

MWI

SECTION

METER, WARNING LAMP & INDICATOR

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000008487445

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

WARNING:

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

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

WARNING:

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

PREPARATION


< PREPARATION >

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000007913287

Tool name	Description
<p>Power tool</p>  <p>PIIB1407E</p>	<p>Loosening nuts, screws and bolts</p>

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COMPONENT PARTS

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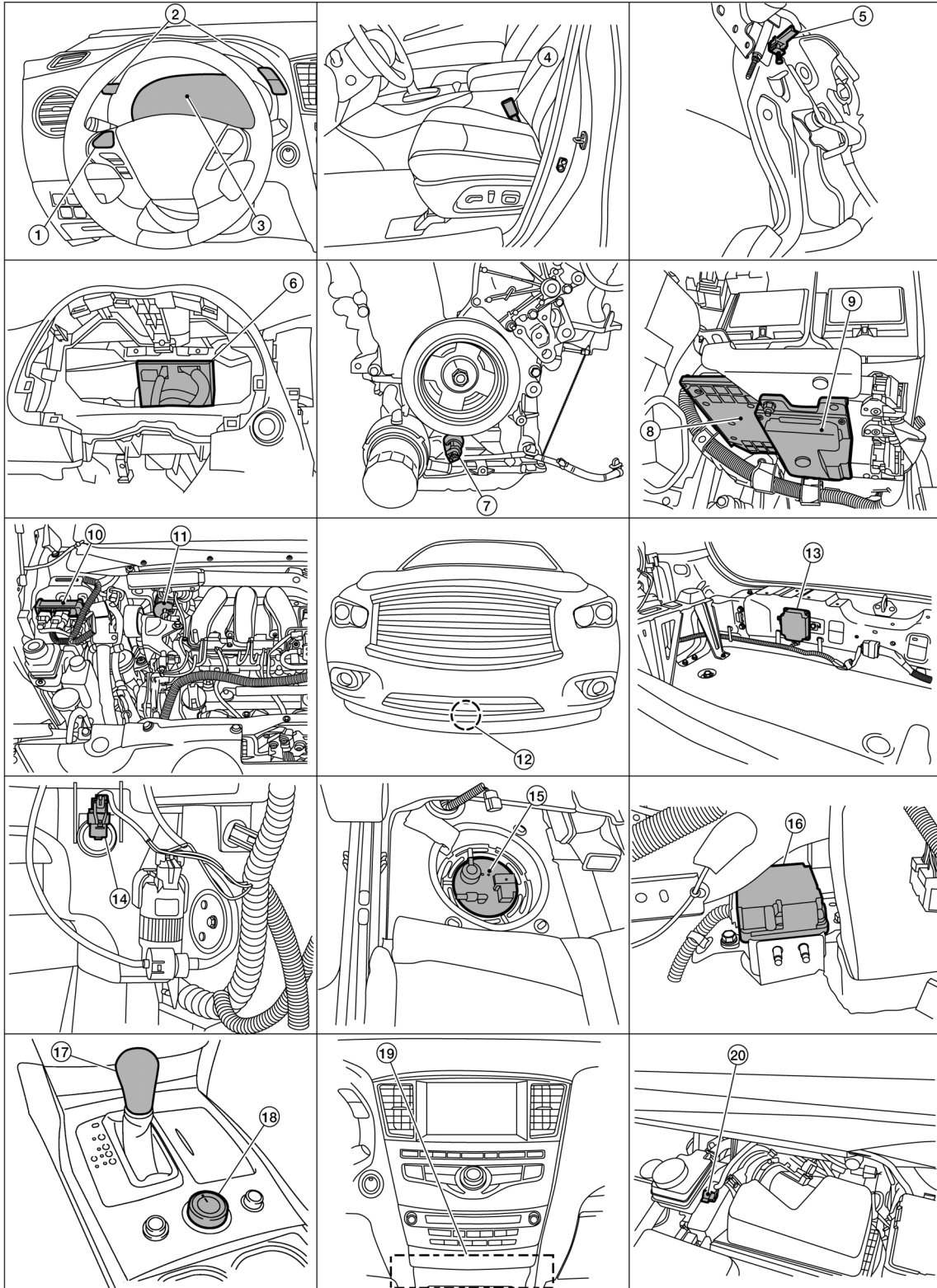
SYSTEM DESCRIPTION

