METER, WARNING LAMP & INDICATOR

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COMBINATION METER

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

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-28, "Diagnosis Description".

Does self-diagnosis mode operate?

YES >> GO TO 3

NO >> Check power supply and ground circuit of combination meter. Refer to MWI-33, "COMBINATION METER: Diagnosis Procedure". Then, GO TO 4

3.check combination meter (consult)

Select "METER/M&A" on CONSULT and perform "SELF-DIAGNOSIS" of combination meter. Refer to MWI-28, "CONSULT Function (METER/M&A)".

Self-diagnostic results content

No malfunction detected>>Repair or replace the cause of symptom. Then, GO TO 4 Malfunction detected>>Refer to <a href="https://mww.dw.doi.org/mww.dw.doi.org/mww.dw.doi.org/mww.dw.doi.org/mw.dw.doi.org/mw.doi.o

4. CONFIRM OPERATION

Does the combination meter operate normally?

YES or NO

YES >> Inspection End.

NO >> GO TO 1

SYSTEM DESCRIPTION

METER SYSTEM METER SYSTEM

METER SYSTEM: System Diagram

INFOID:0000000006392875 Generator signal Manual mode signal D Generator Not manual mode signal Brake fluid level switch signal CVT shift selector Brake fluid level switch Manual mode shift up signal Combination meter Manual mode shift down signa Parking brake switch signal Parking brake switch Speedometer Е Tachometer Fuel level sensor signal Seat belt buckle switch signal Fuel level sensor unit Seat belt buckle switch LH Water temperature Air bag signal gauge Air bag diagnosis sensor unit ECM Fuel gauge Security signal **BCM** ABS actuator Odo/trip meter and electric unit (control unit) Washer level switch signal Information Washer level switch CAN communication line TCM Indicator lamps Warning lamps ВСМ Outside air temperature signal IPDM E/R Oil pressure switch signal Oil pressure switch Outside air temperature signal Ambient sensor

METER SYSTEM: System Description

COMBINATION METER

- Speedometer, odo/trip meter, tachometer, fuel gauge, engine coolant 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.

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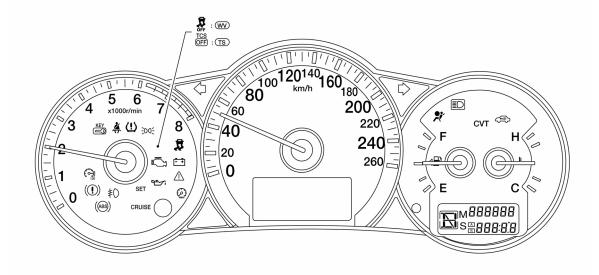
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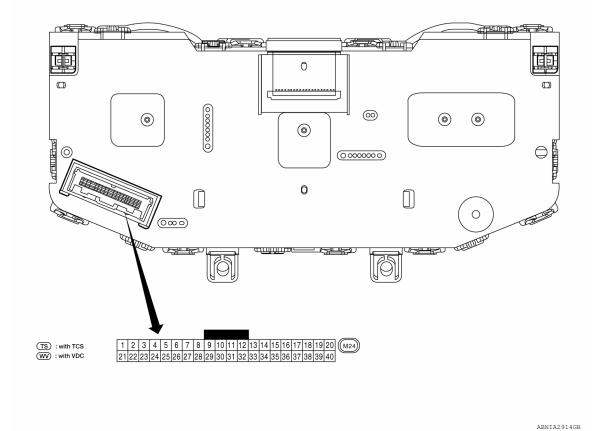
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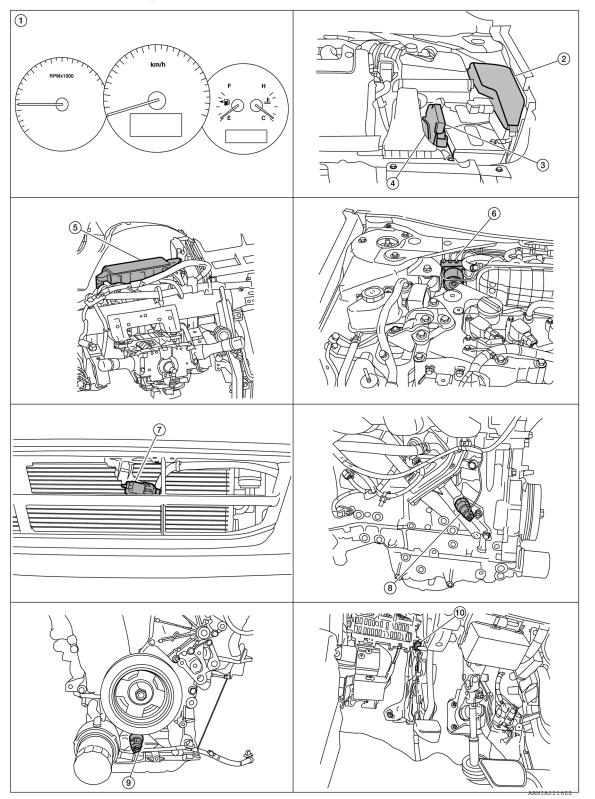
METER SYSTEM: Arrangement of Combination Meter





METER SYSTEM: Component Parts Location

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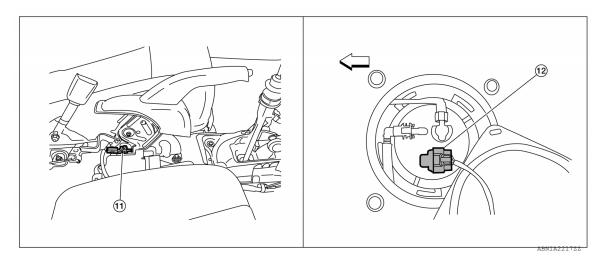
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- 1. Combination meter M24
- 4. TCM F16 (with CVT)
- 7. Ambient sensor E211 (view of front bumper fascia)
- Parking brake switch E35 (with CVT) (view with instrument lower cover LH removed)
- 2. IPDM E/R E17, E18, E201, F10
- 5. BCM M17, M18, M19, M21 (view with instrument panel removed)
- 3. Oil pressure switch F41 (QR25DE) (view with engine removed)
- 11. Parking brake switch M73 (with M/T) (view with center console removed)
- 3. ECM E10
- 6. ABS actuator and electric unit (control unit) E26
- Oil pressure switch F41 (VQ35DE) (view with engine removed)
- Fuel level sensor unit and fuel pump (fuel level sensor) B42 (view with rear seat and inspection hole cover removed)

METER SYSTEM: Component Description

Unit		Description
	Controls the following with the signals receinals from switches and sensors.	ved from each unit via CAN communication and the sig-
	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 signal to the combination meter via BCM w	oil pressure switch and transmits the oil pressure switch ith CAN communication line.
Fuel level sensor unit	Refer to MWI-36, "Description".	
Oil pressure switch	Refer to MWI-38, "Description".	
	Transmits the following signals to the comb	ination 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 co	ombination meter with CAN communication line.
BCM	Transmits signals provided by various un line.	its to the combination meter with CAN communication
DOM	Transmits the security signal to the comb	ination meter.
TCM	Transmits shift position signal to the combin	nation meter with CAN communication line.
Washer level switch	Transmits the washer level signal to the con	mbination meter.
Brake fluid level switch	Transmits the brake fluid level switch signa	I to the combination meter.
Parking brake switch	Refer to MWI-40, "Description".	

METER SYSTEM

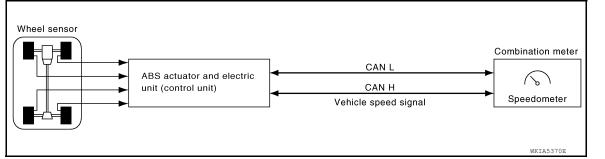
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SPEEDOMETER

SPEEDOMETER : System Diagram

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SPEEDOMETER: System Description

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

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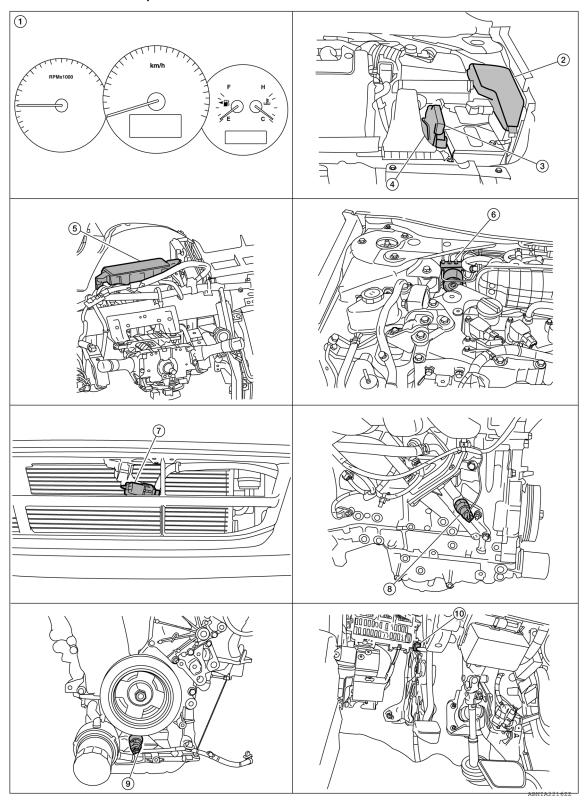
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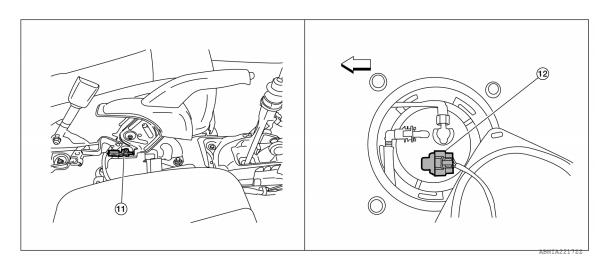
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SPEEDOMETER: Component Parts Location





- Combination meter M24
- TCM F16 (with CVT)
- Ambient sensor E211 (view of front 7. bumper fascia)
- 10. Parking brake switch E35 (with CVT) (view with instrument lower cover LH removed)
- IPDM E/R E17, E18, E201, F10 2.
- 5. BCM M17, M18, M19, M21 (view with instrument panel removed)
- Oil pressure switch F41 (QR25DE) (view with engine removed)
- Parking brake switch M73 (with M/T) (view with center console removed)
- 3. ECM E10
- ABS actuator and electric unit (control unit) E26

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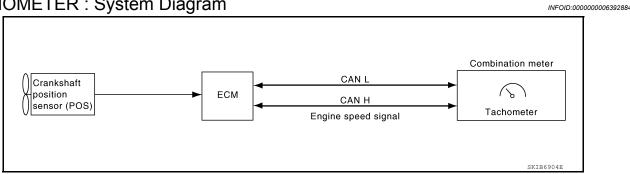
- Oil pressure switch F41 (VQ35DE) (view with engine removed)
- 12. Fuel level sensor unit and fuel pump (fuel level sensor) B42 (view with rear seat and inspection hole cover removed)

SPEEDOMETER: Component Description

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

TACHOMETER

TACHOMETER: System Diagram



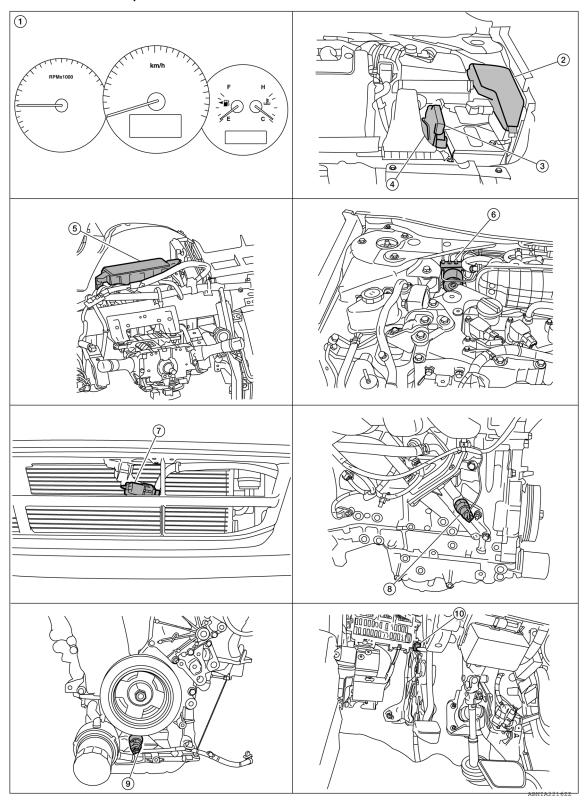
TACHOMETER: System Description

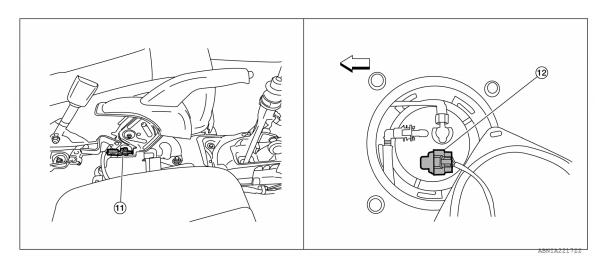
The tachometer indicates engine speed in revolutions per minute (rpm).

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

MWI-11 Revision: June 2012 2011 Altima GCC

TACHOMETER: Component Parts Location





- Combination meter M24
- TCM F16 (with CVT)
- Ambient sensor E211 (view of front bumper fascia)
- 10. Parking brake switch E35 (with CVT) (view with instrument lower cover LH removed)
- 2. IPDM E/R E17, E18, E201, F10
- BCM M17, M18, M19, M21 (view with instrument panel removed)
- Oil pressure switch F41 (QR25DE) (view with engine removed)
- Parking brake switch M73 (with M/T) (view with center console removed)
- ECM E10 3
- ABS actuator and electric unit (control unit) E26

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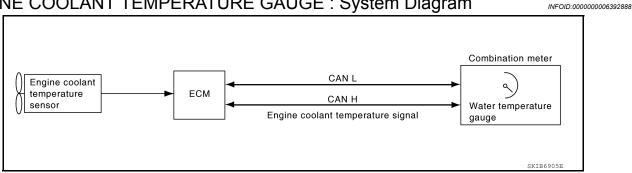
- Oil pressure switch F41 (VQ35DE) (view with engine removed)
- 12. Fuel level sensor unit and fuel pump (fuel level sensor) B42 (view with rear seat and inspection hole cover removed)

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



ENGINE COOLANT TEMPERATURE GAUGE: System Description

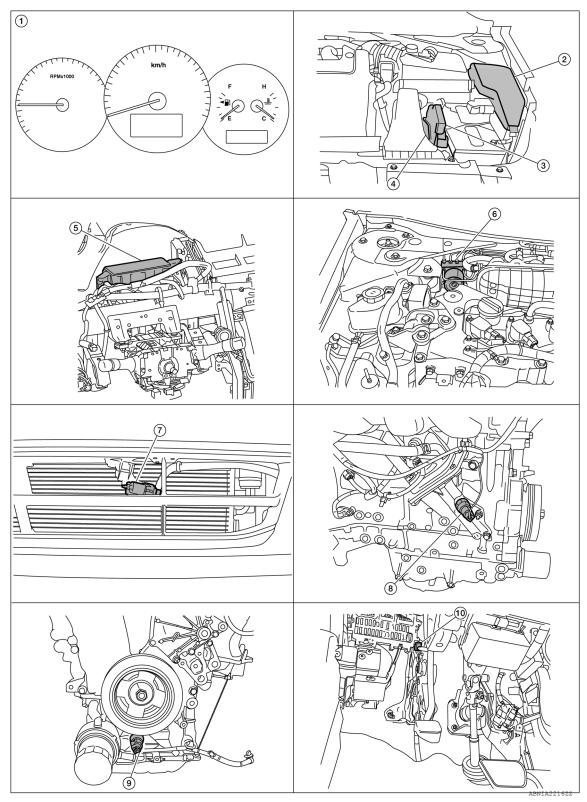
The engine coolant temperature gauge indicates the engine coolant temperature.

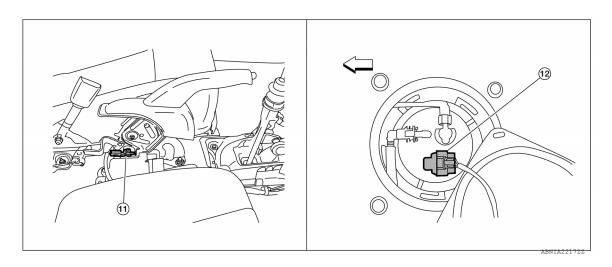
The ECM provides an engine coolant temperature signal to the combination meter via CAN communication lines.

MWI-13 Revision: June 2012 2011 Altima GCC

ENGINE COOLANT TEMPERATURE GAUGE : Component Parts Location

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- Combination meter M24
- 4. TCM F16 (with CVT)
- 7. Ambient sensor E211 (view of front bumper fascia)
- Parking brake switch E35 (with CVT) (view with instrument lower cover LH removed)
- 2. IPDM E/R E17, E18, E201, F10
- 5. BCM M17, M18, M19, M21 (view with instrument panel removed)
- Oil pressure switch F41 (QR25DE) (view with engine removed)
- Parking brake switch M73 (with M/T) (view with center console removed)
- 3. ECM E10
- ABS actuator and electric unit (control unit) E26

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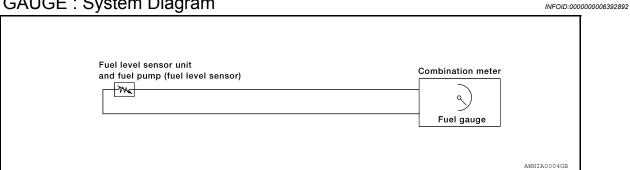
- Oil pressure switch F41 (VQ35DE) (view with engine removed)
- Fuel level sensor unit and fuel pump (fuel level sensor) B42 (view with rear seat and inspection hole cover removed)

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



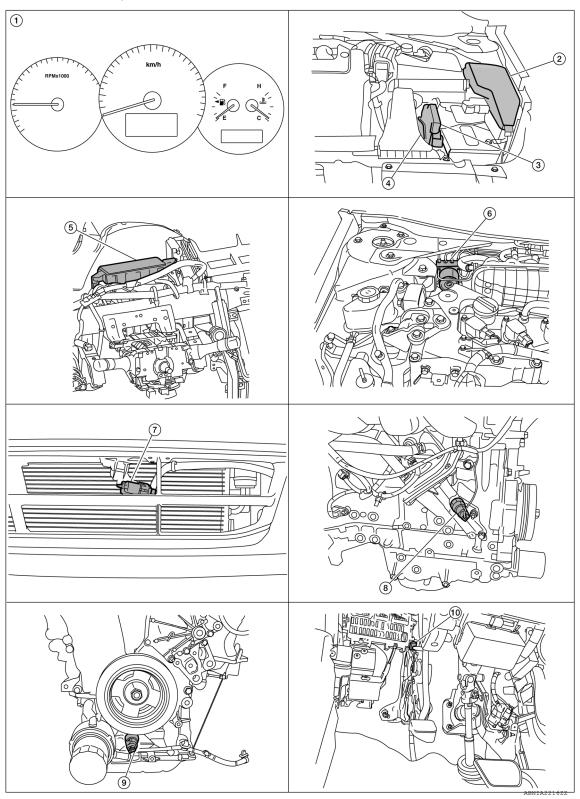
FUEL GAUGE: System Description

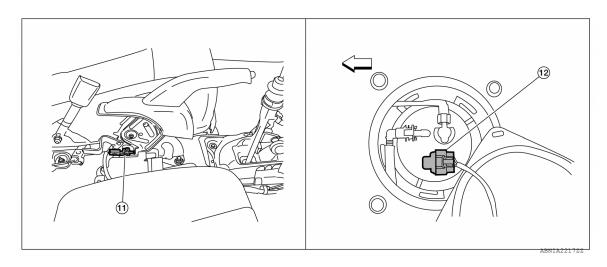
The fuel gauge indicates the approximate fuel level in the fuel tank.

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

Revision: June 2012 MWI-15 2011 Altima GCC

FUEL GAUGE: Component Parts Location





- Combination meter M24
- 4. TCM F16 (with CVT)
- 7. Ambient sensor E211 (view of front bumper fascia)
- Parking brake switch E35 (with CVT) (view with instrument lower cover LH removed)
- 2. IPDM E/R E17, E18, E201, F10
- 5. BCM M17, M18, M19, M21 (view with instrument panel removed)
- 8. Oil pressure switch F41 (QR25DE) (view with engine removed)
- Parking brake switch M73 (with M/T) (view with center console removed)
- 3. ECM E10
- ABS actuator and electric unit (control unit) E26

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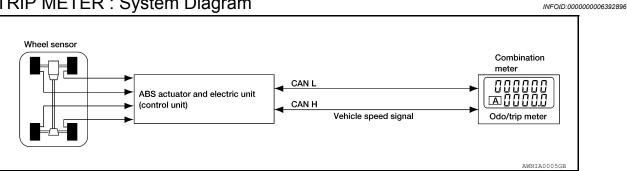
- Oil pressure switch F41 (VQ35DE) (view with engine removed)
- Fuel level sensor unit and fuel pump (fuel level sensor) B42 (view with rear seat and inspection hole cover removed)

FUEL GAUGE : Component Description

Unit	Description
Combination meter	Indicates the fuel level according to the fuel level sensor signal received from the fuel level sensor unit.
Fuel level sensor unit	Refer to MWI-36, "Description".

