. Color of Wire	97 P					37 38							D E
						 \$			0 31 32 33 34	20 21 22 23 24				R/3	/R	F
TO WIRE	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Signal Name	1 1	1		IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODILI E ENGINE BOOM)		F	25 26 27 28 29 30 31 32 33 34	15 16 17 18 19 2		1	Signal Name	AMB SENS GND-E/R	AMB SENS SIG-E/R	G H
Connector No. E3 Connector Name WIRE TO WIRE Connector Color WHITE	1 5 3 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 >		re	Connector No F18	e	Connector Color WHITE		10 11 12 13 14	2 9 5			రి 📗	٦ ۵	re	I
Connec	明.S.H.S.	Terminal No.	- &	12	Connec	Connec	Connec	原 H.S.	σ	_			Terminal No.	20	21	J
		Ф				DON T				<u>ə</u>		ĺ	j)			K L
E2 WIRE TO WIRE WHITE	7 8	Signal Name	1			IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODILL E ENGINE BOOM)	三 三 三 三 三 三 三 三 三 三 三 三 三 三 三 三 三 三 三	40 39 44 43 89 89 89 89 89 89 89 89 89 89 89 89 89]	Signal Name	CAN-L	CAN-H				M
Connector No. E2 Connector Name WIRE T Connector Color WHITE	1 2 4 7 5 6 7 7	8>	>		Connector No F17	Эц	Connector Color WHITE	46 45 44 43		al No. Color of Wire	۵	_ B				MW
Connec	H.S.	Terminal No.	- Σ		Connec	Connec	Connec	原 说 S.H		Terminal No.	39	40		ABNIAC	0979GB	0

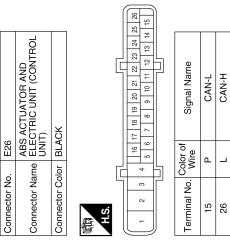
Revision: November 2009 MWI-65 2010 Maxima



Connector Name BRAKE FLUID LEVEL	>		Signal Nam	I	I
le BRA	r GRA	(- 2)	Color of Wire	۸	B/Y
Connector Nam	Connector Color GRAY	ब्रिज H.S.	Terminal No.	-	2
Ü					







ABNIA1674GB

r No. E35 r Name PARKING BRAKE SWITCH r Color BLACK 1	Connector No. E208 Connector Name WASHER LEVEL SWITCH Connector Color WHITE H.S. Terminal No. Wire Signal Name 2 B	A B C
Connector No. Connector Color H.S. Terminal No. Will	Connector Name Connector Color H.S. Terminal No. Co	E
		F
Signal Name	WIRE Signal Name	G
		Н
No. Color of Wire No. Color of	Connector No. E20 Connector Name WIF Connector Color WH R.S. H.S. 8 R	I
Terminal No. 4G 8G 8G 11G 15G 24G 25G 31G 32G 51G 52G 52G 52G 52G 52G 52G 52G 52G 52G 52	Connector Na Connector Co Connector Co H.S.	J
		K
E30 WHRE TO WIRE Strain	E201 POWER DISTRIBUTION MODULE ENGINE ROOM) WHITE In the control of the control	L
E30 WHIE TO WIRE		M
		MWI
Connector No. Connector Col	Connector No. Connector Col A.S. Terminal No. 99 100	0
	ABNIA0422GB	Р

Revision: November 2009 MWI-67 2010 Maxima

	Connector No.	Ξ	
	Connector Name WIRE TO WIRE	me WIR	E TO WIRE
	Connector Color WHITE	lor WHI	TE
		6 5	4
	H.S.	16 15 14 1	12 11 10
al Name	Terminal No. Wire	Color of Wire	Signal Name
1	ļ.	Γ	1
	8	Ь	1
	12	BR	ĺ

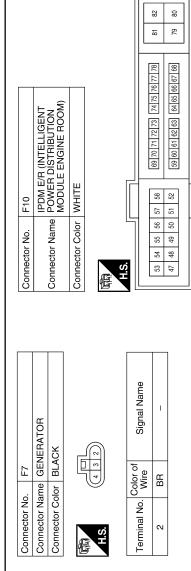
9	VERATOR			Signal Name	1	
L	ne GEI	or I		Solor of Wire	В	
Connector No. E230	Connector Name GENERATOR	Connector Color	崎 H.S.	Terminal No. Wire	5	
	ENT SENSOR	¥	<u> </u>	Signal Name	-	
EZI	ne AMBI	or BLAC	2	Color of Wire	SB	
Connector No. EZ11	Connector Name AMBIENT SENSOR	Connector Color BLACK	原 H.S.	Terminal No. Color of Wire	-	

BR/W

N

E211

Connector No.



ABNIA1675GB

OIL PRESSURE SW

Signal Name

Color of Wire ГG

Terminal No. 75

	Α
BEZ JOINT CONNECTOR-B01 BLACK State Signal Name	В
Sign.	С
	D
Connector No. Connector Name Connector Color Terminal No. A	Е
	F
Connector No. F41	G
OIL PRESSU GRAY GRAY Or of I're Sig	Н
No. Name OIL F41 Name OIL No. Color of Wire SB SB SB SB SB SB SB S	I
Connector No. Connector Name Connector Name Connector Name Connector Name 10.2	J
	K
F15 TCM (TRANSMISSION CONTROL E) TCM (TRANSMISSION CONTROL E) TCM (TRANSMISSION TCM (TRANSMISSION TCM (TRANSMISSION TCM (TRANSMISSION TCM (TCM (TRANSMISSION TCM (TCM (TCM (TCM (TCM (TCM (TCM (TCM	L
F15	M
Connector No. F15 Connector Name TCM (TRANSMISSION COnnector Color BLACK Terminal No. Wire Signal Name 31 P CAN-L 32 L Signal Name 31 P CAN-L 32 L CAN-L 32 L CAN-L 34 L Si R Si	MWI
Connector No. Connector Name Connector No. Connector No. Connector No. Connector No. Connector No. Afr. Afr	0
ABNIA0424GB	Р

	E TO WIRE	1		2 3	Signal Name	ı	1
. B10	me WIR	lor WHI		8 10 10	Color of Wire	_	۵
Connector No. B10	Connector Name WIRE TO WIRE	Connector Color WHITE		配 H.S.	Terminal No. Wire	9	16
				1			1
	Connector Name AIR BAG DIAGNOSIS	ISOR UNIT	TOW	29 30 34 38 9 10	Signal Name	LH BUCKLE SW INPUT	
68 	ne AIR	SEN	or YEL	33 41	Color of Wire	GR	
Connector No. B9	Connector Nar		Connector Color YELLOW	图 H.S.	Terminal No. Wire	14	
	ЖН						
B8	FRONT DOOR SWITCI	WHITE			of Signal Name	I	_
No.	Name FF	Color			No. Wire	SB	

						_
E TO WIRE	TE	8 3 2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Signal Name	I	I	
ne WIF	or WH	- 4	Color of Wire	>	>	٥
Connector Nar	Connector Col	H.S.	Terminal No.	2	9	c
	Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE Connector Color WHITE	Connector Name WIRE TO WIRE Connector Color WHITE			

8	Connector Name REAR DOOR SWITCH LH	НТЕ	⊘ -∞	Signal Name	ı	
. B18	me RE	lor		Color o Wire	BR	
Connector No.	Connector Na	Connector Color WHITE	H.S.	Terminal No. Wire	2	
			1			
	RE TO WIRE	<u> </u>	7 6 5 4	Signal Name	1	ı
B12	me WIF	or WH	<u>ω</u> ω	Color of Wire	GR	B/W
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S.	Terminal No. Wire	-	8

ABNIA0425GB

< ECU DIAGNOSIS >

Connector No. B104	SOR UNIT Connector Name WIRE TO WIRE	Connector Color WHITE		H.S. (8 9 10 11 12 13 14 15 16		Color of Signal Name	Wire	GND 15 GR -	IGNAL 16 B -
B42	Connector Name FUEL LEVEL SENSOR UNIT	AND FUEL PUMP	GRAY	3 4 5			/ire Signai Name	V FUEL GND	B FUEL SIGNAL
Connector No. B42	Connector Name		Connector Color GRAY	H.S.		CO	l erminal No. Wire	2	2
56	Connector Name JOINT CONNECTOR-B04	WHITE		210	Ö	Signal Name	1	1	1
r No. B26	Name JO	Connector Color WH		4 3	Color of	Wire Wire	GR	GR	GR
Connector No.	necto	necto		H.S.		minai	-	2	ო

Connector No. B108	B108	Connector No. B113	Vo. B11	13	Conne	Connector No.	B116	
Connector Nan	onnector Name FRONT DOOR SWITCH RH	Connector	Vame AIR	Connector Name AIR BAG DIAGNOSIS	Conne	ctor Name	Connector Name REAR DOOR SWITCH RH	
Connector Color WHITE	or WHITE		SEI	NSOR UNIT	Conne	Connector Color WHITE	WHITE	
		Connector Color YELLOW	Solor YEI	LLOW				7
Œ					Œ.			
स्त्रम	> -	6	٦		WHA!		> -	
Ġ.	2	ST.	32 28	1 1	S.H.N.		2	
	8		80	7 36 35 40			3	
Terminal No. Wire	Solor of Signal Name Wire	Terminal No. Wire	Color of Wire	Signal Name	Termir	Terminal No. Wire	or of Signal Name	
2	GR	25	_	RH BUCKLE SW INPUT	N N		- B	

<u>o</u>	lame	Solor			Sel	<u> </u>
Connector No.	Connector Name	Connector Color		H.S.	Terminal No. Wi	2
	Connector Name AIR BAG DIAGNOSIS	SOR UNIT	LOW	27 25 31 7 36 35 40	Signal Name	RH BUCKI F SW INPUT
B113	ne AIR	SEN	or YELI	8 32 28	Solor of Wire	_
Connector No. B113	Connector Nan		Connector Color YELLOW	H.S.	Terminal No. Wire	25
B108	Connector Name FRONT DOOR SWITCH RH	WHITE		\(\sigma_1 \) \(of Signal Name	
	lame F	Solor V			Color Wire	5
Connector No.	nector N	Connector Color WHITE		H.S.	Terminal No. Color of Wire	,

Α

В

 D

Е

F

G

Н

Κ

M

MWI

ABNIA0426GB

Ρ

Connector No.). B202	12
Connector Name		SEAT BELT BUCKLE SWITCH LH
Connector Color	olor WHITE	ITE
H.S.		
Terminal No.	Color of Wire	Signal Name
-	٦	ı
2	В	1

m	တတ	>		olor o Wire		ے ا
	ıme	olor		Color o Wire		•
Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	-	c
		7				

1	WIRE TO WIRE	ITE	8 3	Signal Name	ı	1
. B201		lor WH	4 5 6	Color of Wire	٦	В
Connector No.	Connector Name	Connector Color WHITE	崎 H.S.	Terminal No.	-	8

Connector No.). B148	81
Connector Name	ame WIF	WIRE TO WIRE
Connector Color	olor WHITE	ITE
H.S.	8 8	2 2 5 4 4
Terminal No.	Color of Wire	Signal Name
-	_	ı
8	В	1

Т2	WIRE TO WIRE	WHITE	7 6 5 4
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	斯 H.S.

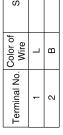
RE TO WIRE	ПЕ	2 2 1 4 4 4	Signal Name	-	-	
ne WIF	or WH	8 3 4	Color of Wire	W	٨	(
Connector Name WIRE TO WIRE	Connector Color WHITE	H.S.	Terminal No.	5	9	

B308	WIRE TO WIRE	WHITE	2 9 2 8 3
or No.	or Name	or Color	

RE TO WIRE	<u>ш</u>	6 7 8	l leuniS	60	1	1
me WIF	M NOI	1 2 4	Color of	Wire	L	α
Connector Name WIRE TO WIRE	Connector Color	语 H.S.	Terminal No		1	α

Connector No.). B302	20
Connector Name		SEAT BELT BUCKLE SWITCH RH
Connector Color	olor WHITE	ITE
原 H.S.	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	
Terminal No.	Color of Wire	Signal Name
-	٦	SIGNAL
c	۵	CINO





ABNIA0427GB

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

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

Signal Name	-	1	_	I	
Color of Wire	В	Μ	В	^	
Terminal No. Wire	1	2	8	4	

M

K

Α

В

 D

Е

F

Н

MWI

0

ABNIA0428GB

Fail Safe

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

COMBINATION METER

< ECU DIAGNOSIS >

	Function	Specifications		
Speedometer				
Tachometer		Zero indication.		
Fuel gauge		Zero indication.		
Engine coolant temperature g	gauge			
Illumination control	Meter illumination	Change to nighttime mode when communication is lost.		
Sogmont LCD	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	-		
Warning lamp/indicator lamp	High beam indicator	Lamp turns off when communication is lost.		
	Turn signal indicator lamp			
	CRUISE indicator lamp			
	Intelligent Key system warning lamp			
	Driver and passenger seat belt 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-III 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.	<u>MWI-35</u>
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.)