COMPONENT PARTS

METER SYSTEM

METER SYSTEM : Component Parts Location

INFOID:000000007913288



AWN1A2544Z2

COMPONENT PARTS

< SYSTEM DESCRIPTION >

1. Steering switch	2. Meter control switches	3. Combination meter	A
4. Seat belt buckle switch (Driver seat) (passenger similar)	5. Parking brake switch	6. BCM (view with combination meter re- moved)	B
7. Engine oil pressure sensor	8. ECM	9. TCM	C
10. Power steering control module	11. ABS actuator and electric unit (control unit)	12. Ambient sensor	D
13. ADAS (view of rear luggage room area)	14. Washer fluid level switch (view with front fascia removed)	15. Fuel level sensor unit and fuel pump (view with fuel pump inspection cover removed)	E
16. Air bag diagnosis sensor unit (view with center console assembly re- moved)	17. CVT shift selector	18. Drive mode select switch	F
19. A/C auto amp	20. Brake fluid level switch		G

METER SYSTEM : Component Description

INFOID:000000007913289

Unit	Description
Combination meter	Controls the following with the signals received from each unit via CAN communication and the signals from switches and sensors: <ul style="list-style-type: none"> • Speedometer • Tachometer • Engine coolant temperature gauge • Fuel gauge • Warning lamps • Indicator lamps • Meter illumination control • Meter effect function • Information display
Meter control switch	Transmits the following signals to the combination meter: <ul style="list-style-type: none"> • Trip reset switch signal • Illumination control switch signal (+) • Illumination control switch signal (-)
ECM	Transmits the following signals to the combination meter via CAN communication: <ul style="list-style-type: none"> • Engine speed signal • Engine coolant temperature signal • Engine oil pressure warning signal • Fuel consumption monitor signal
ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal to the combination meter via CAN communication.
Power steering control module	Transmits the EPS signal to the combination meter via CAN communication.
BCM	Transmits the following signals to the combination meter via CAN communication: <ul style="list-style-type: none"> • Tire pressure information • Position light request signal • Low tire pressure warning lamp signal • Door switch signal • Back door switch signal
TCM	Transmits the following signals to the combination meter via CAN communication: <ul style="list-style-type: none"> • Shift position signal • Manual mode shift refusal signal
CVT shift selector	Transmits the following signals to the combination meter: <ul style="list-style-type: none"> • Manual mode signal • Non-manual mode signal • Manual mode shift up signal • Manual mode shift down signal
Fuel level sensor unit	Transmits the fuel level sensor signal to the combination meter.
Seat belt buckle switch (driver seat)	Transmits the seat belt buckle switch (driver seat) signal to the combination meter.

COMPONENT PARTS

< SYSTEM DESCRIPTION >

Unit	Description
Air bag diagnosis sensor unit	Transmits the seat belt buckle switch (passenger seat) signal to the combination meter.
Engine oil pressure sensor	Transmits the engine oil pressure sensor signal to the ECM.
Ambient sensor	Transmits the ambient sensor signal to the A/C auto amp.
A/C auto amp.	Transmits the following signals to the combination meter via CAN communication: <ul style="list-style-type: none"> • Ambient sensor signal • Drive mode select switch signal
Parking brake switch	Transmits the parking brake switch signal to the combination meter.
Washer fluid level switch	Transmits the washer fluid level switch signal to the combination meter.
Steering switch	Transmits the following signals to the information display: <ul style="list-style-type: none"> • Display signal • Menu up signal • Menu down signal • Enter signal • Back signal
ADAS control unit (if equipped)	Refer to DAS-19. "System Description" .
Drive mode select switch	Refer to DMS-2. "Infiniti Drive Mode Selector" .
Brake fluid level switch	Transmits the brake fluid level switch signal to the combination meter.