ODO/TRIP METER

ODO/TRIP METER: System Diagram



ODO/TRIP METER: System Description

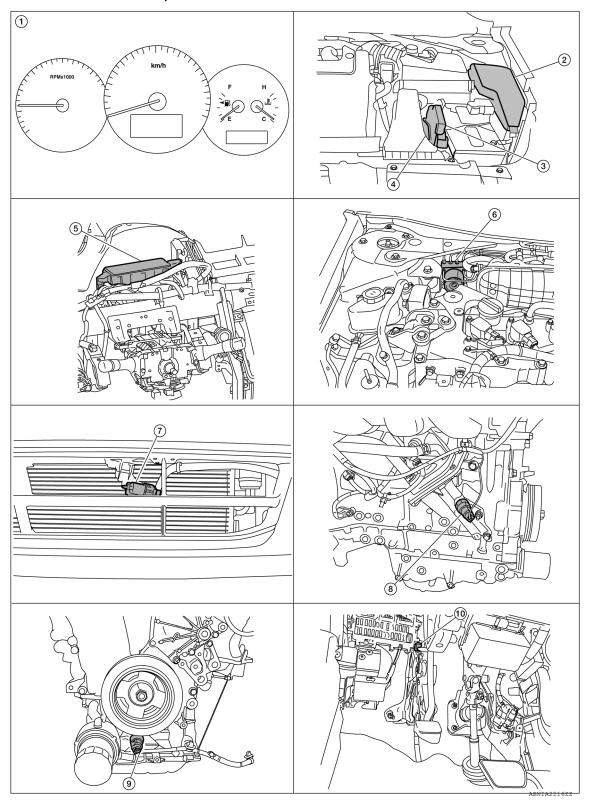
The vehicle speed signal and the memory signals from the meter memory circuit are processed by the combination meter and the mileage is displayed.

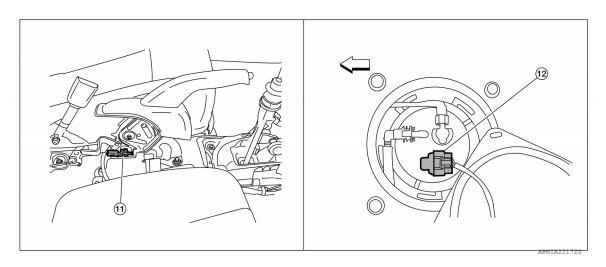
HOW TO CHANGE THE DISPLAY FOR ODO/TRIP METER

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

Revision: June 2012 MWI-17 2011 Altima GCC

ODO/TRIP METER: Component Parts Location





- Combination meter M24
- TCM F16 (with CVT)
- Ambient sensor E211 (view of front bumper fascia)
- 10. Parking brake switch E35 (with CVT) (view with instrument lower cover LH removed)
- 2. IPDM E/R E17, E18, E201, F10
- BCM M17, M18, M19, M21 (view with instrument panel removed)
- Oil pressure switch F41 (QR25DE) (view with engine removed)
- Parking brake switch M73 (with M/T) (view with center console removed)
- ECM E10 3
- ABS actuator and electric unit (control unit) E26

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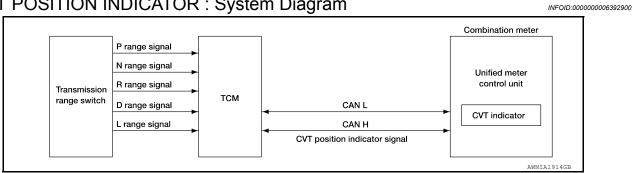
- Oil pressure switch F41 (VQ35DE) (view with engine removed)
- 12. Fuel level sensor unit and fuel pump (fuel level sensor) B42 (view with rear seat and inspection hole cover removed)

ODO/TRIP METER: Component Description

Unit	Description
Combination meter	Indicates the vehicle speed according to the vehicle speed signal received from ABS actuator and electric unit.
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

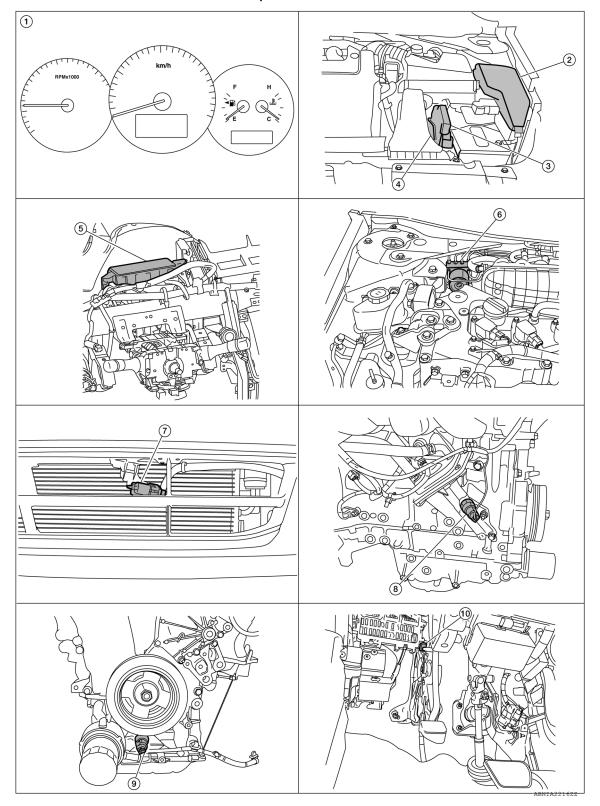


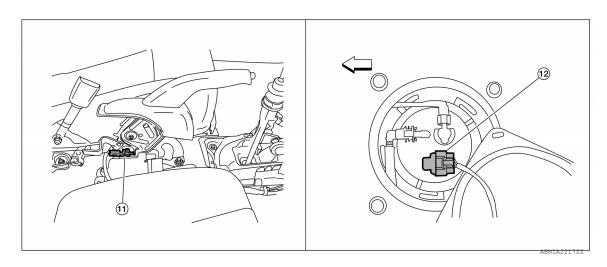
SHIFT POSITION INDICATOR: System Description

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.

MWI-19 Revision: June 2012 2011 Altima GCC

SHIFT POSITION INDICATOR: Component Parts Location





- Combination meter M24
- TCM F16 (with CVT)
- Ambient sensor E211 (view of front bumper fascia)
- 10. Parking brake switch E35 (with CVT) (view with instrument lower cover LH removed)
- 2. IPDM E/R E17, E18, E201, F10
- BCM M17, M18, M19, M21 (view with instrument panel removed)
- Oil pressure switch F41 (QR25DE) (view with engine removed)
- Parking brake switch M73 (with M/T) (view with center console removed)
- ECM E10 3
- ABS actuator and electric unit (control unit) E26

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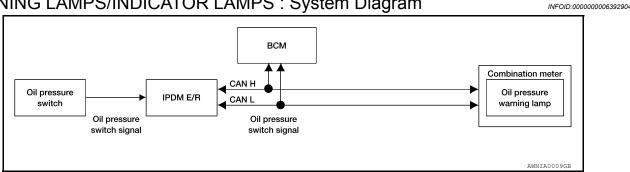
- Oil pressure switch F41 (VQ35DE) (view with engine removed)
- 12. Fuel level sensor unit and fuel pump (fuel level sensor) B42 (view with rear seat and inspection hole cover removed)

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

OIL PRESSURE WARNING LAMP

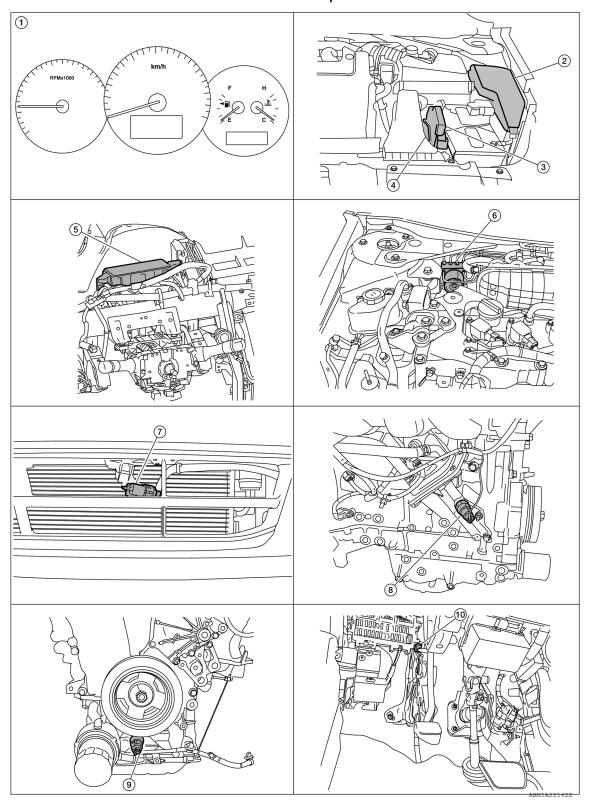
The oil pressure warning lamp is controlled by the IPDM E/R (intelligent power distribution module engine

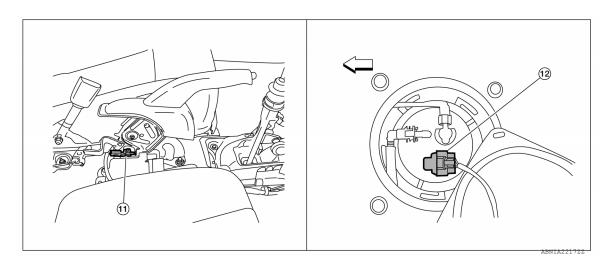
Low oil pressure causes the oil pressure switch to provide a ground signal to the IPDM E/R. The IPDM E/R then signals the combination meter (unified meter control unit) via the CAN communication lines and ground is provided to the oil pressure warning lamp.

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

MWI-21 Revision: June 2012 2011 Altima GCC

WARNING LAMPS/INDICATOR LAMPS : Component Parts Location





- Combination meter M24
- TCM F16 (with CVT)
- Ambient sensor E211 (view of front 7. bumper fascia)
- 10. Parking brake switch E35 (with CVT) (view with instrument lower cover LH removed)
- 2. IPDM E/R E17, E18, E201, F10
- 5. BCM M17, M18, M19, M21 (view with instrument panel removed)
- Oil pressure switch F41 (QR25DE) (view with engine removed)
- Parking brake switch M73 (with M/T) (view with center console removed)
- 3. ECM E10
- ABS actuator and electric unit (control unit) E26
- Oil pressure switch F41 (VQ35DE) (view with engine removed)
- 12. Fuel level sensor unit and fuel pump (fuel level sensor) B42 (view with rear seat and inspection hole cover removed)

WARNING LAMPS/INDICATOR LAMPS: Component Description

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-38, "Description".
BCM	Transmits the oil pressure switch signal received from IPDM E/R via CAN communication to the combination meter via CAN communication.

INFORMATION DISPLAY

INFORMATION DISPLAY: System Diagram

INFOID:0000000006392908 Ambient sensor IPDM E/R Washer level switch Ambient sensor signal Washer level switch signal Trunk lamp switch and release solenoid Trunk switch signal Door switch signal Door switch Informatior display Parking brake switch signal Fuel level sensor unit Parking brake switch

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METER SYSTEM

< SYSTEM DESCRIPTION >

INFORMATION DISPLAY: System Description

INFOID:0000000006392909

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, check tire pressure)

OUTSIDE AIR TEMPERATURE INDICATION

The outside air temperature indication is displayed while the ignition switch is in the ON position.

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

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

MPG

Average fuel consumption indication is calculated using vehicle speed signal from the ABS actuator and electric 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 signal from the ABS actuator and electric 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 signal from the ABS actuator and electric 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 INDICATOR

The cruise indicator message is displayed when the cruise control main switch is turned on. The ECM provides an ASCD ON signal to the combination meter (unified meter control unit) via CAN communication lines.

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.

CHECK TIRE PRESSURE WARNING

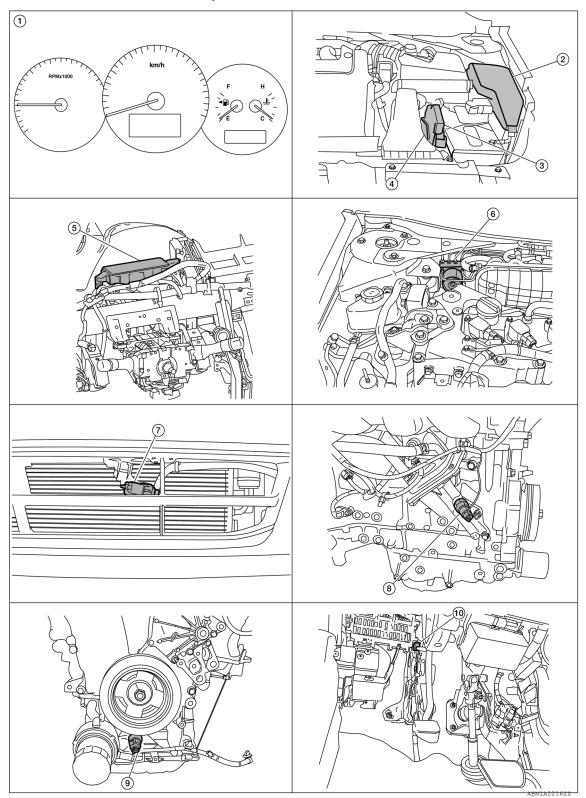
METER SYSTEM

< SYSTEM DESCRIPTION >

The CHECK TIRE PRESSURE indicator will display in the information display when BCM has detected a low tire pressure condition.

INFORMATION DISPLAY: Component Parts Location

INFOID:0000000006392910



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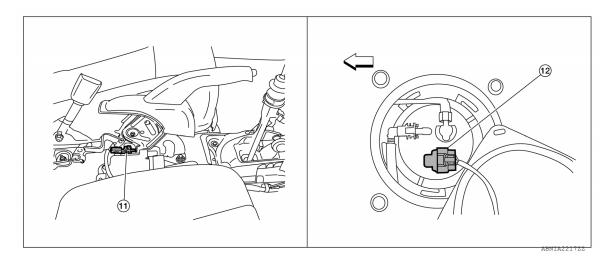
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- 1. Combination meter M24
- 4. TCM F16 (with CVT)
- 7. Ambient sensor E211 (view of front bumper fascia)
- Parking brake switch E35 (with CVT) (view with instrument lower cover LH removed)
- 2. IPDM E/R E17, E18, E201, F10
- 5. BCM M17, M18, M19, M21 (view with instrument panel removed)
- 8. Oil pressure switch F41 (QR25DE) (view with engine removed)
- 11. Parking brake switch M73 (with M/T) (view with center console removed)
- 3. ECM E10
- 6. ABS actuator and electric unit (control unit) E26
- Oil pressure switch F41 (VQ35DE) (view with engine removed)
- Fuel level sensor unit and fuel pump (fuel level sensor) B42 (view with rear seat and inspection hole cover 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-36, "Description".		
	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-40, "Description".		
Door switch	Transmits the door switch signals to BCM.		
Trunk lamp switch and trunk re- lease 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.		

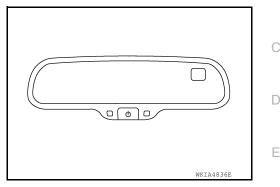
COMPASS

Description INFOID:0000000006392912

DESCRIPTION

With the ignition switch in the ON position, and the mode 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

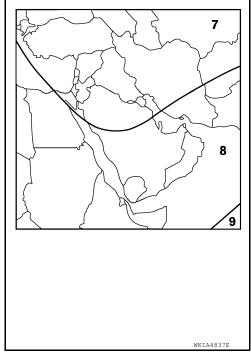


ZONE VARIATION SETTING PROCEDURE

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.

- 1. Determine your location on the zone map.
- 2. Turn the ignition switch to the ON position.
- 3. Press and hold the mode switch for about 11 seconds. The current zone number will appear in the display.
- 4. Press the mode switch repeatedly until the desired zone number appears in the display.

Once the desired zone number is displayed, stop pressing the mode switch and the display will show a compass direction after a few seconds.



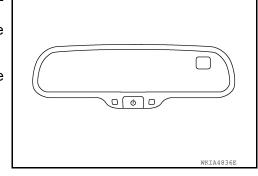
CALIBRATION PROCEDURE

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

- Press and hold the mode switch for about 13 seconds. The display will read "CAL".
- 2. 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.



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DIAGNOSIS SYSTEM (METER)

Diagnosis Description

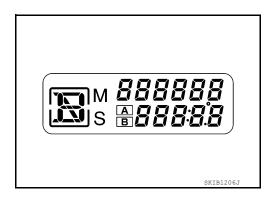
INFOID:0000000006392913

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

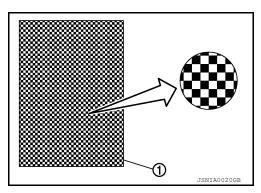
- 1. Turn the ignition switch OFF.
- 2. While pushing the odo/trip meter switch, turn the ignition switch ON again.
- 3. Push the odo/trip meter switch at least 3 times within 7 seconds after the ignition switch is turned ON.
- 4. The unified meter control unit is turned to self-diagnosis mode.
 - All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



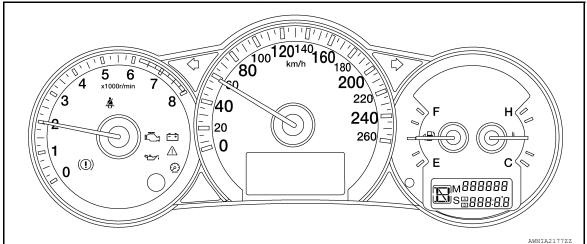
Dots in all segments of information display LCD (1) flash alternately.

NOTE:

If any of the segments are not displayed, replace the combination meter. Refer to MWI-139, "Removal and Installation".



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



CONSULT Function (METER/M&A)

INFOID:0000000006392914

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

DIAGNOSIS SYSTEM (METER)

< SYSTEM DESCRIPTION >

METER/M&A diagnosis mode	Description
SELF DIAGNOSTIC RESULT	Displays combination meter self-diagnosis results.
DATA MONITOR	Displays combination meter input/output data in real time.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.

SELF-DIAG RESULTS

Display Item List

Refer to MWI-47, "DTC Index".

DATA MONITOR

Display Item List

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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	X	Displays the value of engine speed signal, which is input from ECM.	G
FUEL METER [lit.]	Х	х	Displays the value, which processes a resistance signal from fuel gauge.	- - H
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.	- 1
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.*	J
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]		X	Displays [ON/OFF] condition of CRUISE indicator.	
SET IND [ON/OFF]		X	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.	M
WASHER W/L [ON/OFF]		X	Displays [ON/OFF] condition of low-washer fluid warning lamp.	
AIR PRES W/L [ON/OFF]		X	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		X	Displays the value of Intelligent Key system message indication.	=
SHIFT IND [P, R, N, D, L]		X	Displays [P, R, N, D, L] range position of CVT.	
M RANGE SW [ON/OFF]		X	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]		X	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.	

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DIAGNOSIS SYSTEM (METER)

< SYSTEM DESCRIPTION >

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.	
TPMS PRESS L [ON/OFF]		Х	Displays [ON/OFF] condition of check tire pressure indicator.	

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

DTC U1000 CAN COMMUNICATION

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

DTC U1000 CAN COMMUNICATION

DTC Logic

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:0000000006392916

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

1. CHECK CAN COMMUNICATION

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

>> Go to "LAN system". Refer to LAN-15. "Trouble Diagnosis Flow Chart".

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DTC B2205 VEHICLE SPEED CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC B2205 VEHICLE SPEED CIRCUIT

Description INFOID:000000006392917

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

DTC Logic

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

Diagnosis Procedure

INFOID:0000000006392919

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

1. CHECK COMBINATION METER INPUT SIGNAL

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

OK or NG

- OK >> Perform ABS actuator and electric unit (control unit) self-diagnosis. Refer to <u>BRC-15</u>, "<u>CONSULT Function (ABS)</u>" (with ABS), <u>BRC-81</u>, "<u>CONSULT Function (ABS)</u>" (with TCS/ABS) or <u>BRC-158</u>, "<u>CONSULT Function (ABS)</u>" (with VDC/TCS/ABS).
- NG >> Replace combination meter. Refer to MWI-139, "Removal and Installation".

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT COMBINATION METER

INFOID:0000000006392920

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COMBINATION METER : Diagnosis Procedure

Regarding Wiring Diagram information, refer to MWI-92, "Wiring Diagram - Coupe" or MWI-108, "Wiring Diagram - Sedan".

1. CHECK FUSES

Check for blown combination meter fuses.

Unit	Power source	Fuse No.
	Battery	11
Combination meter	Ignition switch ON or START	4
	Ignition switch ACC or ON	19

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

- 1. Disconnect combination meter connector.
- 2. Check voltage between combination meter harness connector M24 terminals 1, 2, 14 and ground.

Terminals		Ignition switch position				
(+)		(–)	OFF	ACC	ON	START
Connector	Terminal	()	• • •	7.00	OIT	0174111
	1		Battery voltage	Battery voltage	Battery voltage	Battery voltage
M24	2	Ground	0V	0V	Battery voltage	Battery voltage
	14		0V	Battery voltage	Battery voltage	Battery voltage

Is the inspection result normal?

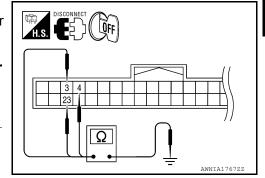
YES >> GO TO 3

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

3.GROUND CIRCUIT CHECK

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

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



Is the inspection result normal?

YES >> Inspection End.

NO >> Check ground harness.

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE): Diagnosis Procedure

INFOID:0000000006921708

Regarding Wiring Diagram information, refer to <u>BCS-70, "Wiring Diagram - Coupe"</u> or <u>BCS-79, "Wiring Diagram - Sedan"</u>.

1. CHECK FUSE AND FUSIBLE LINK

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

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

Is the fuse or fusible link blown?

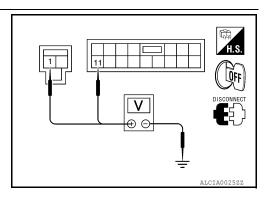
YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2

$2.\,$ CHECK POWER SUPPLY CIRCUIT

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

(+)	(-)	Voltage
В	СМ		(Approx.)
Connector	Terminal	Ground	
M16	1	Ground	Battery voltage
M17	11		Dattery Voltage



Is the measurement normal?

YES >> GO TO 3

NO >> Repair or replace harness.

$oldsymbol{3}$. CHECK GROUND CIRCUIT

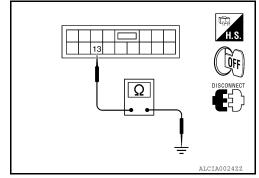
Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M17	13		Yes

Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace harness.