< ECU DIAGNOSIS >

BCM (BODY CONTROL MODULE)

Α Reference Value INFOID:0000000005511910

В

 D

Е

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
ED WIDED III	Other than front wiper switch HI	OFF
FR WIPER HI	Front wiper switch HI	ON
	Other than front wiper switch LO	OFF
FR WIPER LOW	Front wiper switch LO	ON
ED MACHED OW	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
TUDN CIONAL D	Other than turn signal switch RH	OFF
TURN SIGNAL R	Turn signal switch RH	ON
TUDN CIONAL I	Other than turn signal switch LH	OFF
TURN SIGNAL L	Turn signal switch LH	ON
TAIL LAND OW	Other than lighting switch 1ST and 2ND	OFF
TAIL LAMP SW	Lighting switch 1ST or 2ND	ON
	Other than lighting switch HI	OFF
HI BEAM SW	Lighting switch HI	ON
	Other than lighting switch 2ND	OFF
HEAD LAMP SW 1	Lighting switch 2ND	ON
LIEAD LAMB OW	Other than lighting switch 2ND	OFF
HEAD LAMP SW 2	Lighting switch 2ND	ON
DA COINIO CIA/	Other than lighting switch PASS	OFF
PASSING SW	Lighting switch PASS	ON
ALITO LIGHT OW	Other than lighting switch AUTO	OFF
AUTO LIGHT SW	Lighting switch AUTO	ON
ED EOO OW	Front fog lamp switch OFF	OFF
FR FOG SW	Front fog lamp switch ON	ON
DOOD OW DD	Driver door closed	OFF
DOOR SW-DR	Driver door opened	ON
DOOD 014/ 4.0	Passenger door closed	OFF
DOOR SW-AS	Passenger door opened	ON
	Rear door RH closed	OFF
DOOR SW-RR	Rear door RH opened	ON
DOOD CM DI	Rear door LH closed	OFF
DOOR SW-RL	Rear door LH opened	ON
ODL 1 001/ 01/	Other than power door lock switch LOCK	OFF
CDL LOCK SW	Power door lock switch LOCK	ON

Monitor Item	Condition	Value/Status
CDL LINII OCK SW	Other than power door lock switch UNLOCK	OFF
CDL UNLOCK SW	Power door lock switch UNLOCK	ON
KEN ON TROM	Other than driver door key cylinder LOCK position	OFF
KEY CYL LK-SW	Driver door key cylinder LOCK position	ON
KEN ONLUM OM	Other than driver door key cylinder UNLOCK position	OFF
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	ON
HAZADD CW	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
TR CANCEL SW	Trunk lid opener cancel switch OFF	OFF
TR CANCEL SW	Trunk lid opener cancel switch ON	ON
TR/BD OPEN SW	Trunk lid opener switch OFF	OFF
TR/BD OPEN SW	While the trunk lid opener switch is turned ON	ON
TRNK/HAT MNTR	Trunk lid closed	OFF
IKINIVEALIVINTK	Trunk lid opened	ON
RKE-LOCK	When LOCK button of Intelligent Key is not pressed	OFF
RRE-LOCK	When LOCK button of Intelligent Key is pressed	ON
DKE TIMI OCK	When UNLOCK button of Intelligent Key is not pressed	OFF
RKE-UNLOCK	When UNLOCK button of Intelligent Key is pressed	ON
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is not pressed	OFF
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is pressed	ON
DICE DANIC	When PANIC button of Intelligent Key is not pressed	OFF
RKE-PANIC	When PANIC button of Intelligent Key is pressed	ON
RKE-P/W OPEN	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
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF
RRE-IVIODE CHG	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON
OPTICAL SENSOR	When outside of the vehicle is bright	Close to 5 V
OF FIGURE GENEGOT	When outside of the vehicle is dark	Close to 0 V
REQ SW-DR	When front door request switch is not pressed (driver side)	OFF
ILLQ OW-DIX	When front door request switch is pressed (driver side)	ON
REQ SW-AS	When front door request switch is not pressed (passenger side)	OFF
NEQ OVI-AO	When front door request switch is pressed (passenger side)	ON
REQ SW-RL	When rear door request switch is not pressed (driver side)	OFF
NEQ OVI-NE	When rear door request switch is pressed (driver side)	ON
REQ SW-RR	When rear door request switch is not pressed (passenger side)	OFF
ILLQ OVI-III	When rear door request switch is pressed (passenger side)	ON
REQ SW-BD/TR	When trunk request switch is not pressed	OFF
NEW OW-DD/ II	When trunk request switch is pressed	ON
DIICH C/M	When engine switch (push switch) is not pressed	OFF
PUSH SW	When engine switch (push switch) is pressed	ON
ION DLV 2 E/D	Ignition switch OFF or ACC	OFF
IGN RLY 2-F/B	Ignition switch ON	ON

Monitor Item	Condition	Value/Status	Λ
ACC DLV E/D	Ignition switch OFF	OFF	- A
ACC RLY-F/B	Ignition switch ACC or ON	ON	_
BRAKE SW 1	When the brake pedal is not depressed	ON	В
BRAKE SW I	When the brake pedal is depressed	OFF	_
DETE (CANIOL CVA)	When selector lever is in P position	OFF	_
DETE/CANCL SW	When selector lever is in any position other than P	ON	С
	When selector lever is in any position other than P or N	OFF	_
SFT PN/N SW	When selector lever is in P or N position	ON	D
2" 1 2 2 1 4*	Electronic steering column lock LOCK status	OFF	
S/L-LOCK [*]	Electronic steering column lock UNLOCK status	ON	_
	Electronic steering column lock UNLOCK status	OFF	Е
S/L-UNLOCK [*]	Electronic steering column lock LOCK status	ON	_
*	Ignition switch OFF or ACC	OFF	_
S/L RELAY-F/B*	Ignition switch ON	ON	- F
INILK OFN DD	Driver door UNLOCK status	OFF	_
JNLK SEN-DR	Driver door LOCK status	ON	G
	When engine switch (push switch) is not pressed	OFF	_
PUSH SW-IPDM	When engine switch (push switch) is pressed	ON	-
ON DIX4 5/D	Ignition switch OFF or ACC	OFF	- H
GN RLY1 F/B	Ignition switch ON	ON	_
	When selector lever is in P position	OFF	-
DETE SW -IPDM	When selector lever is in any position other than P	ON	_
NET DAL IDDA	When selector lever is in any position other than P or N	OFF	_
SFT PN -IPDM	When selector lever is in P or N position	ON	J
OFT D MET	When selector lever is in any position other than P	OFF	_
SFT P-MET	When selector lever is in P position	ON	K
>== N N ===	When selector lever is in any position other than N	OFF	
SFT N-MET	When selector lever is in N position	ON	_
	Engine stopped	STOP	L
	While the engine stalls	STALL	_
ENGINE STATE	At engine cranking	CRANK	M
	Engine running	RUN	IVI
*	Electronic steering column lock LOCK status	OFF	
S/L LOCK-IPDM*	Electronic steering column lock UNLOCK status	ON	MW
*	Electronic steering column lock UNLOCK status	OFF	
S/L UNLK-IPDM [*]	Electronic steering column lock LOCK status	ON	_
*	Ignition switch OFF or ACC	OFF	- 0
S/L RELAY-REQ*	Ignition switch ON	ON	_
/EH SPEED 1	While driving	Equivalent to speedometer reading	P
/EH 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	=

Monitor Item	Condition	Value/Status
	Passenger door LOCK status	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door UNLOCK status	UNLK
ID OK ELAO	Ignition switch ACC or ON	RESET
ID OK FLAG	Ignition switch OFF	SET
DOME THE STOR	When the engine start is prohibited	RESET
PRMT ENG STRT	When the engine start is permitted	SET
KEY OW CLOT	When Intelligent Key is not inserted into key slot	OFF
KEY SW -SLOT	When Intelligent Key is inserted into key slot	ON
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
CONFERMINALL	The key ID that the key slot receives does not accord with any key ID registered to BCM.	YET
CONFRM ID ALL	The key ID that the key slot receives accords with any key ID registered to BCM.	DONE
CONFIDMIDA	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	YET
CONFIRM ID4	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	DONE
CONFIDM ID2	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
CONFIRM ID2	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
CONFIRM ID1	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	YET
CONFIRMIDI	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
17 4	The ID of fourth key is registered to BCM	DONE
TP 3	The ID of third key is not registered to BCM	YET
IF 3	The ID of third key is registered to BCM	DONE
TP 2	The ID of second key is not registered to BCM	YET
IF Z	The ID of second key is registered to BCM	DONE
TP 1	The ID of first key is not registered to BCM	YET
IPI	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
ID DECOT EL 4	When ID of front LH tire transmitter is registered	DONE
ID REGST FL1	When ID of front LH tire transmitter is not registered	YET

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
ID DECOT ED4	When ID of front RH tire transmitter is registered	DONE
ID REGST FR1	When ID of front RH tire transmitter is not registered	YET
ID DECCT DD4	When ID of rear RH tire transmitter is registered	DONE
ID REGST RR1	When ID of rear RH tire transmitter is not registered	YET
ID REGST RL1	When ID of rear LH tire transmitter is registered	DONE
	When ID of rear LH tire transmitter is not registered	YET
WARNING LAMP	Tire pressure indicator OFF	OFF
	Tire pressure indicator ON	ON
BUZZER	Tire pressure warning alarm is not sounding	OFF
	Tire pressure warning alarm is sounding	ON

^{*:} With electronic steering column lock

F

Α

В

 D

Е

G

Н

J

<

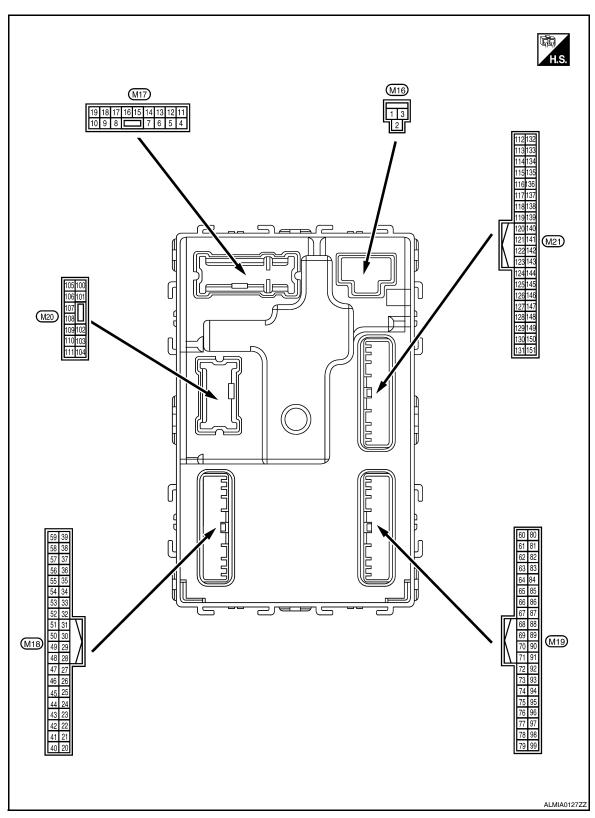
M

MWI

0

Р

Terminal Layout



Physical Values

< ECU DIAGNOSIS >

	inal No.	Description				Value
(Wire	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OFI	=	Battery voltage
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON		Battery voltage
4	Cround	Interior room lamp	Output	After passing the ir er operation time	nterior room lamp battery sav-	0V
(P/W)	Ground	power supply	Output	Any other time after lamp battery saver	er passing the interior room operation time	Battery voltage
5	Cround	Front door RH UN-	Output	Front door RH	UNLOCK (actuator is activated)	Battery voltage
(G)	Ground	LOCK	Output	FIORE GOOF KH	Other than UNLOCK (actuator is not activated)	0V
7	Ground	Cton lama	0	Cton lower	ON	0V
(R/W)	Gloulia	Step lamp	Output	Step lamp	OFF	Battery voltage
8	Cround	All doors LOCK	Output	All doors	LOCK (actuator is activated)	Battery voltage
(V)	Ground	All doors LOCK	Output	t All doors	Other than LOCK (actuator is not activated)	0V
9	Cravind	Front door LH UN-	Outout	Front door III	UNLOCK (actuator is activated)	Battery voltage
(L)	Ground	LOCK	Output	Front door LH	Other than UNLOCK (actuator is not activated)	0V
10	Ground	Rear door RH and rear door LH UN-	Output	Rear door RH	UNLOCK (actuator is activated)	Battery voltage
(G)	Oround	LOCK	Output	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		0V
					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 JSNIA0010GB
15 (Y/L)	Ground	ACC indicator lamp	Output	Ignition switch	OFF ACC or ON	Battery voltage 0V