SYSTEM

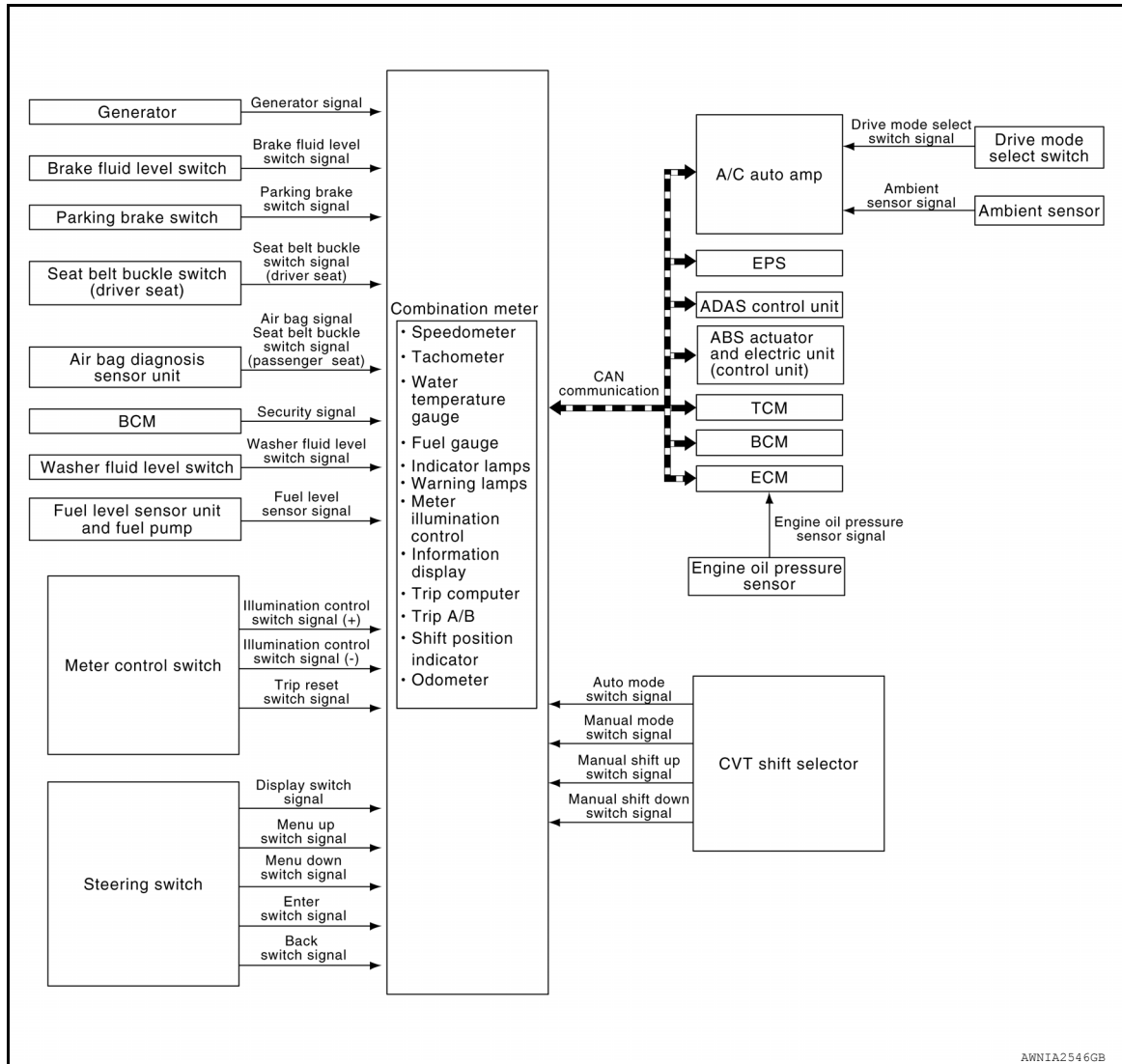
< SYSTEM DESCRIPTION >

SYSTEM

METER SYSTEM

METER SYSTEM : System Diagram

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METER SYSTEM : System Description