INFOID:0000000006921709

BCM (BODY CONTROL MODULE): Special Repair Requirement

1. REQUIRED WORK WHEN REPLACING BCM

Initialize control unit. Refer to <u>BCS-3</u>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement".

>> Work End.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

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

Regarding Wiring Diagram information, refer to <u>PCS-31, "Wiring Diagram - Coupe"</u> or <u>PCS-37, "Wiring Diagram - Sedan"</u>.

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?

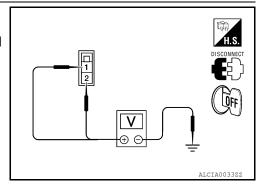
YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2

2. CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect IPDM E/R connectors.
- Check voltage between IPDM E/R harness connector and ground.

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



Is the measurement value normal?

YES >> GO TO 3

NO >> Repair harness or connector.

3. CHECK GROUND CIRCUIT

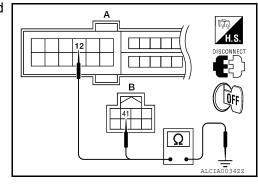
Check continuity between IPDM E/R harness connectors and ground.

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

Does continuity exist?

YES >> Inspection End.

NO >> Repair harness or connector.



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FUEL LEVEL SENSOR SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

FUEL LEVEL SENSOR SIGNAL CIRCUIT

Description INFOID:000000006392924

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:0000000006392925

1. COMBINATION METER INPUT SIGNAL

- Select "METER/M&A" on CONSULT.
- 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-139, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000006392926

Regarding Wiring Diagram information, refer to MWI-92, "Wiring Diagram - Coupe" or MWI-108, "Wiring Diagram - Sedan".

1. CHECK HARNESS CONNECTOR

- 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

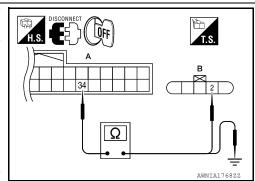
NO >> Repair or replace terminals or connectors.

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).

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

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



FUEL LEVEL SENSOR SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Α			Continuity
Connector	Terminal	Ground	Continuity
M24	34		No

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair harness or connector.

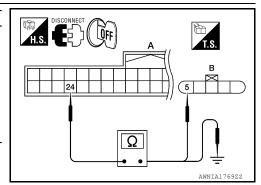
3.check fuel level sensor unit ground circuit

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

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

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

А			Continuity
Connector	Terminal	Ground	Continuity
M24	24		No



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Is the inspection result normal?

YES >> GO TO 4

NO >> Repair harness or connector.

4. CHECK INSTALLATION CONDITION

Check fuel level sensor unit 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.CHECK FUEL LEVEL SENSOR UNIT AND FUEL PUMP

Check the resistance between terminals 2 and 5.

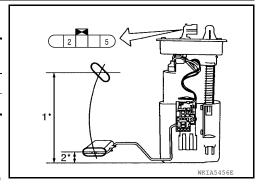
Terr	minal	Float position mm (in)			Resistance value (Approx.)
2	5	1*	Full (1)	155.4 (6.1)	6Ω
2	3	2*	Empty (2)	22.9 (0.9)	80Ω

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".



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OIL PRESSURE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

OIL PRESSURE SWITCH SIGNAL CIRCUIT

Description INFOID:000000006392928

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

Component Function Check

INFOID:0000000006392929

1. COMBINATION METER INPUT SIGNAL

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Refer to MWI-38, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000006392930

Regarding Wiring Diagram information, refer to MWI-92, "Wiring Diagram - Coupe" or MWI-108, "Wiring Diagram - Sedan".

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 terminal 75 and oil pressure switch harness connector F41 terminal 1.

Continuity should exist.

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

Continuity should not exist.

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair harness or connector.

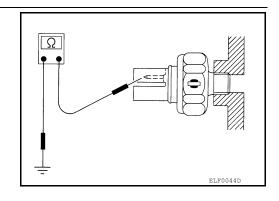
Component Inspection

INFOID:0000000006392931

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



OIL PRESSURE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

YES >> Inspection End.

NO >> Replace the oil pressure switch.

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PARKING BRAKE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

PARKING BRAKE SWITCH SIGNAL CIRCUIT

Description INFOID:000000006392932

Transmits the parking brake switch signal to the combination meter.

Component Function Check

INFOID:0000000006392933

1.COMBINATION METER INPUT SIGNAL

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

PKB SW

Parking brake depressed : ON
Parking brake released : OFF

Is the inspection result normal?

YES >> Inspection End.

NO >> Refer to MWI-40. "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000006392934

Regarding Wiring Diagram information, refer to MWI-92, "Wiring Diagram - Coupe" or MWI-108, "Wiring Diagram - Sedan".

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 M73 (B) (with M/T) or E35 (B) (with CVT) terminal 1.

26 - 1 : Continuity should exist.

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

26 - Ground : Continuity should not exist.

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Is the inspection result normal?

YES >> Inspection End.

NO >> Repair harness or connector.

Component Inspection

INFOID:0000000006392935

1. CHECK PARKING BRAKE SWITCH

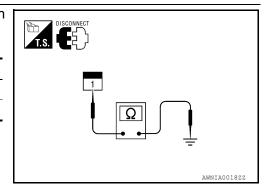
Check continuity between parking brake switch terminal 1 and switch case ground.

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace parking brake switch.



WASHER LEVEL SWITCH SIGNAL CIRCUIT < DTC/CIRCUIT DIAGNOSIS > WASHER LEVEL SWITCH SIGNAL CIRCUIT Α Description INFOID:0000000006392936 Transmits the washer level switch signal to the combination meter. Component Function Check INFOID:0000000006392937 1. COMBINATION METER INPUT SIGNAL Select "METER/M&A" on CONSULT. Monitor "WASHER W/L" of "DATA MONITOR" under the following conditions. D WASHER W/L Washer fluid level low : ON Е Washer fluid level other : OFF Is the inspection result normal? YES >> Inspection End. >> Refer to MWI-41, "Diagnosis Procedure". NO Diagnosis Procedure INFOID:0000000006392938 Regarding Wiring Diagram information, refer to MWI-92, "Wiring Diagram - Coupe" or MWI-108, "Wiring Diagram - Sedan". Н 1. CHECK WASHER LEVEL SWITCH SIGNAL CIRCUIT Turn ignition switch OFF. Disconnect combination meter connector and washer level switch connector. Check continuity between combination meter harness connector M24 terminal 29 and washer level switch harness connector E208 terminal 1. 29 - 1 : Continuity should exist. K Check continuity between combination meter harness connector M24 terminal 29 and ground. 29 - Ground : Continuity should not exist. Is the inspection result normal? YES >> GO TO 2 NO >> Repair harness or connector. M 2.CHECK WASHER LEVEL SWITCH GROUND CIRCUIT Check continuity between washer fluid level switch harness connector E208 terminal 2 and ground. MWI 2 - Ground : Continuity should exist.

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair harness or connector.

Component Inspection

1. CHECK WASHER FLUID LEVEL SWITCH

Revision: June 2012 MWI-41 2011 Altima GCC

INFOID:0000000006392939

WASHER LEVEL SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

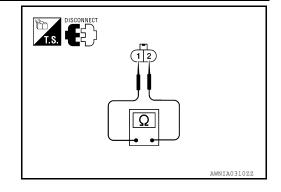
Check continuity between washer level switch terminals 1 and 2.

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace washer level switch.



AMBIENT SENSOR SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

AMBIENT SENSOR SIGNAL CIRCUIT

Description INFOID:0000000006392940

Transmits the ambient sensor signal to the combination meter.

Component Function Check

INFOID:0000000006392941

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1. COMBINATION METER INPUT SIGNAL

- 1. Select "METER/M&A" on CONSULT.
- 2. Using "OUTSIDE TEMP" on "DATA MONITOR", compare the value of DATA MONITOR with 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-139, "Removal and Installation".

Diagnosis Procedure

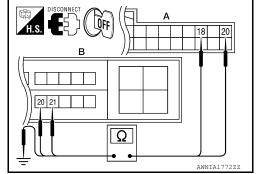
INFOID:0000000006392942

Regarding Wiring Diagram information, refer to MWI-92, "Wiring Diagram - Coupe" or MWI-108, "Wiring Diagram - Sedan".

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.

Α		В		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M24	18	E18	21	Yes	
IVIZT	20	LIO	20	163	



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

А			Continuity
Connector	Terminal	Ground -	Continuity
M24	18		No
	20		

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

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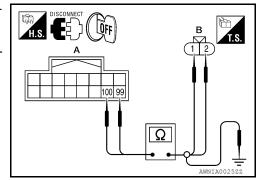
Revision: June 2012 MWI-43 2011 Altima GCC

AMBIENT SENSOR SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

- Disconnect IPDM E/R connector E201 and ambient sensor connector E211.
- 2. 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
E201	99	E211	2	Yes
L201	100	LZII	1	165



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

А			Continuity
Connector	Terminal	Ground	Continuity
E201	99		No
	100		

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-45, "Removal and Installation".

NO >> Repair harness or connector.

Component Inspection & Special Repair Requirement

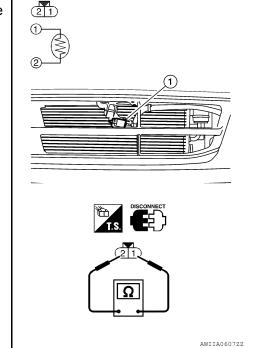
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COMPONENT INSPECTION

Ambient Sensor

After disconnecting ambient sensor (1) harness connector E1, measure resistance between terminals 2 and 1 at sensor side, using the table below.

Temperature °C (°F)	Resistance kΩ
-15 (5)	12.73
-10 (14)	9.92
-5 (23)	7.80
0 (32)	6.19
5 (41)	4.95
10 (50)	3.99
15 (59)	3.24
20 (68)	2.65
25 (77)	2.19
30 (86)	1.81
35 (95)	1.51
40 (104)	1.27
45 (113)	1.07
	•



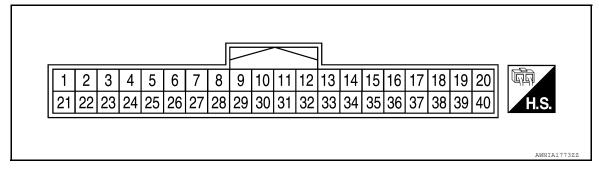
If NG, replace ambient sensor. Refer to <u>HA-40, "Removal and Installation"</u>.

ECU DIAGNOSIS INFORMATION

COMBINATION METER

Reference Value

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)	_	_	Ü	
10	O/L	Mode switch ground	ON	_	0	
11	L /D	Made quitab A	ON	Switch pressed	0	
11	L/R	Mode switch A	ON	Switch released	5	
40	D/D	Mada suitala D		Switch pressed	0	
12	B/R	Mode switch B	ON	Switch released	5	
14	V/Y	Ignition switch ACC or ON	ON	_	Battery voltage	
45	DDAM	Air bag warning lamp in-	ON	Air bag warning lamp ON	3	
15	BR/W	put	ON	Air bag warning lamp OFF	0	
16	G/W	Water temperature output	ON	At idle [after warming up, approx. 80°C (176°F)] NOTE: The wave forms vary depending on coolant temperature.	(V) 6 4 2 0 + 200 ms	
47	DAM	AO DD OUT	ON	Signal ON	0	
17	R/W	AC PD CUT	ON	Signal OFF	5	
18	O/B	Ambient sensor signal	ON	_	0 - 5 (Based on ambient temperature)	
19	Р	Ambient sensor power (with auto A/C)	ON	_	5	
20	B/Y	Ambient sensor ground	ON	_	0	
21	L	CAN-H	_	_	-	
22	Р	CAN-L	_	_	_	

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< ECU DIAGNOSIS INFORMATION >

				Condition	
Termi- nal	Wire color	Item	Ignition switch	Operation or condition	Reference value (V) (Approx.)
23	В	Ground (Circuit)	_	_	0
24	B/W	Fuel level sensor ground	ON	_	0
25	DD	Concretor	ON	Generator voltage low	0
25	25 BR	Generator	ON	Generator voltage normal	Battery voltage
26	C/D	Dayling broke evitob	ON	Parking brake depressed	0
26	G/R	Parking brake switch	ON	Parking brake released	Battery voltage
07	\/	Droke fluid level ewitch	ON	Brake fluid level low	0
27	V	Brake fluid level switch	ON	Brake fluid level normal	Battery voltage
20	1.00	Courity indicator input	OFF	Security indicator ON	0
28	L/O	Security indicator input	OFF	Security indicator OFF	Battery voltage
	Б	\\\- = b = a fl. id a a it a b	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
31	V/W	Vehicle speed signal output (8-pulse)	ON	Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)]	NOTE: Maximum voltage may be 12V due to specifications (connected units). (V) 6 4 2 0 PRICO643E
34	G/B	Fuel level sensor signal	_	_	Refer to MWI-15, "FUEL GAUGE : System Description".
35	W/B	Seat belt buckle switch	ON	Unfastened (ON)	0
33	VV/D	LH	ON	Fastened (OFF)	Battery voltage
36	L/W	Seat belt buckle switch	ON	Unfastened (ON)	0
00	L/ V V	RH	ON	Fastened (OFF)	Battery voltage
37	G	Not M range	ON	Manual mode switch OFF	0
31		Not writinge	ON	Manual mode switch ON	Battery voltage
38	BR	CVT shift down	ON	Manual mode switch ON Shift down operation	0
				Other than above	Battery voltage
39	W	CVT shift up	ON	Manual mode switch ON Shift up operation	0
				Other than above	Battery voltage
40	LG/R	M range	ON	Manual mode switch OFF	Battery voltage
+0	LG/IX	w range	ON	Manual mode switch ON	0

Fail Safe

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

< ECU DIAGNOSIS INFORMATION >

	Function	Specifications	
Speedometer			
Tachometer		Zana indication	
Fuel gauge		Zero indication.	
Engine coolant temperature g	gauge		
Illumination control	Meter illumination	Change to nighttime mode when communication is lost.	
Sagment 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.	
	Malfunction indicator lamp		
	SLIP indicator lamp		
	CVT warning lamp		
	Oil pressure warning lamp		
	Master warning lamp		
	Air bag warning lamp		
	High beam indicator		
Warning lamp/indicator lamp	Turn signal indicator lamp	Lamp turns off when communication is lost.	
	CRUISE indicator lamp		
	Intelligent Key system warning lamp		
	Speed warning lamp		
	Side and headlight indicator		
	Front fog lamp indicator		
	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 display	Malfunction	Reference page	MWI
CAN COMM CIRC [U1000]	Malfunction is detected in CAN communication. CAUTION: Even when there is no malfunction on CAN communication system, malfunction may be misinterpreted when battery has low voltage (when maintaining 7 - 8 V for about 2 seconds) or 10A fuse [No. 19, located in the fuse block (J/B)] is disconnected.	MWI-31	0
VEHICLE SPEED CIRC [B2205]	Malfunction is detected when an erroneous speed signal is input. CAUTION: Even when there is no malfunction on speed signal system, malfunction may be misinterpreted when battery has low voltage (when maintaining 7 - 8 V for about 2 seconds).	MWI-32	Р

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Revision: June 2012 MWI-47 2011 Altima GCC

[&]quot;TIME" indicates the following.

^{• 0:} Indicates that a malfunction is detected at present.

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~ I (./(.)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 V 1	

^{• 1-63:} Indicates that a malfunction was detected in the past. (Displays number of ignition switch OFF \rightarrow ON cycles after malfunction is detected. Self-diagnosis result is erased when "63" is exceeded.)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Reference Value

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VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
	Other than front wiper switch HI	OFF
FR WIPER HI	Front wiper switch HI	ON
ED WIDED LOW	Other than front wiper switch LO	OFF
FR WIPER LOW	Front wiper switch LO	ON
==	Front washer switch OFF	OFF
FR WASHER SW	Front washer switch ON	ON
ED MUDED 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 - 6	Wiper intermittent dial position
TUDNI OLONIAL D	Other than turn signal switch RH	OFF
TURN SIGNAL R	Turn signal switch RH	ON
TURNI GIONIAI I	Other than turn signal switch LH	OFF
TURN SIGNAL L	Turn signal switch LH	ON
	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
LIEAD LAMB OW 4	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
DAGGING GIA	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 500 0W	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 OW AC	Passenger door closed	OFF
DOOR SW-AS	Passenger door opened	ON
DOOD OW DD	Rear RH door closed	OFF
DOOR SW-RR	Rear RH door opened	ON
DOOD OW DI	Rear LH door closed	OFF
DOOR SW-RL	Rear LH door opened	ON
CDL LOCK OW	Other than power door lock switch LOCK	OFF
CDL LOCK SW	Power door lock switch LOCK	ON

Monitor Item	Condition	Value/Status
051 1111 001/01/	Other than power door lock switch UNLOCK	OFF
CDL UNLOCK SW	Power door lock switch UNLOCK	ON
	Other than driver door key cylinder LOCK position	OFF
KEY CYL LK-SW	Driver door key cylinder LOCK position	ON
14574 0741 1171 0744	Other than driver door key cylinder UNLOCK position	OFF
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	ON
	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
FAN ON SIG	When AUTO switch or fan switch is pressed	ON
AIR COND SW	When A/C switch is pressed	ON
TD CANCEL CW	Trunk lid opener cancel switch OFF	OFF
TR CANCEL SW	Trunk lid opener cancel switch ON	ON
TD/DD ODEN CW/	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
TRINK/HAT WINTR	Trunk lid opened	ON
DKE LOCK	When LOCK button of Intelligent Key is not pressed	OFF
RKE-LOCK	When LOCK button of Intelligent Key is pressed	ON
DVE LINI 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
RNE-TR/DD	When TRUNK OPEN button of Intelligent Key is pressed	ON
RKE-PANIC	When PANIC button of Intelligent Key is not pressed	OFF
RRE-FAINIC	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
INC-F/W OF LIN	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-INIODE 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 HOAL SENSOR	When outside of the vehicle is dark	Close to 0 V
REQ SW-DR	When driver door request switch is not pressed	OFF
NEQ 3W-DIX	When driver door request switch is pressed	ON
REQ SW-AS	When passenger door request switch is not pressed	OFF
NEQ 3W-A3	When passenger door request switch is pressed	ON
DEO SW BD/TD	When trunk request switch is not pressed	OFF
REQ SW-BD/TR	When trunk request switch is pressed	ON
PUSH SW	When engine switch (push switch) is not pressed	OFF
1 0011 000	When engine switch (push switch) is pressed	ON
IGN RLY -F/B	Ignition switch OFF or ACC	OFF
ION KLT -F/B	Ignition switch ON	ON
ACC RLY -F/B	Ignition switch OFF	OFF
AUU INLI -F/D	Ignition switch ACC or ON	ON

Monitor Item	Condition	Value/Status	
CLUTCH SW	When the clutch pedal is not depressed	OFF	P
SEO TOTT SVV	When the clutch pedal is depressed	ON	<u>=</u> 1
BRAKE SW 1	When the brake pedal is not depressed	ON	Е
SIVARL SW I	When the brake pedal is depressed	OFF	-
DETE/CANCL SW	When selector lever is in P position	OFF	-
DETE/CAINCE 3W	When selector lever is in any position other than P	ON	(
SFT PN/N SW	When selector lever is in any position other than P or N	OFF	-
OF I FIN/IN OVV	When selector lever is in P or N position	ON	
S/L -LOCK	Electronic steering column lock LOCK status	OFF	
S/L -LOCK	Electronic steering column lock UNLOCK status	ON	-
NI LINILOCK	Electronic steering column lock UNLOCK status	OFF	
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	- [
INII IZ OENI DD	Driver door UNLOCK status	OFF	-
JNLK SEN-DR	Driver door LOCK status	ON	(
	When engine switch (push switch) is not pressed	OFF	-
PUSH SW -IPDM	When engine switch (push switch) is pressed	ON	-
IGN RLY1 F/B	Ignition switch OFF or ACC	OFF	- ŀ
	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	-
OFT 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	
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	- -
OFT N. MET	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	·
NOINE OTATE	While the engine stalls	STALL	-
ENGINE STATE	At engine cranking	CRANK	
	Engine running	RUN	_ 1
2# 1 001/ 10014	Electronic steering column lock LOCK status	OFF	-
S/L LOCK-IPDM	Electronic steering column lock UNLOCK status	ON	M
0// LINII OLK IDDIA	Electronic steering column lock UNLOCK status	OFF	-
S/L UNLCK-IPDM	Electronic steering column lock LOCK status	ON	
2/L DEL AV DE 0	Ignition switch OFF or ACC	OFF	(
S/L RELAY-REQ	Ignition switch ON	ON	-
/EH SPEED 1	While driving	Equivalent to speedometer reading	F
/EH SPEED 2	While driving	Equivalent to speedometer reading	-
	Driver door LOCK status	LOCK	-
OR DOOR STATE	Wait with selective UNLOCK operation (5 seconds)	READY	-
	Driver door UNLOCK status	UNLK	-

Monitor Item	Condition	Value/Status
	Passenger door LOCK status	LOCK
AS DOOR STATE	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door UNLOCK status	UNLK
ID OK FLAG	Ignition switch ACC or ON	RESET
ID ON FLAG	Ignition switch OFF	SET
PRMT ENG STAT	When the engine start is prohibited	RESET
FRWIT LING STAT	When the engine start is permitted	SET
KEY SW -SLOT	When Intelligent Key is not inserted into key slot	OFF
KL1 3W -SLOT	When Intelligent Key is inserted into key slot	ON
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
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
ID REGST FR1	When ID of front RH tire transmitter is registered	DONE
ID REGST FRT	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
ID REGOT KLT	When ID of rear LH tire transmitter is not registered	YET
MADNING LAMP	Tire pressure indicator OFF	OFF
WARNING LAMP	Tire pressure indicator ON	ON

