SECTION MWI
METER, WARNING LAMP & INDICATOR

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PRECAUTION

PRECAUTIONS

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

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The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER”, used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper repair, 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 Air Bag Diagnosis Sensor Unit or other Air Bag 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 or batteries, and wait at least three minutes before performing any service.**

Precaution for Work

INFOID:0000000014621822

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:

- Water soluble dirt:

- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.

- Oily dirt:

- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.

- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

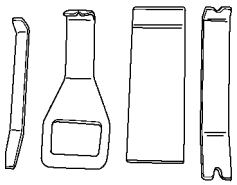
PREPARATION

PREPARATION

Special Service Tool

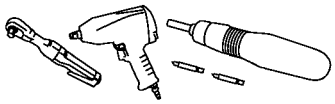
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The actual shape of the tools may differ from those illustrated here.

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

Commercial Service Tools

INFOID:0000000014621824

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

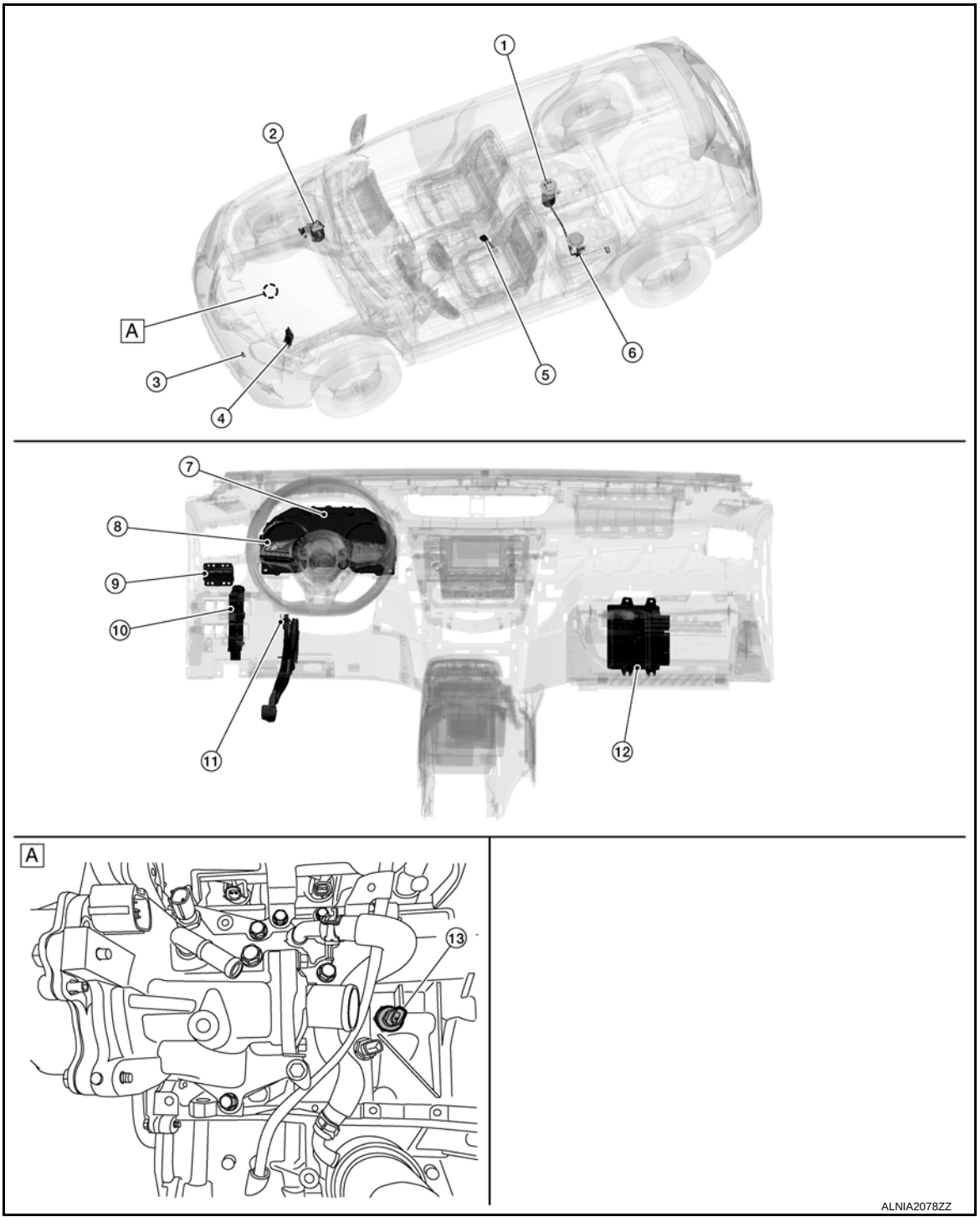
SYSTEM DESCRIPTION

COMPONENT PARTS

METER SYSTEM

METER SYSTEM : Component Parts Location

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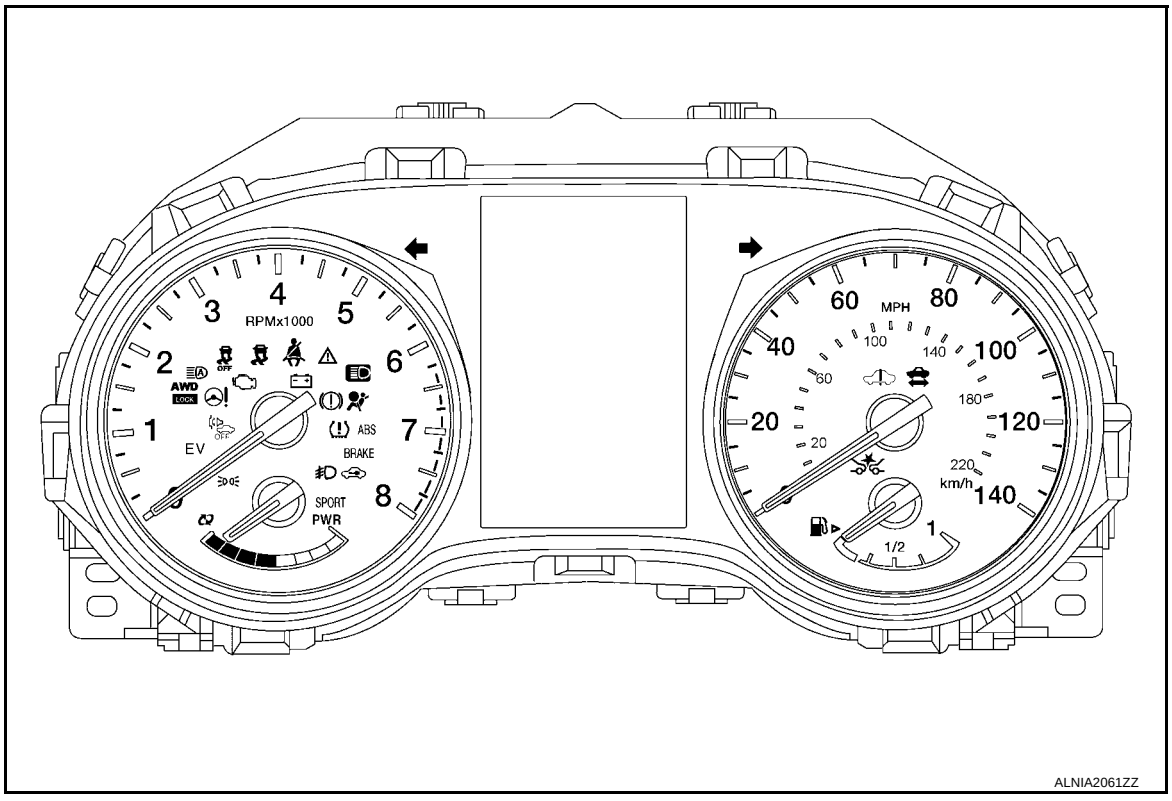
A. View of engine assembly removed

No.	Component	Function
1.	Fuel level sensor unit and fuel pump (fuel level sensor) (main)	Transmits the fuel level sensor signal to the combination meter.
2.	ABS actuator and electric unit (control unit)	• Transmits each signal to the combination meter via CAN communication. Refer to BRC-17, "System Description". • Refer to BRC-10, "Component Parts Location" for detailed installation location.
3.	Ambient sensor	• Transmits the ambient sensor signal to the combination meter.
4.	TCM	• Transmits each signal to the combination meter via CAN communication. Refer to TM-35, "CVT CONTROL SYSTEM : System Description". • Refer to TM-15, "CVT CONTROL SYSTEM : Component Parts Location" for detailed installation location.
5.	Seat belt buckle switch LH	Transmits the seat belt buckle switch signal LH to the combination meter.
6.	Fuel level sensor unit (sub)	Transmits the fuel level sensor signal to the combination meter.
7.	Combination meter	Refer to MWI-8, "METER SYSTEM : System Description".
8.	Steering switches	Refer to MWI-18, "Switch Name and Function".
9.	Meter control switch	Refer to MWI-18, "Switch Name and Function".
10.	BCM	• Transmits each signal to the combination meter via CAN communication. Refer to BCS-7, "BODY CONTROL SYSTEM : System Description". • Refer to BCS-5, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.
11.	Parking brake switch	Transmits the parking brake switch signal to the combination meter.
12.	HPCM	• Transmits each signal to the combination meter via CAN communication. Refer to HBC-21, "HYBRID CONTROL SYSTEM : System Description". • Refer to HBC-12, "Component Parts Location" for detailed installation location.
13.	Engine oil pressure sensor	Transmits the engine oil pressure sensor signal to the ECM.

METER SYSTEM : Design

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ARRANGEMENT OF COMBINATION METER



METER SYSTEM : Combination Meter

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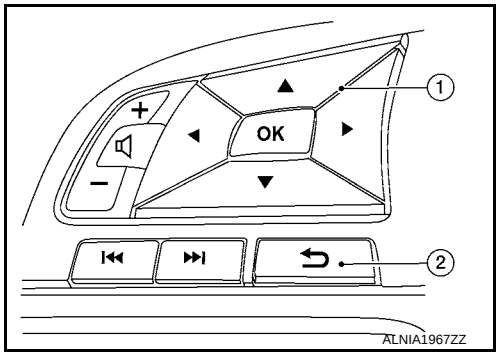
The combination meter controls the following items according to the signals received from each unit via CAN communication and the signals from switches and sensors:

- Speedometer
- Tachometer
- Power meter
- Fuel gauge
- Indicator lamps
- Warning lamps
- Meter illumination control
- Meter effect function
- Information display

METER SYSTEM : Steering Switches

INFOID:0000000015206719

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

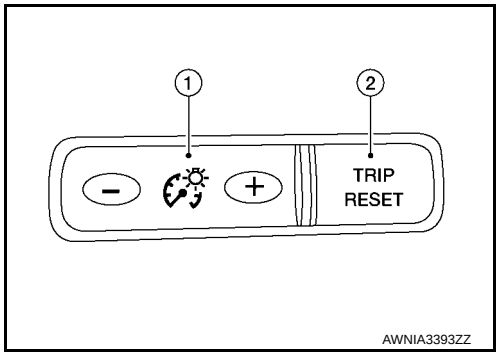


No.	Switch name	Operation	Description
1.	OK/Up/Down/Left/Right switch	Press	The information display settings can be changed.
2.	Back switch		

METER SYSTEM : Meter Control Switch

INFOID:0000000015206717

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

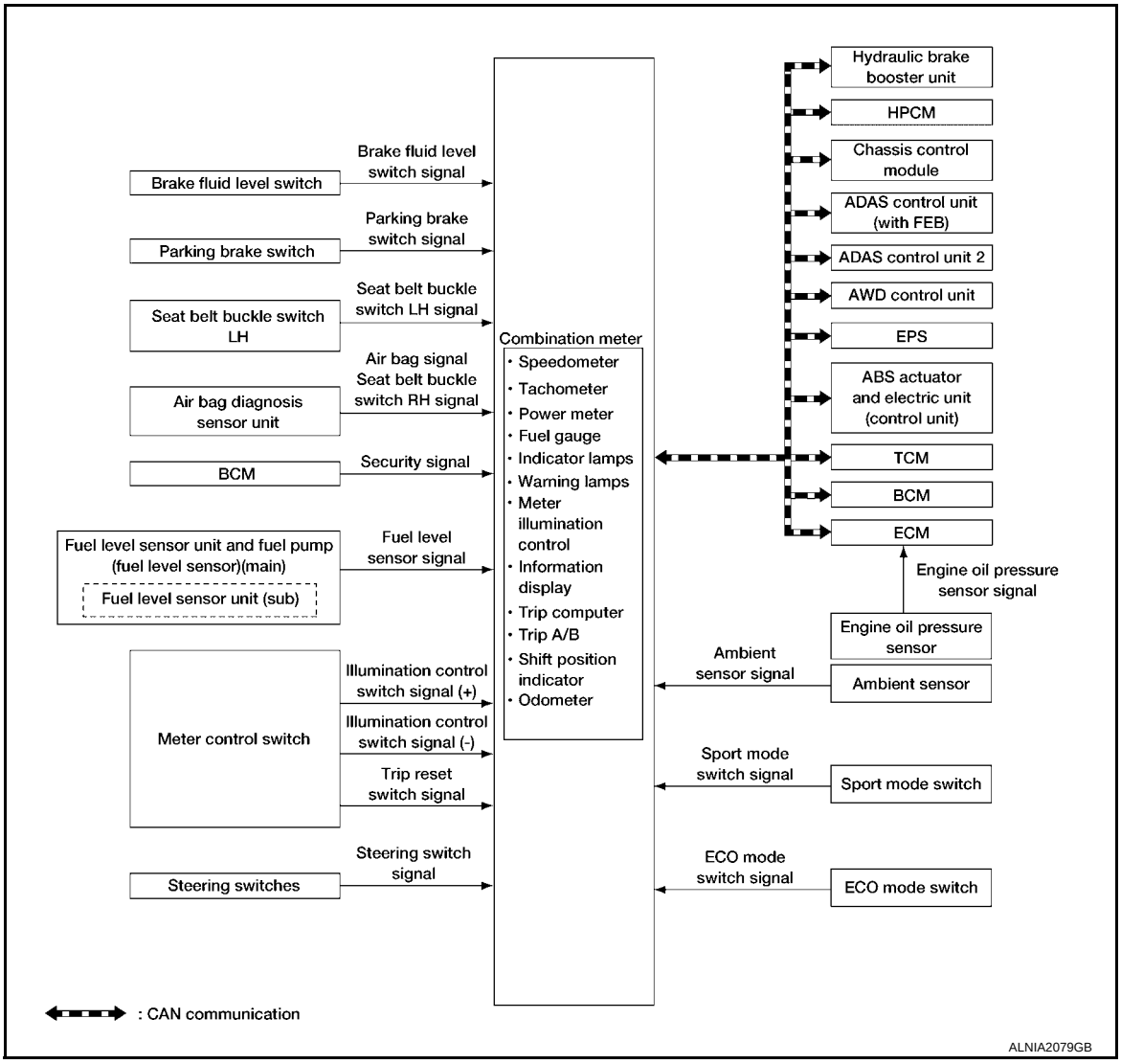


No.	Switch name	Operation	Description
1.	Illumination control switch	Press	An illuminance level of the back light of the combination meter can be adjusted.
2.	Trip reset switch	Press	• The trip meter can be switched between A and B. • Trip meter A/B can be reset by pressing and holding the trip reset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

SYSTEM
METER SYSTEM
METER SYSTEM : System Description

INFOID:0000000015231186

SYSTEM DIAGRAM



Combination Meter Input Signal (CAN Communication Signal)

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

Transmit unit	Signal name
BCM	Dimmer signal
	Position light request signal
	Door switch signal
	Front fog light request signal
	High beam request signal
	Meter display signal
	Sleep wake up signal
	Buzzer output signal
	Tire pressure data signal
	Key ID signal
	Turn indicator signal
	TPMS malfunction warning lamp signal
	Starter relay status signal
	Low tire pressure warning lamp signal
TCM	Shift position signal
	CVT warning lamp signal
HPCM	Engine speed signal
	ASCD status signal
	Engine coolant temperature signal
	Fuel consumption monitor signal
	Malfunctioning indicator lamp signal
	Engine status signal
	Engine oil pressure sensor signal
	Assist charge signal
	EV indicator lamp signal
	READY to drive indicator lamp signal
	Fuel filler cap warning display signal
	SPORT mode indicator signal
	ECO mode indicator signal
	Hybrid system over heat warning signal
	Hybrid system warning lamp signal
	Low battery charge warning request signal
AWD control unit	AWD warning lamp signal
ADAS control unit	BSW warning lamp signal
	FEB warning lamp signal
Chassis control module	Active ride control signal
	Active trace control signal
	Active engine brake control signal
	Chassis control system error signal
VSP control unit	VSP OFF indicator lamp signal
Hydraulic brake booster unit	Brake warning lamp signal
	Brake system warning lamp signal

DESCRIPTION

Combination Meter

- The combination meter controls the following items according to the signals received from each unit via CAN communication and the signals from switches and sensors:
- Measuring instruments
- Speedometer
- Tachometer
- Power meter
- Fuel gauge
- Warning lamps
- Indicator lamps
- Meter illumination control
- Meter effect function
- Information display
- The combination meter incorporates a buzzer function that sounds an audible alarm with the integrated buzzer. Refer to WCS-5, "WARNING CHIME SYSTEM : System Description" for further details.
- The combination meter includes an on board diagnosis function.
- The combination meter can be diagnosed with CONSULT.

METER CONTROL FUNCTION LIST

System		Description	Reference
Measuring instruments	Speedometer	Indicates vehicle speed.	MWI-12, "SPEEDOMETER : System Description"
	Tachometer	Indicates engine speed.	MWI-12, "TACHOMETER : System Description"
	Power meter	Indicates the output status (driving force/ power generation) of traction motor on the assist charge gauge.	MWI-12, "POWER METER : System Description"
	Fuel gauge	Indicates fuel level.	MWI-13, "FUEL GAUGE : System Description"
Information display		The Information display displays status, according to system malfunction or vehicle condition.	MWI-15, "INFORMATION DISPLAY : System Description"
Meter illumination control	Meter illumination control function	Switches back and forth between daytime mode and nighttime mode, according to a light switch position.	MWI-13, "METER ILLUMINATION CONTROL : System Description"
	Back light illumination control function	The operation of the illumination control switch allows the brightness adjustment of meter illumination.	
Meter effect function	Hybrid system start effect function	Controls pointers of combination meter, back light illumination and information display at startup of the hybrid system to produce illumination effects.	MWI-13, "METER EFFECT FUNCTION : System Description"
	Driver welcome function	Controls meter illumination to produce illumination effects when getting in the vehicle.	

METER SYSTEM : Fail-safe

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

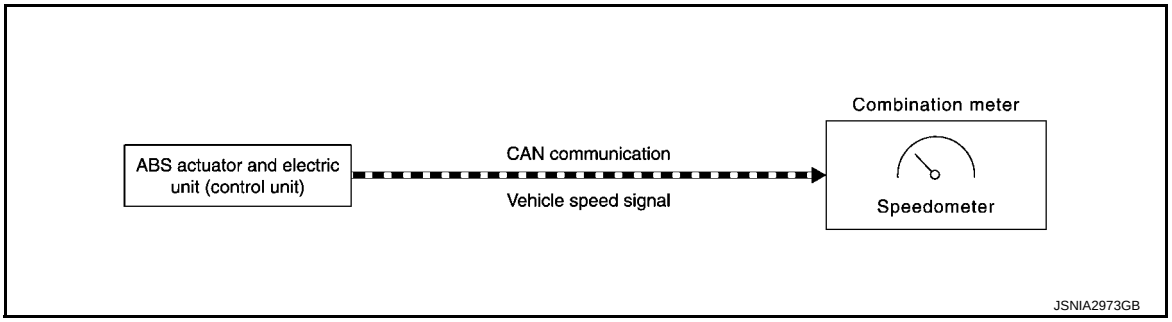
Function		Specifications
Speedometer		Reset to zero by suspending communication.
Tachometer		
Power meter		
Meter illumination control		When suspending communication, changes to nighttime mode.
Buzzer		Turns OFF by suspending communication.
Information display	Current fuel consumption	The last result calculated during normal condition is indicated.
	Average fuel consumption	
	Average vehicle speed	
	Range (Distance to empty)	
	Driving distance	
	Door open warning	The display turns OFF by suspending communication.
	Lift gate open warning	
	Low tire pressure warning	
	Parking brake release warning	
	Fuel filler cap warning	
	Oil pressure warning	
	CVT warning	
	BSW warning	
	Odo/trip meter	An indicated value is maintained at communications blackout.
	Shift position indicator	The indicator turns OFF by suspending communication.
Warning lamp/indicator lamp	ABS warning lamp	Turns ON by suspending communication.
	Brake warning lamp	
	EPS warning lamp	
	VDC warning lamp	
	AWD warning lamp	
	Malfunction indicator lamp	
	Airbag warning lamp	
	Charge warning lamp	
	VDC OFF indicator lamp	Turns OFF by suspending communication.
	SPORT mode indicator lamp	
	VSP OFF indicator lamp	
	AWD LOCK indicator lamp	
	High beam indicator lamp	
	Turn signal indicator lamp	
	Position lamp indicator lamp	
	BSW indicator lamp	
	ECO mode indicator lamp	
	Front fog lamp indicator lamp	
	Hybrid system warning lamp	
	EV indicator lamp	
	READY to drive indicator lamp	
	Low tire pressure warning lamp	After blinking for 1 minute, the lamp remains ON.

SPEEDOMETER

SPEEDOMETER : System Description

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SYSTEM DIAGRAM



DESCRIPTION

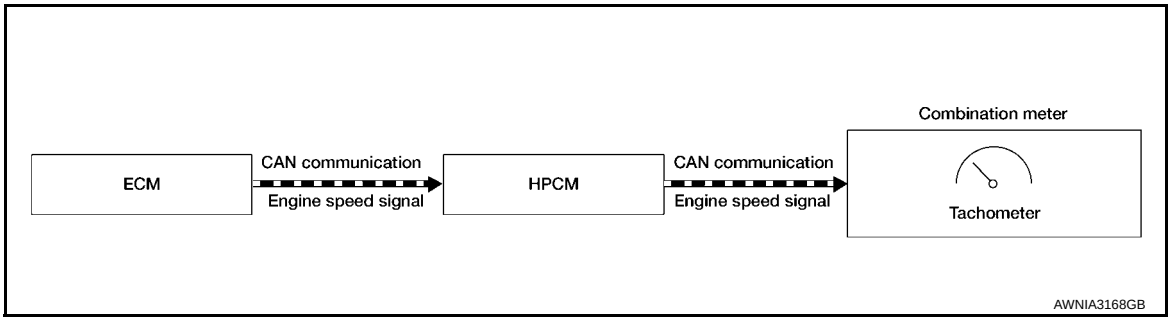
The ABS actuator and electric unit (control unit) receives each wheel speed sensor signal and provides a vehicle speed signal to the combination meter via CAN communication lines.