INFOID:000000007913292

COMBINATION METER

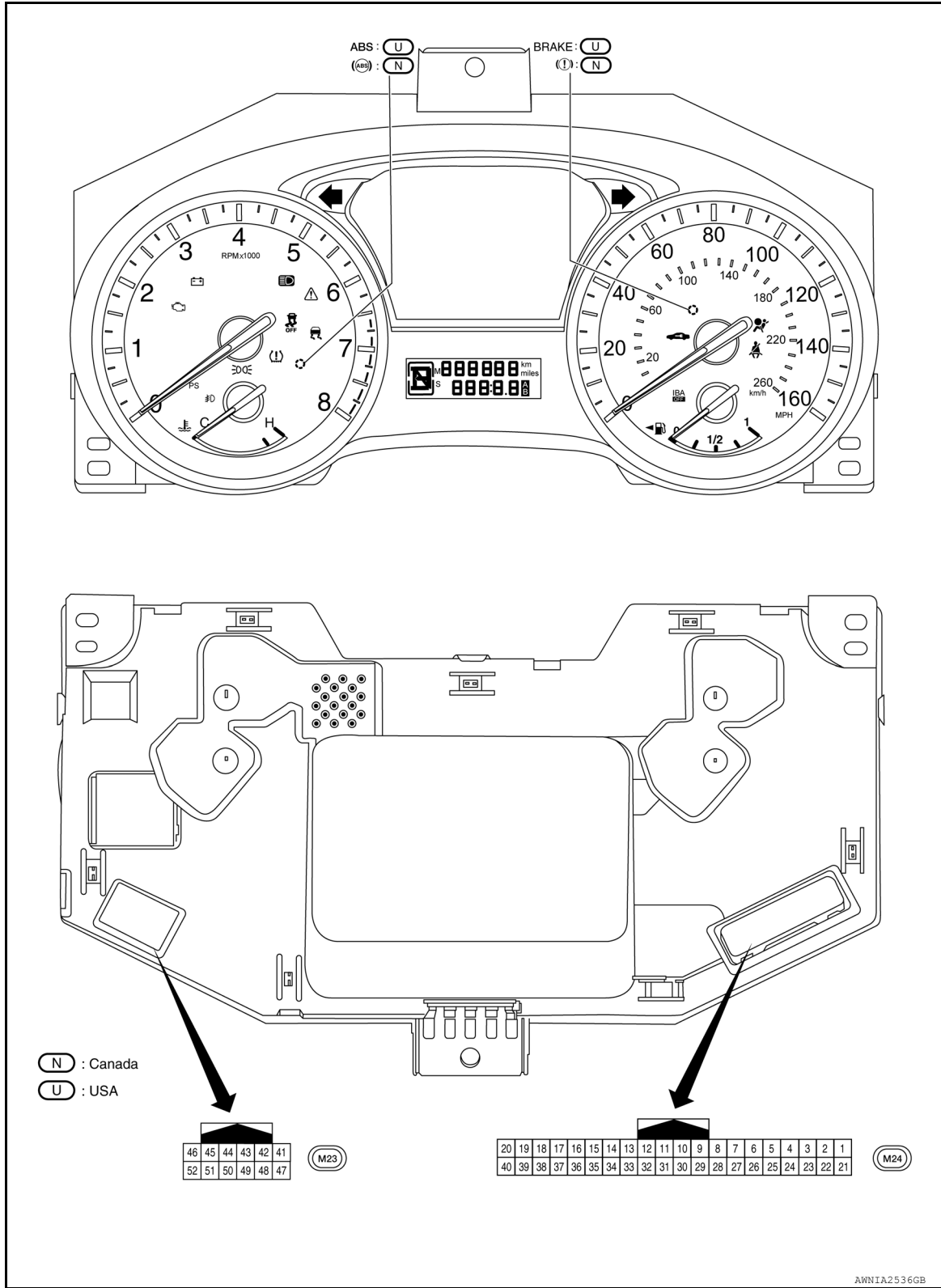
- The combination meter receives signals from switches, sensors and modules to control the following functions:
 - Speedometer/tachometer
 - Warning lamps
 - Indicator lamps
 - Meter illumination control
 - Meter effect function
 - Information display
- The combination meter has an integrated buzzer that is activated when it receives a signal from the BCM via CAN communication. Refer to [WCS-6, "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.

SYSTEM

< SYSTEM DESCRIPTION >

METER SYSTEM : Arrangement of Combination Meter

INFOID:000000008166249



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METER SYSTEM : Fail-Safe

INFOID:000000008249397

FAIL-SAFE

The combination meter activates the fail-safe control if CAN communication with each unit is malfunctioning.