Terminal Layout

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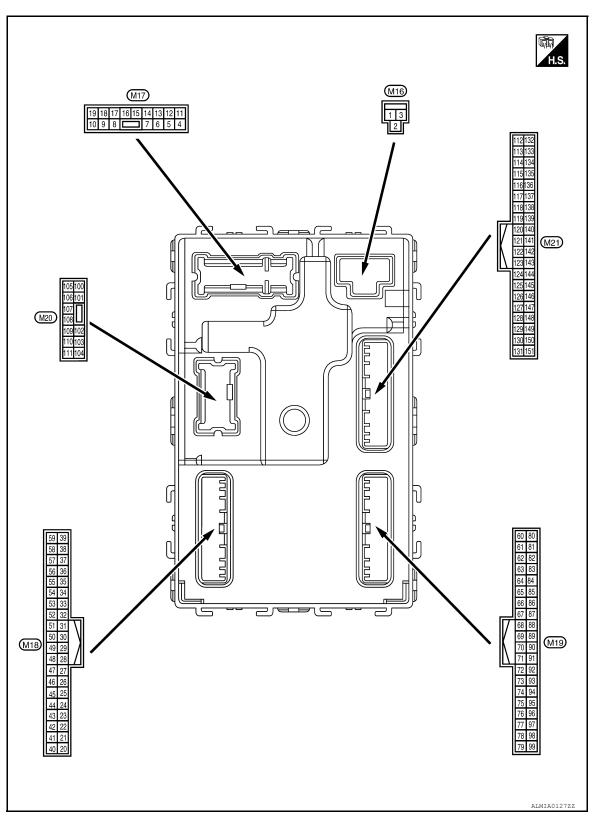
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Physical Values

Term	inal No.	Description					
	e color)	•	Input/		Condition	Value	
(+)	(-)	Signal name	Output			(Approx.)	
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage	
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OF	F	Battery voltage	
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON		Battery voltage	
4 0	Interior room lamp	Outrast	After passing the ir er operation time	nterior room lamp battery sav-	ov		
(P/W)	Ground	power supply	Output	Any other time after lamp battery save	er passing the interior room roperation time	Battery voltage	
5	0	Front door RH UN-	0.1.1.51	Front does DII	UNLOCK (actuator is activated)	Battery voltage	
(G/Y)		LOCK	Output	Front door RH	Other than UNLOCK (actuator is not activated)	ov	
7	Ground	Stan Jama	Output	Step lamp	ON	0V	
(R/W)	Ground	Step lamp	Output	Step lamp	OFF	Battery voltage	
8	Ground	All doors LOCK	Output	All doors	LOCK (actuator is activated)	Battery voltage	
(V)	Giodila	All doors LOCK	Output	ut All doors	Other than LOCK (actuator is not activated)	0V	
9	Ground	Front door LH UN-	Front door LH UN-	Output	Front door I H	UNLOCK (actuator is activated)	Battery voltage
(G)	Ground	LOCK	Output	Front door LH	Other than UNLOCK (actuator is not activated)	0V	
10 ¹		Rear door RH and	0 1 1	Output Rear door RH	UNLOCK (actuator is activated)	Battery voltage	
(G/Y)	Ground	rear door LH UN- LOCK	Output	and rear door LH	Other than UNLOCK (actuator is not activated)	ov	
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage	
13 (B)	Ground	Ground	_	Ignition switch ON		ov	
					OFF	0V	
14 ¹ (O/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 2 ms JSNIA0010GB	

Terminal No. (Wire color)		Description				Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
			-		OFF	0V
14 ⁸ (R/Y)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position (V) 10 0 2 ms
15					OFF	Battery voltage
(Y/L)	Ground	ACC indicator lamp	Output	Ignition switch	ACC	0V
					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
					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		Room lamp timer		Interior room	OFF	Battery voltage
(Y)	Ground	control	Output	lamp	ON	0V
21 (P/B)	Ground	Optical sensor signal	Input	Ignition switch	When outside of the vehi- cle is bright	Close to 5V
(1 /0)				OI4	When outside of the vehi- cle is dark	Close to 0V
22 ²	Ground	Clutch interlock	Input	Clutch interlock	OFF (clutch pedal is not depressed)	0V
(R/Y)	Siddid	switch	put	switch	ON (clutch pedal is depressed)	Battery voltage
24 (R/W)	Ground	Stop lamp switch 1	Input		_	Battery voltage
26	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (brake pedal is not depressed)	0V
(O/L)		. ,		Stop lamp switch	ON (brake pedal is depressed)	Battery voltage

Term	inal No.	Description				.,,
(Wire	e color)	Signal name	Input/		Condition	Value (Approx.)
(+)	(-)	Olgital Harric	Output			, , ,
27 (G/W)	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				When Intelligent K	ey is inserted into key slot	Battery voltage
(Y)	Ground	Key slot switch	Input		ey is not inserted into key slot	0V
30 (V/Y)	Ground	ACC feedback signal	Input	Ignition switch	OFF ACC or ON	0 Battery voltage
31		Rear window defog-		Rear window de-	OFF	0V
(G)	Ground	ger feedback signal	Input	fogger switch	ON	Battery voltage
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	OFF (when front door RH closes) ON (when front door RH	(V) 15 10 5 0 10 ms JPMIA0011GB
					opens)	OV
33 (SB)	Ground	Compressor ON signal	Input	A/C switch	OFF ON	9V - 12V 0V
34 ³		Front door lock as-		Front door lock	OFF (neutral)	Battery voltage
(L/R)	Ground	sembly LH (key cylin- der switch) (unlock)	Input	assembly LH (key cylinder switch)	ON (unlock)	0V
36 ³	Ground	Lock switch signal	Input	Door lock/unlock	Lock	Battery voltage
(GR)	Ground	Lock Switch Signal	Прис	switch	Unlock	0V
37 (O)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB
					ON	0V
38	0	Rear window defog-	lese: 1	Rear window de-	OFF	Battery voltage
(GR/ W)	Ground	ger ON signal	Input	fogger switch	ON	0V
39 ³	0	Halada - 9-5	Les et	Door lock/unlock	Unlock	Battery voltage
(GR/ R)	Ground	Unlock switch signal	Input	switch	Lock	0V

Conclude		inal No.	Description				Value	٨
Ground Power window serial link Input Ignition switch ON Input Ignition switch OFF or ACC OV		-	Signal name			Condition		А
Ignition switch OFF or ACC OV		Ground			Ignition switch ON		15 10 5 0 10 ms	С
## And Provided Receiver & Sensor ground Provided Provide					Ignition switch OF	F or ACC		
Common C	41		Engine switch (nush		Engine switch			F
Common C		Ground	switch) illumination	Output		OFF	0V	_
45 (P) Ground Receiver & sensor ground Receiver & sensor ground Receiver & sensor ground Receiver & sensor power supply output Pound Power supply output Power supply output Power Standby state 46 (V/W) Ground Receiver & sensor power supply output Power supply output Power supply output Power Standby state 47 (G/O) Ground Receiver & sensor power supply output Power supply output Power Standby state 48 (R/G) Ground Receiver P/N position signal Power P/N Power P/N Position Signal Power P/N P/N		Ground	LOCK indicator lamp	Output		ON	0V	F
Ground G					lamp OFF		Battery voltage	
Accord Ground Receiver & sensor power supply output Ignition switch Ground Ignition switch Ground Ignition switch Input Input Ignition switch Input		Ground		Input	Ignition switch ON		0V	0
47 (G/O) Ground Tire pressure receiver signal Tire pressure receiver er signal Selector lever P/N position signal (R/G) Ground Security indicator signal (L/O) Ground Security indicator signal Security indicator signal (L/O) Ground Security indicator signal Security indicator signal Security indicator signal Security indicator signal Security indicator S		Ground		Output	Ignition switch			G
47 (G/O) Ground Tire pressure receiver signal Tire pressure receiver er signal Tire pressure receiver a signal from the transmitter Tire pressure receiver a signal from the transmitter Tire pressure receiver a signal Tire	(V/W)		power supply output		J 11 11	ACC or ON	5.0V	
When receiving the signal from the transmitter When receiving the signal from the transmitter When receiving the signal from the transmitter P or N position Except P and N positions OV ON ON Security indicator signal Output Security indicator Blinking P or N position 12.0V Except P and N positions OV ON ON ON ON ON ON ON ON ON		Ground			nput/ Ignition switch Ignition switch Output ON	Standby state	6 4 2 0	I
A8 (R/G) Ground Selector lever P/N position signal Input Selector lever P or N position 12.0V Except P and N positions 0V ON OV MV	(G/O)		er signal	Output			6 4 2 0	K
(L/O) Ground Security indicator signal Output Security indicator Blinking Security indicator Blinking Security indicator Dutput Security indicator Blinking III.3V		Ground		Input	Selector lever	P or N position	12.0V	IVI
49 (L/O) Ground Security indicator signal Output Security indicator Blinking Blinking Output Security indicator Blinking	(R/G)	Ciouna	position signal	input	COICOLOI IEVEI			N/N//
49 (L/O) Ground Security indicator signal Output Security indicator Blinking Blinking 15 10 5 0 11.3V						ON	0V	IVIVVI
		Ground		Output	Security indicator	Blinking	15 10 5 0 1 s JPMIA0014GB	O P
ΔΕΕ Dotton voltage						OFF	11.3V Battery voltage	-

	inal No.	Description				Vi-L
	e color)	Signal name	Input/		Condition	Value (Approx.)
(+)	(-)		Output		All switch OFF	0V
					Lighting switch 1ST	OV
		. Combination switch			Lighting switch high-beam	(V)
50				Combination switch	Lighting switch 2ND	15
(LG/ B)	Ground	OUTPUT 5	Output	(Wiper intermit-	3 - 3	0
-,				tent dial 4)	To a character (tab DII)	
					Turn signal switch RH	2 ms JPMIA0031GB
						10.7V
					All switch OFF (Wiper intermittent dial 4)	0V
					Front wiper switch HI	
					(Wiper intermittent dial 4)	(V)
51	Ground	Combination switch OUTPUT 1	Output	Combination	Any of the conditions below with all switch OFF	15
(L/W)		OUTPUTT	·	switch	Wiper intermittent dial 1	ŏ
					Wiper intermittent dial 2Wiper intermittent dial 3	2 ms
					 Wiper intermittent dial 6 	JPMIA0032GB
					Wiper intermittent dial 7	10.7V
					All switch OFF (Wiper intermittent dial 4)	0V
			Output		Front washer switch ON	
					(Wiper intermittent dial 4)	(V) 15
52 (G/B)	Ground	Combination switch OUTPUT 2		Combination switch	Any of the conditions below	10
					with all switch OFF • Wiper intermittent dial 1	0
					Wiper intermittent dial 5	2 ms
					Wiper intermittent dial 6	
					All switch OFF	0V
					Front wiper switch INT	
50				Combination	Front wiper switch LO	(V)
53 (LG/	Ground	Combination switch OUTPUT 3	Output	switch (Wiper intermit-		10
R)		0011013		tent dial 4)	Lighting quitab ALITO	
					Lighting switch AUTO	2 ms
					All switch OFF	0V
					Front fog lamp switch ON	
				Combination	Lighting switch 2ND	(V) 15
54 (G/Y)	Ground	Combination switch OUTPUT 4	Output	switch	Lighting switch flash-to- pass	10 5 0
(G/1)		OUIFUI 4	Cutput	(Wiper intermit- tent dial 4)	ράσο	
					Turn signal switch LH	2 ms
					<u> </u>	JPMIA0035GB 10.7V
55				Front blower mo-	ON	Battery voltage
(BR/ W)	Ground	Front blower monitor	Input	tor switch	OFF	0V
,				tor switch OF		

	inal No. e color)	Description	I		• ""	Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
56 ³		Front door lock as-	_	Front door lock	OFF (neutral)	Battery voltage
(L/B)	Ground	sembly LH (key cylinder switch) (lock)	Input	assembly LH (key cylinder switch)	ON (lock)	0V
57 (W)	Ground	Tire pressure warn- ing check switch	Input		_	Battery voltage
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE)	(V) 15 10 5 0 10 ms 10 ms JPMIA0011GB
					ON (front door LH OPEN)	0V
59 (G/R)	Ground	Rear window defog- ger relay	Output	Rear window de- fogger	Active Not activated	Battery voltage 0V
. ,		· - •				•
60				When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	
	Front console antenna 2 (-)	Output	Ignition switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	
61	Cround	Center console an-	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 15 10 1
Ground Certier console and tenna 2 (+)	Output	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB		

	inal No. e color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
62		Front outside handle		When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(B/Y)	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
63	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
(LG)	Clound	RH antenna (+)	Cutput	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
64	Ground	Front outside handle	Output	When the front door LH request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(V)	Ground	LH antenna (-)	Cutput		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

	inal No.	Description				Value	Λ
(Wire (+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	А
65	Ground	Front outside handle	Output	When the front door LH request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	B C
(P)	Clound	LH antenna (+)	Cutput		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0063GB	E
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.	G
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.	Н
70 (R/B)	Ground	Ignition relay-2 control	Output	Ignition switch	OFF or ACC	0V Battery voltage	I
71	Ground	Remote keyless entry	Input/	During waiting		(V) 15 0 0 1 ms JMKIA0064GB	J K L
(L/O)	(L/O) Ground receiver signal	Output	When operating e	ither button on Intelligent Key	(V) 15 10 1 ms JMKIA0065GB	MW	

	ninal No.	Description				Value
(Wir	(-)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 2 ms JPMIA0041GB 1.4V
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 2 ms JPMIA0040GB

	inal No.	Description				Value	Λ
(Wire (+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 JPMIA0041GB 1.4V	B C D
76 (R/G) Grou					Lighting switch high-beam (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms	E
	Ground	Combination switch INPUT 3	Input	Combination switch		1.3V	G
					Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0	Н
						1.3V JPMIA0037GB	J
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	15 10 5 0	K
						JPMIA0040GB 1.3V	L
77 (BR)	Ground	Engine switch (push switch)	Input	Engine switch (push switch)	Pressed Not pressed	0V Battery voltage	
78 (P)	Ground	CAN-L	Input/ Output	,		—	M
79 (L)	Ground	CAN-H	Input/ Output		_	_	MV
(=)			Output		OFF	0V	
80 (R/L)		Key slot illumination	Output	Key slot illumina- tion	Blinking	(V) 15 10 5 0 1 s	O
						6.5V	
					ON	Battery voltage	

	inal No. e color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
81 (LG)	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC	Battery voltage
					ON OFF	0V 0V
83 (L)	Ground	ACC relay control	Output	Ignition switch	ACC or ON	Battery voltage
84 ⁵ (Y/R)	Ground	CVT shift selector	Output			Battery voltage
85		Electronic steering		Electronic steer-	Lock status	0V
(L/O)	Ground	column lock condition No. 1	Input	ing column lock	Unlock status	Battery voltage
86	0	Electronic steering	1(Electronic steer-	Lock status	Battery voltage
(G/R)	Ground	column lock condition No. 2	Input	ing column lock	Unlock status	0V
87 ⁵	Ground	Selector lever P posi-	Input	Selector lever	P position	0V
(G/B)	Crodina	tion switch	mpar	00.00.01 1070.	Any position other than P	Battery voltage
					ON (pressed)	0V
88 (P/L)	Ground	Front door RH request switch	Input	Front door RH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
89 (B/W)	Ground	Front door LH request switch	Input	Front door LH request switch	ON (pressed) OFF (not pressed)	0V (V) 15 10 5 0
					255 400	1.0V
90 (Y)	Ground	Blower fan motor re- lay control	Output	Ignition switch	OFF or ACC	0V Battery voltage
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	F	Battery voltage
94	_	Electronic steering			OFF or ACC	Battery voltage
(G/Y)	Ground	column lock power supply	Output	Ignition switch	ON	0V

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	inal No.	Description				Value	Λ
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB	B C D
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB	E
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	G H
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V	J K
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB	MV

Р

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
	.,		·		All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
96	Ground	Combination switch	Input	Combination	Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 2 ms JPMIA0038GB 1.3V
(P/B)				switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 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

	inal No.	Description				Value	Α
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V	В
					Lighting switch flash-to- pass	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V	E
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	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 1.3V	MW
					Pressed	0 V	0
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 5 0 10 ms 10 ms JPMIA0012GB	Ρ

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

Terminal No. (Wire color)		Description				Value	
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	В
115 (W) Groun	Ground	Trunk room antenna 1 (+)	Output	ut Ignition switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 S JMKIA0063GB	E
118 (L/O) Ground Rear bumper antenna (-) Rear bumper antenna (-) Output lid request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	H				
	Ground		Output	is operated with ignition switch	When Intelligent Key is not in the antenna detection area	(V) 15 10 1 1 1 1 1 1 1 1 1 1	J
119		Rear bumper anten-		When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	IV M\
(BR/ G W)	Ground	na (+)	Output	is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 1 s JMKIA0063GB	P

Terminal No.		Description				Value	
	e color)	Signal name	Input/	Condition		Value (Approx.)	
(+) 127	(-)		Output		OFF or ACC	Battery voltage	
(BR/	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch			
W)		E/K) COHIIO			ON	0V	
130 (Y/G)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (trunk is closed)	(V) 15 10 5 0 10 ms 11.8V	
					ON (trunk is open)	0V	
		Starter motor relay control	Output	Ignition switch OFF (M/T vehi- cle)	When the clutch pedal is depressed	Battery voltage	
					When the clutch pedal is not depressed	0V	
132 (R)	Ground			Ignition switch ON (other than M/ T vehicle)	When selector lever is in P or N position and the brake is depressed	Battery voltage	
					When selector lever is in P or N position and the brake is not depressed	0V	
					ON (pressed)	0V	
141 (G/R)	Ground	Trunk request switch	Input	Trunk request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB	
144	Request switch buzz-		0	Request switch	Sounding	0V	
(GR)	Ground	er	Output	buzzer	Not sounding	Battery voltage	
147	Ground	Trunk lid opener	Input	Trunk lid opener switch	Pressed	0V	
(L/R)	Ground	switch	трас		Not pressed	Battery voltage	
148 ¹ (R/W)	Ground	Rear door RH switch	Input	Rear door RH switch	OFF (when rear door RH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB	
					ON (when rear door RH opens)	0V	

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Terminal No. (Wire color) (+) (-)		Description				Value
		Signal name	Input/ Output			(Approx.)
149 ¹ (R/B)	Ground	Rear door LH switch	Input	Rear door LH switch	OFF (when rear door LH closes) ON (when rear door LH opens)	(V) 15 10 10 10 ms JPMIA0011GB 11.8V

- 1: Sedan only
- 2: M/T only
- 3: With LH front window anti-pinch
- 4: With LH and RH front window anti-pinch.
- 5: CVT only
- 6: With auto lights
- 7: With low tire pressure warning system
- 8: Coupe only

Fail Safe

Display contents of CONSULT	Fail-safe	Cancellation	
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC	I
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC	
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC	J
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC	
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC	17
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC	K
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	L
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	M
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	MV
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) 	0
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 /h or more 	Р

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Display contents of CONSULT	Fail-safe	Cancellation
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 P/N position signal: Except P and N positions (0 V)
B2604: PNP SW	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 P/N position 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 P/N position signal: Except P and N positions (0 V) P range signal and N range signal (CAN): OFF
B2605: PNP SW	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 P/N position signal: Except P and N positions (0 V) - Interlock/transmission switch signal (CAN): OFF • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: P or N position (battery voltage) - transmission 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)
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

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Display contents of CONSULT	Fail-safe	Cancellation
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 supply output control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E1: ENG STATE NO RECIV	Inhibit engine cranking	When any of the following conditions is fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B26E8: CLUTCH SW	Inhibit engine cranking	When any of the following BCM recognition conditions are fulfilled Status 1 Clutch switch signal (CAN from ECM): ON Clutch interlock switch signal: OFF (0 V) Status 2 Clutch switch signal (CAN from ECM): OFF Clutch interlock switch signal: OFF (Battery voltage)
B26E9: S/L STATUS	Inhibit engine cranking Inhibit electronic steering column lock	When BCM transmits the LOCK request signal to the steering lock unit and receives LOCK response signal from steering lock unit, the following conditions are fulfilled • Steering condition No 1 signal: LOCK (0V) • Steering condition No 2 signal: LOCK (Battery voltage)

DTC Inspection Priority Chart

INFOID:0000000006921716

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

Priority	DTC
1	B2562: LOW 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 B2195: ANTI SCANNING

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Priority	DTC
4	B2013: ID DISCORD BCM-S/L B2014: CHAIN OF S/L-BCM B2553: IGNITION RELAY B2555: STOP LAMP B2555: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSITION B2603: SHIFT POSITION B2604: PNP SW B2605: PNP SW B2606: S/L RELAY B2607: S/L RELAY B2607: S/L RELAY B2608: STARTER RELAY B2608: STARTER RELAY B2608: STARTER RELAY B2609: SIESTING LOCK UNIT B2600: STEERING LOCK UNIT B2600: STEERING LOCK UNIT B2600: STEERING LOCK UNIT B2601: S/L STATUS B2612: S/L STATUS B2612: S/L STATUS B2614: ACC RELAY B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2616: IGN RELAY CIRC B2616: BCM B2619: BCM B2619: BCM B2619: BCM B2619: BCM B2611: VEHICLE TYPE B2628: CLUTCH SW B2628: KEY REGISTRATION C 1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG
5	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] FR C1711: [NO DATA] RR C1711: [NO DATA] RR C1712: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1716: [PRESSDATA ERR] FR C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1719: [CODE ERR] FR C1720: [CODE ERR] FR C1721: [CODE ERR] RR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FL C1726: [BATT VOLT LOW] FR C1727: [BATT VOLT LOW] RR
6	B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA

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DTC Index INFOID:0000000006921717