TACHOMETER

TACHOMETER : System Description

INFOID:0000000015208461

SYSTEM DIAGRAM



DESCRIPTION

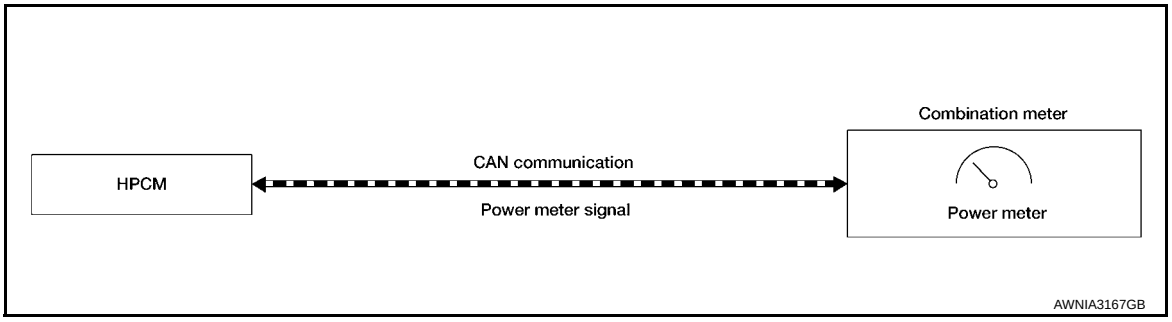
The crank position sensor sends a crankshaft position signal to the ECM. The ECM provides an engine speed signal to the HPCM via CAN communication. The HPCM provides the engine speed signal to the combination meter via CAN communication. The tachometer indicates engine speed in revolutions per minute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

POWER METER

POWER METER : System Description

INFOID:0000000015206718

SYSTEM DIAGRAM



DESCRIPTION

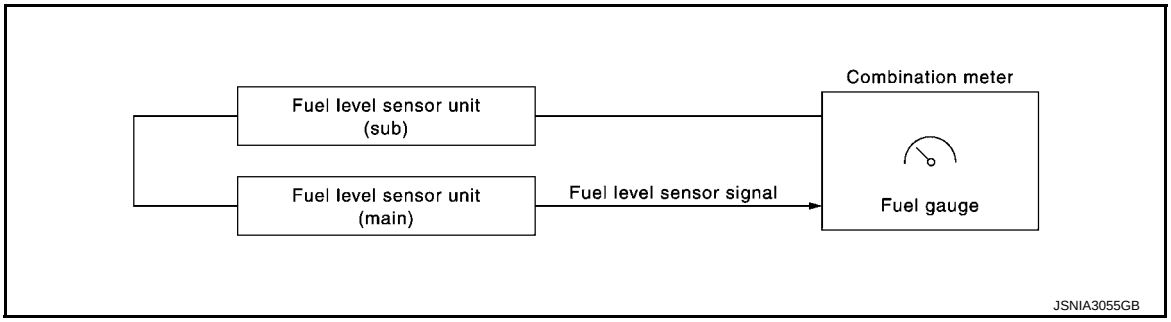
The combination meter indicates an assist charge (power meter) gauge according to the assist charge signal received via CAN communication.

FUEL GAUGE

FUEL GAUGE : System Description

INFOID:0000000014621832

SYSTEM DIAGRAM



DESCRIPTION

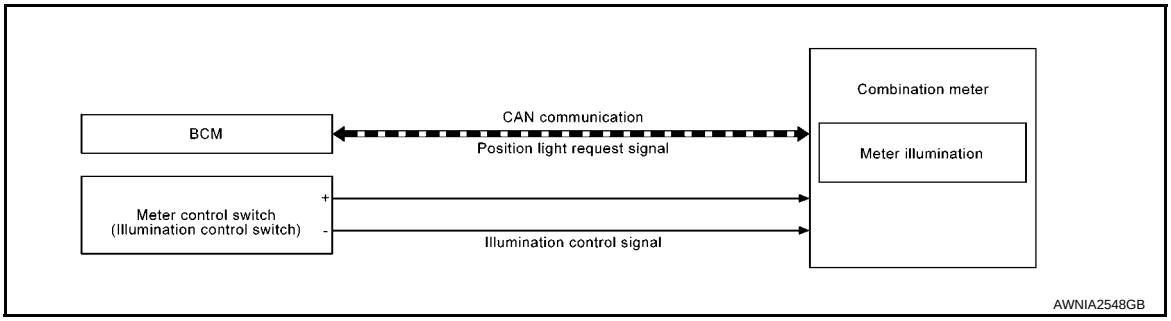
The fuel level sensor unit sends a variable resistor signal to the combination meter. The fuel gauge indicates the approximate fuel level in the fuel tank.

METER ILLUMINATION CONTROL

METER ILLUMINATION CONTROL : System Description

INFOID:0000000014621833

SYSTEM DIAGRAM



DESCRIPTION

Meter Illumination Control Function

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

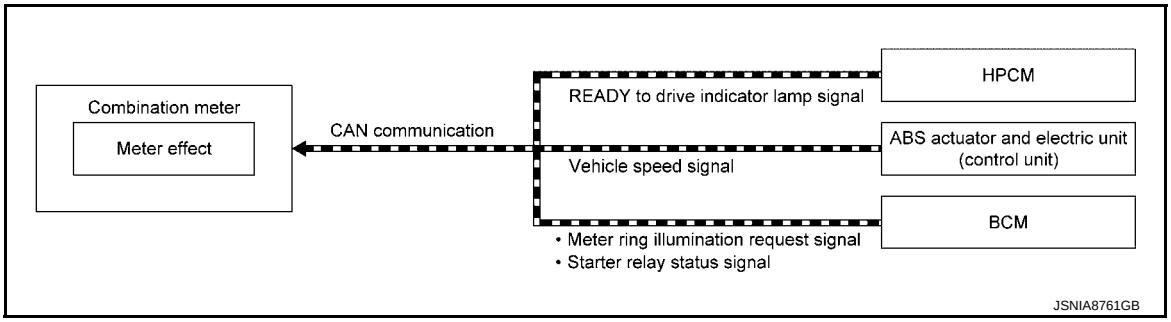
Meter illumination	The number of adjustable steps
Daytime	21 step
Nighttime	21 step

METER EFFECT FUNCTION

METER EFFECT FUNCTION : System Description

INFOID:0000000015208462

SYSTEM DIAGRAM



ENGINE-START EFFECT FUNCTION

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

- Speedometer

- Tachometer
- Power meter
- Fuel gauge
- Meter illumination

Meter and Illumination Operations During Engine-start Effect
The combination meter controls the following items during the engine-start effect:

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

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

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

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

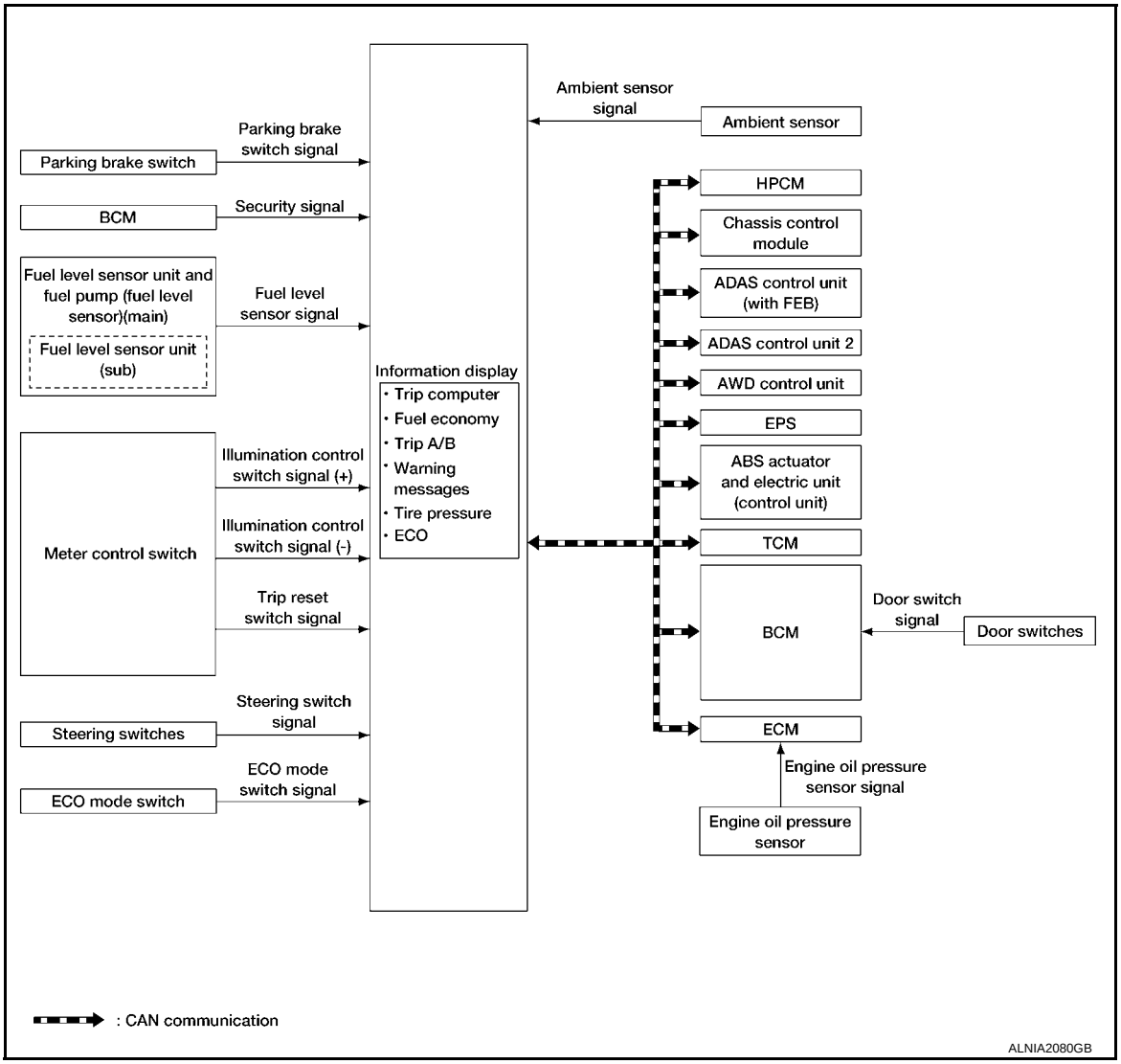
NOTE:
Engine-start effect exits when any of the above operational conditions are canceled during the engine-start effect.

INFORMATION DISPLAY

INFORMATION DISPLAY : System Description

INFOID:0000000015206724

SYSTEM DIAGRAM



FUNCTION

The information display can indicate the following items:

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

OUTSIDE AIR TEMPERATURE INDICATION

The combination meter receives the ambient sensor signal and displays the ambient temperature in the information display.

LOOSE FUEL CAP MESSAGE

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

LOW TIRE PRESSURE WARNING

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

DOOR OPEN WARNING

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

LIFTGATE OPEN WARNING

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

LOW FUEL WARNING

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

RELEASE PARKING BRAKE WARNING

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

SHIFT POSITION INDICATOR

The combination meter activates the shift position indicator and manual mode information based on signals received from TCM via CAN communication.

LOW OIL PRESSURE WARNING

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

WARNING CHECK INDICATION

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

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

COMPASS

COMPASS : Description

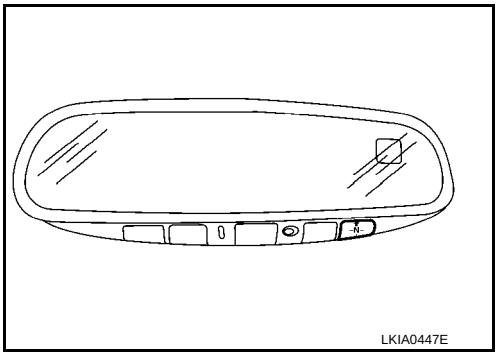
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DESCRIPTION

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

Vehicle direction is displayed as follows:

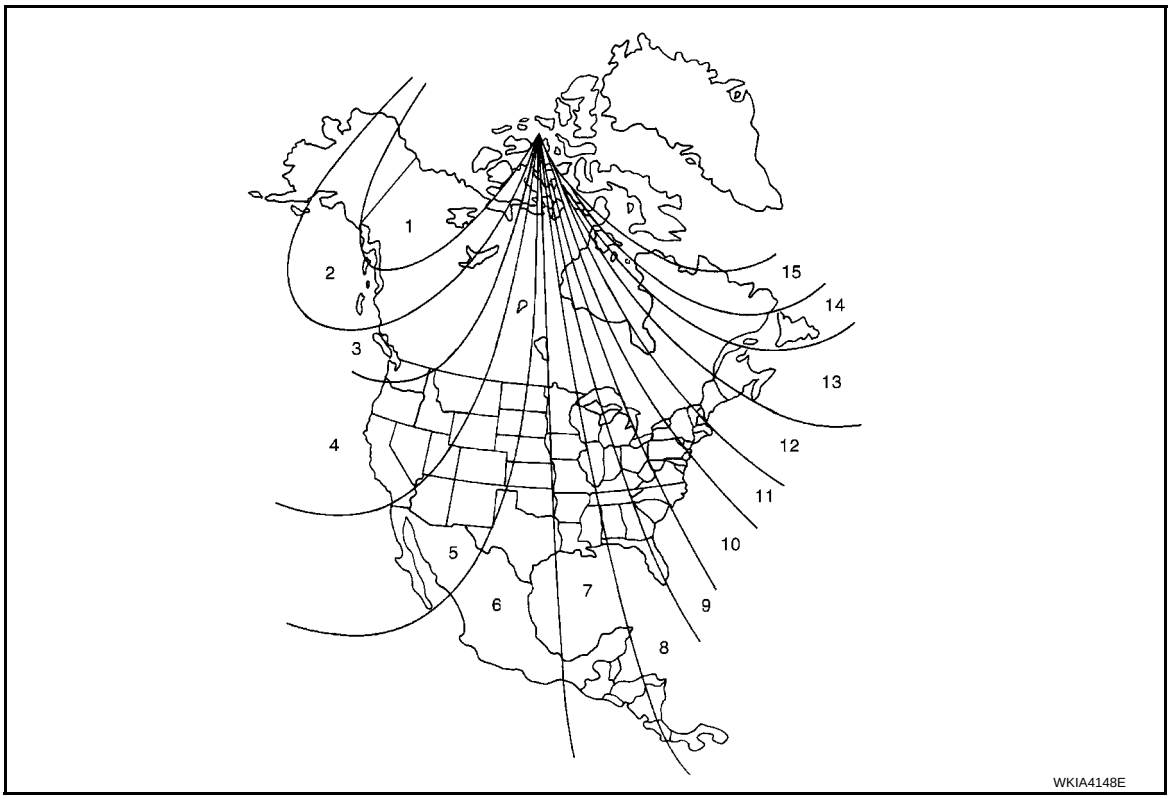
- N: north
- E: east
- S: south
- W: west



ZONE VARIATION SETTING PROCEDURE

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

Zone Variation Chart



1. Determine your location on the zone map.
2. Turn the ignition switch to the ON position.
3. Press and hold the (N) switch for about 5 seconds. The current zone number will appear in the display.
4. Press the mode or (N) switch repeatedly until the desired zone number appears in the display.

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

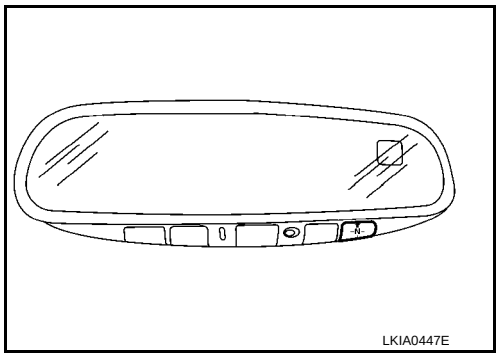
NOTE:
Use zone number 5 for Hawaii.

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.

1. Press and hold the (N) switch for about 10 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 3 turns.

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

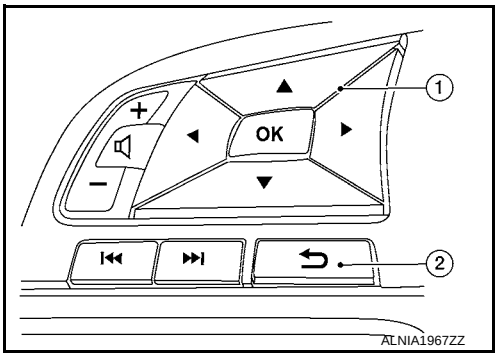


OPERATION

Switch Name and Function

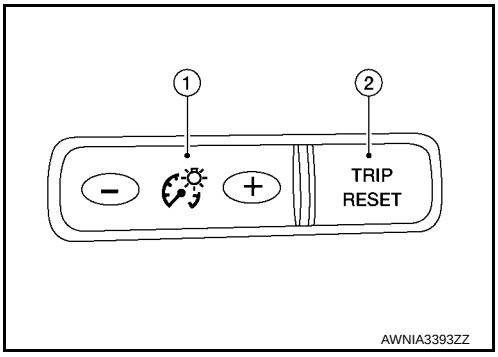
INFOID:0000000015206720

STEERING SWITCH



No.	Switch name	Operation	Description
1.	OK/Up/Down/Left/Right switch	Press	The information display settings can be changed.
2.	Back switch		

METER CONTROL SWITCH



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

DIAGNOSIS SYSTEM (COMBINATION METER)

On Board Diagnosis Function

INFOID:0000000015206725

COMBINATION METER SELF-DIAGNOSIS MODE

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

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

STARTING COMBINATION METER SELF-DIAGNOSIS MODE

NOTE:

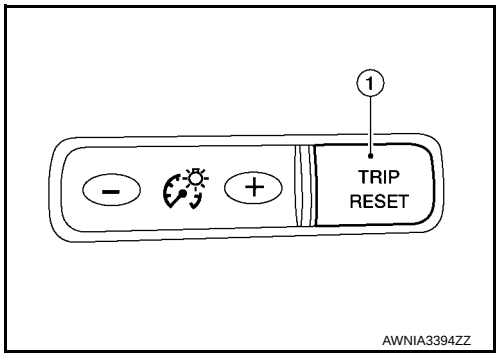
- Check combination meter power supply and ground circuits if self-diagnosis mode does not start. Refer to MWI-62, "COMBINATION METER : Diagnosis Procedure". Replace combination meter if power supply and ground circuits are found to be normal and self-diagnosis mode does not start. Refer toMWI-81, "Removal and Installation".
- Combination meter self-diagnosis mode will function with the ignition switch in ON. Combination meter self-diagnosis mode will exit upon turning the ignition switch to OFF.

How to Initiate Self-Diagnosis Mode

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

NOTE:

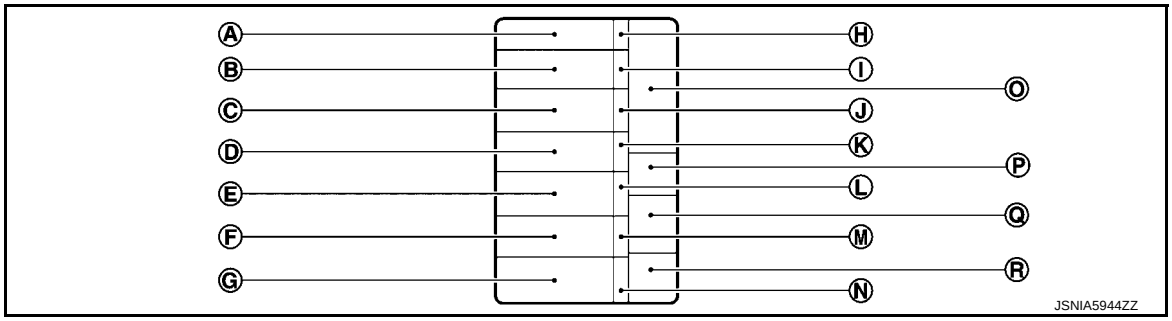
If the trip reset switch is not operated for 20 seconds or more, the self-diagnosis mode is automatically cancelled.



Test order	Test item	Description
1	Work instruction code	This item is displayed, but not used.
2	Part number	
3	Software code	
4	EEPROM code	
5	Hardware code	
6	P.C.B code	
7	Circuit check	The pointer of the following items moves from 0 to MAX twice. • Speedometer • Tachometer • Power meter • Fuel gauge **NOTE:** If any one of the pointers does not sweep, replace combination meter.
8	Color check*1	Performs the color check of the information display.

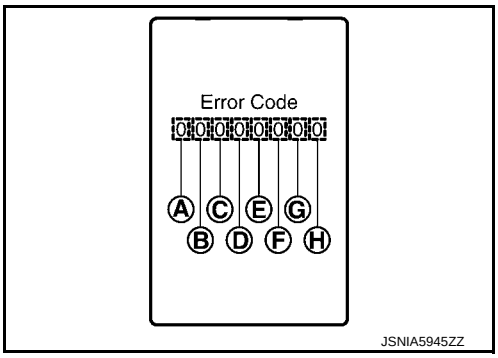
Test order	Test item	Description
9	error code*2	Displays the error code of the following items: • Speedometer • Tachometer • Power meter • Fuel gauge • Meter control switch
10	Warning/indicator lamp check	All warning/indicator lamp illuminate. **NOTE:** • When either one of them does not turn ON, replace combination meter. • SRS air bag warning lamp and security indicator lamp are not illuminate.

NOTE:
When the trip reset switch is pressed during the indication of Test order “10,” test item returns to Test order “2.”
*1: Color Check



Ⓐ Blue	Ⓑ Red	Ⓒ Pink
Ⓓ Green	Ⓔ Light blue	Ⓕ Yellow
Ⓖ White	Ⓗ White	Ⓘ Black
Ⓙ Light blue	Ⓚ Black	Ⓛ Pink
Ⓜ Black	Ⓝ Blue	Ⓞ Black
Ⓟ Dark blue	Ⓠ White	Ⓡ Blue

*2: Error Code



Item		Code	Description	Action to take/Reference
Ⓐ	Speedometer	0	Normal	—
		1	A vehicle speed signal cannot be received from ABS actuator and electric unit (control unit).	Perform “Self Diagnostic Result” of “ABS.” Refer to BRC-61, "DTC Index".
		2	A vehicle speed signal received from the ABS actuator and electric unit (control unit) is abnormal.	