Revision: November 2009 MWI-81 2010 Maxima

0

Р

Α

В

С

 D

Е

F

G

Н

Κ

L

M

Terminal No. (Wire color)		Description				Value
(+)	e color)	Signal name	Input/ Output	Condition		(Approx.)
	.,		•		Turn signal switch OFF	0V
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s
					Turn signal switch OFF	6.5 V
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
19	Ground	Room lamp timer	Output	Interior room	OFF	Battery voltage
(Y)	0.000	control	Оигриг	lamp	ON	0V
21	Ground	Optical sensor signal	Input	Ignition switch When outside of the veh		Close to 5V
(P/B)	Oround	Optical sensor signal	mput	ON	When outside of the vehi- cle is dark	Close to 0V
24 (R/W)	Ground	Stop lamp switch 1	Input		_	Battery voltage
26	Cround	Stan Jama quitab 2	loout	Stop Jamp quitab	OFF (brake pedal is released)	0V
(O/L)	Ground	Stop lamp switch 2	Input	Stop lamp 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
					UNLOCK status	0V
29	Ground	Key slot switch	Input	When Intelligent Key is inserted into key slot		Battery voltage
(Y)	S. Garia	of old omiton	put	When Intelligent K	ey is not inserted into key slot	0V
30 (V/Y)	Ground	ACC feedback signal	Input	Ignition switch	OFF ACC or ON	0 Pottony voltage
		Poor window dofor		Door window do	OFF	Battery voltage 0V
31 (G)	Ground	Rear window defog- ger feedback signal	Input	Rear window de- fogger switch	ON	Battery voltage

< ECU DIAGNOSIS >

	inal No. e color)	Description				Value
(+)	(-)	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 JPMIA0011GB
					ON (when front door RH opens)	OV
37 (O)	Ground	Trunk lid opener can- cel 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 OFI	F or ACC	0V
41		Engine switch (push	0	Engine switch	ON	5.5V
(W)	Ground	switch) illumination	Output	(push switch) illu- mination	OFF	0V
42	Ground	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) Ground		power supply output	Carput	.g.m.o.r. ownton	ACC or ON	5.0V

Р

0

Α

В

С

 D

Е

F

G

Н

Κ

M

MWI

Term	inal No.	Description				.,,
	e color)	Signal name	Input/		Condition	Value (Approx.)
(+)	(-)		Output			
47 ¹	Ground	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 • • 0.2s
(G/O)	Glound	er signal	Output	ON	When receiving the signal from the transmitter	(V) 6 4 2 0 • 0.2s OCC3880D
48	0	Selector lever trans-	la a t	Calastanlavan	P or N position	12.0V
(R/G)	Ground	mission range switch signal	Input	Selector lever	Except P and N positions	0V
					ON	0V
49 (L/O)	Ground	Security indicator signal	Output	Security indicator	Blinking	(V) 15 10 5 0 1 s JPMIA0014GB
					OFF	11.3V Battery voltage
					All switch OFF	0V
					Lighting switch 1ST	
				O a sala i a a fi a a	Lighting switch high-beam	(V) 15
50 (LG/	Ground	Combination switch	Output	Combination switch	Lighting switch 2ND	10
B)	Ground	OUTPUT 5	Output	(Wiper intermit- tent dial 4)	Turn signal switch RH	0
					All switch OFF	0V
51 (L/W)					(Wiper intermittent dial 4) Front wiper switch HI	
	Ground	Combination switch OUTPUT 1	Output	Combination switch	(Wiper intermittent dial 4) 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	(V) 15 10 5 0 2 ms JPMIA0032GB

< ECU DIAGNOSIS >

	inal No.	Description			·	Value	^
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switch OFF (Wiper intermittent dial 4)	0V	В
50		Occabination of the		O allingting	Front washer switch ON (Wiper intermittent dial 4)	(V) 15	С
52 (G/B)	Ground	Combination switch OUTPUT 2	Output	Combination switch	Any of the conditions below with all switch OFF	10 5 0	
					 Wiper intermittent dial 1 Wiper intermittent dial 5 Wiper intermittent dial 6	2 ms JPMIA0033GB	D
					All switch OFF	0V	Е
					Front wiper switch INT		
				Combination	Front wiper switch LO	(V)	F
53 (LG/ R)	Ground	Combination switch OUTPUT 3	Output	ewitch	Lighting switch AUTO	10 5 0 2 ms JPMIA0034GB	G
						10.7V	Н
					All switch OFF	0V	
		Combination switch OUTPUT 4	Output	Combination switch (Wiper intermit-	Front fog lamp switch ON	(V)	
54 (G/Y)	Ground				Lighting switch 2ND Lighting switch flash-to-pass	15 10 5 0	l
				tent dial 4)	Turn signal switch LH	2 ms	J
						10.7V	K
57 ¹ (W)	Ground	Tire pressure warn- ing check switch	Input		_	5V	
						(V)	L
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE)	10 5 0 10 ms	M
						JPMIA0011GB 11.8V	MV
					ON (front door LH OPEN)	0V	
59 (G/R)	Ground	Rear window defog-	Output	Rear window de-	Active	Battery voltage	0
(G/K)		ger relay		fogger	Not activated	0V	i

Revision: November 2009 MWI-85 2010 Maxima

	inal No. e color)	Description	lpn:±/		Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
60		Front console anten-		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(B/R)	Ground	na 2 (-)	Output	ŎFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB
61	Ground	Center console an-	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(W/R)	Giodina	tenna 2 (+)		OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
62	Ground	Front outside handle	Output	When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0062GB
(V)	Siguria	RH antenna (-)	- 4	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.	Description				Value	
(Wire (+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	Δ
63		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	C
(P) Ground	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 JMKIA0063GB	F
64		Front outside handle		When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	F
(V)	Ground	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	K
65	Ground	Front outside handle	Outsut	When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	M
(P) Glouid	LH antenna (+)	Output	switch is operat- ed with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	F	

	inal No. e color)	Description	Innut/		Condition	Value
(+)	(-)	Signal name	Input/ Output			(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 ON	0V Battery voltage
71		Remote keyless entry	Input/	During waiting		(V) 15 10 5 0 1 ms
(L/O)	Ground	receiver signal	Output	When operating e	ither button on Intelligent Key	(V) 15 10 5 1 ms JMKIA0065GB
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
75 (R/Y)	Ground	Combination switch INPUT 5	Input	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

Combination		nal No.	Description			- ""	Value	А
All switch OFF (Wiper intermittent dial 4) Lighting switch high-beam (Wiper intermittent dial 4) Lighting switch high-beam (Wiper intermittent dial 4) Lighting switch high-beam (Wiper intermittent dial 4) Lighting switch 2ND (Wiper intermittent dial 4) Arry of the conditions below with all switch OFF Wiper intermittent dial 2 Wiper intermittent dial 2 Wiper intermittent dial 2 Wiper intermittent dial 2 Wiper intermittent dial 3 Javancescale 1.3V Arry of the conditions below with all switch OFF Wiper intermittent dial 2 Wiper intermittent dial 3 Javancescale 1.3V OFF OFF OV Wiper intermittent dial 4 Output OFF OV OFF OV Wiper intermittent dial 4 Output OFF OV OFF OFF OV OFF		-	Signal name			Condition		
Ground Combination switch Input In							15 10 5 0 2 ms JPMIA0041GB	B
RYG Ground INPUT 3 Input Switch	76		Combination		15 10 5 0 2 ms JPMIA0036GB	E		
Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 2 • Wiper intermittent dial 3 772 (BR) Ground Engine switch (push switch) Fressed OV Not pressed Battery voltage 78 (P) Ground CAN-L Input/ Output Ground CAN-H Input/ Output OFF OFF OV Rey slot illumination Output Key slot illumination Output Blinking Figure switch (push switch) Fressed OV Not pressed Battery voltage OFF OFF OV Input/ OFF OFF OFF OV Input/ OFF OFF OFF OV Input/ OFF OFF OFF OFF OFF OFF OFF OF	76 (R/G) Ground		Input	switch		(V) 15 10 5 0 2 ms JPMIA0037GB	G H	
Ground Engine switch (push switch) Input Engine switch (push switch) Pressed OV						with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2	(V) 15 10 5 0 2 ms JPMIA0040GB	J
(BR) Ground Switch) Switch) Not pressed Battery voltage 78 (P) Ground CAN-L Input/ Output — — — — — — — M 79 (L) Ground CAN-H Input/ Output — — — — — M 80 (R/L) Ground Key slot illumination Output Key slot illumination 80 (R/L) Ground Key slot illumination Output Key slot illumination 80 (R/L) Ground Key slot illumination Output Key slot illumination 80 (R/L) Ground Key slot illumination Output Key slot illumination 80 (R/L) Ground Key slot illumination Output Key slot illumination 80 (R/L) Ground Key slot	77 ²		Engine switch (push		Engine switch	Pressed		L
Temporary Figure		Ground				Not pressed	Battery voltage	IV
(C) Ground CAN-H Output OFF OFF OFF OV Rey slot illumination Output Key slot illumination Output IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		Ground	CAN-L			_	_	
80 (R/L) Ground Key slot illumination Output Key slot illumination OFF OV Blinking OFF OV 15 10 5 0 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 15 15 15 15 15 15 15 15 15 15 15		Ground	CAN-H			_	_	M۱
80 (R/L) Ground Key slot illumination Output Key slot illumination Blinking Something Company Compa						OFF	0V	
	80 (R/L) Gro	Ground	Key slot illumination	Output		Blinking	15 10 5 0 1 s	P
L IIVI RAITOLV VIOITAND						ON	Battery voltage	

	inal No.	Description				W-L
(Wire (+)	e color) (-)	Signal name	Input/ Output		Condition	Value (Approx.)
81	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC	0V
(LG)	Giodila	ON Indicator famp	Output	igilition switch	ON	Battery voltage
83	Ground	ACC relay control	Output	Ignition switch	OFF	0V
(L)		•	•		ACC or ON	Battery voltage
84 (Y/R)	Ground	CVT shift selector	Output		_	Battery voltage
85 ³	Ground	Electronic steering column lock condition	Input	Electronic steer-	Lock status	0V
(L/O)	Oround	No. 1	IIIput	ing column lock	Unlock status	Battery voltage
86 ³	Ground	Electronic steering column lock condition	Input	Electronic steer-	Lock status	Battery voltage
(G/R)	Oround	No. 2	input	ing column lock	Unlock status	0V
87	Ground	Selector lever P posi-	Input	Selector lever	P position	OV
(G/B)	Ground	tion switch	mpat	Ocicotor level	Any position other than P	Battery voltage
	(-iround Input				ON (pressed)	0V
		Front door RH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB		
					ON (pressed)	0V
89 (R)	Ground	Front door LH request switch	Input	Front door LH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
90	Ground	Blower fan motor re-	Output	Ignition switch	OFF or ACC	0V
(Y)	2.34.14	lay control	Carpat		ON	Battery voltage
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		Battery voltage
94 ³	Ground	Steering wheel lock			OFF or ACC	Battery voltage
(G/Y)	Cround	unit power supply	Output	Ignition switch	ON	0V