SYSTEM

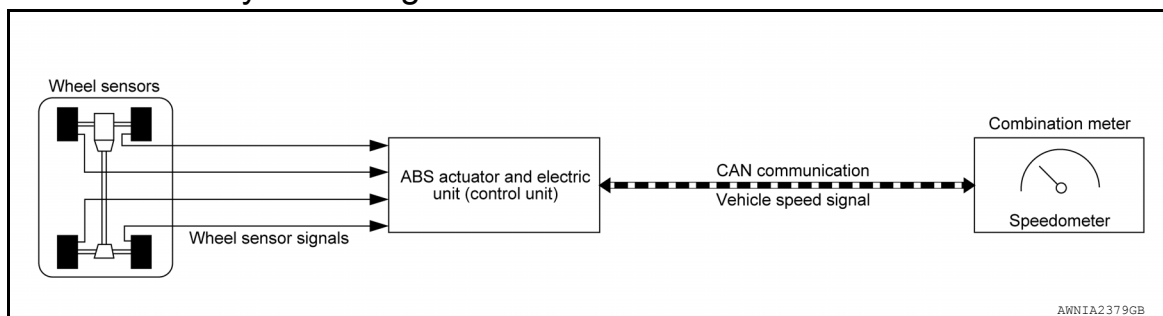
< SYSTEM DESCRIPTION >

Function		Specifications
Speedometer		Reset to zero by suspending communication.
Tachometer		
Engine coolant temperature gauge		
Illumination control		When suspending communication, changes to nighttime mode.
Information display	Odo/trip meter	An indicated value is maintained at communications blackout.
	Shift position indicator	The display turns OFF by suspending communication.
	Warning messages	The display turns OFF by suspending communication.
Buzzer		The buzzer turns OFF by suspending communication.
Warning lamp/indicator lamp	ABS warning lamp	The lamp turns ON by suspending communication.
	Slip indicator lamp	
	Brake warning lamp	
	IBA OFF indicator lamp	
	Malfunction indicator lamp	
	VDC OFF indicator lamp	
	EPS warning lamp	
	Low tire pressure warning lamp	The lamp blinking caused by suspending communication.
	High beam indicator lamp	The lamp turns OFF by suspending communication.
	Turn signal indicator lamp	
	Master warning lamp	
	Front lamp indicator lamp	
	Lane departure warning	
	Tail lamp indicator lamp	
	Air bag warning lamp	The lamp turns off when disconnected.
	Charge warning lamp	
	Seat belt warning lamp	
Security indicator lamp		

SPEEDOMETER

SPEEDOMETER : System Diagram

INFOID:000000007913294



SPEEDOMETER : System Description

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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.