Item		Code	Description	Action to take/Reference
Ⓑ	Tachometer	0	Normal	—
		1	An engine speed signal cannot be received from HPCM.	Perform “Self Diagnostic Result” of “HPCM.” Refer to HBC-71, "DTC Index".
Ⓒ	Fuel gauge	0	Normal	—
		1	Fuel gauge circuit is short.	Refer to MWI-64, "Component Function Check".
		2	Fuel gauge circuit is open.	
Ⓓ	Power meter	0	Normal	—
		1	An assist charge (power meter) signal cannot be received from HPCM.	Perform “Self Diagnostic Result” of “HPCM.” Refer to HBC-71, "DTC Index".
Ⓔ	Meter control switch	0	Normal	—
		1	When judging that the illumination control switch signal circuit is shorted for 5 minutes or more.	Refer to MWI-69, "Diagnosis Procedure".
		2	When judging that the trip reset switch signal circuit is shorted for 5 minutes or more.	
		3	When judging that the both switch signal circuit is shored for 5 minutes or more.	
Ⓕ	—	0	Displays “0” constantly.	—
Ⓖ	—	0	Displays “0” constantly.	—
Ⓗ	—	0	Displays “0” constantly.	—

How to Reset Error Code

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

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

CONSULT Function (METER/M&A)

INFOID:0000000015206726

APPLICATION ITEMS

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

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

SELF DIAG RESULT

Refer to MWI-32, "DTC Index".

DATA MONITOR

Display Item List

X: Applicable

Display item [Unit]	MAIN SIGNALS	Description
SPEED METER	X	Displays the value of vehicle speed signal.
SPEED OUTPUT [mph or km/h]	X	Vehicle speed signal value transmitted to other units via CAN communication.
ODO OUTPUT [mph or km/h]		Odometer signal value transmitted to other units via CAN communication.
TACHO METER [rpm]	X	Value of the engine speed signal received from HPCM via CAN communication.
FUEL METER [L]	X	Fuel level indicated on combination meter.
W TEMP METER [°F] or [°C]	X	Displays the value of engine coolant temperature signal, which is input from HPCM.
ABS W/L [On/Off]		Displays [ON/OFF] condition of ABS warning indicator.
VDC/TCS IND [On/Off]		Displays [ON/OFF] condition of VDC OFF indicator lamp.
SLIP IND [On/Off]		Displays [ON/OFF] condition of SLIP indicator lamp.
BRAKE W/L [On/Off]		Displays [ON/OFF] condition of brake warning indicator.
DOOR W/L [On/Off]		Displays [ON/OFF] condition of door or back door warning message in the information display.
HI-BEAM IND [On/Off]		Displays [ON/OFF] condition of high beam indicator.
TURN IND [On/Off]		Displays [ON/OFF] condition of turn indicator.
LIGHT IND [On/Off]		Displays [ON/OFF] condition of light indicator.
FR FOG IND [On/Off]		Displays [ON/OFF] condition of front fog lamp indicator.
OIL W/L [On/Off]		Displays [ON/OFF] condition of low oil pressure warning message in the information display.
MIL [On/Off]		Displays [ON/OFF] condition of malfunction indicator.
BA W/L [On/Off]		Displays [ON/OFF] condition of FEB warning lamp judged from FEB warning lamp signal received from ADAS control unit via CAN communication.
SPORT IND [On/Off]		Displays [ON/OFF] condition of SPORT indicator.
CHAGE W/L [On/Off]		Displays [ON/OFF] condition of charge warning indicator.
4WD LOCK IND [On/Off]		Displays [ON/OFF] condition of AWD LOCK indicator lamp.
4WD W/L [On/Off]		Displays [ON/OFF] condition of AWD warning message in the information display.
FUEL W/L [On/Off]		Displays [ON/OFF] condition of low-fuel warning message.
AIR PRES W/L [On/Off]		Displays [ON/OFF] condition of tire pressure warning lamp.
KEY G/Y W/L [On/Off]		Displays [ON/OFF] condition of key green warning lamp.

Display item [Unit]	MAIN SIGNALS	Description
EPS W/L [On/Off]		Displays [ON/OFF] condition of EPS warning indicator.
READY IND [On/Off]		Displays [ON/OFF] condition of READY to drive indicator lamp.
SYS FAIL W/L [On/Off]		Displays [ON/OFF] condition of hybrid system warning lamp.
LCD		Displays the value of Intelligent Key system message indication.
ECO MODE IND [On/Off]		Displays [ON/OFF] condition of ECO mode indicator lamp.
HEV BRAKE W/L [On/Off]		Displays [ON/OFF] condition of brake system warning lamp.
SHIFT IND [P, R, N, D, L]		Displays shift selector position.
FUEL CAP W/L [On/Off]		Displays [ON/OFF] condition of loose fuel cap warning message.
M RANGE SW [On/Off]		Displays [ON/OFF] condition of manual mode switch.
NM RANGE SW [On/Off]		Displays [ON/OFF] condition of non-manual mode switch.
AT SFT UP SW [On/Off]		Displays [ON/OFF] condition of manual mode shift up switch.
AT SFT DWN SW [On/Off]		Displays [ON/OFF] condition of manual mode shift down switch.
PKB SW [On/Off]		Displays [ON/OFF] condition of parking brake switch.
BUCKLE SW [On/Off]		Displays [ON/OFF] condition of seat belt buckle switch LH.
ECO MODE SW [On/Off]		Displays [ON/OFF] condition of ECO mode switch.
BRAKE OIL SW [On/Off]		Displays [ON/OFF] condition of brake fluid level switch.
DISTANCE [Mi] or [km]		Displays distance to empty.
OUTSIDE TEMP [°F or °C]		Displays the ambient air temperature which is input from the ambient sensor.
STRG SW INPUT [SW 1-SW 12, NOT INPUT]		Displays [SW 1-SW 12, NOT INPUT] condition of steering switches.
FCW IND [On/Off]		Displays [ON/OFF] condition of FCW system display detected from meter display signal is received from ADAS control unit via CAN communication.
LDW IND [On/Off]		Displays [ON/OFF] condition of LDW system display detected from meter display signal is received from around view monitor control unit via CAN communication.
BUZZER [On/Off]	X	Buzzer status (in the combination meter) is detected from the buzzer output signal received from each unit via CAN communication and the warning output condition of the combination meter.
TPMS FLT TIRE [On/Off]		Displays [ON/OFF] condition of flat tire detected from tire pressure data signal is received from BCM via CAN communication.
TPMS PRESS L [On/Off]		Displays [ON/OFF] condition of tire pressure low from tire pressure data signal is received from BCM via CAN communication
ASCD SPD BLINK [On/Off]		Blinking status of ASCD set vehicle speed judged by the ASCD status signal received from HPCM via CAN communication.
ASCD STATUS [Off, ASCD, CRUISE]		Status of ASCD status display judged by the ASCD status signal received from HPCM via CAN communication.

Display item [Unit]	MAIN SIGNALS	Description
ASCD REQ SPD [km/h/Off]		ASCD set vehicle speed value judged by the ASCD status signal received from HPCM via CAN communication.
BSW IND [On/Off]		Displays [ON/OFF] condition of blind spot warning indicator.
ASSIST/CHARGE GAUGE [%]		Displays [%] of assist charge gauge judged from an assist charge signal received from HPCM via CAN communication.
EV IND [On/Off]		Displays [ON/OFF] condition of EV indicator lamp judged from an EV indicator lamp signal received from HPCM via CAN communication.
HI-BEAM ASST IND [mph/Off]		Displays [ON/OFF] condition of high beam assist indicator lamp from high beam assist indicator lamp signal is received from BCM via CAN communication.
CHASSIS CONTROL WARN [On/Off]		Displays [ON/OFF] condition of chassis control warning from chassis control malfunction signal is received from chassis control module via CAN communication.
VSP OFF IND [On/Off]		Displays [ON/OFF] condition of VSP OFF indicator lamp judged from VSP OFF indicator lamp signal received from VSP control unit via CAN communication.
LOW LI-ION BAT CHG WARN [LO BAT, RESTRT, Off]		Displays [LO BAT, RESTRT, OFF] condition of low battery charge warning from low battery charge warning request signal is received form HPCM via CAN communication.

WORK SUPPORT

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

WARNING HISTORY

Special menu

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

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

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

ECU DIAGNOSIS INFORMATION

COMBINATION METER

Reference Value

INFOID:0000000015206727

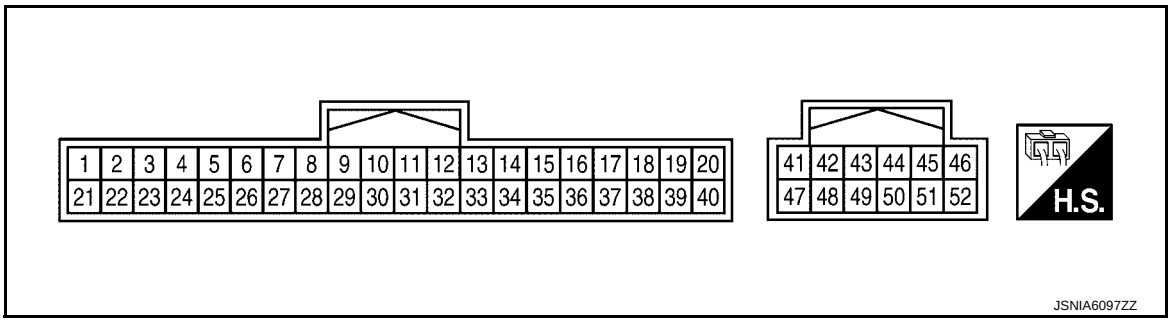
VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition		Value/Status
SPEED METER [mph or km/h]	Ignition switch ON	While driving.	Input value of vehicle speed signal (CAN communication signal).
SPEED OUTPUT [mph or km/h]	Ignition switch ON	While driving.	Output value of vehicle speed signal (CAN communication signal).
ODO OUTPUT [mph or km/h]	Ignition switch ON	—	Output value of odometer signal (CAN communication signal).
TACHO METER [rpm]	Ignition switch ON	Engine running.	Input value of engine speed signal (CAN communication signal).
FUEL METER [L]	Ignition switch ON	—	Input value of fuel level sensor signal.
W TEMP METER [°F] or [°C]	Ignition switch ON	—	Input value of engine coolant temperature signal (CAN communication signal).
ABS W/L	Ignition switch ON	ABS warning lamp ON.	On
		ABS warning lamp OFF.	Off
VDC/TCS IND	Ignition switch ON	VDC OFF indicator lamp ON.	On
		VDC OFF indicator lamp OFF.	Off
SLIP IND	Ignition switch ON	VDC warning lamp ON.	On
		VDC warning lamp OFF.	Off
BRAKE W/L	Ignition switch ON	Brake warning lamp ON.	On*1
		Brake warning lamp OFF.	Off
DOOR W/L	Ignition switch ON	Door or back door open warning displayed.	On
		Other than the above	Off
HI-BEAM IND	Ignition switch ON	High beam indicator lamp ON.	On
		High beam indicator lamp OFF.	Off
TURN IND	Ignition switch ON	Turn signal indicator lamp ON.	On
		Turn signal indicator lamp OFF.	Off
FR FOG IND	Ignition switch ON	Front fog lamp indicator lamp ON.	On
		Front fog lamp indicator lamp OFF.	Off
LIGHT IND	Ignition switch ON	Position lamp indicator lamp ON.	On
		Position lamp indicator lamp OFF.	Off
OIL W/L	Ignition switch ON	Engine oil pressure warning displayed.	On
		Other than the above.	Off
MIL	Ignition switch ON	Malfunction indicator lamp ON.	On
		Malfunction indicator lamp OFF.	Off
BA W/L	Ignition switch ON	FEB warning lamp ON	On
		FEB warning lamp OFF	Off
4WD W/L	Ignition switch ON	AWD warning displayed.	On
		Other than the above.	Off

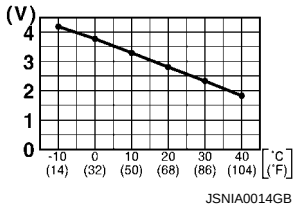
Monitor Item	Condition		Value/Status
4WD LOCK IND	Ignition switch ON	AWD LOCK indicator lamp ON.	On
		Other than the above.	Off
FUEL W/L	Ignition switch ON	Low fuel warning displayed.	On
		Low fuel warning lamp OFF.	Off
AIR PRES W/L	Ignition switch ON	Low tire pressure warning lamp ON.	On
		Low tire pressure warning lamp OFF.	Off
KEY G/Y W/L	Ignition switch ON	Intelligent Key system warning indication.	On
		Other than the above.	Off
EPS W/L	Ignition switch ON	Power steering warning lamp ON.	On
		Power steering warning lamp OFF.	Off
READY IND	Power switch ON	READY to drive indicator lamp ON	On
		READY to drive indicator lamp OFF	Off
SYS FAIL W/L	Ignition switch ON	Hybrid system warning lamp ON	On
		Hybrid system warning lamp OFF	Off
HEV BRAKE W/L	Ignition switch ON	Brake system warning lamp ON	On
		Brake system warning lamp OFF	Off
SPORT IND	Ignition switch ON	Sport mode indicator ON.	On
		Sport mode indicator OFF.	Off
ECO MODE IND	Ignition switch ON	ECO mode indicator ON.	On
		ECO mode indicator OFF.	Off
CHAGE W/L	Ignition switch ON	Charge warning lamp ON.	On
		Charge warning lamp OFF.	Off
SHIFT IND	Ignition switch ON	Shift position indicator displayed.	[P, R, N, D, L]
FUEL CAP W/L	Ignition switch ON	Fuel filler cap warning displayed.	On
		Other than the above.	Off
M RANGE SW	Ignition switch ON	Shift selector in manual mode position	On
		Other than the above	Off
NM RANGE SW	Ignition switch ON	Shift selector in manual mode position	Off
		Other than the above	On
AT SFT UP SW	Ignition switch ON	Shift selector operated in the up position	On
		Other than the above	Off
AT SFT DWN SW	Ignition switch ON	Shift selector operated in the down position	On
		Other than the above	Off
PKB SW	Ignition switch ON	Parking brake switch ON.	On
		Parking brake switch OFF.	Off
BUCKLE SW	Ignition switch ON	Driver seat belt not fastened.	On
		Driver seat belt fastened.	Off
ECO MODE SW	Ignition switch ON	ECO mode switch ON.	On
		ECO mode switch OFF.	Off
BRAKE OIL SW	Ignition switch ON	Brake fluid level switch ON.	On
		Brake fluid level switch OFF.	Off
DISTANCE [mi] or [km]	Ignition switch ON	—	Distance to empty.

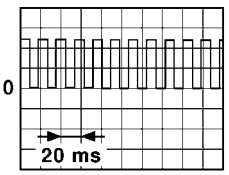
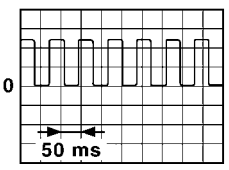
Monitor Item	Condition		Value/Status
OUTSIDE TEMP [°F] or [°C]	Ignition switch ON	—	Displays the ambient air temperature which is input from the ambient sensor.
BUZZER	Ignition switch ON	Buzzer ON.	On
		Buzzer OFF.	Off
TPMS FLT TIRE	Ignition switch ON	Flat tire	On
		Other than above	Off
TPMS PRESS L	Ignition switch ON	Tire pressure is low	On
		Tire pressure is normal	Off
ASCD SPD BLNK	Ignition switch ON	Set vehicle speed indicator blinking	On
		Set vehicle speed indicator not blinking	Off
ASCD STATUS	Ignition switch ON	ASCD and speed limiter system OFF	Off
		ASCD system ON	ASCD
		ASCD set vehicle speed	CRUISE
ASCD REQ SPD [mph or Off]	Ignition switch ON	While driving	Same value as ASCD set vehicle speed
ASSIST/CHARGE GAUGE	Ignition switch ON	Driving force (power generation) rate of traction motor	1 % - 100 %
		When traction motor is not responsible for power generation and traveling	0 %
		Driving force (traveling) rate of traction motor	(-1 %) - (-100 %)
EV IND	Ignition switch ON	EV indicator lamp ON	On
		EV indicator lamp OFF	Off
LCD	Ignition switch ON	Engine start information.	B&P
STRG SW INPUT	Ignition switch ON	Switch is pressed.	SW1-SW12
		Other than above.	NO INPUT
FCW IND	Ignition switch ON	FCW system display ON	On
		FCW system display OFF	Off
LDW IND	Ignition switch ON	LDW system display ON	On
		LDW system display OFF	Off
BSW IND	Ignition switch ON	Blind spot warning lamp ON.	On
		Blind spot warning lamp OFF.	Off
HI-BEAM ASST IND	Ignition switch ON	High beam assist indicator lamp ON	On
		High beam assist indicator lamp OFF	Off
CHASSIS CONTROL WARN	Ignition switch ON	Chassis control warning indication	On
		Other than above	Off
VSP OFF IND	Ignition switch ON	VSP OFF indicator lamp ON	On
		VSP OFF indicator lamp OFF	Off
LOW LI-ION BAT CHG WARN	Ignition switch ON	Shift P warning indication (Li-ion battery capacity level is low)	LO BAT
		Shift P warning indication (Li-ion battery capacity level is empty)	RESTRT
		Other than above	Off

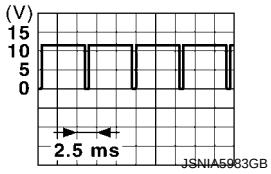
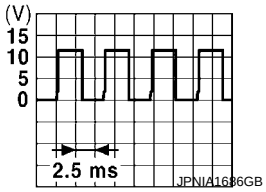
TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
1 (B)	Ground	Ground	—	—	—	0 V
7 (BG)	Ground	Security signal	Input	Ignition switch OFF	Security indicator ON.	0 V
					Security indicator OFF.	Battery voltage
9 (GR)	Ground	ECO mode switch	—	—	—	—
15 (L)	Ground	Ambient sensor signal	Input	Ignition switch ON	—	
17 (BG)	Ground	Meter control switch ground	—	—	—	0 V
18 (SB)	Ground	Trip/reset signal	Input	Ignition switch OFF or ON	Trip/Reset switch is pressed.	0 V
					Other than the above.	5.0 V
20 (Y)	Ground	Ambient sensor ground	—	—	—	0 V
21 (L)	Ground	Steering switch ground	—	—	—	0 V
22 (Y)	Ground	Steering switch output 1	—	—	—	—
23 (GR)	Ground	Steering switch output 2	—	—	—	—
25 (V)	Ground	Brake fluid level switch signal	Input	Ignition switch ON	Brake fluid level low.	0 V
					Brake fluid level normal.	Battery voltage
26 (G)	Ground	Parking brake switch signal	Input	Ignition switch ON	Parking brake applied.	0 V
					Parking brake released.	Battery voltage

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
28 (Y)	Ground	Seat belt buckle switch signal LH	Input	Ignition switch ON	When driver seat belt is fastened.	Battery voltage
					When driver seat belt is unfastened.	0 V
29 (R)	Ground	Sport mode switch signal	—	—	—	—
30 (LG)	Ground	Manual mode signal	Input	Ignition switch ON	Selector lever manual mode position	0 V
					Other than the above	Battery voltage
31 (SB)	Ground	Non-manual mode signal	Input	Ignition switch ON	Selector lever manual mode position	Battery voltage
					Other than the above	0 V
32 (BG)	Ground	Manual mode shift up signal	Input	Ignition switch ON	Shift selector UP operation	0 V
					Other than the above	Battery voltage
33 (BR)	Ground	Manual mode shift down signal	Input	Ignition switch ON	Shift selector DOWN operation	0 V
					Other than the above	Battery voltage
36 (GR)	Ground	Illumination control switch signal (+)	Input	Ignition switch OFF or ON	When illumination control switch (+) is pressed.	0 V
					Other than the above.	5.0 V
37 (V)	Ground	Illumination control switch signal (-)	Input	Ignition switch OFF or ON	When illumination control switch (-) is pressed.	0 V
					Other than the above.	5.0 V
38 (G)	Ground	Vehicle speed signal (8-pulse)	Output	Ignition switch ON	Speedometer operated [When vehicle speed is approx. 25 MPH (40 km/h)].	**NOTE:** The maximum voltage varies depending on the specification (destination unit).  JSNIA0012GB
39 (W)	Ground	Vehicle speed signal (2-pulse)	Output	Ignition switch ON	Speedometer operated [When vehicle speed is approx. 25 MPH (40 km/h)].	**NOTE:** The maximum voltage varies depending on the specification (destination unit).  JSNIA0015GB

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
41 (L)	Ground	CAN high	—	—	—	—
42 (P)	Ground	CAN low	—	—	—	—
43 (R)	Ground	Illumination control signal	Output	Ignition switch ON	• Lighting switch 1st position • When meter illumination is minimum.	
					• Lighting switch 1st position • When meter illumination is step 11.	
					• Lighting switch 1st position • When meter illumination is maximum.	0 V
44 (LA/B)	Ground	Fuel level sensor ground	—	Ignition switch ON	—	0 V
45 (G)	Ground	Battery power supply	—	—	—	Battery voltage
46 (V)	Ground	Ignition signal	—	Ignition switch ON or START	—	Battery voltage
47 (SB)	Ground	M CAN high	—	—	—	—
48 (LG)	Ground	M CAN low	—	—	—	—
51 (LA/L)	Ground	Fuel level sensor signal	—	Ignition switch ON	Fuel gauge indication position.	Battery voltage
52 (B)	Ground	Ground	—	—	—	0 V

Fail-safe

INFOID:0000000015206728

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

Function		Specifications
Speedometer		Reset to zero by suspending communication.
Tachometer		
Power meter		
Meter illumination control		When suspending communication, changes to nighttime mode.
Buzzer		Turns OFF by suspending communication.
Information display	Current fuel consumption	The last result calculated during normal condition is indicated.
	Average fuel consumption	
	Average vehicle speed	
	Range (Distance to empty)	
	Driving distance	
	Door open warning	The display turns OFF by suspending communication.
	Lift gate open warning	
	Low tire pressure warning	
	Parking brake release warning	
	Fuel filler cap warning	
	Oil pressure warning	
	CVT warning	
	BSW warning	
	Odo/trip meter	An indicated value is maintained at communications blackout.
	Shift position indicator	The indicator turns OFF by suspending communication.
Warning lamp/indicator lamp	ABS warning lamp	Turns ON by suspending communication.
	Brake warning lamp	
	EPS warning lamp	
	VDC warning lamp	
	AWD warning lamp	
	Malfunction indicator lamp	
	Airbag warning lamp	
	Charge warning lamp	
	VDC OFF indicator lamp	Turns OFF by suspending communication.
	SPORT mode indicator lamp	
	VSP OFF indicator lamp	
	AWD LOCK indicator lamp	
	High beam indicator lamp	
	Turn signal indicator lamp	
	Position lamp indicator lamp	
	BSW indicator lamp	
	ECO mode indicator lamp	
	Front fog lamp indicator lamp	
	Hybrid system warning lamp	
	EV indicator lamp	
	READY to drive indicator lamp	
	Low tire pressure warning lamp	After blinking for 1 minute, the lamp remains ON.