< ECU DIAGNOSIS >

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

0

	inal No.	Description				Value
(Wir	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V
96	Ground	Combination switch	Input	Combination	Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V
(P/B)		INPUT 4		switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3V

	inal No.	Description				Value	Λ
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switch OFF	(V) 15 10 2 ms JPMIA0041GB 1.4V	B C D
					Lighting switch flash-to- pass	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V	E F
97 (R/B)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V	G H
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB	J K L
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB	MW
					Pressed	0 V	0
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1V	Р

	inal No. e color)	Description				Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
					LOCK status	Battery voltage
99 ³ (L/Y)	Ground	Electronic steering column lock unit communication	Input/ Output	Electronic steer-ing column lock	LOCK or UNLOCK	(V) 15 10 50 50 ms JMKIA0066GB
					For 15 seconds after UN- LOCK	Battery voltage
					15 seconds or later after UNLOCK	0V
103	Ground	Trunk lid opening.	Output	Trunk lid	Open (trunk lid opener actuator is activated)	Battery voltage
(V)	Giodila	Training.	Output	Trunk iid	Close (trunk lid opener actuator is not activated)	0V
110	Ground	Trunk room lamp	Output	Trunk room lamp	ON	OV
(V/W)	Ground	Trank room lamp	Output		OFF	Battery voltage
114	Ground	d Trunk room antenna 1 (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(B)	Glound				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB

	inal No.	Description				Value	А
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	\vdash
115	Canada	Trunk room antenna	0.4.4	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	B
(W)	Ground	1 (+)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	E
118		Rear bumper anten-		When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	H
(L/O)	Ground	na (-)	Output	is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	J K
119	Constitution	Rear bumper anten-	Out	When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	M
(BR/ W)	Ground	na (+)	Output	is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JJKKIA0063GB	F

	inal No.	Description				Value		
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)		
127		Ignition relay (IPDM			OFF or ACC	Battery voltage		
(BR/ W)	Ground	E/R) control	Output	Ignition switch	ON	0V		
130 (W)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (trunk is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB		
					ON (trunk is open)	0V		
132	Ground	Starter motor relay	Output	Ignition switch	When selector lever is in P or N position and the brake is depressed	Battery voltage		
(R)	Glound	control	Output	ON	When selector lever is in P or N position and the brake is not depressed	0V		
140 ⁴	Ground	Engine switch (push	Input	Engine switch	Pressed	OV		
(L/R)	Ground	switch)	iliput	(push switch)	Not pressed	Battery voltage		
			(1200.2000)		ON (pressed)	0V		
141 (BR)	Ground	Trunk request switch	Input	Trunk request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB		
144		Request switch buzz-		Request switch	Sounding	0V		
(GR)	Ground	er	Output	buzzer	Not sounding	Battery voltage		
147		Trunk lid opener		Trunk lid opener	Pressed	0V		
(L/R)	Ground	switch	Input	switch	Not pressed	Battery voltage		
148 (R/W) G	Ground	Rear door RH switch	Input	Rear door RH switch	OFF (when rear door RH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB		
					ON (when rear door RH opens)	0V		

< ECU DIAGNOSIS >

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
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
					ON (when rear door LH opens)	0V

- 1 : With low tire pressure monitoring system
- 2 : With electronic steering column lock
- 3 : Early production
- 4 : Without electronic steering column lock

G

Α

В

 D

Е

F

Н

1

K

L

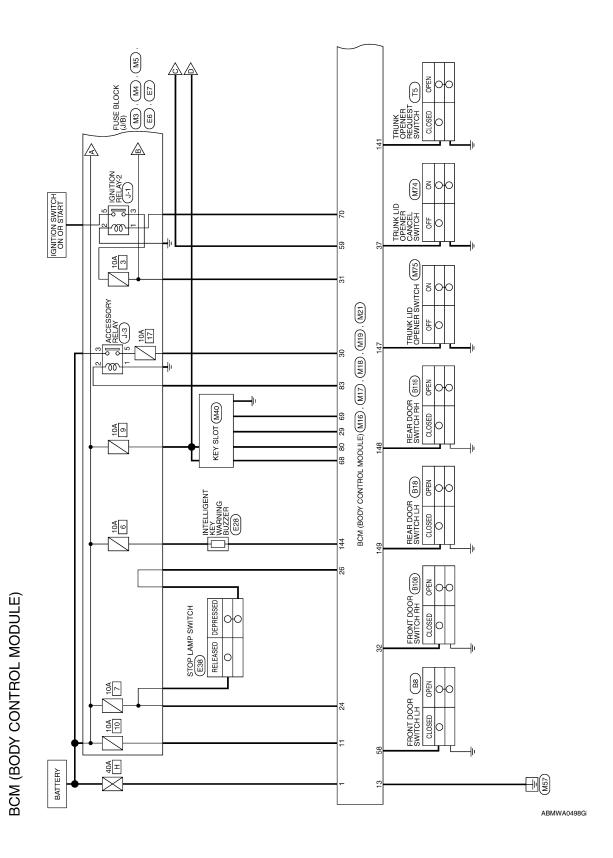
M

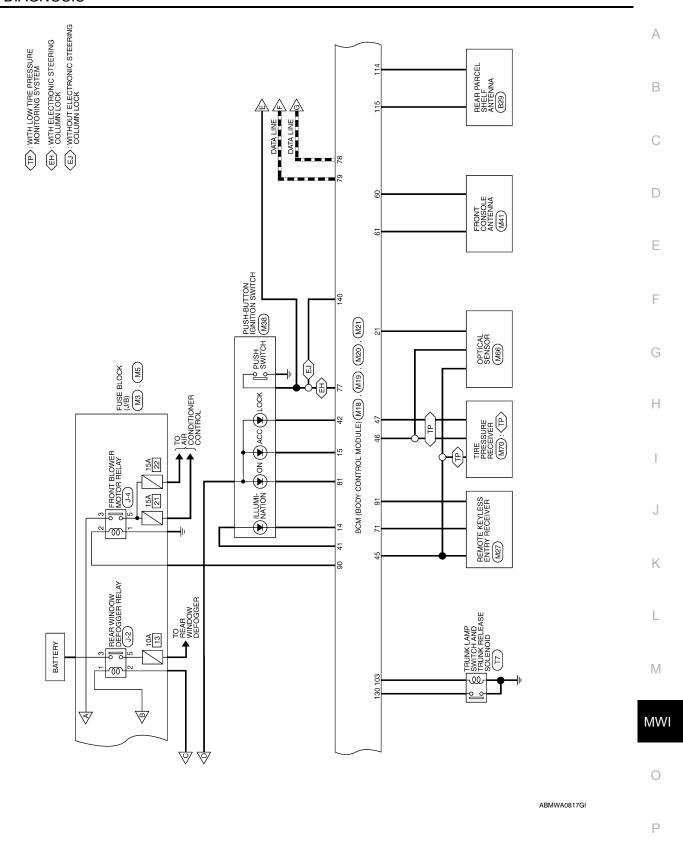
MWI

0

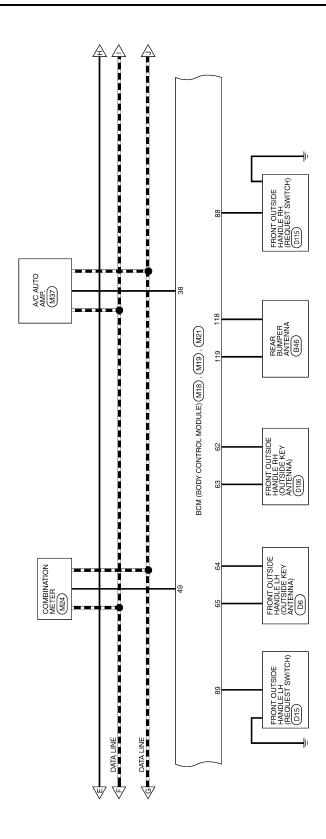
Р

Wiring Diagram

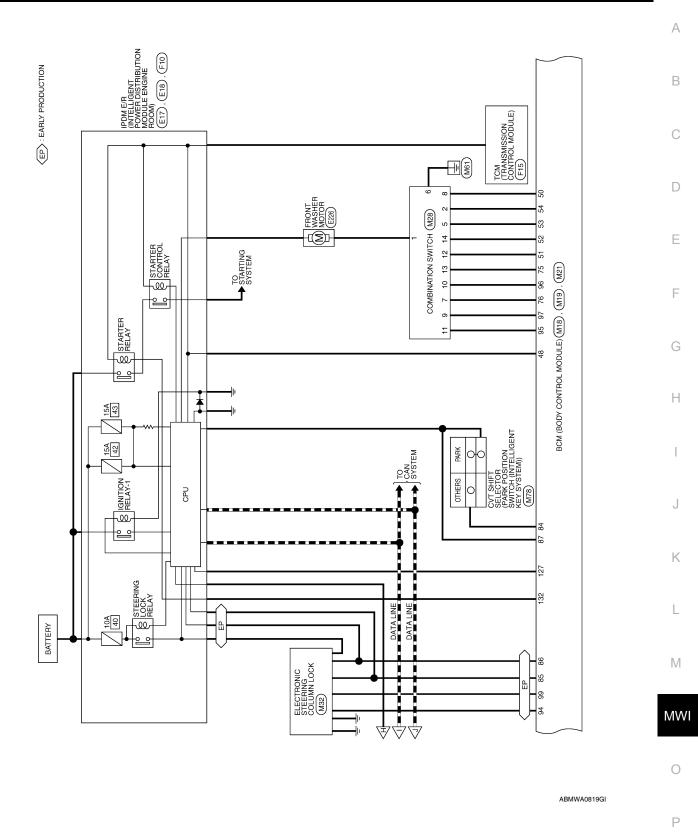




Revision: November 2009 MWI-99 2010 Maxima



ABMWA0818GI



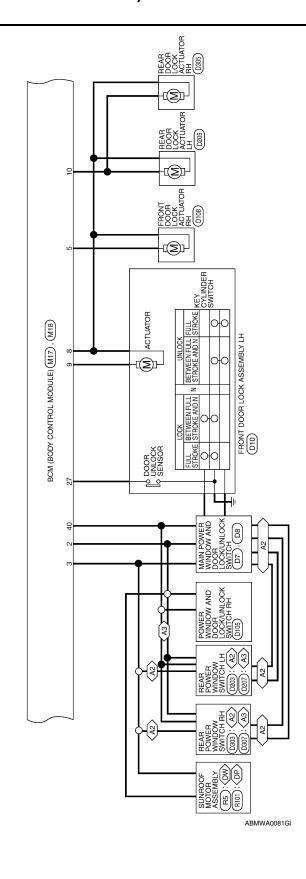
Revision: November 2009 MWI-101 2010 Maxima

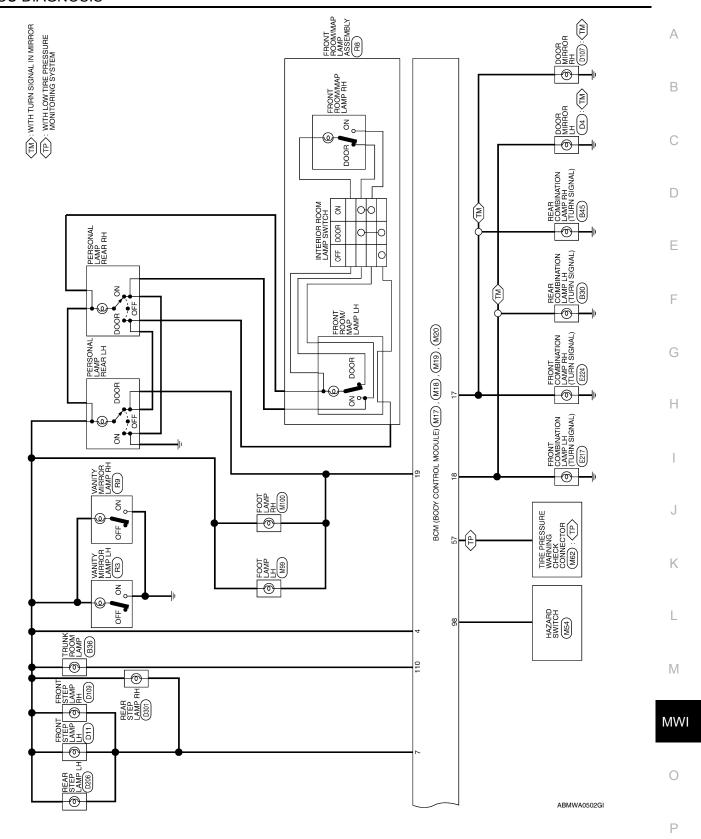
 (A2)
 :WITH LEFT AND RIGHT FRONT POWER WINDOW ANTI-PINCH SYSTEM

 (A3)
 :WITH FRONT AND REAR POWER WINDOW ANTI-PINCH SYSTEM

 (DP)
 :WITH DUAL PANEL SUNROOF

 (DW)
 :WITHOUT DUAL PANEL SUNROOF





DOOR UNLOCK OUTPUT (RR/RL BAT BCM FUSE

Signal Name

erminal No. 9 Ξ 12 13 14 15 16 17 18 19

LOW SIDE PUSH LED

GR/W

GND1

ш

ACC LED

X

ROOM LAMP CONT

FR FLASHER FL FLASHER

G/B

R/L POWER SUPPLY

Signal Name

Color of Wire M M

Terminal No.

僵

DOOR UNLOCK OUTPUT AS

മ

2 9 STEP LAMP CONT

₩

>

ω 6

DOOR UNLOCK OUTPUT (DR/FL) DOOR LOCK OUTPUT ALL

ĞΥ

BCM (BODY CONTROL MODULE) CONNECTORS

Connector No.	M16
Connector Name	Connector Name BCM (BODY CONTROL
	MODULE)
Connector Color BLACK	BLACK

Connector Name BCM (BODY CONTROL MODULE)

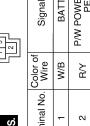
M17

Connector No.