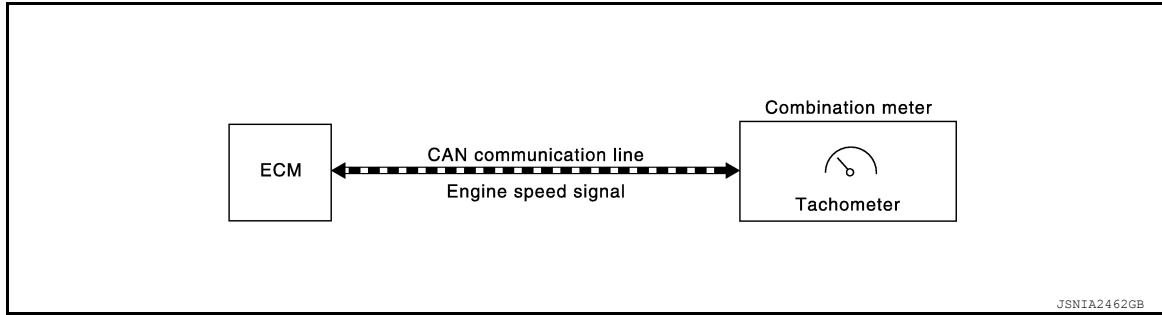
TACHOMETER

SYSTEM

< SYSTEM DESCRIPTION >

TACHOMETER : System Diagram

INFOID:000000007913296



TACHOMETER : System Description

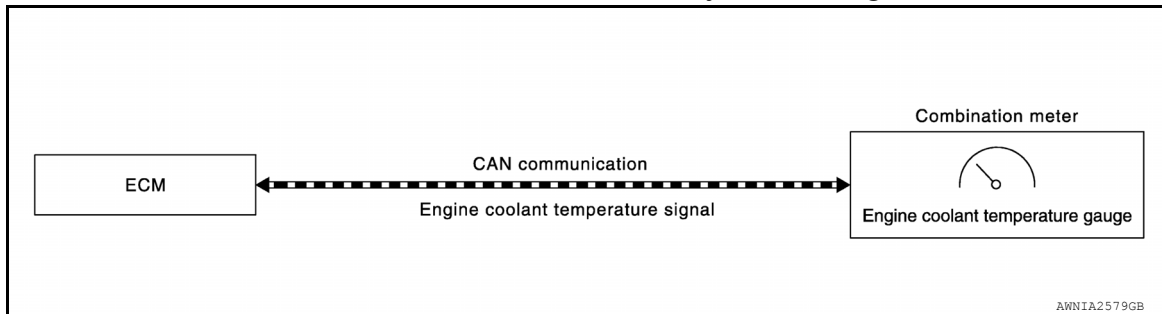
INFOID:000000007913297

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

ENGINE COOLANT TEMPERATURE GAUGE

ENGINE COOLANT TEMPERATURE GAUGE : System Diagram

INFOID:000000007913298



ENGINE COOLANT TEMPERATURE GAUGE : System Description

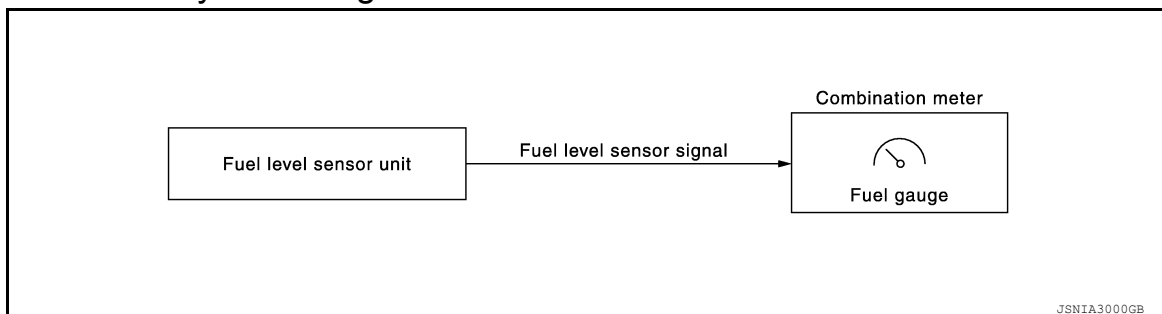
INFOID:000000007913299

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

FUEL GAUGE

FUEL GAUGE : System Diagram

INFOID:000000007913300



FUEL GAUGE : System Description

INFOID:000000007913301

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.

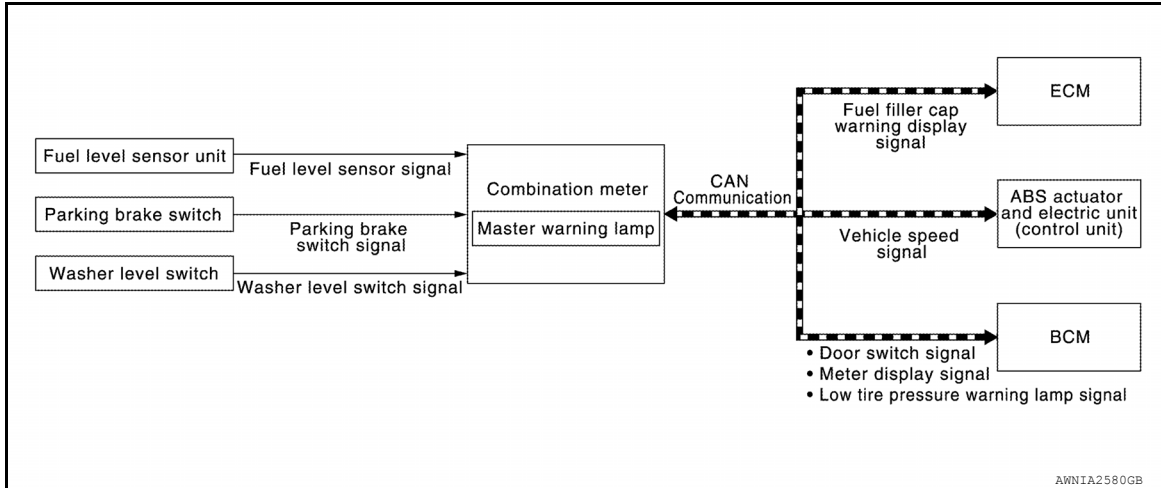
MASTER WARNING LAMP

SYSTEM

< SYSTEM DESCRIPTION >

MASTER WARNING LAMP : System Diagram

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MASTER WARNING LAMP : System Description