DTC Index

INFOID:0000000015206729

DTC	CONSULT Display	Refer to
U1000	CAN COMM CIRCUIT	MWI-56, "DTC Description"
U1010	CONTROL UNIT (CAN)	MWI-57, "DTC Description"
B2205	VEHICLE SPEED	MWI-58, "DTC Description"
B2267	ENGINE SPEED	MWI-59, "DTC Description"
B2268	WATER TEMP	MWI-60, "DTC Description"
B2323	ILLUMINATION OUTPUT CIRCUIT	MWI-61, "DTC Description"

BCM (BODY CONTROL MODULE)

List of ECU Reference

INFOID:0000000015215155

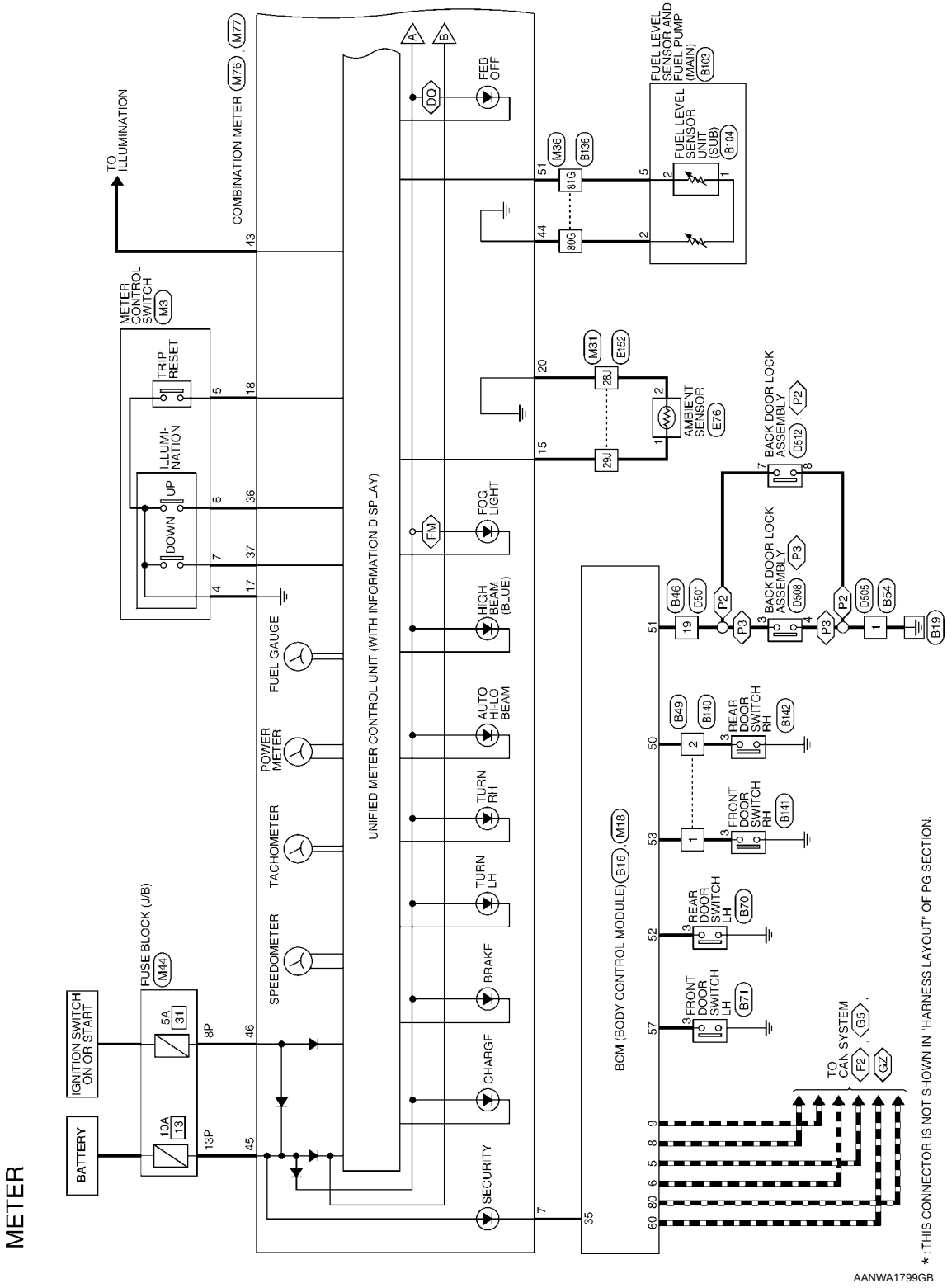
ECU	Reference
BCM	BCS-28, "Reference Value"
	BCS-46, "Fail-safe"
	BCS-47, "DTC Inspection Priority Chart"
	BCS-48, "DTC Index"

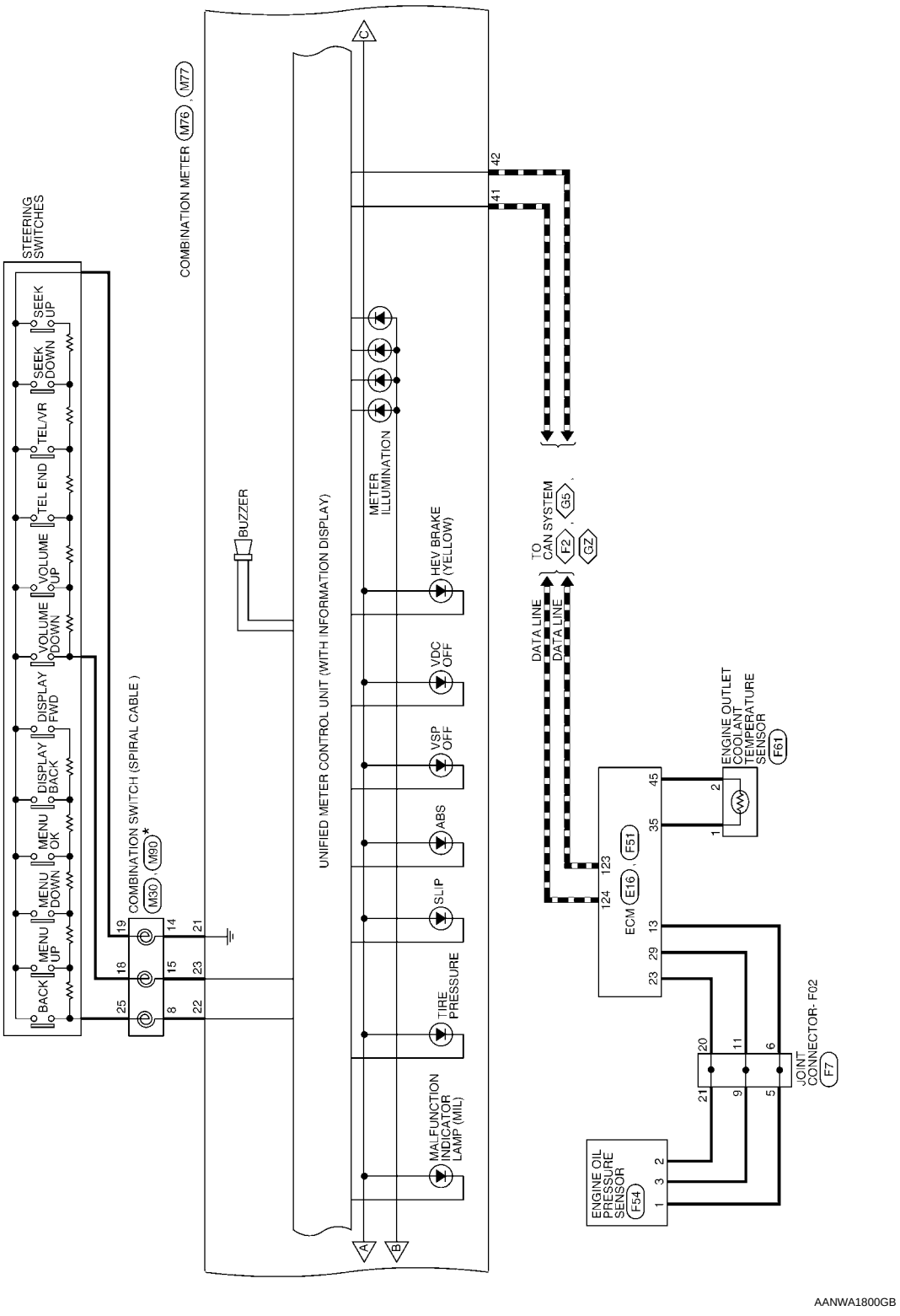
WIRING DIAGRAM

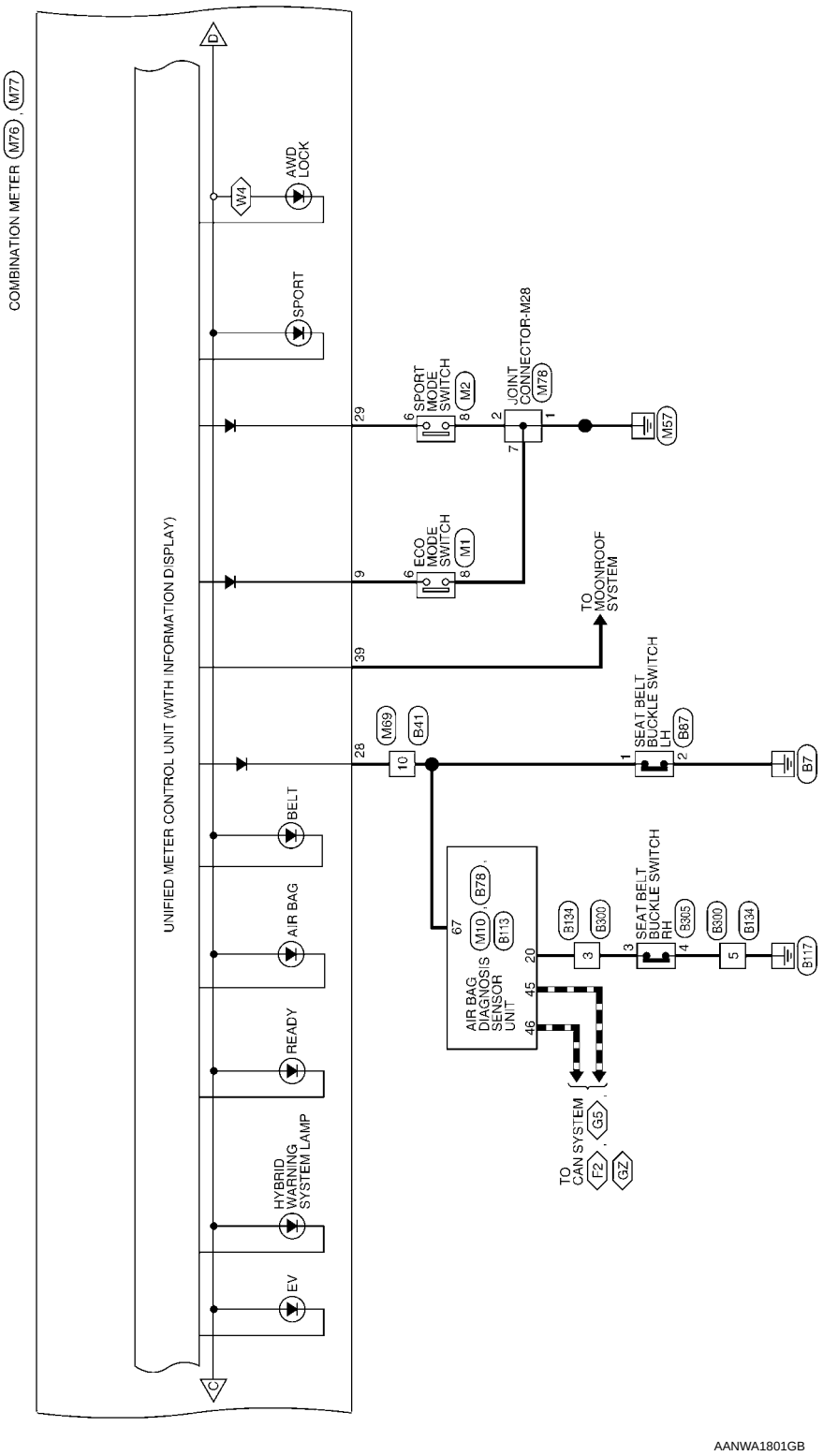
METER SYSTEM

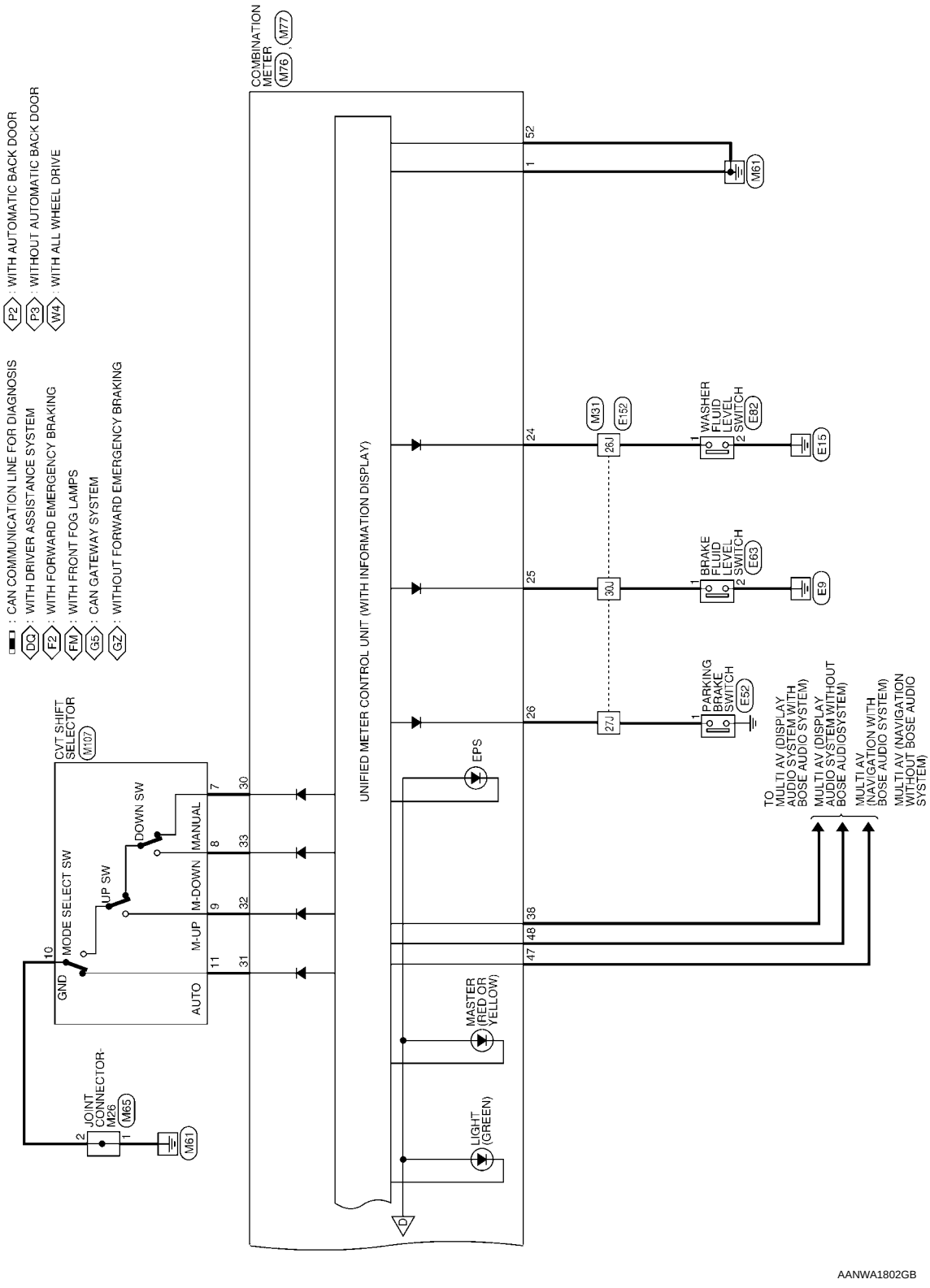
Wiring Diagram

INFOID:0000000014621844




COMBINATION METER (M76), (M77)
UNIFIED METER CONTROL UNIT (WITH INFORMATION DISPLAY)
METER ILLUMINATION
BUZZER
HEV BRAKE (YELLOW)
VDC OFF
VSP OFF
ABS
SLIP
TIRE PRESSURE
MALFUNCTION INDICATOR LAMP (MIL)
STEERING SWITCHES
BACK
MENU UP
MENU DOWN
MENU OK
DISPLAY BACK
DISPLAY FWD
VOLUME DOWN
VOLUME UP
TEL END
TEL/VR
SEEK DOWN
SEEK UP
COMBINATION SWITCH (SPIRAL CABLE) (M30), (M90)
DATA LINE
DATA LINE
TO CAN SYSTEM (F2), (G5), (G2)
ECM (E16), (F51)
ENGINE OUTLET COOLANT TEMPERATURE SENSOR (F61)
ENGINE OIL PRESSURE SENSOR (F54)
JOINT CONNECTOR- F02 (F7)
AANWA1800GB


COMBINATION METER (M76), (M77)
UNIFIED METER CONTROL UNIT (WITH INFORMATION DISPLAY)
AWD LOCK
SPORT
BELT
AIR BAG
READY
HYBRID WARNING SYSTEM LAMP
EV
W4
SPORT MODE SWITCH M2
ECO MODE SWITCH M1
JOINT CONNECTOR-M28 M78
M57
TO MOONROOF SYSTEM
SEAT BELT BUCKLE SWITCH LH B87
B7
M69 B41
AIR BAG DIAGNOSIS SENSOR UNIT M10, B78, B113
SEAT BELT BUCKLE SWITCH RH B365
B134 B300
B117
TO CAN SYSTEM F2, G5, GZ
AANWA1801GB

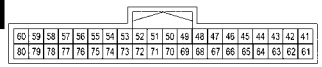


AANWA1802GB

METER CONNECTORS

Connector No.	B16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH
Connector Color	GREEN

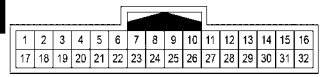
H.S.



Terminal No.	Color of Wire	Signal Name
41	–	–
42	–	–
43	–	–
44	–	–
45	–	–
46	R	SES BACKDOOR BUTTON SW
47	–	–
48	–	–
49	G	NO TOUCH TGATE SENSOR
50	W	RR DOOR SW
51	LG	TGATE SW
52	R	RL DOOR SW
53	SB	AS DOOR2 SW
54	–	–
55	LA/G	RR AUTOSTOP SW
56	Y	TGATE OPENER SW
57	SB	DR DOOR2 SW
58	–	–
59	–	–
60	L	CAN-H
61	V	SES EXT REAR ANTENNA B
62	Y	SES INT MIDDLE ANTENNA B
63	L	SES INT MIDDLE ANTENNA A
64	LG	SES EXT REAR ANTENNA A
65	–	–
66	–	–
67	–	–
68	–	–
69	–	–
70	–	–
71	–	–
72	–	–
73	–	–
74	–	–
75	–	–
76	–	–
77	V	SHIFT LOCK RLY
78	–	–
79	LA/W	STOP LAMP3
80	P	CAN-L

Connector No.	B41
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	SB	TO MAIN HARNESS
2	SB	TO MAIN HARNESS
3	L	TO MAIN HARNESS
4	L	TO MAIN HARNESS
5	W	TO MAIN HARNESS
6	Y	TO MAIN HARNESS
7	LG	TO MAIN HARNESS
8	BG	TO MAIN HARNESS
9	BR	TO MAIN HARNESS
10	Y	TO MAIN HARNESS
11	G	TO MAIN HARNESS
12	L	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	GR	TO MAIN HARNESS
15	Y	TO MAIN HARNESS
16	P	TO MAIN HARNESS
17	R	TO MAIN HARNESS
18	W	TO MAIN HARNESS
19	R	TO MAIN HARNESS
20	–	TO MAIN HARNESS
21	–	TO MAIN HARNESS
22	–	TO MAIN HARNESS
23	–	TO MAIN HARNESS
24	P	TO MAIN HARNESS
25	L	TO MAIN HARNESS
26	G	TO MAIN HARNESS
27	R	TO MAIN HARNESS
28	L	TO MAIN HARNESS
29	SHIELD	TO MAIN HARNESS
30	W	TO MAIN HARNESS
31	B	TO MAIN HARNESS
32	R	TO MAIN HARNESS

Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

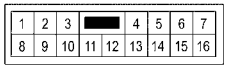
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	TO BACK DOOR HARNESS
2	–	TO BACK DOOR HARNESS
3	–	TO BACK DOOR HARNESS
4	–	TO BACK DOOR HARNESS
5	R	TO BACK DOOR HARNESS
6	B	TO BACK DOOR HARNESS
7	W	TO BACK DOOR HARNESS
8	SHIELD	TO BACK DOOR HARNESS
9	–	TO BACK DOOR HARNESS
10	–	TO BACK DOOR HARNESS
11	–	TO BACK DOOR HARNESS
12	–	TO BACK DOOR HARNESS
13	W	TO BACK DOOR HARNESS
14	V	TO BACK DOOR HARNESS
15	BR	TO BACK DOOR HARNESS
16	SB	TO BACK DOOR HARNESS
17	LA/W	TO BACK DOOR HARNESS
18	LA/BR	TO BACK DOOR HARNESS
19	LG	TO BACK DOOR HARNESS
20	G	TO BACK DOOR HARNESS
21	G	TO BACK DOOR HARNESS
22	LA/R	TO BACK DOOR HARNESS
23	LA/R	TO BACK DOOR HARNESS
24	R	TO BACK DOOR HARNESS
25	–	TO BACK DOOR HARNESS
26	–	TO BACK DOOR HARNESS
27	–	TO BACK DOOR HARNESS
28	–	TO BACK DOOR HARNESS
29	Y	TO BACK DOOR HARNESS
30	G	TO BACK DOOR HARNESS
31	GR	TO BACK DOOR HARNESS
32	LG	TO BACK DOOR HARNESS

Connector No.	B49
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	SB	TO BODY NO. 2 HARNESS
2	W	TO BODY NO. 2 HARNESS
3	LA/W	TO BODY NO. 2 HARNESS
4	V	TO BODY NO. 2 HARNESS
5	SB	TO BODY NO. 2 HARNESS
6	LA/BR	TO BODY NO. 2 HARNESS
7	P	TO BODY NO. 2 HARNESS
8	LA/W	TO BODY NO. 2 HARNESS
9	LA/BR	TO BODY NO. 2 HARNESS
10	R	TO BODY NO. 2 HARNESS
11	LA/G	TO BODY NO. 2 HARNESS
12	LA/P	TO BODY NO. 2 HARNESS
13	–	TO BODY NO. 2 HARNESS
14	–	TO BODY NO. 2 HARNESS
15	G	TO BODY NO. 2 HARNESS
16	V	TO BODY NO. 2 HARNESS

Connector No.	B54
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC
Connector Color	WHITE

H.S.