Connector Color WHITE

M16	Connector Name BCM (BODY CONTROL MODULE)	BLACK	
Connector No.	Connector Name	Connector Color BLACK	





7	Signal Name	BATT (F/L)	P/W POWER SUPPLY PERM	P/W POWER SUPPLY IGN
J	Color of Wire	M/B	R/Y	L/W
	Color of Wire	-	2	3

Color of Wire Wire P P P P P P P P P P P P P P P P P P P																
Color of African Street 45 P 46 V/W 47 G/O 48 R/G 50 LG/B 51 L/W 52 G/B 53 LG/R 54 G/Y 55 - 56 - 57 W 58 SB 59 G/R 6/R		GND RF2 A/L	A/L POWER SUPPLY 5V	RF2 TUNER SIGNAL	SHIFT N/P/ NEUTRAL SW	IMMO LED (SECURITY INDICATOR)	OUTPUT 5	OUTPUT 1	OUTPUT 2	OUTPUT 3	OUTPUT4	1	ı	TPMS MODE	DR DOOR SW	REAR DEFOGGER
Terminal No. 45 46 48 48 49 50 51 52 54 55 56 57 56 57 56 57 55 56 56 56 56 56 56 56 56 56 56 56 56	Color of Wire	۵	M/N	0/9	R/G	9	LG/B	Ŋ	G/B	LG/R	G/Y	1	ı	Μ	SB	G/R
	Terminal No.	45	46	47	48	49	20	51	52	53	54	22	56	22	58	59

Signal Name	DOOR LOCK STATUS DR	ı	FOB IN SW 1	ACC F/B	IGN F/B	AS DOOR SW 1	1	ı	_	1	TRUNK CANCEL SW	REAR DEFOGGER SW	I	PW K-LINE	RING LED	S/L LOCK LED	_	-
Color of Wire	0	ı	>	٨/٨	G	B/B	ı	ı	_	1	0	GR/W	1	Y/G	Μ	ш	_	_
Terminal No.	27	28	29	30	31	32	33	34	38	36	37	88	39	40	14	42	43	44

				21 20 41 40								
	BCM (BODY CONTROL MODULE)	GREEN		31 30 29 28 27 26 25 24 23 22 2 51 50 49 48 47 46 45 44 43 42 4	Signal Name	1	A/L SIGNAL TYPE 1	_	I	BRAKE SW1	I	BRAKE SW2
M18		-		34 33 32 3 54 53 52 8	Color of Wire	ı	B/B	ı	ı	B/W	1	O/L
Connector No.	Connector Name	Connector Color	南 H.S.	39 38 37 36 35 3 59 58 57 56 55 5	Terminal No.	20	21	22	23	24	25	26

ABMIA1331GB

Signal Name	AT DEVICE OUT	S/L CONDITION 1	S/L CONDITION 2	SHIFT P/ASCD CANCEL SW	AS REQUEST SW	DR REQUEST SW	BLOWER FAN RELAY	RF POWER SUPPLY 12V	l	ı	S/L POWER SUPPLY 12V	INPUT 1	INPUT 4	INPUT 2	HAZARD SW	S/L K-LINE
Color of Wire	Y/R	9	G/R	G/B	ш	æ	>	Ľ	ı	1	G/₹	B/W	P/B	R/B	G/O	5
Terminal No.	84	85	98	28	88	68	06	91	92	93	94	92	96	26	86	66

Signal Name	ı	FOB READER CLOCK	FOB READER DATA	IGN REL OUTPUT 2	RF1 TUNER SIGNAL	_	_	I	INPUT 5	INPUT 3	ENG START SW	CAN-L	CAN-H	FOB SLOT ILLUMINATION	IGN ON LED	1	ACC CONT
Color of Wire	1	0/9	0	B/B	L/O	_	_	1	R/Y	B/G	BR	Ь	Т	R/L	ГG	_	٦
Terminal No.	29	89	69	70	71	72	73	74	75	9/	77	78	79	80	81	82	83

				90	80
				62 61 60	82 81 80
				62	82
				83	83
	占			65 64 63	84
	lĔ.			65	85
	Connector Name BCM (BODY CONTROL MODULE)			99	86 85 84 83
	8			79 78 77 76 75 74 73 72 71 70 69 68 67 66	87
	ž		17	89	88
				69	89
	BCM (BOE MODULE)	×	I N	20	99 98 97 96 95 94 93 92 91 90 89 88
6	동유	۱¥		11	16
M19	88	ᅵᆔ		72	85
_	(D)	-		73	93
	Ĕ	호		74	64
ž	ž	ပြ		75	96
Ö	ğ	ğ		9/	96
60	60	6	16	11	26
Е	€	Ε.	H.S.	78	86
Connector No.	ပိ	Connector Color BLACK		79	66
		_			

Signal Name	ROOM ANT 2 B	ROOM ANT 2 A	AS DOOR ANT B	AS DOOR ANT A	DR DOOR ANT B	DR DOOR ANT A	ı
Color of Wire	B/R	W/R	^	۵	^	Ь	ı
Terminal No.	09	61	79	63	64	99	99

Signal Name	I	I	ı	I	I	I	TRUNK LAMP CONT	ı
Color of Wire	1	1	1	1	ı	1	W/N	1
Terminal No.	104	105	106	107	108	109	110	111

	BCM (BODY CONTROL MODULE)	壨	107 108 109	Signal Name	_	_	_	CDL BACK TRUNK
. M20		lor WHITE	100 101	Color of Wire	1	1	I	>
Connector No.	Connector Name	Connector Color	原司 H.S.	Terminal No.	100	101	102	103

ABMIA1332GB

Α

В

0

D

Е

F

G

Н

L

M

MWI

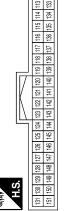
0

Р

	_	_		_	_		_	_	-	_	-	_	_	-	_	_	_	
Signal Name	BACK DOOR ANT A	I	I	ı	I	ı	ı	I	IGN RELAY OUTPUT	ı	-	TRUNK SW	ı	ST RELAY OUTPUT	ı	I	I	
Color of Wire	BR/W	ı	_	ı	1	ı	ı	1	BR/W	ı	-	M	ı	В	-	1	-	
Terminal No.	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	•

Signal Name	INPUT 4	INPUT 1	OUTPUT 1	INPUT 5	OUTPUT 2
Color of Wire	P/B	M/M	Γ/W	R/Y	G/B
Terminal No. Wire	10	11	12	13	14

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



Signal Name	-	ı	TRUNK ANT 1 B	TRUNK ANT 1 A	1	-	BACK DOOR ANT B
Color of Wire	ı	1	В	*	ı	ı	0/1
Terminal No. Wire	112	113	114	115	116	117	118

M28	Connector Name COMBINATION SWITCH	WHITE	
Connector No.	Connector Name	Connector Color WHITE	



ABMIA2102GB

Fail Safe

Display contents of CONSULT	Fail-safe	Cancellation
B2013: ID DISCORD BCM-S/L*	Inhibit engine cranking	Erase DTC
B2014: CHAIN OF S/L-BCM*	Inhibit engine cranking	Erase DTC
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC

< ECU DIAGNOSIS >

Display contents of CONSULT	Fail-safe	Cancellation
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
B2557: VEHICLE SPEED*	Inhibit electronic steering column lock	When normal vehicle speed signals have been received from ABS actuator and electric unit (control unit) for 500 ms
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
B2562: LO VOLTAGE	Inhibit engine cranking Inhibit electronic steering column lock*	100 ms after the power supply voltage increases to more than 8.8 V
B2601: SHIFT POSITION*	Inhibit electronic steering column lock	 500 ms after the following signal reception status becomes consistent Selector lever P position switch signal P range signal (CAN)
B2602: SHIFT POSITION*	Inhibit electronic steering column lock	 5 seconds after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Vehicle speed: 4 km/h or more
B2603: SHIFT POSI STATUS*	Inhibit electronic steering column lock	 500 ms after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Selector lever transmission range switch signal: Except P and N positions (0 V)
B2604: TRANSMISSION RANGE SWITCH [*]	Inhibit electronic steering column lock	 500 ms after any of the following BCM recognition conditions is fulfilled Status 1 Ignition switch is in the ON position Selector lever transmission range switch signal: P and N position (battery voltage) P range signal or N range signal (CAN): ON Status 2 Ignition switch is in the ON position Selector lever transmission range switch signal: Except P and N positions (0 V) P range signal and N range signal (CAN): OFF
B2605: TRANSMISSION RANGE SWITCH [*]	Inhibit electronic steering column lock	 500 ms after any of the following BCM recognition conditions is fulfilled Ignition switch is in the ON position Power position: IGN Selector lever transmission range switch signal: Except P and N positions (0 V) Transmission range switch signal (CAN): OFF Status 2 Ignition switch is in the ON position Selector lever transmission range switch signal: P or N position (battery voltage) Transmission range switch signal (CAN): ON
B2606: S/L RELAY*	Inhibit engine cranking	 500 ms after the following CAN signal communication status has become consistent Electronic steering column lock relay signal (Request signal) Electronic steering column lock relay signal (Condition signal)

MWI-107 Revision: November 2009 2010 Maxima

< ECU DIAGNOSIS >

Display contents of CONSULT	Fail-safe	Cancellation
B2607: S/L RELAY*	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Electronic steering column lock relay signal (Request signal) • Electronic steering column lock relay signal (Condition signal)
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)
B2609: S/L STATUS*	Inhibit engine cranking Inhibit electronic steering column lock	When the following electronic steering column lock conditions agree BCM electronic steering column lock control status Electronic steering column lock condition No. 1 signal status Electronic steering column lock condition No. 2 signal status
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)
B2612: S/L STATUS*	Inhibit engine cranking Inhibit electronic steering column lock	When any of the following conditions is fulfilled Electronic steering column lock unit status signal (CAN) is received normally The BCM electronic steering column lock control status matches the electronic steering column lock status recognized by the electronic steering column lock unit status signal (CAN from IPDM E/R)
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
B2619: BCM*	Inhibit engine cranking	1 second after the electronic steering column lock unit power sup- ply output 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)

^{*:} With electronic steering column lock

DTC Inspection Priority Chart

INFOID:0000000005511915

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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Priority	DTC	
	B2013: ID DISCORD BCM-S/L*	A
	B2014: CHAIN OF S/L-BCM*	
	B2553: IGNITION RELAY	B
	B2555: STOP LAMP B2556: BUSH BTM ICM SW	В
	B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED	
	B2560: STARTER CONT RELAY	
	B2601: SHIFT POSITION	С
	B2602: SHIFT POSITION B2603: SHIFT POSI STATUS	
	B2604: TRANSMISSION RANGE SWITCH	
	B2605: TRANSMISSION RANGE SWITCH	D
	B2606: S/L RELAY*	
	• B2607: S/L RELAY*	Е
	B2608: STARTER RELAY	
4	B2609: S/L STATUS* B2604: JONITION BELAY B3604: JONITION BELAY B3605: JONITION BELAY B3605: JONITION BELAY B3606: JONITION BELA	
	B260A: IGNITION RELAY B260B: STEERING LOCK UNIT*	_
	B260C: STEERING LOCK UNIT*	F
	B260D: STEERING LOCK UNIT*	
	B260F: ENG STATE SIG LOST	
	B2612: S/L STATUS [*]	G
	B2614: ACC RELAY CIRC	
	B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC	H
	B2617: STARTER RELAY CIRC	'
	• B2618: BCM	
	• B2619: BCM*	1
	B261A: PUSH-BTN IGN SW B26E1: ENG STATE NO RECIV	
	C1729: VHCL SPEED SIG ERR	
	U0415: VEHICLE SPEED SIG	J
	C1704: LOW PRESSURE FL	
	C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR	
	C1700. LOW PRESSURE RR C1707: LOW PRESSURE RL	K
	• C1708: [NO DATA] FL	
	• C1709: [NO DATA] FR	
	C1710: [NO DATA] RR C1711: [NO DATA] RL	L
	C1712: [CHECKSUM ERR] FL	
	C1713: [CHECKSUM ERR] FR	
	C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RL	Ν.
5	C1716: [CHECKSOM ERK] KL C1716: [PRESSDATA ERR] FL	
	C1717: [PRESSDATA ERR] FR	
	C1718: [PRESSDATA ERR] RR C4740: [PRESSDATA ERR] RI	M
	C1719: [PRESSDATA ERR] RLC1720: [CODE ERR] FL	
	• C1721: [CODE ERR] FR	
	C1722: [CODE ERR] RR	C
	C1723: [CODE ERR] RL C1724: [BATT VOLT LOW] FL	
	C1724. [BATT VOLT LOW] FL C1725: [BATT VOLT LOW] FR	
	C1726: [BATT VOLT LOW] RR	Р
	C1727: [BATT VOLT LOW] RL	
	- C4724, CONTROL LINIT	
	C1734: CONTROL UNIT B2622: INSIDE ANTENNA	