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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 \rightarrow ON again.
- 1 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1 \rightarrow 2 \rightarrow 3...38 \rightarrow 39 after returning to the normal condition whenever ignition switch OFF \rightarrow ON. The counter remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch $OFF \rightarrow ON$ 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.	_	_	-	_	I
U1000: CAN COMM CIRCUIT	_	_	_	BCS-32	
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-33	-
U0415: VEHICLE SPEED SIG	_	_	_	BCS-34	-
B2013: ID DISCORD BCM-S/L	×	_	_	SEC-36 (Coupe), SEC-250 (Sedan)	(
B2014: CHAIN OF S/L-BCM	×	_	_	SEC-37 (Coupe), SEC-251 (Sedan)	-
B2190: NATS ANTENNA AMP	×	_	_	SEC-65 (Coupe), SEC-281 (Sedan)	
B2191: DIFFERENCE OF KEY	×	_	_	SEC-69 (Coupe), SEC-285 (Sedan)	=
B2192: ID DISCORD BCM-ECM	×	_	_	SEC-70 (Coupe), SEC-286 (Sedan)	=
B2193: CHAIN OF BCM-ECM	×	_	_	SEC-71 (Coupe), SEC-287 (Sedan)	_
B2195: ANTI-SCANNING	_	_	_	<u>SEC-72</u>	
B2553: IGNITION RELAY	_	_	_	PCS-59	="
B2555: STOP LAMP	_	_	_	SEC-73 (Coupe), SEC-289 (Sedan)	
B2556: PUSH-BTN IGN SW	_	×	_	SEC-78 (Coupe), SEC-294 (Sedan)	
B2557: VEHICLE SPEED	×	×	_	SEC-80 (Coupe), SEC-296 (Sedan)	
B2560: STARTER CONT RELAY	×	×	_	SEC-81 (Coupe), SEC-297 (Sedan)	N
B2562: LOW VOLTAGE	_	_	_	BCS-35	
B2601: SHIFT POSITION	×	×	_	SEC-82 (Coupe), SEC-298 (Sedan)	
B2602: SHIFT POSITION	×	×		SEC-86 (Coupe), SEC-302 (Sedan)	_
B2603: SHIFT POSI STATUS	×	×	_	SEC-89 (Coupe), SEC-305 (Sedan)	-
B2604: PNP SW	×	×	_	SEC-92 (Coupe), SEC-308 (Sedan)	
B2605: PNP SW	×	×	_	SEC-94 (Coupe), SEC-310 (Sedan)	-
B2606: S/L RELAY	×	×	_	SEC-96 (Coupe), SEC-312 (Sedan)	-

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CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2607: S/L RELAY	×	×	_	SEC-97 (Coupe), SEC-313 (Sedan)
B2608: STARTER RELAY	×	×	_	SEC-99 (Coupe), SEC-315 (Sedan)
B2609: S/L STATUS	×	×	_	SEC-101 (Coupe), SEC-317 (Sedan)
B260A: IGNITION RELAY	×	×	_	PCS-61
B260B: STEERING LOCK UNIT	_	×	_	SEC-106 (Coupe), SEC-322 (Sedan)
B260C: STEERING LOCK UNIT	_	×	_	SEC-107 (Coupe), SEC-323 (Sedan)
B260D: STEERING LOCK UNIT	_	×	_	SEC-108 (Coupe), SEC-324 (Sedan)
B260F: ENG STATE SIG LOST	×	×	_	SEC-109 (Coupe), SEC-325 (Sedan)
B2611: ACC RELAY	_	_	_	PCS-62
B2612: S/L STATUS	×	×	_	SEC-110 (Coupe), SEC-331 (Sedan)
B2614: ACC RELAY CIRC	_	×	_	PCS-64
B2615: BLOWER RELAY CIRC	_	×	_	PCS-67
B2616: IGN RELAY CIRC	_	×	_	PCS-70
B2617: STARTER RELAY CIRC	×	×	_	SEC-115 (Coupe), SEC-336 (Sedan)
B2618: BCM	×	×	_	PCS-73
B2619: BCM	×	×	_	SEC-117 (Coupe), SEC-338 (Sedan)
B261A: PUSH-BTN IGN SW	_	×	_	SEC-118 (Coupe), SEC-339 (Sedan)
B261E: VEHICLE TYPE	×	× (Turn ON for 15 seconds)	_	SEC-121
B2622: INSIDE ANTENNA	_	_	_	DLK-279
B2623: INSIDE ANTENNA	_	_	_	DLK-282
B26E1: ENG STATE NO RES	×	×	_	SEC-326
B26E8: CLUTCH SW	×	×	_	<u>SEC-123</u>
B26E9: S/L STATUS	×	× (Turn ON for 15 seconds)	_	<u>SEC-125</u>
B26EA: KEY REGISTRATION	×	× (Turn ON for 15 seconds)	_	SEC-126
C1704: LOW PRESSURE FL	_	_	×	<u>WT-8</u>
C1705: LOW PRESSURE FR	_	_	×	WT-8
C1706: LOW PRESSURE RR	_	_	×	WT-8
C1707: LOW PRESSURE RL	_	_	×	WT-8
C1708: [NO DATA] FL		_	×	<u>WT-13</u>
C1709: [NO DATA] FR	_	_	×	<u>WT-13</u>
C1710: [NO DATA] RR	_	_	×	<u>WT-13</u>
C1711: [NO DATA] RL	_	_	×	<u>WT-13</u>
C1712: [CHECKSUM ERR] FL	_	_	×	<u>WT-15</u>

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CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1713: [CHECKSUM ERR] FR	_	_	×	<u>WT-15</u>
C1714: [CHECKSUM ERR] RR	_	_	×	<u>WT-15</u>
C1715: [CHECKSUM ERR] RL	_	_	×	<u>WT-15</u>
C1716: [PRESSDATA ERR] FL	_	_	×	<u>WT-17</u>
C1717: [PRESSDATA ERR] FR	_	_	×	<u>WT-17</u>
C1718: [PRESSDATA ERR] RR	_	_	×	<u>WT-17</u>
C1719: [PRESSDATA ERR] RL	_	_	×	<u>WT-17</u>
C1720: [CODE ERR] FL	_	_	×	<u>WT-15</u>
C1721: [CODE ERR] FR	_	_	×	<u>WT-15</u>
C1722: [CODE ERR] RR	_	_	×	<u>WT-15</u>
C1723: [CODE ERR] RL	_	_	×	<u>WT-15</u>
C1724: [BATT VOLT LOW] FL	_	_	×	<u>WT-15</u>
C1725: [BATT VOLT LOW] FR	_	_	×	<u>WT-15</u>
C1726: [BATT VOLT LOW] RR	_	_	×	<u>WT-15</u>
C1727: [BATT VOLT LOW] RL	_	_	×	<u>WT-15</u>
C1729: VHCL SPEED SIG ERR	_	_	×	<u>WT-18</u>
C1734: CONTROL UNIT	_	_	×	<u>WT-19</u>

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

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	(Value/Status	
RADFAN REQ	Engine idle speed	Changes depending on engine coolant temperature, air conditioner operation status, vehicle speed, etc.	0 - 100 %
		A/C switch OFF	Off
AC COMP REQ	Engine running	A/C switch ON (Compressor is operating)	On
TAU A OL D. D. D.	Lighting switch OFF		Off
TAIL&CLR REQ	Lighting switch 1ST, 2ND, HI or	AUTO (Light is illuminated)	On
HI LO DEO	Lighting switch OFF		Off
HL LO REQ	Lighting switch 2ND HI or AUTO	(Light is illuminated)	On
III III DEO	Lighting switch OFF		Off
HL HI REQ	Lighting switch HI		On
	Lighting switch 2ND or	Front fog lamp switch OFF	Off
FR FOG REQ	AUTO (Light is illuminated)	Front fog lamp switch ON	On
		Front wiper switch OFF	STOP
FR WIP REQ	Ignition switch ON	Front wiper switch INT	1LOW
FR WIP REQ		Front wiper switch LO	Low
		Front wiper switch HI	Hi
	Ignition switch ON	Front wiper stop position	STOP P
WIP AUTO STOP		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
GN RLY1 -REQ	Ignition switch OFF or ACC		Off
GN RLT I -REQ	Ignition switch ON		On
GN RLY	Ignition switch OFF or ACC		Off
GN RLY	Ignition switch ON		On
	Release the push-button ignition	switch	Off
PUSH SW	Press the push-button ignition s	witch	On
	Ignition switch ON	CVT selector lever in any position other than P or N (CVT models)	Off
INTER/NP SW		Release clutch pedal (M/T models)	
	Ignition switch ON	CVT selector lever in P or N position (CVT models)	On
		Depress clutch pedal (M/T models)	
ST RLY CONT	Ignition switch ON		Off
OT ILL CONT	At engine cranking		On
IHBT RLY -REQ	Ignition switch ON		Off
ווטו ועבו -ועבע	At engine cranking		On

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Monitor Item	Con	dition	Value/Status
	Ignition switch ON	Off	
	At engine cranking		ST →INHI
ST/INHI RLY	The status of starter relay or starter of the battery voltage malfunction, etc. starter control relay is OFF	UNKWN	
DETENT SW	Ignition switch ON	Off	
	Release the CVT selector button wi NOTE: The lever is fixed ON for M/T	On	
	None of the conditions below are pr	Off	
S/L RLY -REQ	 Open the driver door after the ign seconds) Press the push-button ignition sw ed Depress the clutch pedal when the 	On	
	Steering lock is activated		LOCK
S/L STATE	Steering lock is deactivated		UNLK
	[DTC B210A] is detected		UNKWN
OII D OW	Ignition switch OFF, ACC or engine	running	Open
OIL P SW	Ignition switch ON		Close
	Not operated		Off
THFT HRN REQ	Panic alarm is activated Horn is activated with VEHICLE SECURITY (THEFT WARNING) SYSTEM		On
LIODN CHIDD	Not operated		Off
HORN CHIRP	Door locking with Intelligent Key (ho	On	

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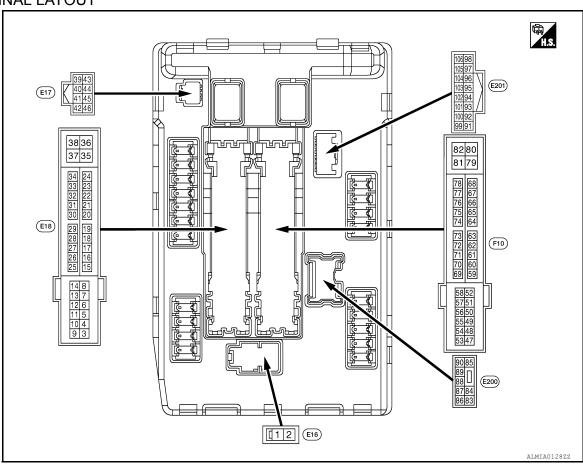
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< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal	-	Description				Value
(Wire co	lor)	Signal name	Input/ Output	Condition		(Approx.)
1 (R)	Ground	Battery power supply	Input	Ignition swi	itch OFF	Battery voltage
2 (L)	Ground	Battery power supply	Input	Ignition swi	itch OFF	Battery voltage
4	Ground	Front winer I O	Output	Ignition	Front wiper switch OFF	0 V
(LG)	Ground	Front wiper LO	Output	switch ON	Front wiper switch LO	Battery voltage
5	Ground	Front wiper HI	Output	Ignition	Front wiper switch OFF	0 V
(Y)	Giouna	Front wiper Hi	Output	switch ON	Front wiper switch HI	Battery voltage
7	Ground	Tail, license plate lamps &	Output	Ignition	Lighting switch OFF	0 V
(GR)	Giodila	interior lamps	Output	switch ON	Lighting switch 1ST	Battery voltage
10				Ignition swi (For a few s switch OFF	seconds after turning ignition	0 V
(BR)	Ground	ECM relay power supply	Output	(More that	switch ON switch OFF an a few seconds after turn- on switch OFF)	Battery voltage

Terminal		Description				Value	Λ
(Wire co	lor) –	Signal name	Input/ Output		Condition	(Approx.)	Α
		<u> </u>		Ignition switch OFF	A few seconds after opening the driver door	Battery voltage	_ В
11 (O)	Ground	Electronic steering column lock power supply	Output	Ignition switch LOCK	Press the push-button ig- nition switch	Battery voltage	C
				Ignition swi	tch ACC or ON	0 V	
12 (B)	Ground	Ground	_	Ignition swi	itch ON	0 V	
40					tely 1 second or more after ignition switch ON	0 V	 E
13 (SB)	Ground	Fuel pump power supply	Output		nately 1 second after turning on switch ON unning	Battery voltage	 F
15	0	Ignition relay-1 power sup-	0	Ignition swi	tch OFF	0 V	_ '
(W)	Ground	ply	Output	Ignition swi	itch ON	Battery voltage	
40					Front wiper stop position	0 V	(-
16 (L/Y)	Ground	Front wiper auto stop	Input	Ignition switch ON	Any position other than front wiper stop position	Battery voltage	
19	01	Ignition relay-1 power sup-	0 1: 1	Ignition swi	tch OFF	0 V	<u> </u>
(Y)	Ground	ply	Output	Ignition swi	itch ON	Battery voltage	_
20 (L)	Ground	Ambient sensor ground	_	Ignition swi	itch ON	0V	_
21 (LG)	Ground	Ambient sensor	_	Ignition swi	itch ON	5V	_
22 (W/R)	Ground	Refrigerant pressure sensor ground	_	Ignition swi	itch ON	0V	J
23 (B/R)	Ground	Refrigerant pressure sensor	_	Both A/C	switch ON (READY) switch and blower motor N (electric compressor oper-	1.0 - 4.0V	k
24 (BR/W)	Ground	Refrigerant pressure sensor power supply	_	Ignition swi	itch ON	5V	L
25	Ground	Ignition relay-1 power sup-	Output	Ignition swi	itch OFF	0 V	
(GR)	Ground	ply	Output	Ignition swi	itch ON	Battery voltage	N
27	Ground	Ignition relay monitor	Innut	Ignition swi	tch OFF or ACC	Battery voltage	
(W)	Ground	ignition relay monitor	Input	Ignition swi	tch ON	0 V	M\
28	Ground	Push-button ignition	Input	Press the p	bush-button ignition switch	0 V	IVI
(SB)	Giodila	switch	прис	Release the	e push-button ignition switch	Battery voltage	
30 (R)				CVT mod-	CVT selector lever in any position other than P or N (ignition switch ON)	0 V	C
(with M/T) 30 (BR) (with CVT)	Ground	Starter relay control	Input	J.5	CVT selector lever P or N (ignition switch ON)	Battery voltage	F
(with CVI)				M/T mod-	Release the clutch pedal	0 V	_
				els	Depress the clutch pedal	Battery voltage	

Terminal I		Description				Value
(Wire col	or) _	Signal name	Input/ Output		Condition	(Approx.)
32	Ground	Electronic steering column	Input	Electronic s	steering column lock is acti-	0 V
(O/L)	(O/L) lock u	lock unit condition-1	mput	Electronic s tivated	steering column lock is deac-	Battery voltage
33	Ground	Electronic steering column	Input	Electronic s	steering column lock is acti-	Battery voltage
(G)	Giodila	lock unit condition-2	mput	Electronic s tivated	steering column lock is deac-	0 V
34	Ground	Cooling fan relay-3 control	Input	Ignition swi	tch OFF or ACC	0 V
(O)	Ground	Cooming fair rollay C control	mpat	Ignition swi		0.7 V
35	Ground	Cooling fan motor control	Output	-	tch OFF or ACC	0 V
(P)		J		Ignition swi	tch ON	0.7 V
36 (G)	Ground	Battery power supply	Input	Ignition swi	tch OFF	Battery voltage
38	Ground	Cooling fan motor control	Output	-	tch OFF or ACC	0 V
(R/W)	0.00	ocomig ion motor control		Ignition swi	tch ON	0.7 V
39 (P)	_	CAN - L	Input/ Output		_	_
40 (L)	_	CAN - H	Input/ Output		_	_
41 (B)	Ground	Ground	_	Ignition swi	tch ON	0 V
42	Ground	Cooling fan relay-2 control	Input	Ignition switch OFF or ACC		0 V
(SB)	Cround	Gooding fair rolay 2 dontrol	mpat	Ignition swi	tch ON	0.7 V
					Press the CVT selector button (CVT selector lever P)	Battery voltage
43 (G/B)	Ground	CVT shift selector (Detention switch)	Input	Ignition switch ON	CVT selector lever in any position other than P Release the CVT selector button (CVT selector lever P)	0 V
44	One week	Hama valas santual	lanat	The horn is	deactivated	Battery voltage
G/W) coupe (W) sedan	Ground	Horn relay control	Input	The horn is	activated	0 V
45				The horn is	deactivated	Battery voltage
(L/O)	Ground	Anti theft horn relay control	Input	The horn is	activated	0 V
				CVT mod-	CVT selector lever in any position other than P or N (ignition switch ON)	0 V
46 (BR)	Ground	Ground Starter relay control	Input	CIO	CVT selector lever P or N (ignition switch ON)	Battery voltage
				M/T mod-	Release the clutch pedal	0 V
				els	Depress the clutch pedal	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

Terminal I		Description			0 1111	Value
(Wire cole	— —	Signal name	Input/ Output		Condition	(Approx.)
				Ignition swi (For a few s switch OFF	seconds after turning ignition	0 V
49 (V)	Ground	ECM relay power supply	Output	,		Battery voltage
51	Craund	lanitian ralay navyar ayanlı	Outout	Ignition swi	tch OFF	0 V
(SB)	Ground	Ignition relay power supply	Output	Ignition swi	tch ON	Battery voltage
52	Cround	lanition roley newer cumply	Output	Ignition swi	tch OFF	0 V
(Y)	Ground	Ignition relay power supply	Output	Ignition swi	tch ON	Battery voltage
53 (V) (with QR25DE)				Ignition swi (For a few s switch OFF	seconds after turning ignition	0 V
53 (G) (with VQ35DE)	Ground	ECM relay power supply	Output	`		Battery voltage
		The West of the Section of the Sectio		Ignition swi (For a few s switch OFF	seconds after turning ignition	0 V
54 (GR)	Ground	Throttle control motor re- lay power supply	Output			Battery voltage
55 (LG)	Ground	ECM power supply	Output	Ignition swi	tch OFF	Battery voltage
56	Cround	lanition roley newer cumply	Output	Ignition swi	tch OFF	0 V
(R)	Ground	Ignition relay power supply	Output	Ignition swi	tch ON	Battery voltage
57	Ground	Ignition relay power supply	Output	Ignition swi	tch OFF	0 V
(O)	Giodila	ignition relay power supply	Output	Ignition swi	tch ON	Battery voltage
58			<u> </u>	Ignition swi	tch OFF	0 V
(BR) (with CVT)	Ground	Ignition relay power supply	Output	Ignition swi	tch ON	Battery voltage
69				Ignition swi (For a few s switch OFF	seconds after turning ignition	Battery voltage
(SB)	Ground	ECM relay control	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
7.0				lanition evi	tch ON → OFF	↓ Rattery voltage
70 (G)	Ground	Throttle control motor re- lay control	Output	ignition SWI	IOI ON -> OFF	Battery voltage ↓
(-/		,				0 V
				Ignition swi	tch ON	0 - 1.0 V
72 (W) (with QR25DE)		Transmission range switch		Ignition	CVT selector lever in P or N position	Battery voltage
72 (BR) (with VQ35DE)	Ground	signal	Input	switch ON	CVT selector lever in any position other than P or N position	0 V

Termina		Description				Value	
(Wire c	- –	Signal name	Input/ Output		Condition	(Approx.)	
74	Ground	Ignition relay power supply	Output	Ignition switch OFF		0 V	
(L)		71 113	·	Ignition swi		Battery voltage	
75 (LG)	Ground	Oil pressure switch	Input	Ignition switch ON	Engine stopped Engine running	0 V Battery voltage	
				Ignition switch ON		(V) 6 4 2 0 	
76 (Y)	Ground	Power generation command signal	Output	Output	40% is set on "Active test", "ALTERNATOR DUTY" of "ENGINE"		(V) 6 4 2 0 2ms JPMIA(
				80% is set on "Active test", "ALTERNATOR DUTY" of "ENGINE"		(V) 6 4 2 0 4 2ms JPMIA(1.4 V	
77 (GR)	Ground	Fuel pump relay control	Output	Approximately 1 second after turning the ignition switch ON Engine running		0 - 1.0 V	
(3,1,)					tely 1 second or more after ignition switch ON	Battery voltage	
80 (R)	Ground	Starter motor	Output	At engine of	cranking	Battery voltage	
83	Ground	Headlamp LO (RH)	Output	Ignition	Lighting switch OFF	0 V	
(R/Y)	2.00110			switch ON	Lighting switch 2ND	Battery voltage	
84	Ground	Headlamp LO (LH)	Output	Ignition switch ON	Lighting switch OFF	0 V	
(L)					Lighting switch 2ND	Battery voltage	
86 (W/R)	Ground	Front fog lamp (RH) (If equipped)	Output	Lighting switch 2ND	Front fog lamp switch ON Front fog lamp switch OFF	Battery voltage 0 V	
97		Front fog lamp (LLI)		Lighting	Front fog lamp switch ON	Battery voltage	
87 (L/Y)	Ground	Front fog lamp (LH) (If equipped)	Output	switch 2ND	Front fog lamp switch OFF	0 V	
88 (R/W)	Ground	Washer pump power supply	Output	Ignition swi	itch ON	Battery voltage	

< ECU DIAGNOSIS INFORMATION >

Terminal	-	Description				Value	
(Wire co	lor) –	Signal name	Input/ Output		Condition	(Approx.)	
89	Ground	Headlamp HI (RH)	Output	Ignition switch ON	Lighting switch HI lighting switch PASS	Battery voltage	
(L/W)			-	SWILCH ON	Lighting switch OFF	0 V	
90	Ground	Headlamp HI (LH)	Output	Ignition	Lighting switch HI Lighting switch PASS	Battery voltage	
(G)				switch ON	Lighting switch OFF	0 V	
91	Ground	Darking James (DH)	Output	Ignition	Lighting switch 1ST	Battery voltage	
(LG/R)	Ground	Parking lamp (RH)	Output	switch ON	Lighting switch OFF	0 V	
92	Cround	Derking large (LLI)	Output	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 switch ON		0V	
100 (SB)	Ground	Ambient sensor	_	Ignition switch ON		5V	
101 (O/L)	Ground	Refrigerant pressure sensor ground	_	Ignition switch ON		0V	
102 (R/B)	Ground	Refrigerant pressure sensor	_	Ignition switch ON (READY) Both A/C switch and blower motor switch ON (electric compressor operates)		1.0 - 4.0V	
103 (P)	Ground	Refrigerant pressure sensor power supply	_	Ignition sw	itch ON	5V	

Fail Safe

CAN COMMUNICATION CONTROL

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

If No CAN Communication Is Available With ECM

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

If No CAN Communication Is Available With BCM

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.