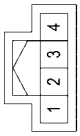
Terminal No.	Color of Wire	Signal Name
1	B	TO BACK DOOR HARNESS
2	–	TO BACK DOOR HARNESS

AANIA5688GB

METER CONNECTORS

Connector No.	B70
Connector Name	REAR DOOR SWITCH LH
Connector Type	TH04FW-NH
Connector Color	WHITE

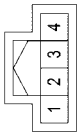
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	R	I RL DOOR SW
4	–	–

Connector No.	B71
Connector Name	FRONT DOOR SWITCH LH
Connector Type	TH04FW-NH
Connector Color	WHITE

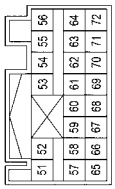
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	SB	I DR DOOR2 SW
4	–	–

Connector No.	B78
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH22FY-2V-EX
Connector Color	YELLOW

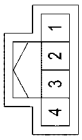
H.S.



Terminal No.	Color of Wire	Signal Name
51	G	LH SQUIB #1+
52	R	LH SQUIB #1-
53	V	LH SQUIB #2+
54	LG	LH SQUIB #2-
55	BR	LH SQUIB #3-
56	Y	LH SQUIB #3+
57	–	–
58	–	–
59	–	–
60	–	–
61	L	LH C-SAT+
62	P	LH C-SAT-
63	–	–
64	–	–
65	P	P-LH1+
66	GR	P-LH1-
67	Y	LH BUCKLE SW +
68	–	–
69	–	–
70	–	–
71	–	–
72	–	–

Connector No.	B87
Connector Name	SEAT BELT BUCKLE SWITCH (LH)
Connector Type	TH04FW-NH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	Y	DR BUCKLE SW
2	B	GROUND
3	–	–
4	–	–

Connector No.	B103
Connector Name	FUEL LEVEL SENSOR UNIT AND FUEL PUMP (MAIN)
Connector Type	E06FGY-RS
Connector Color	GRAY

H.S.



Terminal No.	Color of Wire	Signal Name
1	LA/R	SENSOR GROUND
2	LA/B	FUEL SENSOR GND
3	LA/V	FUEL TANK TEMPERATURE SENSOR
4	LA/B	FUEL PUMP (-)
5	LA/L	FUEL SENSOR
6	LA/GR	FUEL PUMP (+)

Connector No.	B104
Connector Name	FUEL LEVEL SENSOR UNIT (SUB)
Connector Type	-
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	R	FUEL SENSOR
2	G	FUEL SENSOR GROUND

AANIA5689GB

METER CONNECTORS

Connector No.	B113
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH22FY-1V-EX
Connector Color	YELLOW

H.S.

1	2	3	4	5	6
7	8	9	10	11	12	13	14
15	16	17	18	19	20	21	22

Terminal No.	Color of Wire	Signal Name
1	Y	RH SQUIB #1+
2	L	RH SQUIB #1-
3	V	RH SQUIB #2+
4	P	RH SQUIB #2-
5	B	RH SQUIB #3-
6	W	RH SQUIB #3+
7	–	–
8	–	–
9	BG	ODS
10	–	–
11	BR	RH C-SAT+
12	Y	RH C-SAT-
13	–	–
14	–	–
15	–	–
16	–	–
17	–	–
18	–	–
19	–	–
20	SB	RH BUCKLE SW +
21	V	P-RH1-
22	LG	P-RH1+

Connector No.	B134
Connector Name	WIRE TO WIRE
Connector Type	NS06FW-CS
Connector Color	WHITE

H.S.

2		1
6	5	4	3

Terminal No.	Color of Wire	Signal Name
1G	LA/GR	TO MAIN HARNESS
2G	LA/P	TO MAIN HARNESS
3G	Y	TO MAIN HARNESS
4G	L	TO MAIN HARNESS
5G	G	TO MAIN HARNESS
6G	LA/BR	TO MAIN HARNESS
7G	BR	TO MAIN HARNESS
8G	LA/L	TO MAIN HARNESS
9G	LA/R	TO MAIN HARNESS
10G	R	TO MAIN HARNESS
11G	G	TO MAIN HARNESS
12G	Y	TO MAIN HARNESS
13G	BR	TO MAIN HARNESS
14G	–	TO MAIN HARNESS
15G	Y	TO MAIN HARNESS
16G	–	TO MAIN HARNESS
17G	–	TO MAIN HARNESS
18G	R	TO MAIN HARNESS
19G	R	TO MAIN HARNESS

1	LA/BR	TO FRONT SEAT RH HARNESS
2	LA/B	TO FRONT SEAT RH HARNESS
3	SB	TO FRONT SEAT RH HARNESS
4	LA/R	TO FRONT SEAT RH HARNESS
5	B	TO FRONT SEAT RH HARNESS
6	LA/L	TO FRONT SEAT RH HARNESS

Connector No.	B136
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4
Connector Color	WHITE

H.S.

5G	4G	3G	2G	1G
10G	9G	8G	7G	6G

20G	W	TO MAIN HARNESS
21G	P	TO MAIN HARNESS
22G	P	TO MAIN HARNESS
23G	L	TO MAIN HARNESS
24G	W	TO MAIN HARNESS
25G	L	TO MAIN HARNESS
26G	–	TO MAIN HARNESS
27G	–	TO MAIN HARNESS
28G	–	TO MAIN HARNESS
29G	SB	TO MAIN HARNESS
30G	–	TO MAIN HARNESS
31G	–	TO MAIN HARNESS
32G	–	TO MAIN HARNESS
33G	–	TO MAIN HARNESS
34G	V	TO MAIN HARNESS
35G	BR	TO MAIN HARNESS
36G	SHIELD	TO MAIN HARNESS
37G	LG	TO MAIN HARNESS
38G	V	TO MAIN HARNESS
39G	SHIELD	TO MAIN HARNESS
40G	G	TO MAIN HARNESS
41G	R	TO MAIN HARNESS
42G	–	TO MAIN HARNESS
43G	–	TO MAIN HARNESS
44G	BG	TO MAIN HARNESS
45G	SHIELD	TO MAIN HARNESS
46G	W	TO MAIN HARNESS
47G	R	TO MAIN HARNESS
48G	SHIELD	TO MAIN HARNESS
49G	L	TO MAIN HARNESS
50G	Y	TO MAIN HARNESS
51G	–	TO MAIN HARNESS
52G	–	TO MAIN HARNESS
53G	–	TO MAIN HARNESS
54G	–	TO MAIN HARNESS
55G	–	TO MAIN HARNESS
56G	–	TO MAIN HARNESS
57G	–	TO MAIN HARNESS
58G	–	TO MAIN HARNESS
59G	–	TO MAIN HARNESS
60G	GR	TO MAIN HARNESS
61G	V	TO MAIN HARNESS
62G	–	TO MAIN HARNESS
63G	–	TO MAIN HARNESS
64G	–	TO MAIN HARNESS
65G	–	TO MAIN HARNESS
66G	–	TO MAIN HARNESS
67G	–	TO MAIN HARNESS
68G	–	TO MAIN HARNESS
69G	–	TO MAIN HARNESS
70G	–	TO MAIN HARNESS
71G	–	TO MAIN HARNESS
72G	–	TO MAIN HARNESS

73G	–	TO MAIN HARNESS
74G	–	TO MAIN HARNESS
75G	–	TO MAIN HARNESS
76G	–	TO MAIN HARNESS
77G	–	TO MAIN HARNESS
78G	LA/R	TO MAIN HARNESS
79G	LA/V	TO MAIN HARNESS
80G	LA/B	TO MAIN HARNESS
81G	LA/L	TO MAIN HARNESS
82G	–	TO MAIN HARNESS
83G	–	TO MAIN HARNESS
84G	–	TO MAIN HARNESS
85G	–	TO MAIN HARNESS
86G	–	TO MAIN HARNESS
87G	–	TO MAIN HARNESS
88G	–	TO MAIN HARNESS
89G	–	TO MAIN HARNESS
90G	–	TO MAIN HARNESS
91G	R	TO MAIN HARNESS
92G	BR	TO MAIN HARNESS
93G	W	TO MAIN HARNESS
94G	LA/V	TO MAIN HARNESS
95G	V	TO MAIN HARNESS
96G	G	TO MAIN HARNESS
97G	P	TO MAIN HARNESS
98G	GR	TO MAIN HARNESS
99G	LA/Y	TO MAIN HARNESS
100G	Y	TO MAIN HARNESS

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METER CONNECTORS

Connector No.	B140
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

7	6	5	4		3	2	1
16	15	14	13	12	11	10	9	8

Terminal No.	Color of Wire	Signal Name
1	GR	TO BODY HARNESS
2	W	TO BODY HARNESS
3	LA/Y	TO BODY HARNESS
4	V	TO BODY HARNESS
5	SB	TO BODY HARNESS
6	LA/BR	TO BODY HARNESS
7	LA/V	TO BODY HARNESS
8	L	TO BODY HARNESS
9	Y	TO BODY HARNESS
10	R	TO BODY HARNESS
11	V	TO BODY HARNESS
12	LG	TO BODY HARNESS
13	L	TO BODY HARNESS
14	Y	TO BODY HARNESS
15	LA/GR	TO BODY HARNESS
16	LA/LG	TO BODY HARNESS

Connector No.	B142
Connector Name	REAR DOOR SWITCH RH
Connector Type	TH04FW-NH
Connector Color	WHITE

H.S.

1	2	3	4

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	W	I RR DOOR SW
4	–	–

Connector No.	B300
Connector Name	WIRE TO WIRE
Connector Type	NS06MW-CS
Connector Color	WHITE

H.S.

1		2
3	4	5	6

Terminal No.	Color of Wire	Signal Name
1	R	TO BODY NO. 2 HARNESS
2	B	TO BODY NO. 2 HARNESS
3	BR	TO BODY NO. 2 HARNESS
4	G	TO BODY NO. 2 HARNESS
5	P	TO BODY NO. 2 HARNESS
6	W	TO BODY NO. 2 HARNESS

Connector No.	B141
Connector Name	FRONT DOOR SWITCH RH
Connector Type	TH04FW-NH
Connector Color	WHITE

H.S.

1	2	3	4

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	GR	I AS DOOR2 SW
4	–	–

Connector No.	B305
Connector Name	SEAT BELT BUCKLE SWITCH (PASSENGER SEAT)
Connector Type	TH04FW-NH
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	BR	–
2	P	–
3	P	GROUND
4	BR	BUCKLE SW FR RH

Connector No.	D501
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY HARNESS
2	–	TO BODY HARNESS
3	–	TO BODY HARNESS
4	–	TO BODY HARNESS
5	R	TO BODY HARNESS
6	B	TO BODY HARNESS
7	W	TO BODY HARNESS
8	V	TO BODY HARNESS
9	–	TO BODY HARNESS
10	–	TO BODY HARNESS
11	–	TO BODY HARNESS
12	–	TO BODY HARNESS
13	G	TO BODY HARNESS
14	LA/GR	TO BODY HARNESS
15	LA/W	TO BODY HARNESS
16	LA/LG	TO BODY HARNESS
17	Y	TO BODY HARNESS
18	LA/R	TO BODY HARNESS
19	W	TO BODY HARNESS
20	–	TO BODY HARNESS
21	G	TO BODY HARNESS
22	LA/Y	TO BODY HARNESS
23	P	TO BODY HARNESS
24	BR	TO BODY HARNESS
25	–	TO BODY HARNESS
26	–	TO BODY HARNESS
27	–	TO BODY HARNESS
28	–	TO BODY HARNESS
29	V	TO BODY HARNESS
30	G	TO BODY HARNESS
31	BG	TO BODY HARNESS
32	LG	TO BODY HARNESS

Connector No.	D505
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC
Connector Color	WHITE

H.S.

1
2

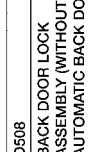
Terminal No.	Color of Wire	Signal Name
1	B	TO BODY HARNESS
2	–	TO BODY HARNESS

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METER CONNECTORS

Connector No.	D508
Connector Name	BACK DOOR LOCK ASSEMBLY (WITHOUT AUTOMATIC BACK DOOR SYSTEM)
Connector Type	NS04FW-CS
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	LA/V	O TGATE OPENER
2	GR	GROUND
3	W	I TGATE SW
4	GR	GROUND

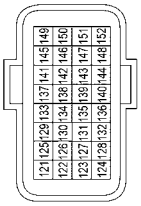
Connector No.	D512
Connector Name	BACK DOOR LOCK ASSEMBLY (WITH AUTOMATIC BACK DOOR SYSTEM)
Connector Type	NS08FW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LA/L	LATCH MTR OPEN
2	LA/G	LATCH MTR CLOSE
3	–	–
4	LA/GR	OPEN SW
5	LA/W	CLOSE SW
6	LA/LG	HALF LATCH SW
7	W	I TGATE SW
8	B	GROUND

Connector No.	E16
Connector Name	ECM
Connector Type	RH24FB-RZ8-L-LH
Connector Color	BLACK

H.S.



Terminal No.	Color of Wire	Signal Name
121	L	EVAP CONTROL SYSTEM PRESSURE SENSOR
122	–	–
123	P	CAN-L
124	L	CAN-H
125	R	SENSOR POWER SUPPLY
126	–	–
127	–	–
128	BG	FUEL TANK TEMPERATURE SENSOR
129	–	–
130	–	–
131	–	–
132	–	–
133	LG	IGNITION SWITCH
134	–	–
135	–	–
136	–	–
137	G	HEV CAN-L
138	L	HEV CAN-H
139	Y	STOP LAMP SWITCH
140	GR	BRAKE PEDAL POSITION SWITCH
141	Y	EVAP CANISTER VENT CONTROL VALVE
142	–	–
143	–	–
144	–	–
145	G	ECM POWER SUPPLY
146	–	–
147	GR	ECM GROUND
148	B	SENSOR GROUND
149	GR	ECM GROUND
150	–	–
151	–	–
152	GR	ECM GROUND

Connector No.	E52
Connector Name	PARKING BRAKE SWITCH
Connector Type	P01FB-A
Connector Color	BLACK

H.S.



Terminal No.	Color of Wire	Signal Name
1	G	PKB SW

Connector No.	E63
Connector Name	BRAKE FLUID LEVEL SWITCH
Connector Type	RH02FB
Connector Color	BLACK

H.S.



Terminal No.	Color of Wire	Signal Name
1	V	BRAKE OIL SW
2	BR	GROUND

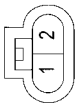
Connector No.	E76
Connector Name	AMBIENT SENSOR
Connector Type	RS02FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	L	OUTSIDE TEMP SENSOR
2	R	OUTSIDE TEMP GND

Connector No.	E82
Connector Name	WASHER FLUID LEVEL SWITCH
Connector Type	HS02FW
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	BR	WASHER SW
2	B	GROUND

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METER CONNECTORS

Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1J	–	TO MAIN HARNESS
2J	Y	TO MAIN HARNESS
3J	–	TO MAIN HARNESS
4J	–	TO MAIN HARNESS
5J	–	TO MAIN HARNESS
6J	–	TO MAIN HARNESS
7J	–	TO MAIN HARNESS
8J	–	TO MAIN HARNESS
9J	BR	TO MAIN HARNESS
10J	–	TO MAIN HARNESS
11J	–	TO MAIN HARNESS
12J	–	TO MAIN HARNESS
13J	–	TO MAIN HARNESS
14J	–	TO MAIN HARNESS
15J	–	TO MAIN HARNESS
16J	–	TO MAIN HARNESS
17J	–	TO MAIN HARNESS
18J	–	TO MAIN HARNESS
19J	–	TO MAIN HARNESS
20J	–	TO MAIN HARNESS
21J	GR	TO MAIN HARNESS
22J	SHIELD	TO MAIN HARNESS
23J	LG	TO MAIN HARNESS
24J	V	TO MAIN HARNESS
25J	L	TO MAIN HARNESS
26J	BR	TO MAIN HARNESS
27J	G	TO MAIN HARNESS

28J	R	TO MAIN HARNESS
29J	L	TO MAIN HARNESS
30J	V	TO MAIN HARNESS
31J	–	TO MAIN HARNESS
32J	–	TO MAIN HARNESS
33J	R	TO MAIN HARNESS
34J	L	TO MAIN HARNESS
35J	BG	TO MAIN HARNESS
36J	LG	TO MAIN HARNESS
37J	GR	TO MAIN HARNESS
38J	BR	TO MAIN HARNESS
39J	–	TO MAIN HARNESS
40J	–	TO MAIN HARNESS
41J	G	TO MAIN HARNESS
42J	W	TO MAIN HARNESS
43J	L	TO MAIN HARNESS
44J	B	TO MAIN HARNESS
45J	SB	TO MAIN HARNESS
46J	BR	TO MAIN HARNESS
47J	W	TO MAIN HARNESS
48J	W	TO MAIN HARNESS
49J	L	TO MAIN HARNESS
50J	P	TO MAIN HARNESS
51J	W	TO MAIN HARNESS
52J	R	TO MAIN HARNESS
53J	SB	TO MAIN HARNESS
54J	LG	TO MAIN HARNESS
55J	W	TO MAIN HARNESS
56J	BG	TO MAIN HARNESS
57J	R	TO MAIN HARNESS
58J	V	TO MAIN HARNESS
59J	BR	TO MAIN HARNESS
60J	P	TO MAIN HARNESS
61J	L	TO MAIN HARNESS
62J	P	TO MAIN HARNESS
63J	L	TO MAIN HARNESS
64J	R	TO MAIN HARNESS
65J	L	TO MAIN HARNESS
66J	BG	TO MAIN HARNESS
67J	–	TO MAIN HARNESS
68J	–	TO MAIN HARNESS
69J	G	TO MAIN HARNESS
70J	L	TO MAIN HARNESS
71J	–	TO MAIN HARNESS
72J	–	TO MAIN HARNESS
73J	–	TO MAIN HARNESS
74J	–	TO MAIN HARNESS
75J	–	TO MAIN HARNESS
76J	–	TO MAIN HARNESS
77J	–	TO MAIN HARNESS
78J	–	TO MAIN HARNESS
79J	SHIELD	TO MAIN HARNESS
80J	B	TO MAIN HARNESS

81J	W	TO MAIN HARNESS
82J	–	TO MAIN HARNESS
83J	–	TO MAIN HARNESS
84J	–	TO MAIN HARNESS
85J	–	TO MAIN HARNESS
86J	–	TO MAIN HARNESS
87J	–	TO MAIN HARNESS
88J	–	TO MAIN HARNESS
89J	–	TO MAIN HARNESS
90J	–	TO MAIN HARNESS
91J	–	TO MAIN HARNESS
92J	LG	TO MAIN HARNESS
93J	L	TO MAIN HARNESS
94J	L	TO MAIN HARNESS
95J	BR	TO MAIN HARNESS
96J	–	TO MAIN HARNESS
97J	GR	TO MAIN HARNESS
98J	P	TO MAIN HARNESS
99J	W	TO MAIN HARNESS
100J	Y	TO MAIN HARNESS

Connector No.	F7
Connector Name	JOINT CONNECTOR-F02
Connector Type	SAA24FB-J
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	–
2	W	REFRIGERANT PRESSURE SENSOR
3	W	REFRIGERANT PRESSURE SENSOR
4	B	SENSOR GROUND
5	B	SENSOR GROUND
6	B	SENSOR GROUND
7	B	SENSOR GROUND
8	–	–
9	Y	SENSOR POWER SUPPLY
10	Y	SENSOR POWER SUPPLY
11	Y	SENSOR POWER SUPPLY
12	Y	SENSOR POWER SUPPLY
13	B	GROUND
14	SHIELD	SHIELD
15	SHIELD	SHIELD
16	SHIELD	SHIELD

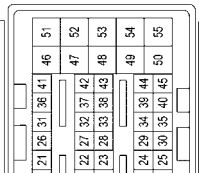
17	B	GROUND
18	–	–
19	–	–
20	G	ENGINE OIL PRESSURE SENSOR
21	G	ENGINE OIL PRESSURE SENSOR
22	–	–
23	G	FUEL RAIL PRESSURE SENSOR
24	G	FUEL RAIL PRESSURE SENSOR

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METER CONNECTORS

Connector No.	F51
Connector Name	ECM
Connector Type	MAB35FB-MEB20-LH
Connector Color	BLACK

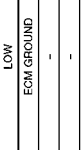
H.S.