^{* :} With electronic steering column lock

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

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-36
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-37
U0415: VEHICLE SPEED SIG	_	_		BCS-38
B2013: ID DISCORD BCM-S/L*	×	_	_	SEC-39
B2014: CHAIN OF S/L-BCM*	×	_	_	<u>SEC-40</u>
B2190: NATS ANTENNA AMP	×	_	_	SEC-43
B2191: DIFFERENCE OF KEY	×	_	_	<u>SEC-46</u>
B2192: ID DISCORD BCM-ECM	×	_	_	<u>SEC-47</u>
B2193: CHAIN OF BCM-ECM	×	_	_	SEC-48
B2553: IGNITION RELAY	_	_	_	PCS-55
B2555: STOP LAMP	_	_	_	SEC-49
B2556: PUSH-BTN IGN SW	_	×	_	SEC-52
B2557: VEHICLE SPEED	×	×	_	SEC-54
B2560: STARTER CONT RELAY	×	×	_	<u>SEC-55</u>
B2562: LOW VOLTAGE	_	_	_	BCS-39
B2601: SHIFT POSITION	×	×	_	SEC-56
B2602: SHIFT POSITION	×	×		SEC-59
B2603: SHIFT POSI STATUS	×	×		SEC-62
B2604: TRANSMISSION RANGE SWITCH	×	×	_	<u>SEC-65</u>
B2605: TRANSMISSION RANGE SWITCH	×	×		<u>SEC-67</u>
B2606: S/L RELAY*	×	×	_	SEC-69
B2607: S/L RELAY*	×	×	_	SEC-70
B2608: STARTER RELAY	×	×	_	SEC-72
B2609: S/L STATUS*	×	×	_	<u>SEC-74</u>
B260A: IGNITION RELAY	×	×	_	PCS-57
B260B: STEERING LOCK UNIT*	_	×	_	SEC-78
B260C: STEERING LOCK UNIT*	_	×	_	SEC-79
B260D: STEERING LOCK UNIT*	_	×	_	SEC-80
B260F: ENG STATE SIG LOST	×	×	_	<u>SEC-81</u>
B2612: S/L STATUS [*]	×	×	_	<u>SEC-83</u>
B2614: ACC RELAY CIRC	_	×		PCS-59

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2615: BLOWER RELAY CIRC	_	×	_	PCS-62
B2616: IGN RELAY CIRC	_	×	_	PCS-65
B2617: STARTER RELAY CIRC	×	×	_	PCS-65
B2618: BCM	×	×	_	PCS-68
B2619: BCM*	×	×	_	SEC-89
B261A: PUSH-BTN IGN SW	_	×	_	SEC-90
B2622: INSIDE ANTENNA	_	_	_	DLK-60
B2623: INSIDE ANTENNA	_	_	_	DLK-63
B26E1: ENG STATE NO RES	×	×	_	SEC-82
C1704: LOW PRESSURE FL	_	_	×	<u>WT-48</u>
C1705: LOW PRESSURE FR	_	_	×	<u>WT-48</u>
C1706: LOW PRESSURE RR	_	_	×	<u>WT-48</u>
C1707: LOW PRESSURE RL	_	_	×	<u>WT-48</u>
C1708: [NO DATA] FL	_	_	×	<u>WT-14</u>
C1709: [NO DATA] FR	_	_	×	<u>WT-14</u>
C1710: [NO DATA] RR	_	_	×	<u>WT-14</u>
C1711: [NO DATA] RL	_	_	×	<u>WT-14</u>
C1712: [CHECKSUM ERR] FL	_	_	×	<u>WT-16</u>
C1713: [CHECKSUM ERR] FR	_	_	×	<u>WT-16</u>
C1714: [CHECKSUM ERR] RR	_	_	×	<u>WT-16</u>
C1715: [CHECKSUM ERR] RL	_	_	×	<u>WT-16</u>
C1716: [PRESSDATA ERR] FL	_	_	×	<u>WT-18</u>
C1717: [PRESSDATA ERR] FR	_	_	×	<u>WT-18</u>
C1718: [PRESSDATA ERR] RR	_	_	×	<u>WT-18</u>
C1719: [PRESSDATA ERR] RL	_	_	×	<u>WT-18</u>
C1720: [CODE ERR] FL	_	_	×	<u>WT-16</u>
C1721: [CODE ERR] FR	_	_	×	<u>WT-16</u>
C1722: [CODE ERR] RR	_	_	×	<u>WT-16</u>
C1723: [CODE ERR] RL	_	_	×	<u>WT-16</u>
C1724: [BATT VOLT LOW] FL	_	_	×	<u>WT-16</u>
C1725: [BATT VOLT LOW] FR	_	_	×	<u>WT-16</u>
C1726: [BATT VOLT LOW] RR	_	_	×	<u>WT-16</u>
C1727: [BATT VOLT LOW] RL	_	_	×	<u>WT-16</u>
C1729: VHCL SPEED SIG ERR	_	_	×	<u>WT-20</u>
C1734: CONTROL UNIT	_	_	×	<u>WT-21</u>

^{* :} With electronic steering column lock

Ρ

0

M

MWI

Α

В

 D

Е

F

G

Н

< ECU DIAGNOSIS >

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

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	(Value/Status	
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
ED WID DEO	Ignition switch ON	Front wiper switch INT	1LOW
FR WIP REQ		Front wiper switch LO	Low
	Front wiper switch HI		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	Release the push-button ignition	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 >

Monitor Item	Cor	Value/Status	
	Ignition switch ON	Off	
	At engine cranking		ST →INHI
ST/INHI RLY		control relay cannot be recognized by when the starter relay is ON and the	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		Off
	Release the CVT selector button w	On	
	None of the conditions below are p	Off	
S/L RLY -REQ ¹	vitch when the steering lock is activat-	On	
	Steering lock is activated	LOCK	
S/L STATE ¹	Steering lock is deactivated	UNLK	
	[DTC B210A] is detected	UNKWN	
DTRL -REQ	DTRL ON	On	
DIRL-REQ	DTRL OFF	Off	
OIL P SW	Ignition switch OFF, ACC or engine	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	
LIODNI CLUDD	Not operated		Off
HORN CHIRP	Door locking with Intelligent Key (h	On	

1: Early production

L

Κ

Α

В

С

 D

Е

F

G

Н

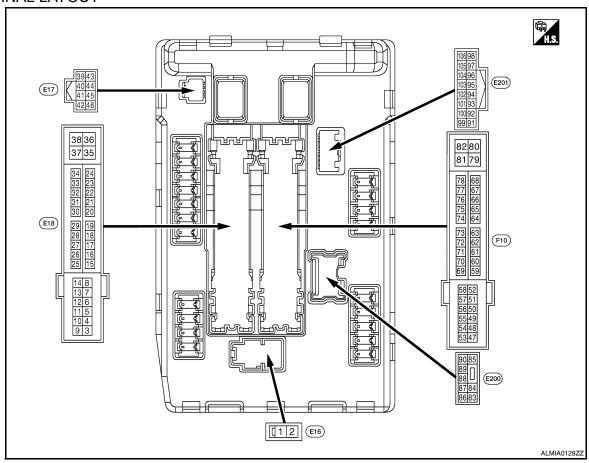
M

MWI

0

< ECU DIAGNOSIS >

TERMINAL LAYOUT



PHYSICAL VALUES

	inal No.	Description		Condition		Value
+ (Wire	e color)	Signal name	Input/ Output			(Approx.)
1 (R)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (L)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
4	Ground	Front winer LO	Output	Ignition	Front wiper switch OFF	0 V
(LG)	Ground	Front wiper LO	Output	switch ON	Front wiper switch LO	Battery voltage
5	Cround	Front wiper HI	Output	Ignition	Front wiper switch OFF	0 V
(Y)	(Y) Ground	Front wiper ni	Output	switch ON	Front wiper switch HI	Battery voltage
6 (L)	Ground	Daytime light relay power supply (Canada models only)	Output	Ignition switch OFF		Battery voltage
7	Ground	Tail, license plate lamps &	Output	Ignition	Lighting switch OFF	0 V
(GR)	Ground	interior lamps	Output	switch ON	Lighting switch 1ST	Battery voltage
10				Ignition switch OFF (For a few seconds after turning ignition switch OFF)		0 V
(BR)	Ground ECM relay power supply		Output	Ignition switch ON Ignition switch OFF (More than a few seconds after turning ignition switch OFF)		Battery voltage

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description	Description			Value	/
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	F
11 ¹		Electronic steering column		Ignition switch OFF	A few seconds after opening the driver door	Battery voltage	E
(O)	Ground	lock power supply	Output	Ignition switch LOCK	Press the push-button ig- nition switch	Battery voltage	(
				Ignition sw	ritch ACC or ON	0 V	
12 (B)	Ground	Ground	_	Ignition sw	ritch ON	0 V	
					ately 1 second or more after ignition switch ON	0 V	
13 (SB)	Ground	Fuel pump power supply	Output	Approxir	mately 1 second after turning ion switch ON	Battery voltage	
15	Ground	Ignition relay-1 power sup-	Output	Ignition sw	ritch OFF	0 V	
(W)	Ground	ply	Output	Ignition sw	ritch ON	Battery voltage	
16				Ignition	Front wiper stop position	0 V	(
(R)	Ground	Front wiper auto stop	Input	switch ON	Any position other than front wiper stop position	Battery voltage	
19	Ground	Ignition relay-1 power sup-	Output	Ignition sw	ritch OFF	0 V	
(Y)	0.000	ply	- Carpar	Ignition sw	ritch ON	Battery voltage	
20 (L)	Ground	Ambient sensor ground	_	Ignition sw	ritch ON	0V	
21 (LG)	Ground	Ambient sensor	_	Ignition switch ON		5V	
22 (SB)	Ground	Refrigerant pressure sensor ground	_	Ignition sw	ritch ON	0V	
23 (GR)	Ground	Refrigerant pressure sensor	_	Both A/0	switch ON (READY) C switch and blower motor N (electric compressor oper-	1.0 - 4.0V	ŀ
24 (G)	Ground	Refrigerant pressure sensor power supply	_	Ignition sw	ritch ON	5V	
25	Ground	Ignition relay-1 power sup-	Output	Ignition sw	ritch OFF	0 V	
(GR)	5.54114	ply	- Sipat	Ignition sw		Battery voltage	<u> </u>
27	Ground	Ignition relay monitor	Input	_	ritch OFF or ACC	Battery voltage	
(W)		- ,		Ignition sw		0 V	M
28 (SB)	Ground	Push-button ignition switch	Input		push-button ignition switch	0 V	
		OWNEDI		CVT selec	tor lever in any position other	Battery voltage 0 V	(
30 (BR)	Ground	Starter relay control	Input	than P or N (ignition switch ON) CVT selector lever P or N (ignition switch ON)		Battery voltage	
32 ¹		Electronic steering column			steering column lock is acti-	0 V	
(P)	Ground	lock unit condition-1	Input	Electronic tivated	steering column lock is deac-	Battery voltage	

MWI-115 Revision: November 2009 2010 Maxima

< ECU DIAGNOSIS >

	inal No.	Description				Mal .
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
33 ¹	Ground	Electronic steering column	Input	Electronic s	steering column lock is acti-	Battery voltage
(G)	Ground	lock condition-2	iliput	Electronic stivated	steering column lock is deac-	0 V
34	Ground	Cooling fan relay-3 control	Input	Ignition sw	tch OFF or ACC	0 V
(O)	Orodina .	Cooming fair rollay o control	mpat	Ignition sw		0.7 V
35	Ground	Cooling fan motor control	Output	-	tch OFF or ACC	0 V
(P)				Ignition sw	itch ON	0.7 V
36 (G)	Ground	Battery power supply	Input	Ignition sw		Battery voltage
38	Ground	Cooling fan motor control	Output	_	tch OFF or ACC	0 V
(GR)		ŭ		Ignition sw	itch ON	0.7 V
39 (P)	_	CAN - L	Input/ Output		_	_
40 (L)	_	CAN - H	Input/ Output		_	_
41 (B)	Ground	Ground	_	Ignition sw	itch ON	0 V
42	Ground	Cooling for rolay 2 control	Input	lgnition switch OFF or ACC Ignition switch ON		0 V
(SB)	Ground	Cooling fan relay-2 control	iliput			0.7 V
					Press the CVT selector button (CVT selector lever P)	Battery voltage
43 (Y)		Input	Inniit	Ignition switch ON	CVT selector lever in any position other than P Release the CVT selector button (CVT selector lever P)	0 V
44				The horn is	deactivated	Battery voltage
(W)	Ground	Horn relay control	Input	The horn is	activated	0 V
45	Craund	Anti thaff have valou control	lant	The horn is	deactivated	Battery voltage
(GR)	Ground	Anti theft horn relay control	Input	The horn is	activated	0 V
46	Ground	Starter relay control	lanut		or lever in any position other I (ignition switch ON)	0 V
(BR)	Ground	Starter relay control	Input	CVT select	or lever P or N (ignition	Battery voltage
					A/C switch OFF	0 V
48 (W)	Ground	A/C relay power supply	Output	Engine running	A/C switch ON (A/C compressor is operating)	Battery voltage
49				Ignition switch OFF (For a few seconds after turning ignition switch OFF)		0 V
(R/G)	Ground	ECM relay power supply	Output	(More the	witch ON witch OFF an a few seconds after turn- on switch OFF)	Battery voltage
51	Ground	Ignition relay power supply	Output	Ignition sw	tch OFF	0 V
(LG)	Cround	.g.maon rolay power supply	Carpar	Ignition sw	tch ON	Battery voltage