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< ECU DIAGNOSIS INFORMATION >

Control part	Fail-safe in operation
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 unit	Steering lock relay OFF

IGNITION RELAY MALFUNCTION DETECTION FUNCTION

- IPDM E/R monitors the voltage at the contact circuit and excitation coil circuit of the ignition relay 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:

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 display	Fail-safe	TIME	NOTE	Refer to
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	×	CRNT	1 – 39	PCS-17
B2098: IGN RELAY ON	×	CRNT	1 – 39	PCS-18
B2099: IGN RELAY OFF	_	CRNT	1 – 39	PCS-19
B2108: STRG LCK RELAY ON	_	CRNT	1 – 39	<u>SEC-255</u>
B2109: STRG LCK RELAY OFF	_	CRNT	1 – 39	<u>SEC-256</u>
B210A: STRG LCK STATE SW	_	CRNT	1 – 39	<u>SEC-257</u>
B210B: START CONT RLY ON	_	CRNT	1 – 39	<u>SEC-262</u>
B210C: START CONT RLY OFF	_	CRNT	1 – 39	SEC-263

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< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	TIME	NOTE	Refer to
B210D: STARTER RELAY ON	_	CRNT	1 – 39	SEC-264
B210E: STARTER RELAY OFF	_	CRNT	1 – 39	SEC-266
B210F: INTRLCK/TRANSMISSION RANGE SW ON	_	CRNT	1 – 39	SEC-269
B2110: INTRLCK/TRANSMISSION RANGE SW OFF	_	CRNT	1 – 39	SEC-275

NOTE:

The details of TIME display are as follows.

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

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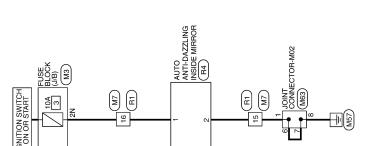
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WIRING DIAGRAM

COMPASS

Wiring Diagram - Coupe



COMPASS

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COMPASS CONNECTORS

53	Connector Name JOINT CONNECTOR-M	-UE	2 5 4 9 5 4 9 5 4 9 5 4 9 9 5 4 9 9 9 9 9	of Signal Name	I	ı	ı
o.	ame JC	olor BL	12 11 10 9	Color c Wire	В	В	М
Connector No. M63	Connector N	Connector Color BLUE	H.S.	Terminal No. Wire	-	9	7
				e e			
M7	Connector Name WIRE TO WIRE	WHITE	9 10 11 12 13 14 15 16	or of Signal Name	l B	л Б	
Connector No. M7	Connector Name	Connector Color WHITE	H.S.	Terminal No. Wire	15	16	
			l		Ι	1	
	SE BLOCK (J/B)	HTE	3N	Signal Name	1		
. M3	ame FU	olor WF	N. 18	Color o Wire	ŋ		
Connector No.	Connector Name FUSE	Connector Color WHITE	所 H.S.	Terminal No. Wire	NZ NZ		

	Signal Name	_	I	ı	ı
-	Color of Wire	В	В	В	В
	Terminal No. Wire	1	9	2	8
	Signal Name	ı	ı		
	Solor of Wire	В	ŋ		
	Terminal No. Wire	15	16		
•				_	
	Signal Name	1			
	₽ of		1		

R4	Connector Name AUTO ANTI-DAZZLING INSIDE MIRROR	BLACK	1234567
Connector No. R4	Connector Name	Connector Color BLACK	SH
	O WIRE		5 4 3 2 1 3 12 11 10 9

Signal Name

Terminal No. Wire

IGN

B/B B

						_
	WIRE TO WIRE	ш	16 15 14 13 12 11 10 9	Signal Name	_	-
Ξ		lor WHITE	8 7 16 15	Color of Wire	В	B/B
Connector No.	Connector Name	Connector Color	原列 H.S.	Terminal No.	15	16

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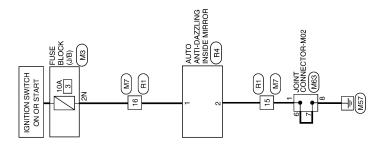
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MWI-89 Revision: June 2012 2011 Altima GCC Wiring Diagram - Sedan

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COMPASS

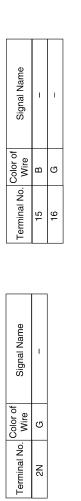
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COMPASS CONNECTORS

Connector No. M63	Connector Name JOINT CONNECTOR-M02	Connector Color BLUE
M7	WIRE TO WIRE	WHITE
Connector No.	Connector Name	Connector Color
МЗ	FUSE BLOCK (J/B)	WHITE
Connector No.	Connector Name	Connector Color

7 6 5 7 1	Signal Name	I	I	_	1
11 10 9	Color of Wire	В	В	В	В
H.S.	Terminal No. Wire	-	9	7	8

9 10 11 12 13 14 15 18 9 10 11 12 13 14 15 16	Signal Name	I	1
9 10 1	Color of Wire	В	g
H.S.	Ferminal No.	15	16



Connector No. R1 Connector Name WIRE TO WIRE Connector Name AUTO ANTI-DAZZLING Connector Color BLACK Connector Color BLACK Connector Color BLACK ALS A 2 1 1 10 9 9 1 1 10 10 9 10 10 10 10 10 10 10 10 10 10 10 10 10
WHRE TO WIRE WHITE WHITE 1
WHITE WHITE WHITE 8 7 6 5 4 3 2 1 16 15 14 13 12 11 10 9
1 1 2 1 2 1

	WIRE TO WIRE	ITE	14 13 12 11 10 9 1	Signal Name	-	_
-		lor WHITE	8 7 7 116 15	Color of Wire	В	B/R
	onnector Name	onnector Color	H.S.	erminal No.	15	16

Signal Name

Terminal No. Wire

IGN

B/R Ф

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	RE TO WIRE	WHITE	6 5 4 3 2 1 14 13 12 11 10 9	Signal Name	=	-
E	me WII		16 15	Color of Wire	В	B/R
Connector No.	Connector Name WIRE TO WIRE	Connector Color	赋词 H.S.	Terminal No.	15	16

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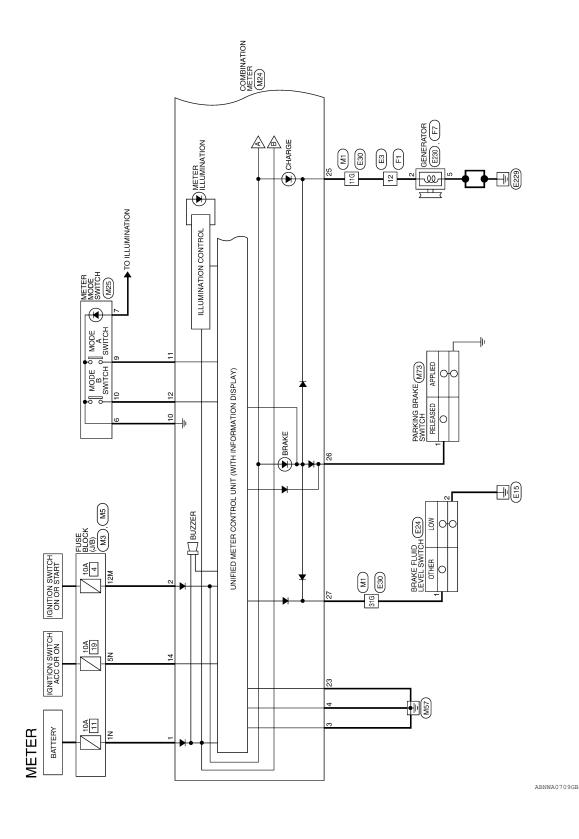
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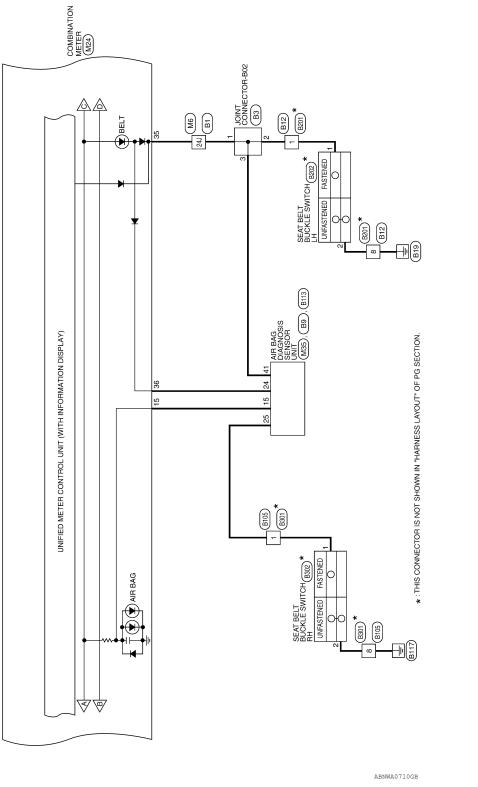
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Wiring Diagram - Coupe

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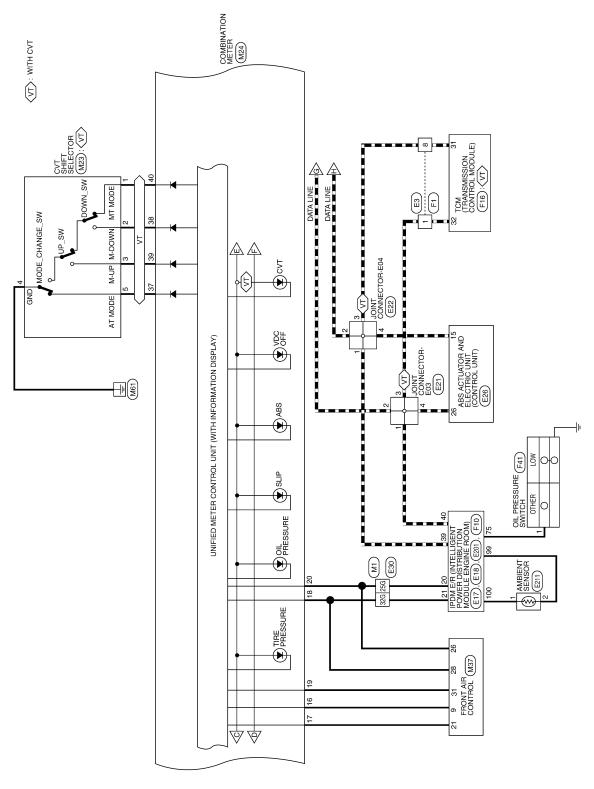
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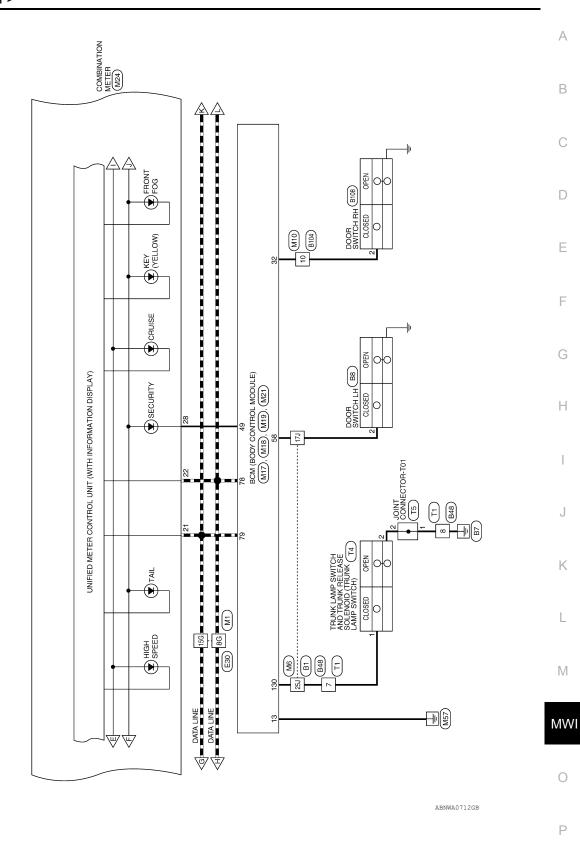
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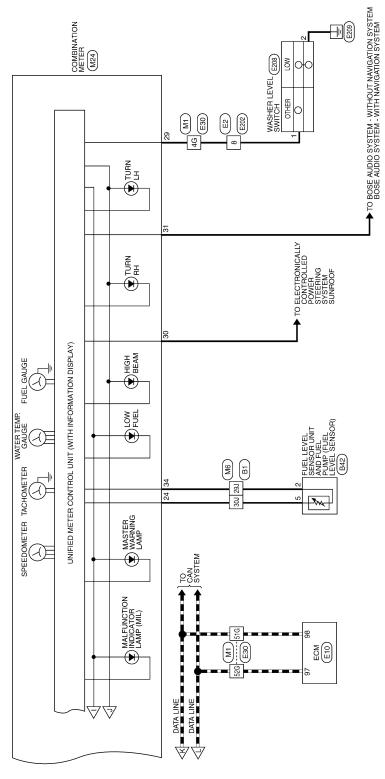
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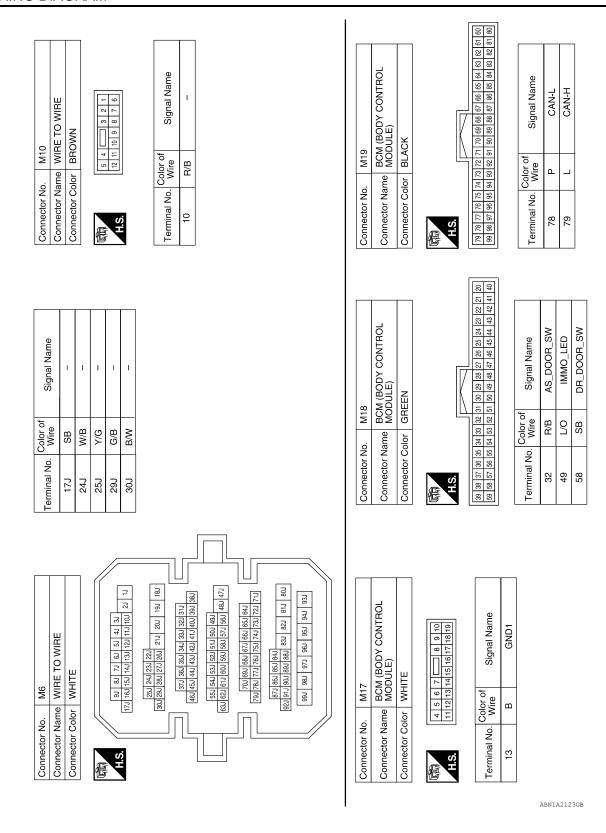
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	OCK (.I/B)				SN 5N 4N				Signal Name	1	1									(0
	M3 FUSE B	or WHITE		N.	١Ž			Color of	Wire	M/L	≥>									[)
	Connector No. M3 Connector Name FUSE BLOCK (J/B)	Connector Color WHITE			E S	1			l erminal No.	N N	Z _G									[
	8 8	8 8		E		!		_ F	<u>e</u>]												F
	lame																			(G
	Signal Name	1	1	I	1	1	1	I	1	ı										ŀ	-1
	Color of Wire	В	Ь	BR	7	B/Y	>	O/B	_	۵											ı
	Terminal No.	4G	8G	11G	15G	25G	31G	32G	51G	52G											J
									<u> </u>												
						26 16		19G 18G		[30]	650 640 650 640									ŀ	<
W	IBE	1					22G 21G 20G	29G 28G 27G 19	376 366 356	50G 49G 48G 47G 46G 45G 44G 43G 42G	580 570 586 556		OK (J/B)	ZM 1M	Signal Name	1				I	L
ECTOR!	Connector No. M1	WHITE			96 86 76 66 56 46 36	17G 16G 15G 14G 13G 12G 11G 10G	26G 25G 24G 23G 22G 21G 20G	346 336 326 316 306 296 286 276	41G 40G 39G 38G 37G 36G 35G	9G 48G 47G 46G	586 576 566 556 546 539 526		Connector No. M5 Connector Name FUSE BLOCK (J/B) Connector Color WHITE	5M 4M						<u> </u>	VI
CONNE	Connector No.	Connector Color WHITE					56	346 33		506 4	830 25 88 880 880 880 880 880 880 880 880 880		Connector No. M5 Connector Name FUSE E Connector Color WHITE	5M 12N	ర్	0 <u>N</u>				M	WI
METER CONNECTORS	Connec	Connec							L				Connec	H.S.	Terminal No.	12M				(Э
_												1					AB	NIA2122GI	3	ı	-

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CVT SHIFT SELECTOR

Connector Name Connector No.

BCM (BODY CONTROL MODULE)

Connector Name Connector Color

M21

Connector No.

GRAY

Connector Color WHITE

Signal Name MT-MODE M-DOWN

Color of Wire LG/R BB ≷ В

Terminal No.

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> Signal Name TRUNK_SW

Color of Wire Ϋ́G

Terminal No.

130

AT-MODE

M-UP GND

															_			
Signal Name	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	В	B/W	BR	G/R	^	0/1	Ж	L/B	V/W	1	1	G/B	W/B	ΓW	G	BR	W	LG/R
Terminal No.	23	24	25	26	27	28	59	30	31	32	33	34	35	36	37	38	39	40

Signal Name	1	ı	-	ı	1	GND (SATELLITE SW)	MODE A SW	MODE B SW	1	ACC	AIR/BAG	WATER TEMP OUT	A/C PD CUT	OAT	OAT POWER	GND (OAT SENSOR)	CAN-H	CAN-L
Color of Wire	ı	I	I	ļ	1	O/L	L/R	B/R	ı	Λ/Λ	BR/W	G/W	R/W	O/B	Ь	В/У	Τ	Ь
Terminal No.	5	9	2	8	6	10	11	12	13	14	15	16	11	18	19	20	21	22

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

Signal Name	BAT	IGN	GND (POWER)	(ILL)
Color of Wire	M/L	0	В	В
Terminal No. Wire	1	2	3	4

Solor WHITE	Connector Color
Vame COMBINATI	Connector Name
No. M24	Connector No.

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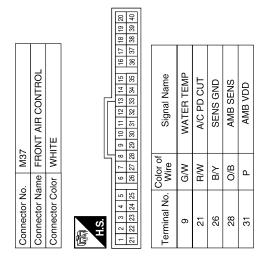
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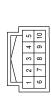
	WIRE TO WIRE	ITE	3 4 5 6 7	8 9 10 11 12 13 14 15 16	Signal Name	_	-	I
. E3		lor WHITE	1 2	8 9 1	Color of Wire	٦	Ь	ГG
Connector No.	Connector Name	Connector Color	昼	H.S.	Terminal No.	1	8	12

Connector No.	M35
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Color YELLOW	YELLOW
121 22 11	24 49 1
16 12	2 15 18 2

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

	WIRE TO WIRE	WHITE	2 6 7 8 5 6 7 8 8	Signal Name
E2	le le		<u>4</u>	Color of Wire
Connector No.	Connector Name	Connector Color	H.S.	Terminal No.