Terminal No.	Color of Wire	Signal Name
1	G	FUEL INJECTOR NO. 1, 4 (HI)
2	B	FUEL INJECTOR NO. 2 (LO)
3	L	FUEL INJECTOR NO. 3 (LO)
4	P	FUEL INJECTOR DRIVER POWER SUPPLY-1
5	L	FUEL INJECTOR DRIVER POWER SUPPLY-2
6	P	FUEL INJECTOR NO. 4 (LO)
7	W	FUEL INJECTOR NO. 2, 3 (HI)
8	R	FUEL INJECTOR NO. 1 (LO)
9	GR	ECM GROUND
10	B	ECM GROUND
11	–	–
12	W	REFRIGERANT PRESSURE SENSOR
13	B	SENSOR GROUND
14	GR	SHIELD
15	W	KNOCK SENSOR
16	–	–
17	–	–
18	–	–
19	R	EXHAUST GAS TEMPERATURE SENSOR
20	SHIELD	SHIELD
21	SB	ENGINE COOLING ELECTRIC WATER PUMP SPEED SIGNAL
22	P	ENGINE OIL TEMPERATURE SENSOR
23	G	ENGINE OIL PRESSURE SENSOR
24	–	–
25	G	FUEL RAIL PRESSURE SENSOR
26	B	SENSOR POWER SUPPLY
27	W	SENSOR POWER SUPPLY
28	–	–
29	Y	SENSOR POWER SUPPLY
30	W	SENSOR POWER SUPPLY
31	–	–
32	–	–
33	R	CRANKSHAFT POSITION SENSOR 1
34	–	–
35	BR	ENGINE OUTLET COOLANT TEMPERATURE SENSOR
36	GR	INTAKE AIR TEMPERATURE SENSOR
37	L	MASS AIR FLOW SENSOR
38	–	–
39	R	INTAKE MANIFOLD RUNNER VALVE POSITION SENSOR
40	–	–
41	–	–
42	R	SENSOR GROUND
43	BR	SENSOR GROUND
44	BR	SENSOR GROUND
45	B	SENSOR GROUND
46	–	–
47	V	HIGH PRESSURE FUEL PUMP SUPPLY
48	V	HIGH PRESSURE FUEL PUMP HIGH
49	LG	HIGH PRESSURE FUEL PUMP LOW
50	B	ECM GROUND
51	–	–
52	–	–
53	Y	INTAKE MANIFOLD RUNNER VALVE MOTOR POWER SUPPLY
54	G	INTAKE MANIFOLD RUNNER CONTROL VALVE MOTOR (CLOSE)
55	Y	INTAKE MANIFOLD RUNNER CONTROL VALVE MOTOR (OPEN)

Connector No.	F54
Connector Name	ENGINE OIL PRESSURE SENSOR
Connector Type	RH03FB
Connector Color	BLACK

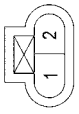
H.S.



Terminal No.	Color of Wire	Signal Name
1	B	SENSOR GROUND
2	G	ENGINE OIL PRESSURE SENSOR
3	Y	SENSOR POWER SUPPLY

Connector No.	F61
Connector Name	ENGINE OUTLET COOLANT TEMPERATURE SENSOR
Connector Type	E02FGY-RS
Connector Color	GRAY

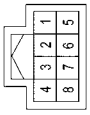
H.S.



Terminal No.	Color of Wire	Signal Name
1	BR	ENGINE OUTLET COOLANT TEMPERATURE SENSOR
2	B	SENSOR GROUND

Connector No.	M1
Connector Name	ECO MODE SWITCH
Connector Type	TH08FGY-NH
Connector Color	GRAY

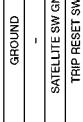
H.S.



Terminal No.	Color of Wire	Signal Name
1	G	ILL CONT OUT
2	–	–
3	–	–
4	GR	GROUND
5	–	–
6	GR	ECO MODE SW
7	–	–
8	GR	GROUND

Connector No.	M2
Connector Name	SPORT MODE SWITCH
Connector Type	TH08FL-NH
Connector Color	BLUE

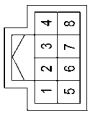
H.S.



Terminal No.	Color of Wire	Signal Name
1	G	ILL CONT OUT
2	–	–
3	–	–
4	GR	GROUND
5	–	–
6	R	SPORT MODE SW
7	–	–
8	GR	GROUND

Connector No.	M3
Connector Name	METER CONTROL SWITCH
Connector Type	TH08FW-NH
Connector Color	WHITE

H.S.



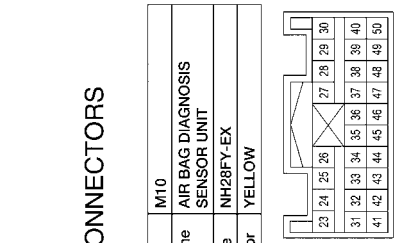
Terminal No.	Color of Wire	Signal Name
1	R	ILL CONT OUT
2	B	GROUND
3	–	–
4	BG	SATELLITE SW GND
5	SB	TRIP RESET SW
6	GR	ILL UP SW
7	V	ILL DOWN SW
8	–	–

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METER CONNECTORS

Connector No.	M10
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH28FY-EX
Connector Color	YELLOW

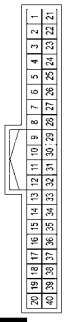
H.S.



Terminal No.	Color of Wire	Signal Name
23	L	AS2+
24	BG	AS2-
25	LG	AS1-
26	SB	AS1+
27	B	GND
28	V	DR2+
29	Y	DR1- & DR2-
30	G	DR1+
31	B	EC2S-
32	BR	RH DOOR-SAT-
33	-	-
34	R	LH DOOR-SAT-
35	-	-
36	-	-
37	-	-
38	-	-
39	B	GND
40	-	-
41	W	EC2S+
42	GR	RH DOOR-SAT+
43	-	-
44	G	LH DOOR-SAT+
45	P	CAN-L
46	L	CAN-H
47	GR	TELLTALE LAMP OFF
48	-	-
49	-	-
50	R	IGN

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH
Connector Color	GRAY

H.S.

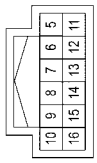


Terminal No.	Color of Wire	Signal Name
1	L	LIN 3 D
2	LA/G	DI FR LEFT D
3	LA/Y	DI FR RIGHT D
4	P	SPARE4 RL N
5	R	CAN-L
6	L	CAN-H
7	-	-
8	L	CAN-H
9	R	CAN-L
10	BG	DOORLOCK SW
11	Y	HAZARD SW D
12	W	PWR AUTOLIGHT SENSOR
13	-	-
14	-	-
15	-	-
16	-	-
17	L	PWR ATDVC
18	-	-
19	LG	AUTOLIGHT SENSOR
20	-	-
21	-	-
22	-	-
23	G	WL AUTHORIZATION RL
24	LA/R	DEFROSTER RL D
25	BR	BAT TEMP1 RL
26	-	-
27	Y	IGN1 RL
28	LA/W	IGN2 RL
29	-	-
30	V	GND AUTOLIGHT SENSOR
31	-	-
32	-	-
33	LG	CSW 5
34	Y	CSW 5
35	BG	SECURITY LED
36	G	CSW 3
37	GR	CSW 4

38	V	CSW 1
39	W	CSW 2
40	SB	DOORUNLOCK SW

Connector No.	M30
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TH12FW-NH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
5	BG	HORN SW
6	LA/R	ACC SW
7	LA/BR	ACC GND
8	Y	AUDIO STRG SW A
9	B	GROUND
10	R	ILL CONT OUT
11	-	-
12	-	-
13	-	-
14	L	AUDIO STRG SHLD
15	GR	AUDIO STRG SW B
16	-	-

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METER CONNECTORS

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1J	–	TO ENGINE ROOM HARNESS
2J	R	TO ENGINE ROOM HARNESS
3J	–	TO ENGINE ROOM HARNESS
4J	–	TO ENGINE ROOM HARNESS
5J	–	TO ENGINE ROOM HARNESS
6J	–	TO ENGINE ROOM HARNESS
7J	–	TO ENGINE ROOM HARNESS
8J	–	TO ENGINE ROOM HARNESS
9J	W	TO ENGINE ROOM HARNESS
10J	–	TO ENGINE ROOM HARNESS
11J	–	TO ENGINE ROOM HARNESS
12J	–	TO ENGINE ROOM HARNESS
13J	–	TO ENGINE ROOM HARNESS
14J	–	TO ENGINE ROOM HARNESS
15J	–	TO ENGINE ROOM HARNESS
16J	–	TO ENGINE ROOM HARNESS
17J	–	TO ENGINE ROOM HARNESS
18J	–	TO ENGINE ROOM HARNESS
19J	–	TO ENGINE ROOM HARNESS
20J	–	TO ENGINE ROOM HARNESS
21J	LA/L	TO ENGINE ROOM HARNESS
22J	SHIELD	TO ENGINE ROOM HARNESS
23J	LG	TO ENGINE ROOM HARNESS
24J	V	TO ENGINE ROOM HARNESS
25J	L	TO ENGINE ROOM HARNESS
26J	BR	TO ENGINE ROOM HARNESS
27J	G	TO ENGINE ROOM HARNESS
28J	Y	TO ENGINE ROOM HARNESS
29J	L	TO ENGINE ROOM HARNESS
30J	V	TO ENGINE ROOM HARNESS
31J	–	TO ENGINE ROOM HARNESS
32J	–	TO ENGINE ROOM HARNESS
33J	R	TO ENGINE ROOM HARNESS
33J	Y	TO ENGINE ROOM HARNESS - (WITH DRIVER ASSISTNACE SYSTEM)
34J	L	TO ENGINE ROOM HARNESS
35J	BG	TO ENGINE ROOM HARNESS
36J	GR	TO ENGINE ROOM HARNESS
37J	Y	TO ENGINE ROOM HARNESS
38J	LA/BR	TO ENGINE ROOM HARNESS
39J	–	TO ENGINE ROOM HARNESS
40J	–	TO ENGINE ROOM HARNESS
41J	LA/R	TO ENGINE ROOM HARNESS
42J	W	TO ENGINE ROOM HARNESS
43J	L	TO ENGINE ROOM HARNESS
44J	B	TO ENGINE ROOM HARNESS
45J	SB	TO ENGINE ROOM HARNESS
46J	BR	TO ENGINE ROOM HARNESS
47J	W	TO ENGINE ROOM HARNESS
48J	R	TO ENGINE ROOM HARNESS
49J	SB	TO ENGINE ROOM HARNESS
50J	GR	TO ENGINE ROOM HARNESS
51J	W	TO ENGINE ROOM HARNESS
52J	R	TO ENGINE ROOM HARNESS
53J	BR	TO ENGINE ROOM HARNESS
54J	LG	TO ENGINE ROOM HARNESS
55J	LA/Y	TO ENGINE ROOM HARNESS
56J	LA/V	TO ENGINE ROOM HARNESS
57J	LA/R	TO ENGINE ROOM HARNESS
58J	W	TO ENGINE ROOM HARNESS
59J	BR	TO ENGINE ROOM HARNESS
60J	P	TO ENGINE ROOM HARNESS
61J	L	TO ENGINE ROOM HARNESS
62J	R	TO ENGINE ROOM HARNESS
63J	L	TO ENGINE ROOM HARNESS
64J	R	TO ENGINE ROOM HARNESS
65J	L	TO ENGINE ROOM HARNESS
66J	BG	TO ENGINE ROOM HARNESS
67J	–	TO ENGINE ROOM HARNESS
68J	–	TO ENGINE ROOM HARNESS
69J	G	TO ENGINE ROOM HARNESS
70J	L	TO ENGINE ROOM HARNESS
71J	–	TO ENGINE ROOM HARNESS
72J	–	TO ENGINE ROOM HARNESS
73J	–	TO ENGINE ROOM HARNESS
74J	–	TO ENGINE ROOM HARNESS
75J	–	TO ENGINE ROOM HARNESS
76J	–	TO ENGINE ROOM HARNESS
77J	–	TO ENGINE ROOM HARNESS
78J	–	TO ENGINE ROOM HARNESS
79J	SHIELD	TO ENGINE ROOM HARNESS
80J	B	TO ENGINE ROOM HARNESS
81J	W	TO ENGINE ROOM HARNESS
82J	–	TO ENGINE ROOM HARNESS
83J	–	TO ENGINE ROOM HARNESS
84J	–	TO ENGINE ROOM HARNESS
85J	–	TO ENGINE ROOM HARNESS
86J	–	TO ENGINE ROOM HARNESS
87J	–	TO ENGINE ROOM HARNESS
88J	–	TO ENGINE ROOM HARNESS
89J	–	TO ENGINE ROOM HARNESS
90J	–	TO ENGINE ROOM HARNESS
91J	–	TO ENGINE ROOM HARNESS
92J	Y	TO ENGINE ROOM HARNESS
93J	G	TO ENGINE ROOM HARNESS
94J	L	TO ENGINE ROOM HARNESS
95J	P	TO ENGINE ROOM HARNESS
96J	–	TO ENGINE ROOM HARNESS
97J	SB	TO ENGINE ROOM HARNESS
98J	P	TO ENGINE ROOM HARNESS
99J	LA/R	TO ENGINE ROOM HARNESS
100J	R	TO ENGINE ROOM HARNESS

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METER CONNECTORS

Connector No.	M36
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1G	LA/R	TO BODY NO. 2 HARNESS
2G	W	TO BODY NO. 2 HARNESS
3G	Y	TO BODY NO. 2 HARNESS
4G	BG	TO BODY NO. 2 HARNESS
5G	G	TO BODY NO. 2 HARNESS
6G	SB	TO BODY NO. 2 HARNESS
7G	P	TO BODY NO. 2 HARNESS
8G	LA/Y	TO BODY NO. 2 HARNESS
9G	LA/W	TO BODY NO. 2 HARNESS
10G	R	TO BODY NO. 2 HARNESS
11G	G	TO BODY NO. 2 HARNESS
12G	L	TO BODY NO. 2 HARNESS
13G	BR	TO BODY NO. 2 HARNESS
14G	–	TO BODY NO. 2 HARNESS
15G	Y	TO BODY NO. 2 HARNESS
16G	–	TO BODY NO. 2 HARNESS
17G	–	TO BODY NO. 2 HARNESS
18G	R	TO BODY NO. 2 HARNESS
19G	LA/R	TO BODY NO. 2 HARNESS
20G	W	TO BODY NO. 2 HARNESS
21G	BR	TO BODY NO. 2 HARNESS
22G	P	TO BODY NO. 2 HARNESS
23G	L	TO BODY NO. 2 HARNESS
24G	W	TO BODY NO. 2 HARNESS
25G	L	TO BODY NO. 2 HARNESS
26G	–	TO BODY NO. 2 HARNESS
27G	–	TO BODY NO. 2 HARNESS
28G	–	TO BODY NO. 2 HARNESS
29G	–	TO BODY NO. 2 HARNESS
30G	–	TO BODY NO. 2 HARNESS
31G	–	TO BODY NO. 2 HARNESS
32G	–	TO BODY NO. 2 HARNESS
33G	–	TO BODY NO. 2 HARNESS
34G	V	TO BODY NO. 2 HARNESS
35G	BR	TO BODY NO. 2 HARNESS
36G	SHIELD	TO BODY NO. 2 HARNESS
37G	LG	TO BODY NO. 2 HARNESS
38G	V	TO BODY NO. 2 HARNESS
39G	SHIELD	TO BODY NO. 2 HARNESS
40G	G	TO BODY NO. 2 HARNESS
41G	R	TO BODY NO. 2 HARNESS
42G	–	TO BODY NO. 2 HARNESS
43G	–	TO BODY NO. 2 HARNESS
44G	BG	TO BODY NO. 2 HARNESS
45G	SHIELD	TO BODY NO. 2 HARNESS
46G	L	TO BODY NO. 2 HARNESS
47G	Y	TO BODY NO. 2 HARNESS
48G	SHIELD	TO BODY NO. 2 HARNESS
49G	W	TO BODY NO. 2 HARNESS
50G	R	TO BODY NO. 2 HARNESS
51G	–	TO BODY NO. 2 HARNESS
52G	–	TO BODY NO. 2 HARNESS
53G	–	TO BODY NO. 2 HARNESS
54G	–	TO BODY NO. 2 HARNESS
55G	–	TO BODY NO. 2 HARNESS
56G	–	TO BODY NO. 2 HARNESS
57G	–	TO BODY NO. 2 HARNESS
58G	–	TO BODY NO. 2 HARNESS
59G	–	TO BODY NO. 2 HARNESS
60G	GR	TO BODY NO. 2 HARNESS
61G	BR	TO BODY NO. 2 HARNESS
62G	–	TO BODY NO. 2 HARNESS
63G	–	TO BODY NO. 2 HARNESS
64G	–	TO BODY NO. 2 HARNESS
65G	–	TO BODY NO. 2 HARNESS
66G	–	TO BODY NO. 2 HARNESS
67G	–	TO BODY NO. 2 HARNESS
68G	–	TO BODY NO. 2 HARNESS
69G	–	TO BODY NO. 2 HARNESS
70G	–	TO BODY NO. 2 HARNESS
71G	–	TO BODY NO. 2 HARNESS
72G	–	TO BODY NO. 2 HARNESS
73G	–	TO BODY NO. 2 HARNESS
74G	–	TO BODY NO. 2 HARNESS
76G	–	TO BODY NO. 2 HARNESS
77G	–	TO BODY NO. 2 HARNESS
78G	LA/Y	TO BODY NO. 2 HARNESS
79G	LA/Y	TO BODY NO. 2 HARNESS
80G	LA/B	TO BODY NO. 2 HARNESS
81G	LA/L	TO BODY NO. 2 HARNESS
82G	–	TO BODY NO. 2 HARNESS
83G	–	TO BODY NO. 2 HARNESS
84G	–	TO BODY NO. 2 HARNESS
85G	–	TO BODY NO. 2 HARNESS
86G	–	TO BODY NO. 2 HARNESS
87G	–	TO BODY NO. 2 HARNESS
88G	–	TO BODY NO. 2 HARNESS
89G	–	TO BODY NO. 2 HARNESS
90G	–	TO BODY NO. 2 HARNESS
91G	R	TO BODY NO. 2 HARNESS
92G	LA/L	TO BODY NO. 2 HARNESS
93G	W	TO BODY NO. 2 HARNESS
94G	LG	TO BODY NO. 2 HARNESS
95G	GR	TO BODY NO. 2 HARNESS
96G	SB	TO BODY NO. 2 HARNESS
97G	LA/BR	TO BODY NO. 2 HARNESS
98G	GR	TO BODY NO. 2 HARNESS
99G	Y	TO BODY NO. 2 HARNESS
100G	V	TO BODY NO. 2 HARNESS

Connector No.	M44
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1P	R	IGNITION
2P	G	IGNITION
3P	Y	IGNITION RELAY-2 CONTROL
4P	LG	REAR WINDOW DEFOGGER RELAY OUTPUT
5P	GR	REAR WINDOW DEFOGGER RELAY OUTPUT
6P	LA/R	REAR WINDOW DEFOGGER RELAY CONTROL
7P	Y	IGNITION
8P	V	IGNITION
9P	L	BATTERY
10P	LG	IGNITION
11P	–	–
12P	–	–
13P	G	BATTERY
14P	–	–
15P	L	BATTERY
16P	LA/W	FRONT BLOWER MOTOR RELAY CONTROL

Connector No.	M65
Connector Name	JOINT CONNECTOR-M26
Connector Type	SAC08JW
Connector Color	WHITE

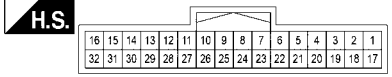
H.S.

Terminal No.	Color of Wire	Signal Name
1	B	GROUND
2	B	GROUND
3	B	GROUND
4	B	GROUND
5	B	GROUND
6	B	GROUND
7	B	GROUND
8	B	GROUND

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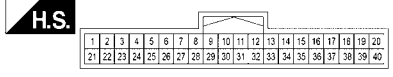
METER CONNECTORS

Connector No.	M69
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE



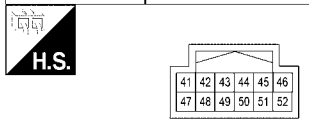
Terminal No.	Color of Wire	Signal Name
1	SB	TO BODY HARNESS
2	BR	TO BODY HARNESS
3	L	TO BODY HARNESS
4	L	TO BODY HARNESS
5	W	TO BODY HARNESS
6	Y	TO BODY HARNESS
7	LG	TO BODY HARNESS
8	BG	TO BODY HARNESS
9	BR	TO BODY HARNESS
10	Y	TO BODY HARNESS
11	G	TO BODY HARNESS
12	L	TO BODY HARNESS
13	W	TO BODY HARNESS
14	GR	TO BODY HARNESS
15	Y	TO BODY HARNESS
16	P	TO BODY HARNESS
17	R	TO BODY HARNESS
18	W	TO BODY HARNESS
19	R	TO BODY HARNESS
20	–	TO BODY HARNESS
21	–	TO BODY HARNESS
22	–	TO BODY HARNESS
23	–	TO BODY HARNESS
24	P	TO BODY HARNESS
25	L	TO BODY HARNESS
26	BR	TO BODY HARNESS
27	R	TO BODY HARNESS
28	L	TO BODY HARNESS
29	SHIELD	TO BODY HARNESS
30	W	TO BODY HARNESS
31	B	TO BODY HARNESS
32	R	TO BODY HARNESS

Connector No.	M76
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH
Connector Color	WHITE



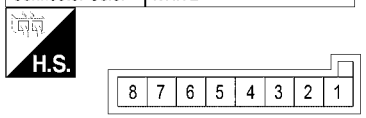
Terminal No.	Color of Wire	Signal Name
1	B	GND
2	–	–
3	–	–
4	–	–
5	–	–
6	–	–
7	BG	SECURITY
8	–	–
9	GR	ECO MODE SW
10	–	–
11	–	–
12	–	–
13	–	–
14	–	–
15	L	OUTSIDE TEMP SENSOR
16	–	–
17	BG	SATELLITE SW GND
18	SB	TRIP RESET SW
19	–	–
20	Y	OUTSIDE TEMP GND
21	L	GND (STRG SW GND)
22	Y	STRG SW A
23	GR	STRG SW B
24	BR	WASHER SW
25	V	BRAKE OIL SW
26	G	PKB SW
27	–	–
28	Y	DR BELT SW
29	R	SPORT MODE SW
30	LG	M RANGE
31	SB	NOT M RANGE
32	BG	AT SHIFT UP
33	BR	AT SHIFT DOWN
34	–	–
35	–	–
36	GR	ILL UP SW
37	V	ILL DOWN SW
38	G	8P/R OUTPUT
39	W	2P/R OUTPUT
40	–	–

Connector No.	M77
Connector Name	COMBINATION METER
Connector Type	TH12FW-NH
Connector Color	WHITE



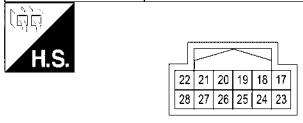
Terminal No.	Color of Wire	Signal Name
41	L	CAN-H
42	P	CAN-L
43	R	ILL CONT OUT
44	LA/B	FUEL SENSOR GND
45	G	BAT
46	V	IGN
47	SB	M-CAN H
48	LG	M-CAN L
49	–	–
50	–	–
51	LA/L	FUEL SENSOR
52	B	G1

Connector No.	M78
Connector Name	JOINT CONNECTOR-M28
Connector Type	SAC08JW
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	GR	GROUND
2	GR	GROUND
3	GR	GROUND
4	–	–
5	–	–
6	–	–
7	GR	GROUND
8	GR	GROUND

Connector No.	M90
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TH12FW-NH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
17	–	–
18	L	AUDIO STRG SW B
19	G	AUDIO STRG SHLD
20	–	–
21	–	–
22	–	–
23	R	ILL (+)
24	Y	ILL (-)
25	P	AUDIO STRG SW A
26	GR	ACC GND
27	V	ACC SW
28	BR	HORN SW

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METER CONNECTORS

Connector No.	M107
Connector Name	CVT SHIFT SELECTOR
Connector Type	TH16FW-NH
Connector Color	WHITE

H.S.