< ECU DIAGNOS IS >

Terminal No. Description (Wire color)		Description				Value
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
52	01	1 20	0.1.1	Ignition swi	tch OFF	0 V
(Y/G)	Ground	Ignition relay power supply	Output	Ignition swi	tch ON	Battery voltage
53				Ignition swi (For a few s switch OFF	econds after turning ignition	0 V
(R/W)	Ground	ECM relay power supply	Output	•		Battery voltage
5.4		The state of the land of the state of the st		Ignition swi (For a few s switch OFF	econds after turning ignition	0 V
54 (G/W)	Ground Throttle control motor relay power supply Output		Output	`		Battery voltage
55 (W/L)	Ground	ECM power supply	Output	Ignition swi	tch OFF	Battery voltage
56	Ground	Ignition relay power supply	Output	Ignition switch 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 switch OFF		0 V
(O)	Ground	ignition relay power supply	Output	Ignition switch ON		Battery voltage
58	Ground	Ignition relay power supply	Output	Ignition swi	tch OFF	0 V
(Y)	Ground	ignition relay power supply	Output	Ignition swi	tch ON	Battery voltage
69		ECM relay control		Ignition swi (For a few s switch OFF	econds after turning ignition	Battery voltage
(W/B)	Ground		Output	 Ignition switch ON Ignition switch OFF (More than a few seconds after turning ignition switch OFF) 		0 - 1.5 V
						0 -1.0 V
70 (O)	Ground	Throttle control motor re-	Output	Ignition swi	tch ON \rightarrow OFF	↓ Battery voltage ↓
(U)		lay control	•			0 V
				Ignition swi	tch ON	0 - 1.0 V
72				Ignition	CVT selector lever in P or N position	Battery voltage
(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
75	Ground	Oil pressure switch	Innut	Ignition	Engine stopped	0 V
(LG)	Ground	Oil pressure switch	Input	switch ON	Engine running	Battery voltage

Revision: November 2009 MWI-117 2010 Maxima

Α

В

С

 D

Е

F

G

Н

J

Κ

L

M

 \circ

< ECU DIAGNOSIS >

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
				Ignition swi	tch ON	(V) 6 4 2 0 2ms JPMIA0001GB 6.3 V
76 (SB)		Power generation command signal	Output	40% is set on "Active test", "ALTERNATOR DUTY" of "ENGINE"		(V) 6 4 2 0 2ms JPMIA0002GB 3.8 V
				80% is set on "Active test", "ALTERNATOR DUTY" of "ENGINE"		(V) 6 4 2 0 2ms JPMIA0003GB
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/W)	Ground	Starter motor	Output	At engine of	ranking	Battery voltage
83	Ground	Headlamp LO (RH)	Output	Ignition	Lighting switch OFF	0 V
(R/Y)		, ,	'	switch ON	Lighting switch 2ND	Battery voltage
84 (L)	Ground	Headlamp LO (LH)	Output	Ignition switch ON	Lighting switch OFF Lighting switch 2ND	0 V 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) Front fog lamp switch OFF	Battery voltage
87 (L/Y)	Ground	Front fog lamp (LH)	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
88 (R/W)	Ground	Washer pump power supply	Output	Ignition swi		Battery voltage

< ECU DIAGNOSIS >

Terminal No.		Description				Value
+	e color)	Signal name	Input/ Output	Condition		(Approx.)
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		D 1: 1 (DI)	0	Ignition	Lighting switch 1ST	Battery voltage
(LG/ R)	Ground	Parking lamp (RH)	Output	switch ON	Lighting switch OFF	0 V
92				Ignition	Lighting switch 1ST	Battery voltage
(LG/ B)	Ground	Parking lamp (LH)	Output	switch ON	Lighting switch OFF	0 V
99 (BR/ W)	Ground	Ambient sensor ground	_	Ignition swi	itch ON	ov
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	switch ON (READY) S switch and blower motor N (electric compressor oper-	1.0 - 4.0V
103 (P)	Ground	Refrigerant pressure sensor power supply	_	Ignition switch ON		5V
105	Ground	Daytime light relay control	Output	Ignition switch ON	Daytime light system active	Battery voltage
(V)	Giouila	(Only for Canada models)	Output	Ignition switch ON	Daytime light system inactive	0 V

1: Early production

M

L

Κ

Α

В

С

 D

Е

F

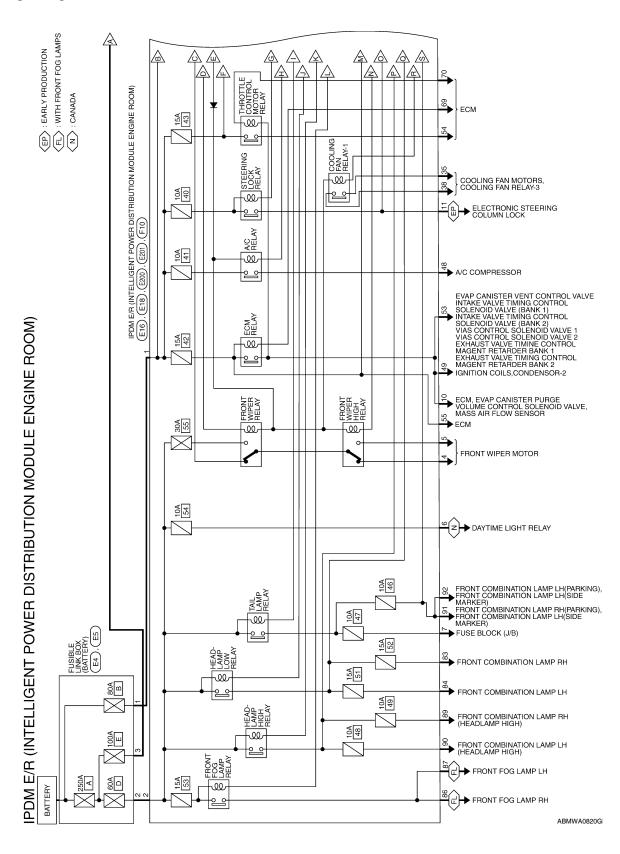
G

Н

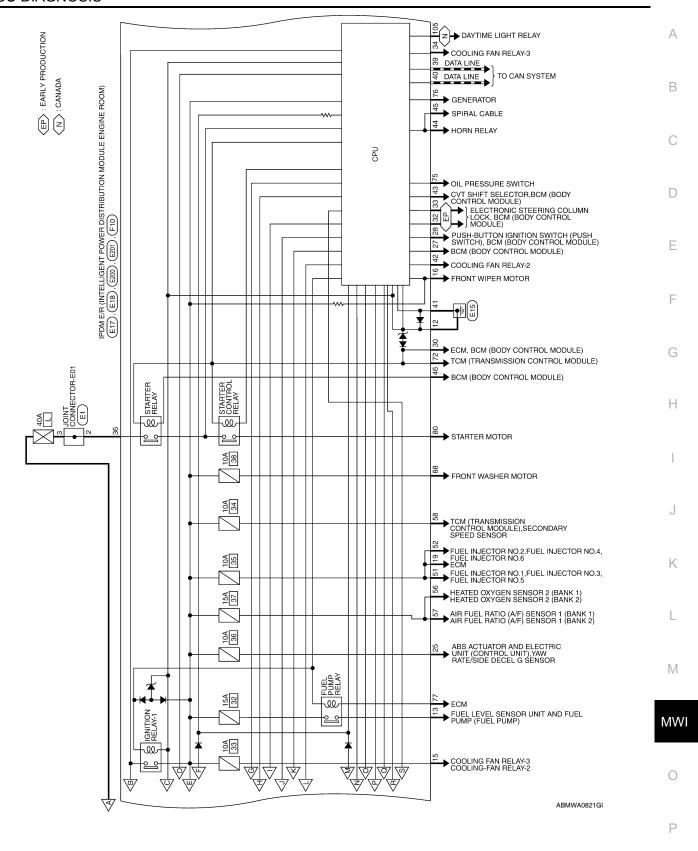
MWI

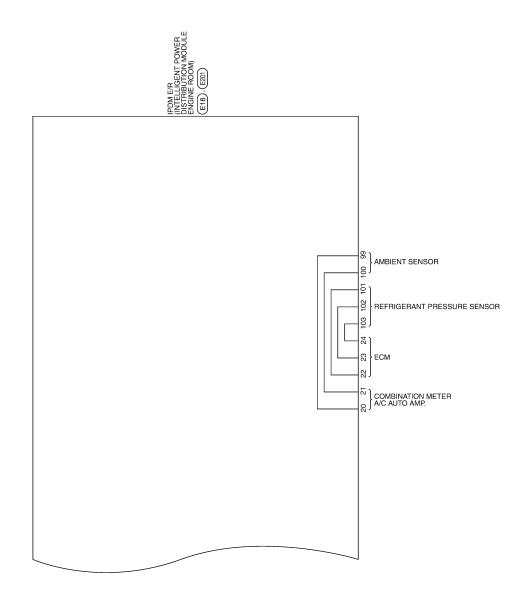
0

Wiring Diagram



< ECU DIAGNOSIS >





ABMWA0085GI

< ECU DIAGNOSIS >

FUSIBLE LINK BOX (BATTERY)

Connector Name Connector No.

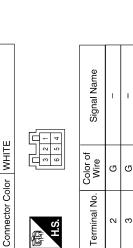
Connector Color GRAY

a 4

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

Connector Name JOINT CONNECTOR-E01

Connector No.



Terminal No. Ŋ ന

Connector Name FUSIBLE LINK BOX (BATTERY)	N/		Signal Name	I	1
me FUSIBLE LI (BATTERY)	lor BROWN		Color of Wire	B/W	_
Connector Na	Connector Color	所 H.S.	Terminal No.	ļ	٥
ပိ	ပိ	管	_ ₽		

Signal Name

Color of Wire ď

Terminal No.

က

	E17
	Connector No.
	E16
	Connector No. E16

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

Connector Name

BLACK

Connector Color

□- <

TE	42 41 43 38 46 45 44 43	Signal Name	CAN-L	CAN-H	GND (SIGNAL)	MOTOR FAN RLY MID
lor WHI	42 41 40 46 45 44	Color of Wire	Д	٦	В	SB
Connector Color WHITE	「京 H.S.	Terminal No.	39	40	41	42

DETENT SW

43 44 45 46

START CONT

HORN SW HORN RLY

> GR BR

≷

Signal Name	F/L MAIN	F/L USM	
Color of Wire	В	_	
No.			