Connector No.	M25
Connector Name	Connector Name METER MODE SWITCH
Connector Color BLACK	BLACK



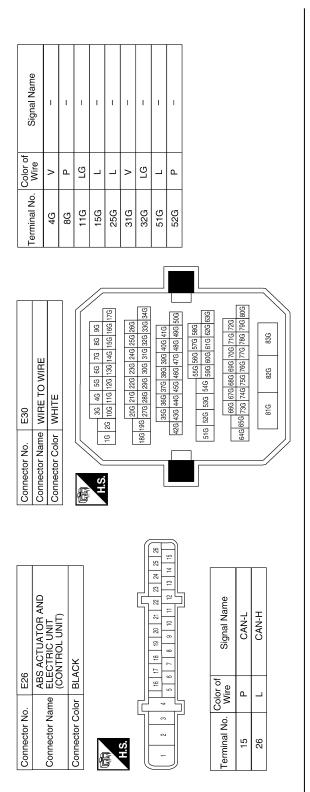
6 7 8 9 10	r of Signal Name	L GND (SATELLITE SW)	L SW ILL POWER	R MODE A SW	R MODEBSW
	Color of Wire	O/L	R/L	I/R	B/B
SH.	Terminal No.	9	7	6	10

-	r	
Connector No.). M/3	n
Connector Name	ame PA	PARKING BRAKE SWITCH
Connector Color		BLACK
Į ą	 	
H.S.		T_]
Terminal No.	Color of Wire	Signal Name
1	G/R	1

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37 38 35 36 37 38 38 38 38 38 38 38	АВ
E18 PDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) WHITE WHITE AMB_SENS_GND_E/R AMB_SENS_SIG_E/R AMB_SENS_SIG_E/R GRAY Signal Name E24 BRAKE FLUID LEVEL SWITCH GRAY Tof Signal Name To Signal Name	C
Inector No. E18 Inector Name Pown MOD Inector Color WHII Inector No. E24 Inector No. Color of Initial No. Wire Inector No. E24 Initial No. Wire	E F
	G
E17 PDM E/R (INTELLIGENT MODULE ENGINE ROOM) Module Signal Name P	Η
Connector No. Connector Name Connector No. Connector No. Connector No. Connector No. Connector No. 2 40 L 40 L 40 L 40 A 40 L 40 L 40 L 40 L 40 A 40 L 40 L	J K
ECM BLACK BLACK Signal Name CAN-L CAN-L CAN-H CAN-H CAN-L CAN-H CAN-L CAN-H CAN-L CAN-H CAN-	L
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Connector No.	o. E201	01	Connector No.	. E202		Connector No.	r No.	E208
	IPC	OM E/R (INTELLIGENT	Connector Name WIRE TO WIRE	me WIR	RE TO WIRE	Connecto	r Name	Connector Name WASHER LEVEL SWITCH
Connector Na	ame MO	Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM)	Connector Color WHITE	lor WH.	ITE	Connector Color WHITE	r Color	WHITE
Connector Color WHITE	olor Wh	НТЕ	A A					Ę
SH	96 26 86	5 95 94 93 92 92 91	H.S.	8 3	6 5 4	H.S.		
	106 105 10	106 105 104 103 102 101 100 99				Terminal No. Wire	No. Col	or of Signal Name
Color of	Color of		Terminal No.	Color of	Signal Name	-	_	R WASHER
ellilliai NO.	Wire	Signal Name		Wire		2	_	B GND
66	BR/W	AMB_SENS_GND-FEM	8	В	1			
100	SB	AMB_SENS_SIG-FEM						

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Connector No. F1 Connector Name WIRE TO WIRE Connector Name WIRE TO WIRE Connector Color WHITE Signal Name 1	A B C D
88 88 88 88 88 88 88 88 88 88 88 88 88	F
NN (NN (N) (N) (N) (N) (N) (N) (N) (N) (G
al Name SSURE	Н
GENERATOR GENERATOR or of Sign F10 POWE FIN WHITE Signe F1 Signe F2 Signe F3 OIL PRE	I
A Solor Color Wiring	J
Connector Nar Connector Nar Sa sa	K
AMBIENT SENSOR BLACK rof Signal Name AMB_SENS_GND W AMB_SENS_GND F7 GENERATOR BLACK Coff Signal Name AMB_SENS_GND	L
SB ABRW ABRAWIE SB ABRW ABRAWIE BRW ABRAWI	
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Connector No.	٩	F41 OII PRESSURE SWITCH	Connector No. B1 Connector Name WIRE TO WIRE	B1 WIRF T	CO WIBE	Terminal No.	Color of Wire	Signal Name	
Connector Color	-	AY	Connector Color	WHITE		17.1	SB	ı	
	-			-		24J	0	ı	
			E			25J	>	ı	
S H	$\overset{\smile}{}$	<u></u>	\ <u>\</u>		33 44 53 60 73 83 93	29J	>	ı	
))		1) 2) 10) 1	11) 12) 13) 14) 15) 16) 17)	307	В	ı	\neg
Terminal No.	Color of Wife LG	Signal Name		191 203 314 324	19. 20. 21. 22. 23. 24. 25. 28. 29.				
O. O. Donactor No.	2		Connector No	88		Connector No.	68		
Connector Name		JOINT CONNECTOR-	Connector Name	1 1	DOOR SWITCH LH	Connector Name	e e	AIR BAG DIAGNOSIS SENSOR LINIT	
Connector Color	_	BUZ	Connector Color	WHITE		Connector Color	_	YELLOW	Т
H.S.	4	3 2 1	€ S.H.			副 H.S.	8 4	41 29 42 30 34 37 38 9 43 10]
Terminal No.	ც>	Signal Name	Terminal No. W	Color of Wire	Signal Name	Terminal No.	Color of Wire	f Signal Name	
- c	0	ı	. 0.	SB	DOOB SW (DB)	14	? : :	H	 -
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n	0	ı							

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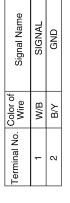
	А
T T T W T T T T T T T T T T T T T T T T	В
MIRE TO WIRE WHITE WHITE Tof	С
B108	D
Connector No. B48 Connector Name WIRE TO WIRE Connector Color of B108 Connector Name DOOR SWITCH Connector Name DOOR SWITCH Connector Name DOOR SWITCH Connector Color of Signal A.S. Connector No. B108 Connector No. Wire 2 GR DOOR 3	Е
	F
FUEL LEVEL SENSOR UNIT GRAY rof Signal Name FUEL SIGNAL FUEL SIGNAL FUEL GND WIRE TO WIRE WHITE rof Signal Name	G
Connector No. B42 Connector Name	Н
	1
Connector No. Connector No. Connector Color 2 V 2 V 5 E Connector No. Connector No. Connector Name Connector Name Connector Name Terminal No. Will B B B B B B B B B B B B B B B B B B	J
	K
Signal Name Signal Name Signal Name	L
1	M
State Stat	MWI
Connector No. Terminal No. Terminal No. Tolor Terminal No. Tolor To	0
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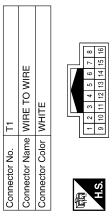
Revision: June 2012 MWI-105 2011 Altima GCC

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B202	Connector Name SEAT BELT BUCKLE SWITCH LH	WHITE
Connector No.	Connector Name	Connector Color WHITE
	щ	

	Signal Name	SIGNAL	GND
4	Color of Wire	M/B	В/У
H.S.	Ferminal No. Color of Wire	٦	2







B201	VIRE TO WIRE	WHITE	
Connector No.	Connector Name WIRE TO WIRE	Connector Color	





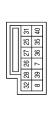
Signal Name	I	-	
Color of Wire	M/B	A/B	
rminal No.	-	8	

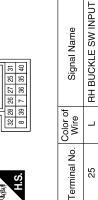
Connector No.	B302
Connector Name	SEAT BELT BUCKLE SWITCH RH
Connector Color WHITE	WHITE



Signal Name	SIGNAL	GND
Color of Wire	L	В
Terminal No.	-	2

B113	Connector Name AIR BAG DIAGNOSIS SENSOR UNIT	or YELLOW	
Connector No.	Connector Nam	Connector Color YELLOW	





B301	Connector Name WIRE TO WIRE	WHITE	
Connector No.	Connector Name	Connector Color	





	Signal Name	1	1
Color of	Wire	_	В
	Terminal No.	-	8

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1	_	7	١

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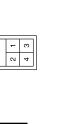
Connector Name JOINT CONNECTOR-T01 Connector Color WHITE Connector No.



Signal Name	ı	_
Color of Wire	B/Y	B/Y
Terminal No.	-	2



Connector No.	T4
Connector Name	Connector Name TRUNK LAMP SWITCH AND TRUNK RELEASE SOLENOID
Connector Color WHITE	WHITE

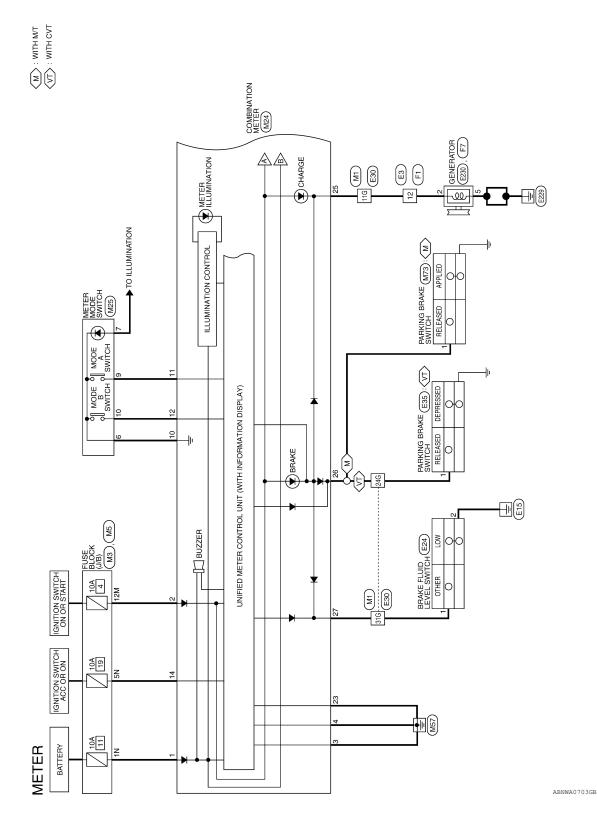


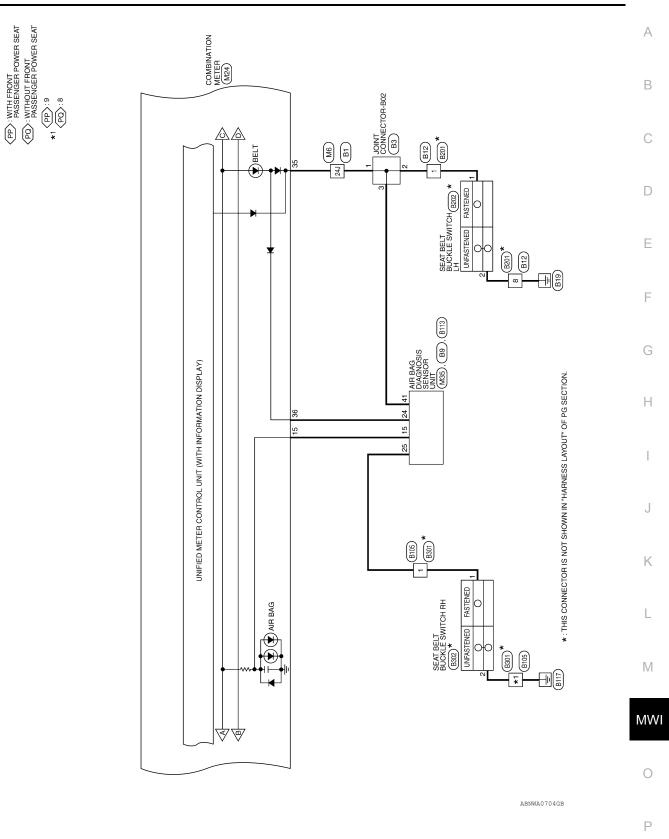
N 4	Color of Wire	M	B/Y
H.S.	Terminal No.	-	2

Signal Name

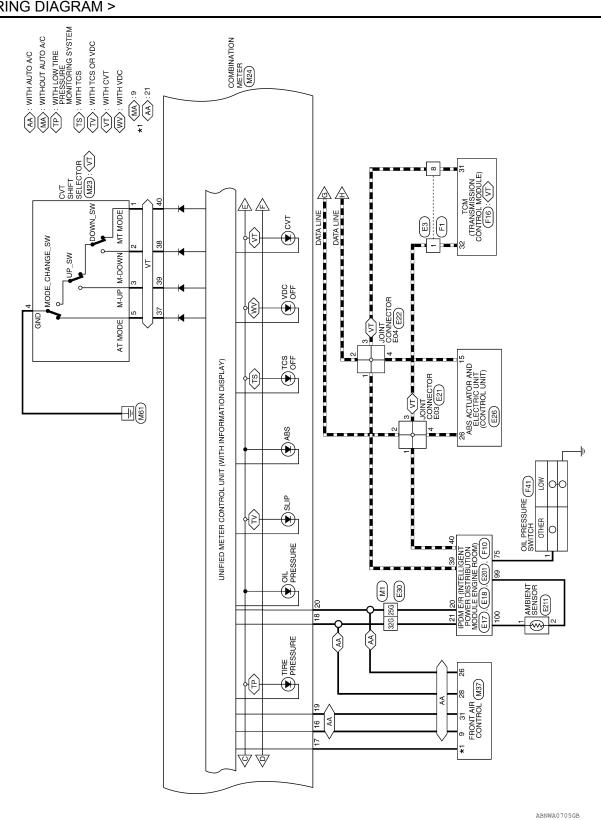
Wiring Diagram - Sedan

INFOID:0000000006392959

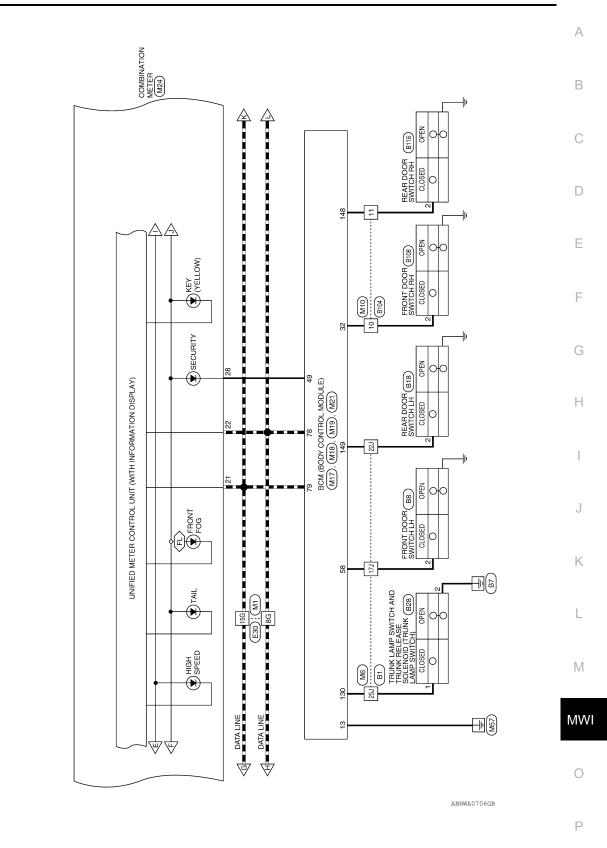




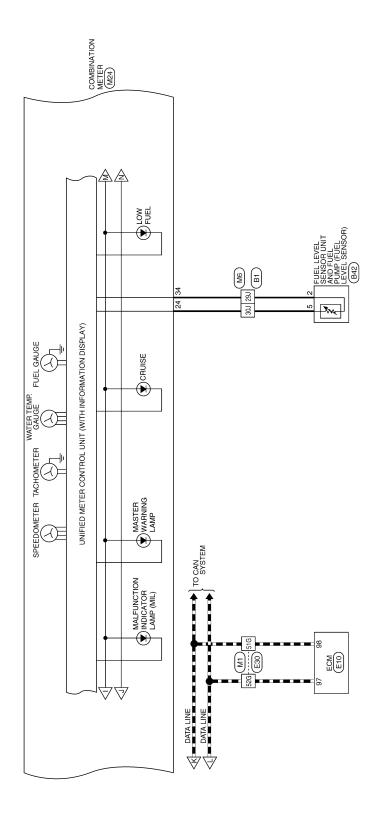
Revision: June 2012 MWI-109 2011 Altima GCC



(FL): WITH FRONT FOG LAMPS



Revision: June 2012 MWI-111 2011 Altima GCC



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(EB): EXCEPT BASE AUDIO SYSTEM Α COMBINATION METER (M24) В С D WASHER LEVEL (E208)
SWITCH
OTHER LOW Е → TO BOSE AUDIO SYSTEM - WITHOUT NAVIGATION SYSTEM BOSE AUDIO SYSTEM - WITH NAVIGATION SYSTEM F UNIFIED METER CONTROL UNIT (WITH INFORMATION DISPLAY) G Н TURN J TURN RH Κ HIGH L \mathbb{N} MWI 0 AANWA0398GB Р

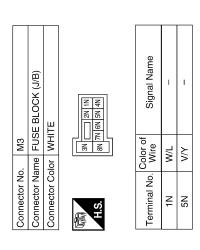
Revision: June 2012 MWI-113 2011 Altima GCC

METER CONNECTORS

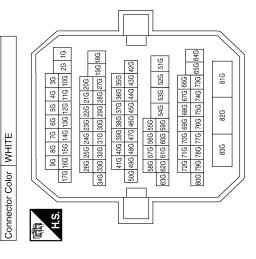
Connector Name | WIRE TO WIRE

Ξ

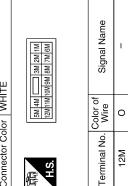
Connector No.



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





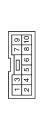


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Connector No. M10	Connector No. M19 BCM (BODY CONTROL BCM (BODY CONTROL BCM (BODY CONTROL BLACK BCM BCM	A B C D
Terminal No. Color of Signal Name 17J SB -	Connector No. M18 BCM (BODY CONTROL MODULE) Connector Color GREEN GREEN	F G H
Connector No. M6 Connector Name WIRE TO WIRE Connector Color WHITE Sul Sul Tu Sul Sul	Connector No. M17 Connector Name BCM (BODY CONTROL Connector Color WHITE Terminal No. Wire Signal Name 13 B GND1	K L M MWI

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Connector No.	M23
Connector Name	Connector Name CVT SHIFT SELECTOR
Connector Color WHITE	WHITE





Terminal No.	Color of Wire	Signal Name
23	В	GND (CIRCUIT)
24	B/W	GND (FUEL SENSOR)
25	BB	CHG
26	H/9	PKB
27	۸	BRAKE OIL IN
28	0/1	SECURITY
59	В	LOW WASH FLUID SW
30	L/B	2P/R OUT
31	MΛ	8P/R OUT
32	_	1
33	_	_
34	g/b	FUEL SENSOR
35	8/M	DR BELT
36	MΠ	AS BELT
37	G	NOT M RANGE
38	BR	AT SHIFT DOWN
39	W	AT SHIFT UP
40	LG/R	M RANGE

Signal Name	TRUNK_SW	RR_DOOR_SW	RL_DOOR_SW
Color of Wire	Y/G	B/W	B/B
Terminal No.	130	148	149

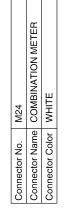
Signal Name TRUNK_SW RR_DOOR_SW RL_DOOR_SW	
Wire Y/G R/W R/B	
Terminal No. Wire 130 Y/G 148 R/W 149 R/B	

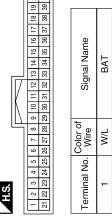
			_		
				12	83
			,	133	151 150 149 148 147 146 145 144 143 142 141 140 139 138 138 137 136 135 134 133 132
				#	134
				115	135
	BCM (BODY CONTROL MODULE)			129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114	136
	Ε.			117	137
	Z			198	138
	$\ddot{\circ}$			119	139
	7		1 17	120	140
	ĞΨ		l <i>V</i>	121	141
	BCM (BOE MODULE)	_	I IN	122	142
	동등	☆		123	143
	ĕĕ	<u>ত</u>		124	144
	Ф	_		125	145
	Connector Name	응		28	146
	ž	ŏ		127	147
	Ď	힏		128	148
	ec	ec	(6)	129	149
	딛	딛	H.S.	130	150
	ပိ	Connector Color GRAY	優モ	33	151
4					

M21

Connector No.

Signal Name	ı	1	ı	ı	ı	GND (SATELLITE SW)	MODE A SW	MODE B SW	ı	ACC	AIR/BAG	WATER TEMP OUT	A/C PD CUT	OAT	OAT POWER	GND (OAT SENSOR)	CAN-H	CAN-L
Color of Wire	ı	I	1	ı	1	O/L	L/R	B/R	ı	٨/٨	BR/W	G/W	B/W	O/B	Ь	В/У	٦	Ь
Terminal No.	2	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22





IGN GND (POWER)

0 В В

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Connector No.	O. M25	25	Connector No. M35	Connector No. M37
Connector Name	ame ME	Connector Name METER MODE SWITCH Connector Color BLACK	e 's	e e
而 H.S.	[] - [0]	7 7 8 9 4 5 6 10	ᅴ [[장[티워]	H.S. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
Terminal No.	O -	Signal Name	Terminal No. Wire Signal Name	Terminal No. Wire Signal Name
9 2	O/L B/I	GND (SATELLITE SW)	15 BR/W AIRBAG W/L	9 R/W A/C PD CUT
. 6	5	MODE A SW	:	
10	B/R	MODE B SW		
Connector No.	lo. M37	37	Connector No. M73	Connector No. E2
Connector Name		FRONT AIR CONTROL WHITE	Connector Name PARKING BRAKE SWITCH (WITH M/T) Connector Color BLACK	Connector Name WIRE TO WIRE Connector Color WHITE
副 H.S.			4	1 2 m 3 4 5 6 7 8
1 2 3 4 5	6 7	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 26 7 28 29 30 31 32 32 34 35 34 35 38 39 40	H.S.	
	1		Terminal No. Wiro Signal Name	Terminal No. Miro Signal Name
Terminal No.	Color of Wire	f Signal Name	G/R	>
6	G/W	WATER TEMP		
21	B/W	A/C PD CUT		
26	B/Y	SENS GND		
28	O/B	AMB SENS		
31	凸	AMB VDD		

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Connector No. E3	Connector No E10	Connoctor No
l e	<u>e</u>	
Connector Color WHITE	Connector Color BLACK	Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM)
H.S. (8 9 10 11 12 13 14 15 16 7	H.S. H.S.	Connector Color WHITE
Terminal No. Wire Signal Name	92 96 100 104 108	46 45 44 43
- В	Color of Signal Name	Terminal No. Wire Signal Name
12 LG –	a wile	
Connector No. E18	Connector No. E21	Connector No. E22
Connector Name POWER DISTRIBUTION MODILIE ENGINE BOOM	Connector Name JOINT CONNECTOR-E03 Connector Color WHITE	Connector Name JOINT CONNECTOR-E04 Connector Color WHITE
Connector Color WHITE		4 -
哥 H.S.	Ø.	S:
9 3031323334 37	Terminal No. Wire Signal Name	Terminal No. Wire Signal Name
0 0	1 L –	1 P
	2 L –	2 P –
Color of	3 L –	3 Р
Terminal No. Wire Signal Name	4 L –	4 Р –
20 L AMB_SENS_GND_E/R		
21 LG AMB SENS SIG E/R		

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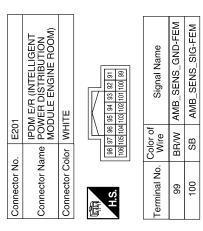
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Terminal No. Color of Signal Name	15 P CAN-L	26 L CAN-H					Connector No. E35	Connector Name PARKING BRAKE SWITCH (WITH CVT)	Connector Color BLACK			H.S.		Terminal No Signal Name	wire	- I					A B C
				82 82 4 82 52 4	⊣ II		9	<u>υ</u>													F
B AND) ⊢ !	Î		21 22 23 24			Ome IV	טטומו ואמו	1	1	ı	1	1	1	-	_	1				G
6 S ACTUATO	ELECTRIC UNIT	ON I HOL UN	DEACK	17 18 19 20	>		Color of	Wire	. a	LG	_	۵	l l	^	ГG	Г	Ь				Н
		_	-	8	⊣ II		ON	4G.	2 8	11G	15G	24G	25G	31G	32G	51G	52G				I
Connector No.	Connector Name		H.S.	1 5			<u> </u>	<u>- </u>	1									1			J
										(//			- 1	<u> </u>]	(5)		[8]			K
LUID LEVEL	SWITCH			Signal Name		1		WIRE			3G 4G 5G 6G 7G 8G 9G	16 26 106 116 126 136 146 156 166 176	206 216 226 236 246 256 266	18G 19G 27G 28G 29G 30G 31G 32G 33G 34G	356 366 376 386 396 406 416	42G 43G 44G 45G 46G 47G 48G 49G 50G	559 569 579 589	51G 52G 53G 54G 53G 61G 61G 62G 63G 63G 61G 62G 63G 63G 61G 62G 63G 63G	82G 83G		L
		GRAY	- 0	Color of Wire	2 5	Β/Y	E30	Connector Name WIRE TO WIRE	III		36 46	2G 10G 11G 1:	206 216 2	19G 27G 28G 2	356 366 37	2G 43G 44G 45		516 526 536 546 596 606 <td>81G</td> <td></td> <td>M</td>	81G		M
tor No.	Connector Name	Connector Color		Al No. Cole	>		tor No.	tor Name	Connector Color	K		5		186] 	45	, (516			MW
Connector No.	Connec	Connec	明.S.	Terminal No.		2	Connector No.	Connec	Connec		S										0
																				ABNIA2116GB	Р