8	7	6	5	4	3	2	1
16	15	14	13	12	11	10	9

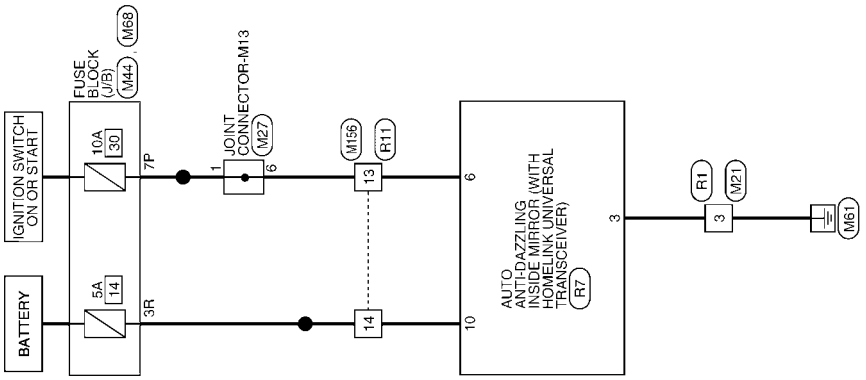
Terminal No.	Color of Wire	Signal Name
1	P	O/D OFF SW
2	B	GROUND
3	R	–
4	B	GROUND
5	G	ILL CONT OUT
6	B	GROUND
7	LG	M RANGE
8	BR	AT SHIFT DOWN
9	BG	AT SHIFT UP
10	B	GROUND
11	SB	NOT M RANGE
12	L	O PWR ATDVC
13	G	I AT LOCKED IN PARK SW
14	–	–
15	–	–
16	–	–

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COMPASS

Wiring Diagram

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COMPASS

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COMPASS CONNECTORS

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS
Connector Color	WHITE

H.S.

3		2	1
8	7	6	5	4

Terminal No.	Color of Wire	Signal Name
1	–	TO ROOM LAMP HARNESS
2	V	TO ROOM LAMP HARNESS
3	B	TO ROOM LAMP HARNESS
4	B	TO ROOM LAMP HARNESS
5	–	TO ROOM LAMP HARNESS
6	W	TO ROOM LAMP HARNESS
7	R	TO ROOM LAMP HARNESS
8	Y	TO ROOM LAMP HARNESS

Connector No.	M27
Connector Name	JOINT CONNECTOR-M13
Connector Type	SAC08JW
Connector Color	WHITE

H.S.

8	7	6	5	4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	SB	IGNITION
2	SB	IGNITION
3	SB	IGNITION
4	Y	IGNITION
5	SB	IGNITION
6	SB	IGNITION
7	SB	IGNITION
8	SB	IGNITION

Connector No.	M44
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

7P	6P	5P	4P		3P	2P	1P
16P	15P	14P	13P	12P	11P	10P	9P	8P

Terminal No.	Color of Wire	Signal Name
1P	R	IGNITION
2P	G	IGNITION
3P	Y	IGNITION RELAY-2 CONTROL
4P	LG	REAR WINDOW DEFOGGER RELAY OUTPUT
5P	GR	REAR WINDOW DEFOGGER RELAY OUTPUT
6P	LA/R	REAR WINDOW DEFOGGER RELAY CONTROL
7P	Y	IGNITION
8P	V	IGNITION
9P	L	BATTERY
10P	LG	IGNITION
11P	–	–
12P	–	–
13P	G	BATTERY
14P	–	–
15P	L	BATTERY
16P	LA/W	FRONT BLOWER MOTOR RELAY CONTROL

Connector No.	M68
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.

7R	6R	5R	4R		3R	2R	1R
16R	15R	14R	13R	12R	11R	10R	9R	8R

Terminal No.	Color of Wire	Signal Name
1R	V	ILLUMINATION +
2R	G	IGNITION
3R	V	BATTERY
4R	–	–
5R	–	–
6R	LA/L	ACCESSORY
7R	LA/V	BATTERY
8R	–	–
9R	–	–
10R	GR	BATTERY
11R	–	–
12R	–	–
13R	–	–
14R	W	BATTERY
15R	W	BATTERY
16R	GR	ACCESSORY

Connector No.	M156
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-CS
Connector Color	WHITE

H.S.

12	11	10	9	8	7	6	5	4	3	2	1
24	23	22	21	20	19	18	17	16	15	14	13

Terminal No.	Color of Wire	Signal Name
1	B	TO ROOM LAMP HARNESS
2	W	TO ROOM LAMP HARNESS
3	SHIELD	TO ROOM LAMP HARNESS
4	R	TO ROOM LAMP HARNESS
5	–	TO ROOM LAMP HARNESS
6	Y	TO ROOM LAMP HARNESS
7	LG	TO ROOM LAMP HARNESS
8	L	TO ROOM LAMP HARNESS
9	R	TO ROOM LAMP HARNESS
10	–	TO ROOM LAMP HARNESS
11	–	TO ROOM LAMP HARNESS
12	–	TO ROOM LAMP HARNESS
13	SB	TO ROOM LAMP HARNESS
14	GR	TO ROOM LAMP HARNESS
15	SB	TO ROOM LAMP HARNESS
16	GR	TO ROOM LAMP HARNESS
17	V	TO ROOM LAMP HARNESS
18	G	TO ROOM LAMP HARNESS
19	SB	TO ROOM LAMP HARNESS
20	R	TO ROOM LAMP HARNESS
21	B	TO ROOM LAMP HARNESS
22	GR	TO ROOM LAMP HARNESS
23	–	TO ROOM LAMP HARNESS
24	–	TO ROOM LAMP HARNESS

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS
Connector Color	WHITE

H.S.

1	2		3
4	5	6	7	8

Terminal No.	Color of Wire	Signal Name
1	–	TO MAIN HARNESS
2	P	TO MAIN HARNESS
3	B	TO MAIN HARNESS
4	B	TO MAIN HARNESS
5	–	TO MAIN HARNESS
6	W	TO MAIN HARNESS
7	Y	TO MAIN HARNESS
8	R	TO MAIN HARNESS

Connector No.	R7
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR
Connector Type	TH10FB-NH
Connector Color	BLACK

H.S.

5	4	3	2	1
10	9	8	7	6

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	B	GROUND
4	–	–
5	–	–
6	SB	IGNITION
7	–	–
8	–	–
9	–	–
10	P	BATTERY

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COMPASS CONNECTORS

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24

Terminal No.	Color of Wire	Signal Name
1	B	TO MAIN HARNESS
2	W	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	SB	TO MAIN HARNESS
5	–	TO MAIN HARNESS
6	LG	TO MAIN HARNESS
7	LG	TO MAIN HARNESS
8	–	TO MAIN HARNESS
9	–	TO MAIN HARNESS
10	–	TO MAIN HARNESS
11	–	TO MAIN HARNESS
12	–	TO MAIN HARNESS
13	SB	TO MAIN HARNESS
14	P	TO MAIN HARNESS
15	–	TO MAIN HARNESS
16	–	TO MAIN HARNESS
17	–	TO MAIN HARNESS
18	–	TO MAIN HARNESS
19	SB	TO MAIN HARNESS
20	R	TO MAIN HARNESS
21	B	TO MAIN HARNESS
22	L	TO MAIN HARNESS
23	–	TO MAIN HARNESS
24	–	TO MAIN HARNESS

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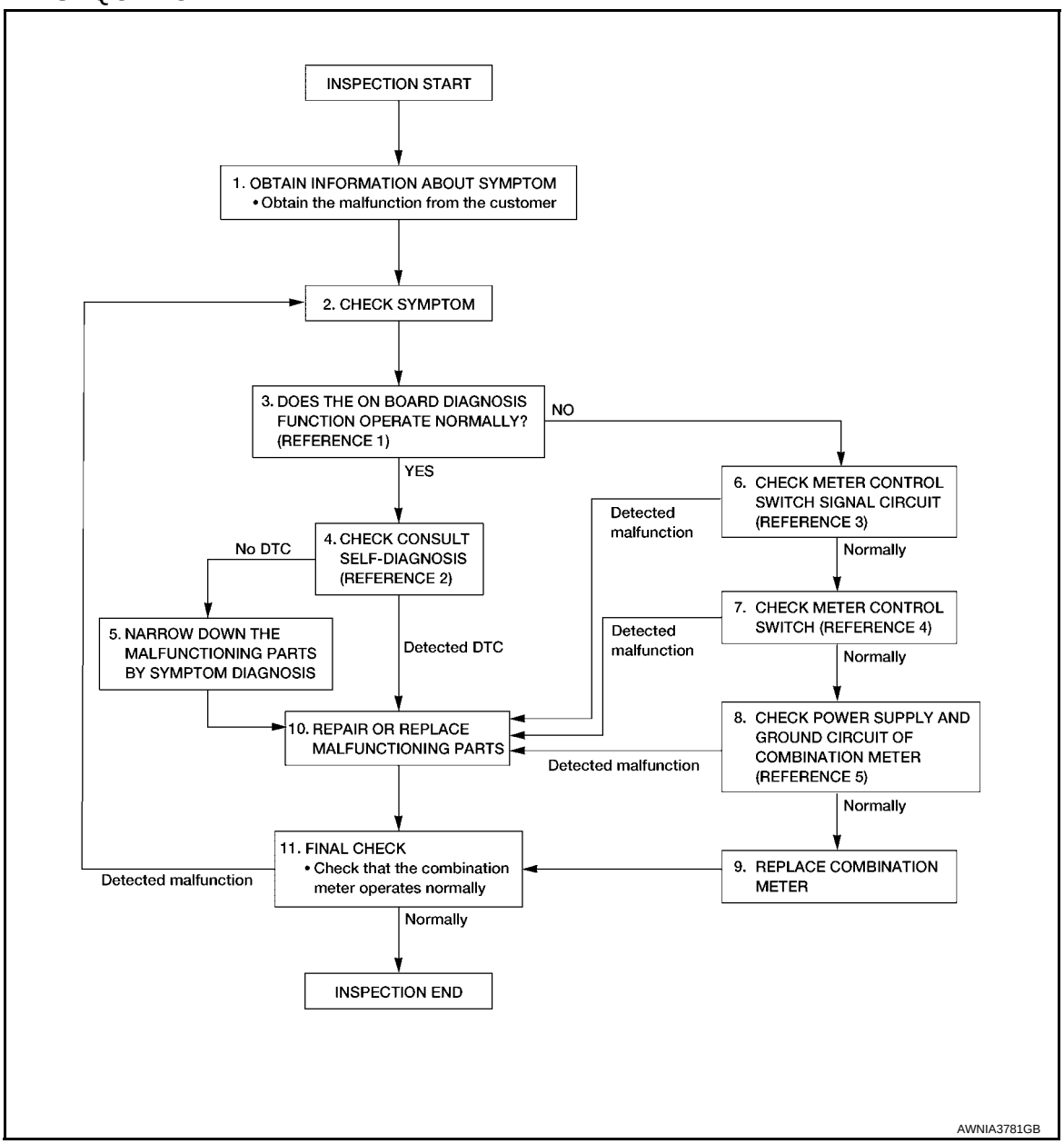
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work flow

INFOID:0000000015206730

OVERALL SEQUENCE



- Reference 1: MWI-19, "On Board Diagnosis Function"
- Reference 2: MWI-32, "DTC Index"
- Reference 3:MWI-69, "Diagnosis Procedure"
- Reference 4: MWI-70, "Component Inspection"
- Reference 5: MWI-62, "COMBINATION METER : Diagnosis Procedure"

DETAILED FLOW

1.OBTAIN INFORMATION ABOUT SYMPTOM

Interview the customer to obtain as much information as possible about the conditions and environment under which the malfunction occurred.

>> GO TO 2.

2.CHECK SYMPTOM

- Check the symptom based on the information obtained from the customer.
- Check if any other malfunctions are present.

>> GO TO 3.

3.CHECK ON BOARD DIAGNOSIS OPERATION

Check that the on board diagnosis function operates. Refer to MWI-19, "On Board Diagnosis Function".

Is the inspection result normal?

YES >> GO TO 4.
NO >> GO TO 6.

4.CHECK CONSULT SELF-DIAGNOSIS RESULTS

1. Perform “Self Diagnostic Result”. Refer to MWI-32, "DTC Index".
2. When DTC is detected, follow the instructions below:

- Record DTC and Freeze Frame Data.

Is the inspection result normal?

YES >> GO TO 5.
NO >> GO TO 10.

5.NARROW DOWN THE MALFUNCTIONING PARTS BY SYMPTOM DIAGNOSIS

Perform symptom diagnosis and narrow down the malfunctioning parts.

>> GO TO 10.

6.CHECK METER CONTROL SWITCH SIGNAL CIRCUIT

Check meter control switch signal circuit. Refer to MWI-69, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 7.
NO >> GO TO 10.

7.CHECK METER CONTROL SWITCH

Check meter control switch. Refer to MWI-70, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.
NO >> GO TO 10.

8.CHECK COMBINATION METER POWER SUPPLY AND GROUND CIRCUITS

Check combination meter power supply and ground circuits. Refer to MWI-62, "COMBINATION METER : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 9.
NO >> GO TO 10.

9.REPLACE COMBINATION METER

Replace combination meter. Refer to MWI-81, "Removal and Installation".

>> GO TO 11.

10.REPAIR OR REPLACE MALFUNCTIONING PARTS

Repair or replace the malfunctioning parts.

NOTE:

If DTC is displayed, erase DTC after repairing or replacing malfunctioning parts.

>> GO TO 11.

11. FINAL CHECK

Check that the combination meter operates normally.

Is the inspection result normal?

YES >> Inspection End.
NO >> GO TO 2.

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

DTC Description

INFOID:0000000015208445

Refer to LAN-17, "System Description".

DTC DETECTION LOGIC

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

POSSIBLE CAUSE
CAN communication system

FAIL-SAFE
The combination meter activates the fail-safe control if CAN communication with each unit is malfunctioning. Refer to MWI-30, "Fail-safe".

DTC CONFIRMATION PROCEDURE

1.PERFORM SELF-DIAGNOSIS

Ⓔ CONSULT
1. Turn ignition switch ON and wait for 2 seconds or more.
2. Select “Self Diagnostic Result” mode of “METER/M&A”.
3. Check DTC.

Is DTC detected?

YES >> Refer to MWI-56, "Diagnosis Procedure".
NO >> Refer to GI-54, "Intermittent Incident".

Diagnosis Procedure

INFOID:0000000015208446

1.CHECK CAN COMMUNICATION SYSTEM

Check CAN communication system. Refer to LAN-26, "Trouble Diagnosis Flow Chart".

>> Inspection End.

U1010 CONTROL UNIT (CAN)

DTC Description

INFOID:0000000015208447

DTC DETECTION LOGIC

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

POSSIBLE CAUSE

Combination meter

FAIL-SAFE

The combination meter activates the fail-safe control if CAN communication with each unit is malfunctioning. Refer to MWI-30, "Fail-safe".

DTC CONFIRMATION PROCEDURE

1.PERFORM SELF-DIAGNOSIS

Ⓟ CONSULT

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

Is DTC detected?

YES >> Refer to MWI-57, "Diagnosis Procedure".
NO >> Refer to GI-54, "Intermittent Incident".

Diagnosis Procedure

INFOID:0000000015208448

1.REPLACE COMBINATION METER

Replace combination meter. Refer to MWI-81, "Removal and Installation".

>> Inspection End.

B2205 VEHICLE SPEED

DTC Description

INFOID:0000000015208449

DTC DETECTION LOGIC

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

POSSIBLE CAUSE

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

DTC CONFIRMATION PROCEDURE

1.PERFORM SELF-DIAGNOSIS

CONSULT

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

Is DTC detected?

YES >> Refer to MWI-58, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000015208450

1.PERFORM SELF DIAGNOSTIC RESULT

CONSULT

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “ABS”.
3. Check DTC.

Is DTC detected?

YES >> Perform diagnosis procedure on the detected DTC. Refer to BRC-61, "DTC Index".
NO >> Inspection End.

B2267 ENGINE SPEED

DTC Description

INFOID:0000000015208451

DTC DETECTION LOGIC

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

POSSIBLE CAUSE

- Crankshaft position sensor
- ECM

DTC CONFIRMATION PROCEDURE

1.PERFORM SELF-DIAGNOSIS

CONSULT
1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “METER/M&A”.
3. Check DTC.

Is DTC detected?

YES >> Refer to MWI-59, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000015208452

1.PERFORM SELF DIAGNOSTIC RESULT

CONSULT
1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “ECM”.
3. Check DTC.

Is DTC detected?

YES >> Perform diagnosis procedure on the detected DTC. Refer to EC-109, "DTC Index".
NO >> Inspection End.

B2268 WATER TEMP

DTC Description

INFOID:0000000015208453

DTC DETECTION LOGIC

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

POSSIBLE CAUSE

- Engine coolant temperature sensor
- ECM

DTC CONFIRMATION PROCEDURE

1.PERFORM SELF-DIAGNOSIS

Ⓔ CONSULT

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

Is DTC detected?

YES >> Refer to MWI-60, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000015208454

1.PERFORM SELF DIAGNOSTIC RESULT

Ⓔ CONSULT

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “ECM”.
3. Check DTC.

Is DTC detected?

YES >> Perform diagnosis procedure on the detected DTC. Refer to EC-109, "DTC Index".
NO >> Inspection End.

B2323 ILLUMINATION CONTROL SIGNAL

DTC Description

INFOID:0000000015215153

DTC DETECTION LOGIC

DTC. No	CONSULT screen terms (Trouble diagnosis content)	DTC detection condition	
B2323	ILLUMINATION OUTPUT CIRCUIT (Illumination output circuit)	Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	Combination meter terminal 43
		Threshold	Illumination control signal shorted to ground
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- Illumination control signal circuit
- Combination meter

FAIL-SAFE

Output stop in illumination control signal

DTC CONFIRMATION PROCEDURE

1.PERFORM SELF-DIAGNOSIS

Ⓜ CONSULT

1. Turn ignition switch ON and turn the combination switch (lighting switch) to 1ST position.
2. Select “Self Diagnostic Result” mode of “METER/M&A”.
3. Check DTC.

Is DTC detected?

YES >> Refer to MWI-59, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000015215154

Regarding Wiring Diagram information, refer to MWI-34, "Wiring Diagram".

1.CHECK ILLUMINATION CONTROL SIGNAL CIRCUIT

1. Turn ignition switch ON.
2. Disconnect combination meter and all the connectors connected to illumination control signal circuit.
3. Check continuity between combination meter harness connector and ground.

Combination meter		Ground	Continuity
Connector	Terminal		
M77	43		No

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-81, "Removal and Installation".
NO >> Repair or replace harness or connector.

POWER SUPPLY AND GROUND CIRCUIT
COMBINATION METER

COMBINATION METER : Diagnosis Procedure

INFOID:0000000014621862

Regarding Wiring Diagram information, refer to MWI-34, "Wiring Diagram".

1.CHECK FUSES

Check that the following fuses are not blown.

Unit	Power source	Fuse No.
Combination meter	Battery	13 (10A)
	Ignition switch ON or START	31(5A)

Is the fuse blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Disconnect combination meter connector.
2. Check voltage between combination meter harness connector M77 terminals 45, 46 and ground.

Combination meter		Ground	Ignition switch position		
Connector	Terminal		OFF	ON	START
M77	45	(–)	Battery voltage	Battery voltage	Battery voltage
	46		0V	Battery voltage	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connector.

3.CHECK GROUND CIRCUIT

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

Combination meter		Ground	Continuity
Connector	Terminal		
M76	1	(–)	Yes
M77	52		

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connector.

BCM (BODY CONTROL SYSTEM) (WITH INTELLIGENT KEY SYSTEM)

BCM (BODY CONTROL SYSTEM) (WITH INTELLIGENT KEY SYSTEM) : Diagnosis Procedure

INFOID:0000000015244274

Regarding Wiring Diagram information, refer to BCS-51, "Wiring Diagram".

1. CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
161	BCM power supply	7 (10A)
167	Power door lock battery power supply	5 (20A)
168	Turn signal/hazard battery power supply	1 (15A)
169	Stop lamp battery power supply	10 (10A)
175	Power door lock2 battery power supply	3 (20A)
176	Rear wiper battery power supply	4 (15A)

Is the fuse blown?

YES >> Replace the blown fuse after repairing the affected circuit.
NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

1. Disconnect BCM connector M20.
2. Check voltage between BCM connector M20 and ground.

BCM		Ground	Voltage (Approx.)
Connector	Terminal		
M20	161	—	Battery voltage
	167		
	168		
	169		
	175		
	176		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connectors.

3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M20 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M20	170	—	Yes
	171		

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connectors.

FUEL LEVEL SENSOR SIGNAL CIRCUIT

Component Function Check

INFOID:0000000015208456

1.COMBINATION METER INPUT SIGNAL

1. Select “METER/M&A” using CONSULT.
2. Select “FUEL METER” in “Data Monitor”.
3. Check the “FUEL METER” value and compare with the fuel gauge of the combination meter. Fuel gauge and Data Monitor indications should be close.

Combination meter	Monitor item
Fuel gauge	FUEL METER [L] (Approx.)
Full	51.5
3/4	39.6
1/2	27.8
1/4	15.9
Empty	4.0

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

YES >> Inspection End.
NO >> Replace combination meter. Refer to MWI-81, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000014621866

Regarding Wiring Diagram information, refer to MWI-34, "Wiring Diagram".