Signal Nam	F/L MAIN	F/L USM	
Color of Wire	В	٦	
Terminal No.	1	2	

ABMIA0852GB

MWI-123 Revision: November 2009 2010 Maxima Α

В

C

D

Е

F

G

Н

J

K

L

M

MWI

0

< ECU DIAGNOSIS >

Signal Name	PD SENS PWR-E/R	ABS ECU	-	IGN SIGNAL	PUSH START SW	_	CLUTCH I/L SW	I	SL CONDITION 1 (EARLY PRODUCTION)	SL CONDITION 2 (EARLY PRODUCTION)	MOTOR FAN RLY HI	MOTOR FAN LO	E/L IGNSW	I	F/L MOTOR FAN
Color of Wire	G	GR	-	W	SB	-	BR	ı	Ь	g	0	Ь	G	ı	GR
Terminal No.	24	25	56	27	28	58	30	31	32	33	34	35	36	37	38

Terminal No. Oolor of 98 – 99 BR/W 100 SB 101 W 102 R 103 P 103 P 104 – 105 N 106 P	Signal Name	ı	AMB SENS GND-FEM	AMB SENS SIG-FEM	PD SENS GND FEM	PD SENS SIG FEM	PD SENS PWR FEM	ı	DTRL RLY	1
Terminal No. 98 99 100 100 101 102 103 104 105 106 106		ı	BR/W	SB	8	œ	۵	1	^	1
	Terminal No.	86	66	100	101	102	103	104	105	106

																		. 1
Signal Name	TAIL/ILLUMI	I	I	ECM VB	(EARLY PRODUCTION)	GND (POWER)	FUEL PUMP	ı	START IG E/R	WIPER AUTOSTOP	ı	-	BCM IGNSW	AMB SENS GND-E/R	AMB SENS SIG-E/R	PD SENS GND-E/R	PD SENS SIG-E/R	
Color of Wire	GR	ı	ı	BB	0	В	SB	ı	8	æ	ı	ı	٨	_	ГG	SB	GR	
Terminal No.	7	8	6	10	1	12	13	14	15	16	17	18	19	20	21	22	23	

Connector No.	E201
Connector Name	Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Color WHITE	WHITE
86	98 97 96 95 94 93 92 91

	Signal Name	CLEARANCE RH	CLEARANCE LH	ı	1	ı	I	ı
	Color of Wire	LG/R	LG/B	ı	-	_	ı	1
_	Terminal No.	91	95	93	94	92	96	97

	H	RELIGEIN	INE ROOM)		
E18	TIMI O'LL	POWER DISTRIBUTION	MODULE ENGINE ROOM)	WHITE	
Connector No. E18		Connector Name POWER DISTRIBUTION		Connector Color WHITE	

	33 34	23 24						
	25 26 27 28 29 30 31 32 33 34	15 16 17 18 19 20 21 22 23 24		Signal Name	1	FR WIPER LO	FR WIPER HI	DTRL/DEICER
	14	80		-				
	13	7		or o /ire	1	2	_	_
ī	12	9	F	<u></u>				
	10 11	2		ģ				
.	9	4		nal	က	4	2	9
	6	က		Terminal No. Wire				

Connector No.	E200
Connector Name	Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color WHITE	WHITE

ABMIA2103GB

< ECU DIAGNOSIS >

1111	JS	10	_																					
Signal Name	MOTRLY	ı	NP SW	ı	1	OIL PRESSURE SW	ALT C	FPR	ı	I	STARTER MOTOR													
Wire	0	1	B/B	ı	1	PJ	SB	GR	1	1	B/W													
Terminal No.	70	71	72	73	74	75	9/	77	78	6/	80													
										1										1				٦
Signal Name	ı	A/C COMP	ING COIL	ı	INJECTOR #1	INJECTOR #2	ENG SOL	ETC	ECM BAT	O2 SENS #1	O2 SENS #2	AT ECU	_	ı	1	ı	ı	ı	1	1	1	ı	SSOFF	
			45					_	ļ.,														m	_
o. Wire		>	R/G	1	PC	Y/G	R/W	G/W	M/L	R/Y	0	\	_	-	1	ı	1	-		1	1	1	M/B	-
l erminal No.	47	48	49	20	51	52	53	54	55	56	22	28	29	09	61	62	63	64	65	99	29	89	69	3
									81 82	08 62	⊣ II													
Τ									75 76 77 78	65 66 67 68														
FIATO	POWER DISTRIBUTION	ENGINE ROOM)							69 70 71 72 73 74 7	59 60 61 62 63 64 6														
טו ו	POWER DI	MODULE E	WHITE					-	57 58	51 52	<u>- [</u>]													

Fail Safe

0

ABMIA1348GB

CAN COMMUNICATION CONTROL

Connector Name

Connector No.

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

< ECU DIAGNOSIS >

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

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 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
Electronic steering column lock ¹	Steering lock relay OFF

1: Early production

IGNITION RELAY MALFUNCTION DETECTION FUNCTION

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

DTC	Ignition switch	Ignition relay	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 second activation and 20 second 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:

< ECU DIAGNOSIS >

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.

DTC Index

CONSULT-III display	Fail-safe	TIME	NOTE	Refer to
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	×	CRNT	1 – 39	PCS-19
B2098: IGN RELAY ON	×	CRNT	1 – 39	PCS-20
B2099: IGN RELAY OFF	_	CRNT	1 – 39	PCS-21
B2108: STRG LCK RELAY ON	_	CRNT	1 – 39	<u>SEC-92</u>
B2109: STRG LCK RELAY OFF	_	CRNT	1 – 39	<u>SEC-93</u>
B210A: STRG LCK STATE SW	_	CRNT	1 – 39	<u>SEC-94</u>
B210B: START CONT RLY ON	_	CRNT	1 – 39	<u>SEC-98</u>
B210C: START CONT RLY OFF	_	CRNT	1 – 39	SEC-99
B210D: STARTER RELAY ON	_	CRNT	1 – 39	SEC-100
B210E: STARTER RELAY OFF	_	CRNT	1 – 39	SEC-101
B210F: INTRLCK/PNP SW ON	_	CRNT	1 – 39	SEC-103
B2110: INTRLCK/PNP SW OFF	_	CRNT	1 – 39	SEC-105

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.

MWI

L

M

Α

В

D

Е

Н

0

Р

Revision: November 2009 MWI-127 2010 Maxima

THE FUEL GAUGE POINTER DOES NOT MOVE

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

THE FUEL GAUGE POINTER DOES NOT MOVE

Description INFOID:000000005459913

Fuel gauge needle will not move from a certain position.

Diagnosis Procedure

INFOID:0000000005459914

1. CHECK COMBINATION METER INPUT SIGNAL

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

Does monitor value match fuel gauge reading?

YES >> GO TO 2

NO >> Replace combination meter. Refer to MWI-140, "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

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

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace fuel level sensor unit. Refer to FL-7, "Removal and Installation".

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-140, "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-	- A
ING	^
Description INFOID:000000005459918	5 B
The fuel gauge needle will not move to "F" position when refueling.	
Diagnosis Procedure	5 C
1. OBSERVE FUEL GAUGE	
Does it take a long time for the pointer to move to FULL position?	D
YES or NO YES >> GO TO 2	
NO >> GO TO 3	Е
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?	Н
YES or NO YES >> Check the fuel level indication with vehicle on a level surface.	
NO >> GO TO 4	
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
	L
	M
	MWI

THE OIL PRESSURE WARNING LAMP DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

THE OIL PRESSURE WARNING LAMP DOES NOT TURN ON

Description INFOID.000000005459917

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

Diagnosis Procedure

INFOID:0000000005459918

1. CHECK OIL PRESSURE WARNING LAMP

Perform IPDM E/R auto active test. Refer to PCS-14, "Diagnosis Description".

Is oil pressure warning lamp illuminated?

YES >> GO TO 2

NO >> Replace combination meter. Refer to MWI-140, "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>, "Component Inspection". Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-41, "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:0000000005459919

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

Diagnosis Procedure

INFOID:000000005459920

Regarding Wiring Diagram information, refer to MWI-54, "Wiring Diagram".

1. CHECK OIL PRESSURE WARNING LAMP

Perform IPDM E/R auto active test. Refer to PCS-14, "Diagnosis Description".

Is oil pressure warning lamp illuminated?

YES >> GO TO 2

>> Replace combination meter. Refer to MWI-140, "Removal and Installation". NO

2.CHECK IPDM E/R OUTPUT VOLTAGE

- Turn ignition switch OFF.
- 2. Disconnect the oil pressure switch connector.
- 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-41, "Removal and Installation".

NO >> Replace oil pressure switch.

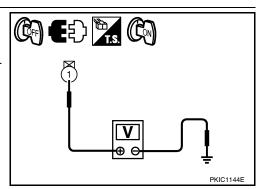
f 4 .CHECK OIL PRESSURE SWITCH SIGNAL CIRCUIT

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-41, "Removal and Installation".

NO >> Repair harness or connector.



Α

В

D

Е

F

K

M

MWI

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:000000000545992:

- 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:0000000005459922

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-140, "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-43, "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-43, "Component Inspection".

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-140, "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:0000000005459923

- 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 LEVEL SWITCH SIGNAL CIRCUIT

Check the washer level switch signal circuit. Refer to MWI-44, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair harness or connector.

2.CHECK WASHER LEVEL SWITCH UNIT

Perform a unit check for the washer level switch. Refer to MWI-45, "Component Inspection".

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-140, "Removal and Installation".

NO >> Replace washer level switch.

Н

Α

В

D

Е

INFOID:0000000005459924

J

K

M

MWI

0

THE DOOR OPEN WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

< SYMPTOM DIAGNOSIS >

THE DOOR OPEN WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

Description INFOID:000000005459928

- 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:000000005459926

1. CHECK BCM INPUT SIGNAL

Connect CONSULT-III and check the BCM input signals. Refer to <u>DLK-68</u>, "Component Function Check" (Door switch) and <u>DLK-89</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-III.
- 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-140, "Removal and Installation".

NO >> Replace BCM. Refer to BCS-87, "Removal and Installation".

3.CHECK DOOR SWITCH SIGNAL CIRCUIT

Check the door switch signal circuit. Refer to DLK-68, "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-70</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-89</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-91, "Component Inspection".

THE DOOR OPEN WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

< SYMPTOM DIAGNOSIS >

1 - 11 1		10	
is the	inspection	result	normal

YES >> Replace combination meter. Refer to MWI-140, "Removal and Installation".

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

В

Α

С

D

Е

F

G

Н

J

K

L

M

MWI

0

THE AMBIENT TEMPERATURE DISPLAY IS INCORRECT

< SYMPTOM DIAGNOSIS >

THE AMBIENT TEMPERATURE DISPLAY IS INCORRECT

Description INFOID:000000005459927

- 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:0000000005459928

NOTE:

Check that the symptom is not applicable to the normal operating condition before starting diagnosis. Refer to MWI-23, "INFORMATION DISPLAY: System Description".

1. CHECK AMBIENT SENSOR SIGNAL CIRCUIT

Check the ambient sensor signal circuit. Refer to MWI-46, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair harness or connector.

2.CHECK AMBIENT SENSOR UNIT

Perform a unit check for the ambient sensor. Refer to <u>HAC-35</u>, "Component Inspection" (with color display) or <u>HAC-163</u>, "Component Inspection" (with monochrome display).

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-140, "Removal and Installation".

NO >> Replace ambient sensor.

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

NORMAL OPERATING CONDITION COMPASS

INFOID:0000000005459929

Α

В

D

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 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, "Description".
Compass shows the wrong direction.		
Compass does not change direction appears "Locked".		
Compass does not show all the directions, one or more is missing.		
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".

M

MWI

0

F

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.

Precautions Necessary for Steering Wheel Rotation after Battery Disconnect (Early Production, With Electronic Steering Column Lock)

NOTE:

- Before removing and installing any control units, first turn the push-button ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work.
 If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

This vehicle is equipped with a push-button ignition switch and a steering lock unit.

If the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

- 2. Carry the Intelligent Key or insert it to the key slot and turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.)
- Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
- 4. Perform the necessary repair operation.

PRECAUTIONS

< PRECAUTION >

5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)

Α

6. Perform self-diagnosis check of all control units using CONSULT-III.

В

С

D

Е

F

G

Н

1

J

K

L

M

MWI

0

COMBINATION METER

< ON-VEHICLE REPAIR >

ON-VEHICLE REPAIR

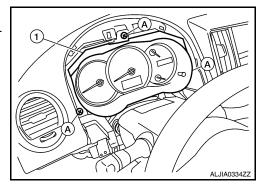
COMBINATION METER

Removal and Installation

INFOID:0000000005459932

REMOVAL

- 1. Disconnect the negative battery terminal.
- 2. Remove the cluster lid A. Refer to IP-12, "Removal and Installation".
- 3. Remove the combination meter screws (A) using power tools.
- 4. Pull out the combination meter (1), then disconnect the combination meter connectors and remove the combination meter (1).



INSTALLATION

Installation is in the reverse order of removal.

METER CONTROL SWITCH

< ON-VEHICLE REPAIR >

METER CONTROL SWITCH

Removal and Installation

INFOID:0000000005459933

Α

В

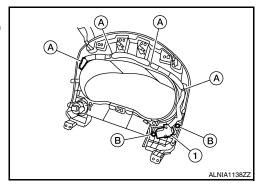
C

D

Е

REMOVAL

- 1. Disconnect the negative battery terminal.
- 2. Remove the cluster lid A. Refer to IP-12, "Removal and Installation".
- 3. Detach the combination meter control switch harness clips (A), then 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.

Н

v

L

M

MWI

F

COMBINATION METER

< DISASSEMBLY AND ASSEMBLY >

DISASSEMBLY AND ASSEMBLY

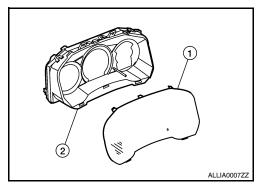
COMBINATION METER

Disassembly and Assembly

INFOID:0000000005459934

DISASSEMBLY

- 1. Remove the combination meter. Refer to IP-12, "Removal and Installation".
- 2. Remove the combination meter lens (1) from the combination meter (2).



ASSEMBLY

Assembly is in the reverse order of disassembly.