Revision: June 2012 MWI-119 2011 Altima GCC

	F	
Connector No.	ى E208	æ(
Connector Name		WASHER LEVEL SWITCH
Connector Color WHITE	olor WH	ІТЕ
H.S.		
Terminal No.	Color of Wire	Signal Name
-	В	WASHER
2	В	GND

	IRE			Signal Name	1
E202	WIRE TO WIRE	WHITE	3 7 6 5 4	Color of Wire Si	<u> </u>
Connector No.	Connector Name	Connector Color WHITE	是 H.S.	Terminal No. Vo	80



) WIRE		1103	Signal Name	ı	I	I
F1	e WIRE TO WIRE	or WHITE	7 6 5 4 6 6 16 113 12 111	Color of Wire	_	۵	BR
Connector No.	Connector Name	Connector Color	所 H.S.	Terminal No.	-	8	12

Connector No.		E230
Connector Name	ame GE	GENERATOR
Connector Color	olor –	
原 H.S.		©
Terminal No.	Color of Wire	Signal Name
5	В	GND

Connector No.). E211	-
Connector Name		AMBIENT SENSOR
Connector Color	olor BLACK	4CK
		2 1
H.S.	IJ	
Terminal No.	Color of Wire	Signal Name
1	SB	AMB_SENS_SIG
2	BR/W	AMB_SENS_GND

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	Α
F16 TCM (TRANSMISSION CONTROL MODULE) BLACK Signal Signal Name CAN-H	В
<u>├────────────────────────────────────</u>	С
ctor No.	D
Conne Conne 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Е
8 8 82	F
NNT (Z475/7773) SM (SM (SE) (SM	G
F10 POWER DISTRIBUTION MODULE ENGINE ROOM) POWER DISTRIBUTION	Н
PDM E/R POWER DI	I
ctor No. Color N	J
Connec Connec Connec Connec Connec Connec	K
Signal Name CHG Signal Name	L
	M
	MWI
Connector No. Connector No. Connector No. Connector No. Connector No. Connector No. Terminal No. H.S. 1 L.	0
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Revision: June 2012 MWI-121 2011 Altima GCC

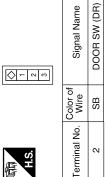
33 41 29 42 30 34 44 37 38 9 43 10	Signal Name	TH BUCKLE SW INP
8 4	Color of Wire	0
是 H.S.	Terminal No.	41

	LH BI
Color of Wire	0
Terminal No.	14

B28	TRUNK LAMP SWITCH AND TRUNK RELEASE SOLENOID	WHITE	O 4 L C C
Connector No.	Connector Name	Connector Color WHITE	offs H.S.

<u>-</u> ത	Signal Name	ı	I
0 4	Color of Wire	8	В
H.S.	Terminal No.	-	2

Connector No. B8 Connector Name FR Connector Color WH	Connector No. B8 Connector Name FRONT DOOR SWITCH I Connector Color WHITE



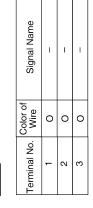
B18	Connector Name REAR DOOR SWITCH LH	WHITE
Connector No.	Connector Name	Connector Color WHITE

Connector Name HEAR DOOR SWILCH LT	ІТЕ		Signal Name	DOOR SW (RL)
ille Line	olor WHITE		Color of Wire	BR
	Connector Color	是 H.S.	Terminal No.	2

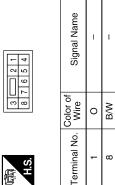
B3	JOINT CONNECTOR- B02	WHITE	

Connector Name Connector Color

Connector No.



	Connector No. B12 Connector Name WIRE TO WIRE
Connector Color WHITE	Connector Name WIRE TO WIRE



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2014	H	<u></u>
Connector No.	. B105	15
Connector Name		WIRE TO WIRE (WITHOUT FRONT PASSENGER POWER SEAT)
Connector Color	lor WHITE	ITE
H.S.	8 8	6 5 4
Terminal No.	Color of Wire	Signal Name
-	_	ı
œ	B/W	1

14	WIRE TO WIRE	BROWN	3	Signal Name	ı	_
. B104			1 9	Color of Wire	GR	В
Connector No.	Connector Name	Connector Color	哥 H.S.	Terminal No.	10	11

	FUEL LEVEL SENSOR UNIT AND FUEL PUMP	λŧ	2 3 4 5	Signal Name	FUEL SIGNAL	FLIFI GND
. B42		lor GRAY	1	Color of Wire	^	В
Connector No.	Connector Name	Connector Color	(国) H.S.	Terminal No.	2	5

	B113
	Connector No.
	B108
	Connector No.
	B105
	No.

Connector No. B 108 Connector No. B 113 Connector Name FRONT DOOR SWITCH RH Connector Name AIR BAG DIAGNOSIS Connector Color WHITE Connector Color YELLOW AH.S. Connector Color YELLOW AH.S. AH.S. AH.S. Terminal No. Wire Signal Name 2 GR DOOR SW (AS) 2 CR RH BUCKLE SW II	Signal Name DOOR SW (AS) Connector Name Connector Name Sen Connector Name Sen Connector Color 'YEL Connector Color 'YEL E 33 Terminal No. Color of E 33 Terminal No. Wire Z5 L		AGNOSIS NIT]	31	40	Signal Name	RH BUCKLE SW INPUT	
ONT DOOR SWITCH RH ITE Signal Name DOOR SW (AS)	ONT DOOR SWITCH RH ITE Signal Name DOOR SW (AS)		e AIR BAG DI SENSOR U	r YELLOW			39 7 36		L RH BU	
Connector No. B108 Connector Name FRONT DOOR SWITCH RH Connector Color WHITE H.S. Owner Terminal No. Color of Wire 2 GR 2 GR 2 GR	Connector No. B108 Connector Name FRONT DOOR SWITCH RH Connector Color WHITE	Connector No.	Connector Nam	Connector Colo			H.S.	Terminal No.	25	
Connector No. B108 Connector Name FRONT DOOR SWITCH Connector Color WHITE H.S. Owner Terminal No. Color of Wire Signal Name 2 GR DOOR SW (AS)	Connector No. B108 Connector Color WHITE Connector Color WHITE H.S. Color of Signal Name Z GR DOOR SW (AS)		표							
Connector Name F Connector Color V H.S. Terminal No. Wire 2 GR	Connector Name F Connector Color V Connector Color V Connector Color V Color Color V Color Color V Color Color V Color Color Color V Color Color Color V Color Col	3108	FRONT DOOR SWITCH	1		· \	6		_	
Connector Connector Connector H.S. Terminal N	Connector Connector Connector Terminal N		Name F					o. Wire	GR	
		Connector	Connector		E	H.S.		Terminal N	2	
WIRE TO WIRE (WITH RONT PASSENGER OWER SEAT) WHITE SIGNAL SIGNAL NAME SIGNAL NAME			V Jame F	ш_	Solor M		10 9 3	Color c		:
05 3×E TO ONT F ONT F ITE	Land	Connector No.	Connector N		Connector C		H.S.	Terminal No. Wire	-	,

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MWI-123 Revision: June 2012 2011 Altima GCC

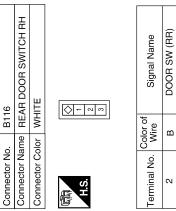
Connector No. B201	B201	Connector No. B202	B202
ctor Name	Connector Name WIRE TO WIRE	Connector Name	Connector Name SEAT BELT BUCKLE
Connector Color WHITE	WHITE		SWII CH LH
		Connector Color WHITE	WHITE
	4 5 6 7 8	E	

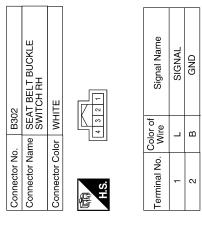
Signal Name	SIGNAL	GNÐ
Color of Wire	W/B	B/Y
Ferminal No.	-	2











Connector No.). B301	п
Connector Name		WIRE TO WIRE (WITH FRONT PASSENGER POWER SEAT)
Connector Color	olor WHITE	믵
斯 H.S.	- c 0 - 2	3 0 0 0 0 0 0 0 0 0
Terminal No.	Color of Wire	Signal Name
-	٦	ı
6	B/W	ı

Connector Name		WIRE TO WIRE (WITHOUT FRONT PASSENGER POWER SEAT)
Connector Color		WHITE
原表 H.S.	4 5	8 2 9
Terminal No.	Color of Wire	Signal Name
1	Γ	ı
8	В	ı

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B301

Connector No.

THE FUEL GAUGE POINTER DOES NOT MOVE

< SYMPTOM DIAGNOSIS > SYMPTOM DIAGNOSIS Α THE FUEL GAUGE POINTER DOES NOT MOVE Description INFOID:0000000006392960 Fuel gauge needle will not move from a certain position. Diagnosis Procedure INFOID:0000000006392961 1. CHECK COMBINATION METER INPUT SIGNAL Select "METER/M&A" on CONSULT. D 2. Using "FUEL METER" of "DATA MONITOR", compare the monitor value with the fuel gauge reading on the combination meter. Refer to MWI-36, "Component Function Check". Does monitor value match fuel gauge reading? Е YES >> GO TO 2 NO >> Replace combination meter. Refer to MWI-139, "Removal and Installation". 2.CHECK FUEL LEVEL SENSOR SIGNAL CIRCUIT F Check the fuel level sensor signal circuit. Refer to MWI-36, "Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 3 NO >> Repair harness or connector. 3.CHECK FUEL LEVEL SENSOR UNIT Н Perform a unit check for the fuel level sensor unit. Refer to MWI-37, "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-139, "Removal and Installation". >> Repair or replace malfunctioning parts. NO M

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

< SYMPTOM DIAGNOSIS >

THE FUEL GAUGE POINTER DOES NOT MOVE TO "F" WHEN REFUEL-ING

Description INFOID:000000006392962

The fuel gauge needle will not move to "F" position when refueling.

Diagnosis Procedure

INFOID:0000000006392963

1. OBSERVE FUEL GAUGE

Does it take a long time for the pointer to move to FULL position?

YES or NO

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

2.IDENTIFY FUELING CONDITION

Was the vehicle fueled with the ignition switch ON?

YES or NO

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

3.observe vehicle position

Is the vehicle parked on an incline?

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

YES >> Check the components. Refer to MWI-37, "Component Inspection".

NO >> The float arm may interfere or bind with any of the components in the fuel tank.

THE OIL PRESSURE WARNING LAMP DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >	
THE OIL PRESSURE WARNING LAMP DOES NOT TURN ON	А
Description	NFOID:0000000006392964
The oil pressure warning lamp stays off when the ignition switch is turned ON.	В
Diagnosis Procedure	NFOID:0000000006392965
1. CHECK OIL PRESSURE WARNING LAMP	С
Perform IPDM E/R auto active test. Refer to PCS-11, "Diagnosis Description".	
<u>Is oil pressure warning lamp illuminated?</u> YES >> GO TO 2	D
NO >> Replace combination meter. Refer to MWI-139, "Removal and Installation".	
2.CHECK OIL PRESSURE SWITCH SIGNAL CIRCUIT	E
Check the oil pressure switch signal circuit. Refer to MWI-38 , "Diagnosis Procedure". Is the inspection result normal?	
YES >> GO TO 3	F
NO >> Repair harness or connector. 3.CHECK OIL PRESSURE SWITCH UNIT	
Perform a unit check for the oil pressure switch. Refer to MWI-38, "Component Inspection".	G
Is the inspection result normal?	
YES >> Replace IPDM E/R. Refer to <u>PCS-45, "Removal and Installation"</u> . NO >> Replace oil pressure switch.	Н
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THE OIL PRESSURE WARNING LAMP DOES NOT TURN OFF

< SYMPTOM DIAGNOSIS >

THE OIL PRESSURE WARNING LAMP DOES NOT TURN OFF

Description INFOID:000000006392966

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

Diagnosis Procedure

Regarding Wiring Diagram information, refer to MWI-92, "Wiring Diagram - Coupe" or MWI-108, "Wiring Diagram - Sedan".

1. CHECK OIL PRESSURE WARNING LAMP

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

Is oil pressure warning lamp illuminated?

YES >> GO TO 2

NO >> Replace combination meter. Refer to MWI-139, "Removal and Installation".

2.CHECK IPDM E/R OUTPUT VOLTAGE

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

1 – Ground : Approx. 12V

Is the inspection result normal?

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

3.CHECK OIL PRESSURE SWITCH

Perform a unit check for the oil pressure switch. Refer to MWI-38, "Component Inspection".

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-45, "Removal and Installation".

NO >> Replace oil pressure switch.

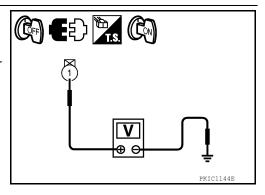
4. CHECK OIL PRESSURE SWITCH SIGNAL CIRCUIT

Check the oil pressure switch signal circuit. Refer to MWI-38, "Diagnosis Procedure".

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-45, "Removal and Installation".

NO >> Repair harness or connector.



INFOID:0000000006392967

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:0000000006392968 В 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:0000000006392969 ${f 1}$.CHECK PARKING BRAKE WARNING LAMP OPERATION D 1. Start engine. 2. Monitor "BRAKE" warning lamp while applying and releasing the parking brake. Е **BRAKE** warning lamp Parking brake depressed : ON Parking brake released : OFF Is the inspection result normal? YES >> Replace combination meter. Refer to MWI-139, "Removal and Installation". NO >> GO TO 2 2.CHECK PARKING BRAKE SWITCH SIGNAL CIRCUIT Turn ignition switch OFF. Check the parking brake switch signal circuit. Refer to MWI-40, "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-40, "Component Inspection". Is the inspection result normal? YES >> Replace combination meter. Refer to MWI-139, "Removal and Installation". NO >> Replace parking brake switch. M

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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:000000006392970

- 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

INFOID:0000000006392971

1. CHECK WASHER LEVEL SWITCH SIGNAL CIRCUIT

Check the washer level switch signal circuit. Refer to MWI-41, "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-41, "Component Inspection".

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-139, "Removal and Installation".

NO >> Replace washer level switch.

THE DOOR OPEN WARNING CONTINUES DISPLAYING, OR DOES NOT DIS-

< SYMPTOM DIAGNOSIS >

THE DOOR OPEN WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY Description INFOID:0000000006392972 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:0000000006392973 CHECK BCM INPUT SIGNAL D Connect CONSULT and check the BCM input signals. Refer to the following: • Door switch - coupe: <u>DLK-64</u>, "Component Function Check" • Door switch - sedan: <u>DLK-286, "Component Function Check"</u> Е • Trunk lamp switch and trunk release solenoid - coupe: DLK-89, "Component Function Check" Trunk lamp switch and trunk release solenoid - sedan: DLK-318, "Component Function Check" Is the inspection result normal? YES >> GO TO 2 NO >> GO TO 3 2.CHECK COMBINATION METER INPUT SIGNAL Select "METER/M&A" on CONSULT. Monitor "DOOR W/L" and "TRUNK/GLAS-H" of "DATA MONITOR" while opening and closing doors and trunk. Н "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-139, "Removal and Installation". >> Replace BCM. Refer to BCS-92, "Removal and Installation". NO 3.check door switch signal circuit Check the door switch signal circuit. Refer to the following: Coupe: <u>DLK-64, "Diagnosis Procedure"</u> Sedan: <u>DLK-286, "Diagnosis Procedure"</u> M Is the inspection result normal? YES >> GO TO 4 MWI NO >> Repair harness or connector. 4.CHECK DOOR SWITCH UNIT Perform a unit check for the door switch. Refer to the following: Coupe: <u>DLK-66</u>, "Component Inspection" Sedan: DLK-288, "Component Inspection" Р 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 the following:

MWI-131 Revision: June 2012 2011 Altima GCC

• Coupe: DLK-89, "Diagnosis Procedure" · Sedan: DLK-318, "Diagnosis Procedure"

THE DOOR OPEN WARNING CONTINUES DISPLAYING, OR DOES NOT DIS-**PLAY**

< SYMPTOM DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 6

NO >> Repair harness or connector.

$6.\mathsf{CHECK}$ TRUNK LAMP SWITCH AND TRUNK RELEASE SOLENOID UNIT

Perform a unit check for the trunk lamp switch and trunk release solenoid. Refer to the following:

- Coupe: <u>DLK-91</u>, "Component Inspection"
 Sedan: <u>DLK-320</u>, "Component Inspection"

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-139, "Removal and Installation".

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

THE AMBIENT TEMPERATURE DISPLAY IS INCORRECT

< SYMPTOM DIAGNOSIS >

THE AMBIENT TEMPERATURE DISPLAY IS INCORRECT

Description INFOID:0000000006392974

- 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:00000000006921721

Regarding Wiring Diagram information, refer to MWI-92, "Wiring Diagram - Coupe" or MWI-108, "Wiring Diagram - Sedan".

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1.check ambient sensor circuits between combination meter and ambient sensor

- 1. Turn ignition switch OFF.
- 2. Disconnect ambient sensor connector E211.
- Check continuity between ambient sensor harness connector E211 terminals 1, 2 and ground.

Ambier	nt sensor		Continuity
Connector	Terminal	Ground	Continuity
E211	1	Ground	No
E211	2		Yes

- Disconnect combination meter connector M24.
- Check continuity between combination meter harness connector M24 terminal 18 and ambient sensor harness connector E211 terminal 1.

Combina	tion meter	Ambien	t sensor	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M24	18	E211	1	Yes

Is the inspection result normal?

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

2.CHECK A/C AUTO AMP. INPUT SIGNAL

- Connect combination meter and ambient sensor connectors.
- 2. Turn ignition switch ON.
- Select "HVAC" on CONSULT.
- Using "AMB TEMP SEN" on "DATA MONITOR", compare the value of DATA MONITOR with actual ambient temperature. DATA MONITOR and actual ambient temperature should be close.

Does the DATA MONITOR value approximately match the actual ambient temperature?

YES >> Replace combination meter.

NO

>> Using CONSULT, perform "Self-Diagnosis Results" of HVAC. Check if any DTCs are displayed in self-diagnosis results and repair the cause of the DTC first. Refer to HAC-27, "Diagnosis Description". If no DTCs are stored, replace ambient sensor.

3.check ambient sensor circuits between combination meter and IPDM e/R $\,$

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

Combina	tion meter	IPDI	M E/R	Continuity
Connector	Terminal	Connector	Terminal	Continuity

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THE AMBIENT TEMPERATURE DISPLAY IS INCORRECT

< SYMPTOM DIAGNOSIS >

M24	18	E10	21	Yes
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3. Check continuity between combination meter harness connector M24 terminal 18 and ground.

Combina	tion meter		Continuity
Connector	Terminal	Ground	Continuity
M24	18		No

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair harness or connector.

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

- 1. Disconnect IPDM E/R connector E201.
- 2. Check continuity between IPDM E/R harness connector E201 terminals 99, 100 and ambient sensor harness connector E211 terminals 1 and 2.

IPD	M E/R	Ambien	t sensor	Continuity
Connector	Terminal	Connector	Terminal	Continuity
E201	99	E211	2	Yes
E201	100	E211	1	res

3. Check continuity between IPDM E/R harness connector E201 terminal 100 and ground.

IPDI	M E/R		Continuity
Connector	Terminal	Ground	Continuity
E201	100		No

Is the inspection result normal?

YES >> Replace IPDM E/R.

NO >> Repair harness or connector.

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

NORMAL OPERATING CONDITION COMPASS

INFOID:0000000006392976

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

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PRECAUTIONS

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PRECAUTION

PRECAUTIONS

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. 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.

Necessary for Steering Wheel Rotation After Battery Disconnect

INFOID:0000000006392978

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 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

1. 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.
- 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.)

PRECAUTIONS

< PRECAUTION >

6. Perform self-diagnosis check of all control units using CONSULT. Α В С D Е F G Н J Κ L M

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PREPARATION

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PREPARATION

Commercial Service Tools

INFOID:0000000006925342

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

COMBINATION METER

< REMOVAL AND INSTALLATION >

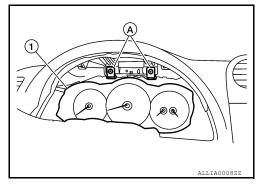
REMOVAL AND INSTALLATION

COMBINATION METER

Removal and Installation

REMOVAL

- 1. Disconnect the negative battery terminal.
- 2. Remove cluster lid A. Refer to IP-16, "Removal and Installation".
- 3. Remove the combination meter screws (A), using a power tool.
- 4. Pull out the combination meter (1).
- 5. Disconnect the combination meter connector, and remove the combination meter (1).



INSTALLATION

Installation is in the reverse order of removal.

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COMBINATION METER

< UNIT DISASSEMBLY AND ASSEMBLY >

UNIT DISASSEMBLY AND ASSEMBLY

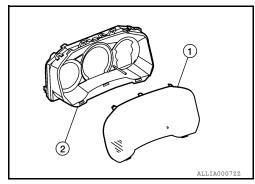
COMBINATION METER

Disassembly and Assembly

INFOID:0000000006392980

DISASSEMBLY

- 1. Remove the combination meter. Refer to MWI-139, "Removal and Installation".
- 2. Remove the combination meter lens (1) from the combination meter (2).



ASSEMBLY

Assembly is in the reverse order of disassembly.