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

1. Turn ignition switch OFF.
2. Disconnect combination meter connector and fuel level sensor unit and fuel pump (fuel level sensor) connector.
3. Check continuity between combination meter harness connector and fuel level sensor unit and fuel pump (fuel level sensor) harness connector.

Combination meter		Fuel level sensor unit and fuel pump (fuel level sensor)		Continuity
Connector	Terminal	Connector	Terminal	
M77	51	B103	5	Yes

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

Combination meter		Ground	Continuity
Connector	Terminal		
M77	51		No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connector.

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

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

Fuel level sensor unit and fuel pump (fuel level sensor)		Combination meter		Continuity
Connector	Terminal	Connector	Terminal	
B103	2	M77	44	Yes

2. Check continuity between combination meter harness connector and ground.

Combination meter		Ground	Continuity
Connector	Terminal		
M77	44		No

Is the inspection result normal?

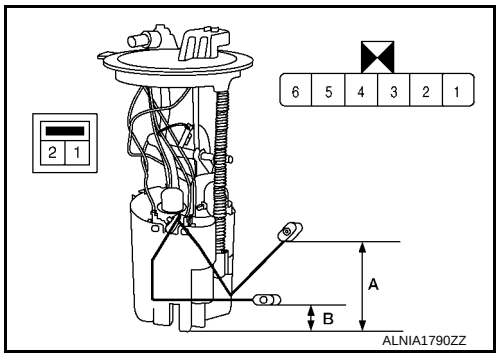
YES >> Replace combination meter. Refer to MWI-81, "Removal and Installation".
NO >> Repair harness or connector.

Component Inspection

INFOID:0000000014621867

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

1. Remove the fuel level sensor unit and fuel pump (fuel level sensor). Refer to FL-7, "Removal and Installation".
2. Check the resistance between fuel level sensor unit and fuel pump (fuel level sensor).



Terminals		Condition	Resistance (Ω) (Approx.)	Height [mm (in)]
Fuel level sensor unit and fuel pump (fuel level sensor)				
2	1	Full* (A)	45	171.4 (6.7)
		Empty* (B)	141	20.5 (0.8)
5	2	—	0	—

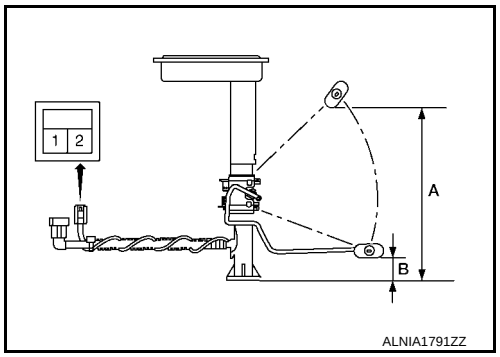
*: When float rod is contact with stopper.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace fuel level sensor unit and fuel pump (fuel level sensor). Refer to FL-7, "Removal and Installation".

2. CHECK FUEL LEVEL SENSOR UNIT (SUB)

1. Remove the fuel level sensor unit (sub). Refer to FL-7, "Removal and Installation".
2. Check the resistance between fuel level sensor unit (sub).



Terminals		Condition	Resistance (Ω) (Approx.)	Height [mm (in)]
Fuel level sensor unit (sub)				
2	1	Full* (A)	6.0	194.1 (7.6)
		Empty* (B)	141	18 (0.7)

*: When float rod is contact with stopper.

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace fuel level sensor unit (sub). Refer to FL-7, "Removal and Installation".

PARKING BRAKE SWITCH SIGNAL CIRCUIT

Component Function Check

INFOID:0000000015208455

1.COMBINATION METER INPUT SIGNAL

CONSULT
1. Select “Data Monitor” mode of “METER/M&A”.
2. Select “PKB SW”.
3. Check that the function operates normally according to the following conditions:

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

Is the inspection result normal?

YES >> Inspection End.
NO >> Refer to MWI-66, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000014621870

Regarding Wiring Diagram information, refer to MWI-34, "Wiring Diagram".

1.CHECK PARKING BRAKE SWITCH CIRCUIT

1. Disconnect combination meter harness connector M76 and parking brake switch harness connector E52.
2. Check continuity between combination meter harness connector M76 terminal 26 and parking brake switch harness connector E52 terminal 1.

Combination meter		Parking brake switch		Continuity
Connector	Terminal	Connector	Terminal	
M76	26	E52	1	Yes

3. Check continuity between combination meter harness connector M76 terminal 26 and ground.

Combination meter		Ground	Continuity
Connector	Terminal		
M76	26		No

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connector.

Component Inspection

INFOID:0000000014621871

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 applied	Yes
		Parking brake released	No

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace parking brake switch. Refer to PB-7, "Exploded View".

AMBIENT SENSOR SIGNAL CIRCUIT

Description

INFOID:0000000014621872

It detects outside air temperature and converts it into a resistance value which is then input into the combination meter.

Diagnosis Procedure

INFOID:0000000014621873

Regarding Wiring Diagram information, refer to MWI-34, "Wiring Diagram".

1.CHECK AMBIENT SENSOR POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect ambient sensor connector.
3. Turn ignition switch ON.
4. Check voltage between ambient sensor harness connector and ground.

Ambient sensor		Ground	Voltage (Approx.)
Connector	Terminal		
E76	1		5 V

Is the inspection result normal?

YES >> GO TO 2.
NO >> GO TO 4.

2.CHECK AMBIENT SENSOR GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between ambient sensor harness connector and ground.

Ambient sensor		Ground	Continuity
Connector	Terminal		
E76	2		Yes

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connector.

3.CHECK AMBIENT SENSOR

Check ambient sensor. Refer to MWI-68, "Component Inspection".

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-81, "Removal and Installation".
NO >> Replace ambient sensor. Refer to HAC-121, "Removal and Installation".

4.CHECK AMBIENT SENSOR POWER SUPPLY CIRCUIT FOR OPEN

1. Turn ignition switch OFF.
2. Disconnect combination meter connector.
3. Check continuity between ambient sensor harness connector and combination meter harness connector.

Ambient sensor		Combination meter		Continuity
Connector	Terminal	Connector	Terminal	
E76	1	M76	15	Yes

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connector.

5.CHECK AMBIENT SENSOR POWER SUPPLY CIRCUIT FOR GROUND SHORT

Check continuity between ambient sensor harness connector and ground.

Ambient sensor		Ground	Continuity
Connector	Terminal		
E76	1		No

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace harness or connector.

6.CHECK AMBIENT SENSOR POWER SUPPLY CIRCUIT FOR POWER SHORT

1. Turn ignition switch ON.
2. Check voltage between ambient sensor harness connector and ground.

Ambient sensor		Ground	Voltage (Approx.)
Connector	Terminal		
E75	1		0 V

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-81, "Removal and Installation".
NO >> Repair or replace harness or connector.

Component Inspection

INFOID:0000000014621874

1.CHECK AMBIENT SENSOR

1. Turn ignition switch OFF.
2. Disconnect ambient sensor connector.
3. Check resistance between ambient sensor terminals.

Ambient sensor			
Terminal		Condition	Resistance: kΩ
		Temperature: °C (°F)	
1	2	–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

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace ambient sensor. Refer to HAC-121, "Removal and Installation".

METER CONTROL SWITCH SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:0000000014621875

Regarding Wiring Diagram information, refer to MWI-34, "Wiring Diagram".

1.CHECK METER CONTROL SWITCH SIGNAL

1. Turn ignition switch ON.
2. Check voltage between the following terminals of the meter control switch harness connector M3.

Meter control switch			Condition	Voltage (Approx.)
Connector	Terminals			
	(+)	(–)		
M3	7	4	When illumination control switch (–) is pressed	0 V
			Other than the above	5 V
	5		When trip reset switch is pressed	0 V
			Other than the above	5 V
	6		When illumination control switch (+) is pressed	0 V
			Other than the above	5 V

Is the inspection result normal?

YES >> Inspection End.
NO >> GO TO 2.

2.CHECK METER CONTROL SWITCH HARNESS

1. Turn ignition switch OFF.
2. Disconnect combination meter harness connector M76 and meter control switch harness connector M3.
3. Check continuity between combination meter harness connector M76 and meter control switch harness connector M3.

Combination meter		Meter control switch		Continuity
Connector	Terminal	Connector	Terminal	
M76	18	M3	5	Yes
	37		7	
	36		6	
	17		4	

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

Combination meter			Continuity
Connector	Terminal		
M76	18	Ground	No
	37		
	36		
	17		

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connector.

Component Inspection

INFOID:0000000014621876

1. CHECK METER CONTROL SWITCH

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

Meter control switch		Condition	Continuity
Terminals			
7	4	When illumination control switch (–) is pressed	Yes
		Other than the above	No
5		When trip reset switch is pressed	Yes
		Other than the above	No
6		When illumination control switch (+) is pressed	Yes
		Other than the above	No

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace meter control switch. Refer to MWI-81, "Removal and Installation".

STEERING SWITCH

Description

INFOID:0000000014621877

When one of the steering switches is pushed, the resistance in the steering switch changes the signal to identify which button is controlling the information display.

Diagnosis Procedure

INFOID:0000000014621878

Regarding Wiring Diagram information, refer to MWI-34, "Wiring Diagram".

1.CHECK STEERING SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect combination meter harness connector M76 and spiral cable harness connector M30.
3. Check continuity between combination meter harness connector M76 and spiral cable harness connector M30.

Combination meter		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
M76	21	M30	14	Yes
	22		8	
	23		15	

4. Check continuity between combination meter harness connector M76 and ground.

Combination meter		Ground	Continuity
Connector	Terminal		
M76	21		No
	22		
	23		

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair or replace harness or connector.

Component Inspection

INFOID:0000000014621879

1.CHECK STEERING SWITCH RESISTANCE

Check resistance between the following steering switch terminals:

Steering switches			Condition	Resistance (Ω) (Approx.)
Terminal		Signal name		
18	19	Display	Depress DISP switch.	2023
		Back	Depress ⮌ switch.	723
25		Enter	Depress ENTER switch.	2023
		Menu Up	Depress △ switch.	121
		Menu Down	Depress ▽ switch.	321

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace steering wheel switch. Refer to AV-65, "Removal and Installation".

2.CHECK SPIRAL CABLE

Check continuity between the following spiral cable terminals:

Spiral cable		Continuity
Terminals		
18	15	Yes
25	8	
19	14	

Is the inspection result normal?

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

SYMPTOM DIAGNOSIS

THE FUEL GAUGE DOES NOT MOVE

Description

INFOID:0000000014621883

Fuel gauge does not move from a certain position.

Diagnosis Procedure

INFOID:0000000014621884

1. PERFORM COMBINATION METER SELF-DIAGNOSIS MODE

Perform the self-diagnosis mode of combination meter, and then check that the fuel gauge operates normally. Refer to MWI-19, "On Board Diagnosis Function".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connector.

2. CHECK COMBINATION METER INPUT SIGNAL

Perform component function check. Refer to MWI-64, "Component Function Check".

Does monitor value match fuel gauge reading?

YES >> GO TO 3.
NO >> Replace combination meter. Refer to MWI-81, "Removal and Installation".

3. CHECK FUEL LEVEL SENSOR UNIT CIRCUITS

Check the fuel level sensor circuits. Refer to MWI-64, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harness or connector.

4. CHECK FUEL LEVEL SENSOR UNIT

Check the fuel level sensor unit. Refer to MWI-65, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace fuel level sensor unit. Refer to FL-7, "Removal and Installation".

5. CHECK FLOAT INTERFERENCE

Check that the float arm does not interfere with or binds to other components in the fuel tank.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-54, "Intermittent Incident".
NO >> Repair or replace malfunctioning parts.

THE OIL PRESSURE WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

Description

INFOID:0000000014621885

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

Diagnosis Procedure

INFOID:0000000015208457

1.CHECK COMBINATION METER INPUT

CONSULT

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

Monitor item	Condition	CONSULT
OIL W/L	Engine running	Off

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace combination meter. Refer to MWI-81, "Removal and Installation".

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

Description

INFOID:0000000014621887

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

Diagnosis Procedure

INFOID:0000000014621888

1.CHECK PARKING BRAKE WARNING LAMP OPERATION

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

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

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-81, "Removal and Installation".
NO >> GO TO 2.

2.CHECK PARKING BRAKE SWITCH SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Check the parking brake switch signal circuit. Refer to MWI-66, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness or connector.

3.CHECK PARKING BRAKE SWITCH UNIT

Check the parking brake switch. Refer to MWI-66, "Component Inspection".

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-81, "Removal and Installation".
NO >> Replace parking brake switch. Refer to PB-10, "Removal and Installation".

THE DOOR OPEN WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

Description

INFOID:0000000014621891

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

Diagnosis Procedure

INFOID:0000000015208458

1.CHECK BCM INPUT SIGNAL

Check the BCM input signal. Refer to DLK-206, "Component_Function_Check".

Is the inspection result normal?

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

2.CHECK COMBINATION METER INPUT SIGNAL

CONSULT

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

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

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-81, "Removal and Installation".
NO >> Replace BCM. Refer to BCS-73, "Removal and Installation".

3.CHECK DOOR SWITCH SIGNAL CIRCUIT

Check the door switch signal circuit. Refer to DLK-206, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harness or connector.

4.CHECK DOOR SWITCH

Check the door switch. Refer to DLK-207, "Component Inspection".

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-81, "Removal and Installation".
NO >> Replace applicable door switch. Refer to DLK-332, "Removal and Installation".

THE LIFTGATE OPEN WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

Description

INFOID:0000000014621893

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

Diagnosis Procedure

INFOID:0000000015208459

1.CHECK BCM INPUT SIGNAL

Check the BCM input signal. Refer to DLK-208, "Component Function Check".

Is the inspection result normal?

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

2.CHECK COMBINATION METER INPUT SIGNAL

CONSULT

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

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

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-81, "Removal and Installation".
NO >> Replace BCM. Refer to BCS-73, "Removal and Installation".

3.CHECK BACK DOOR SWITCH SIGNAL CIRCUIT

Check the back door switch signal circuit. Refer to DLK-208, "Diagnosis Procedure (With Automatic Back Door)" or DLK-209, "Diagnosis Procedure (Without Automatic Back Door)".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harness or connector.

4.CHECK BACK DOOR SWITCH

Check the back door switch. Refer to DLK-210, "Component Inspection (With Automatic Back Door)" or DLK-211, "Component Inspection (Without Automatic Back Door)".

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-81, "Removal and Installation".
NO >> Replace back door switch. Refer to DLK-326, "DOOR LOCK : Removal and Installation".

THE METER CONTROL SWITCH IS INOPERATIVE

Description

INFOID:0000000014621895

The meter control switches are inoperative when pressed.

Diagnosis Procedure

INFOID:0000000014621896

1.CHECK METER CONTROL SWITCH SIGNAL

Check the meter control switch signal. Refer to MWI-69, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connector.

2.CHECK METER CONTROL SWITCH

Check the meter control switch. Refer to MWI-70, "Component Inspection".

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-81, "Removal and Installation".
NO >> Replace meter control switch. Refer to MWI-82, "Removal and Installation".

THE STEERING SWITCHES ARE INOPERATIVE

Description

INFOID:0000000014621897

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

Diagnosis Procedure

INFOID:0000000014621898

1.CHECK STEERING SWITCH CIRCUIT

Check steering switch circuit. Refer to MWI-71, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connector.

2.CHECK STEERING SWITCH RESISTANCE

Check steering switch resistance. Refer to MWI-71, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace steering switch. Refer to AV-65, "Removal and Installation".

3.CHECK SPIRAL CABLE

Check spiral cable for continuity. Refer to MWI-71, "Component Inspection".

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-81, "Removal and Installation".
NO >> Replace spiral cable. Refer to SR-16, "Removal and Installation".

THE AMBIENT TEMPERATURE DISPLAY IS INCORRECT

Description

INFOID:0000000014621899

- The displayed outside air temperature is higher than the actual temperature.
- The displayed outside air temperature is lower than the actual temperature.
- Outside air temperature is not indicated.

Diagnosis Procedure

INFOID:0000000014621900

1.CHECK AMBIENT SENSOR SIGNAL CIRCUIT

Check the ambient sensor signal circuit. Refer to MWI-67, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connector.

2.CHECK AMBIENT SENSOR

Check the ambient sensor. Refer to MWI-68, "Component Inspection".

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-81, "Removal and Installation".
NO >> Replace ambient sensor. Refer to HAC-121, "Removal and Installation".

REMOVAL AND INSTALLATION

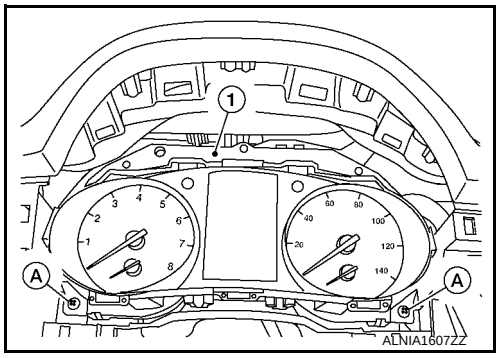
COMBINATION METER

Removal and Installation

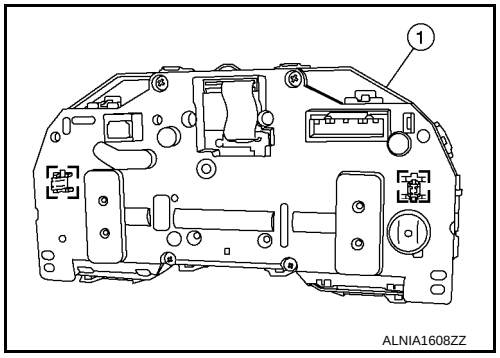
INFOID:0000000014621901

REMOVAL

1. Remove the cluster lid A. Refer to IP-20, "Removal and Installation".
2. Remove screws (A), from the combination meter (1).



3. Release the clips and remove the combination meter (1) from the instrument panel.
   : Clips
4. Disconnect the harness connectors from the combination meter and remove.



INSTALLATION

Installation is in the reverse order of removal.

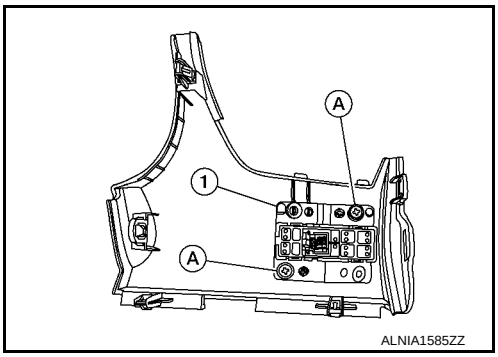
METER CONTROL SWITCH

Removal and Installation

INFOID:0000000014907759

REMOVAL

1. Remove the instrument finisher A. Refer to IP-15, "INSTRUMENT FINISHER A : Removal and Installation".
2. Remove the screws (A) and the meter control switch (1).



INSTALLATION

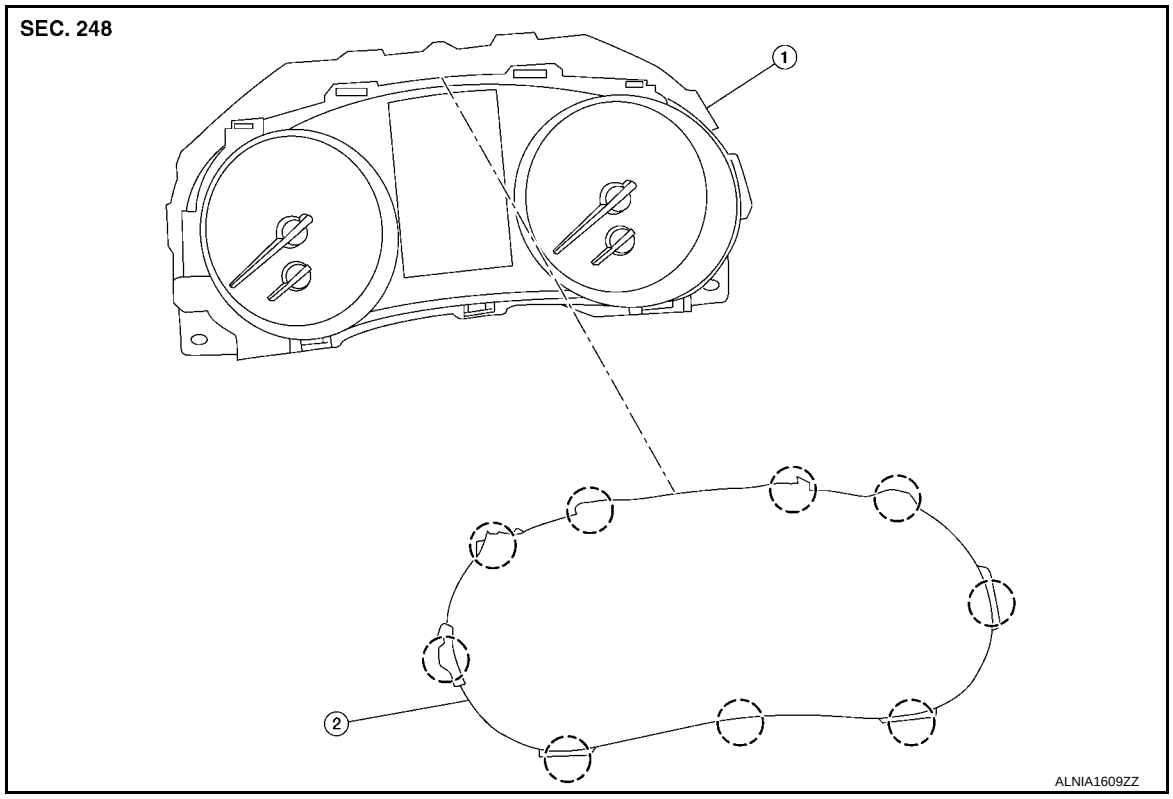
Installation is in the reverse order of removal.

UNIT DISASSEMBLY AND ASSEMBLY

COMBINATION METER

Exploded View

INFOID:0000000014621903



1. Combination meter
2. Combination meter lens
Pawl

Disassembly and Assembly

INFOID:0000000014621904

CAUTION:

- **Do not touch the display, pointer, inside of combination meter or the printed area of the dial during disassembly or assembly.**
- **Keep away from magnetic sources.**
- **Do not damage the combination meter lens.**

DISASSEMBLY

1. Remove the combination meter. Refer to MWI-81, "Removal and Installation".
2. Release pawls using a suitable tool, remove the combination meter lens.

ASSEMBLY

Assembly is in the reverse order of disassembly.