INFOID:000000007913309

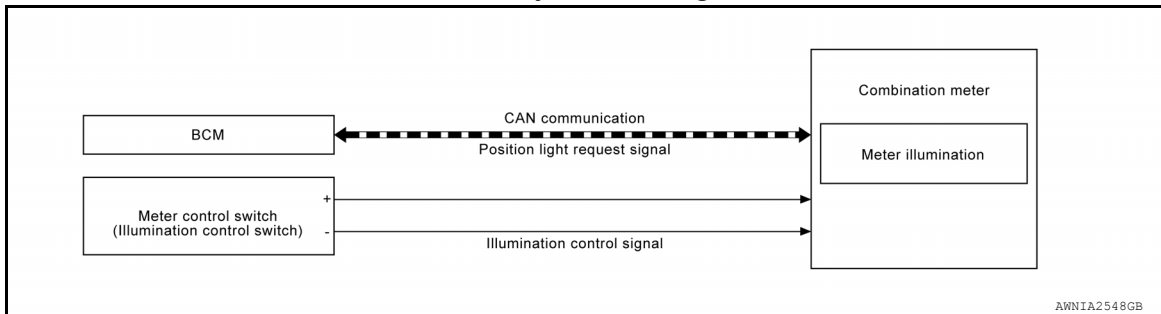
When receiving a signal from each unit, switch, or sensor, the combination meter turns ON/OFF the master warning lamp in synchronization with the following warnings on the information display:

- Door open warning
- Parking brake release warning
- Low fuel warning
- Low washer fluid warning
- NO KEY warning
- Low tire pressure warning
- Fuel filler cap warning

METER ILLUMINATION CONTROL

METER ILLUMINATION CONTROL : System Diagram

INFOID:000000007913310



METER ILLUMINATION CONTROL : System Description

INFOID:000000007913311

METER ILLUMINATION ON/OFF CONTROL FUNCTION

Meter illumination control is enabled when the meter receives a signal from the BCM that the combination switch is in the 1st or 2nd position and the meter switches from Daytime mode to Nighttime mode.

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	22 steps
Nighttime	22 steps

METER EFFECT FUNCTION

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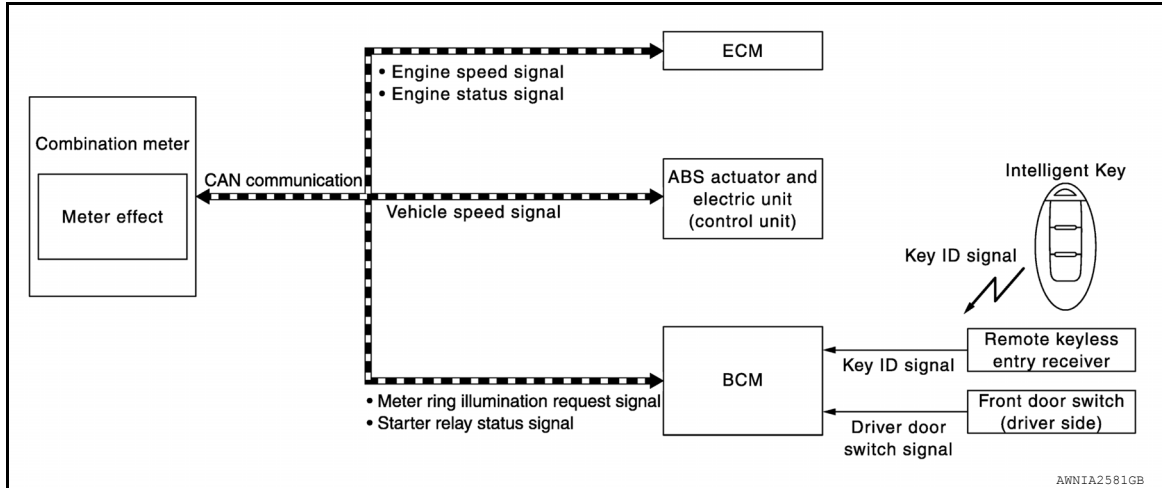
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< SYSTEM DESCRIPTION >

METER EFFECT FUNCTION : System Diagram

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METER EFFECT FUNCTION : System Description

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ENGINE-START EFFECT FUNCTION

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

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

Meter and Illumination Operations During Engine-start Effect

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

Control item		Operation
Speedometer		Sweeps the pointer.
Tachometer		Sweeps the pointer.
Engine coolant temperature gauge		Stops the pointer.
Fuel gauge		Stops the pointer.
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 Judgement

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:

SYSTEM

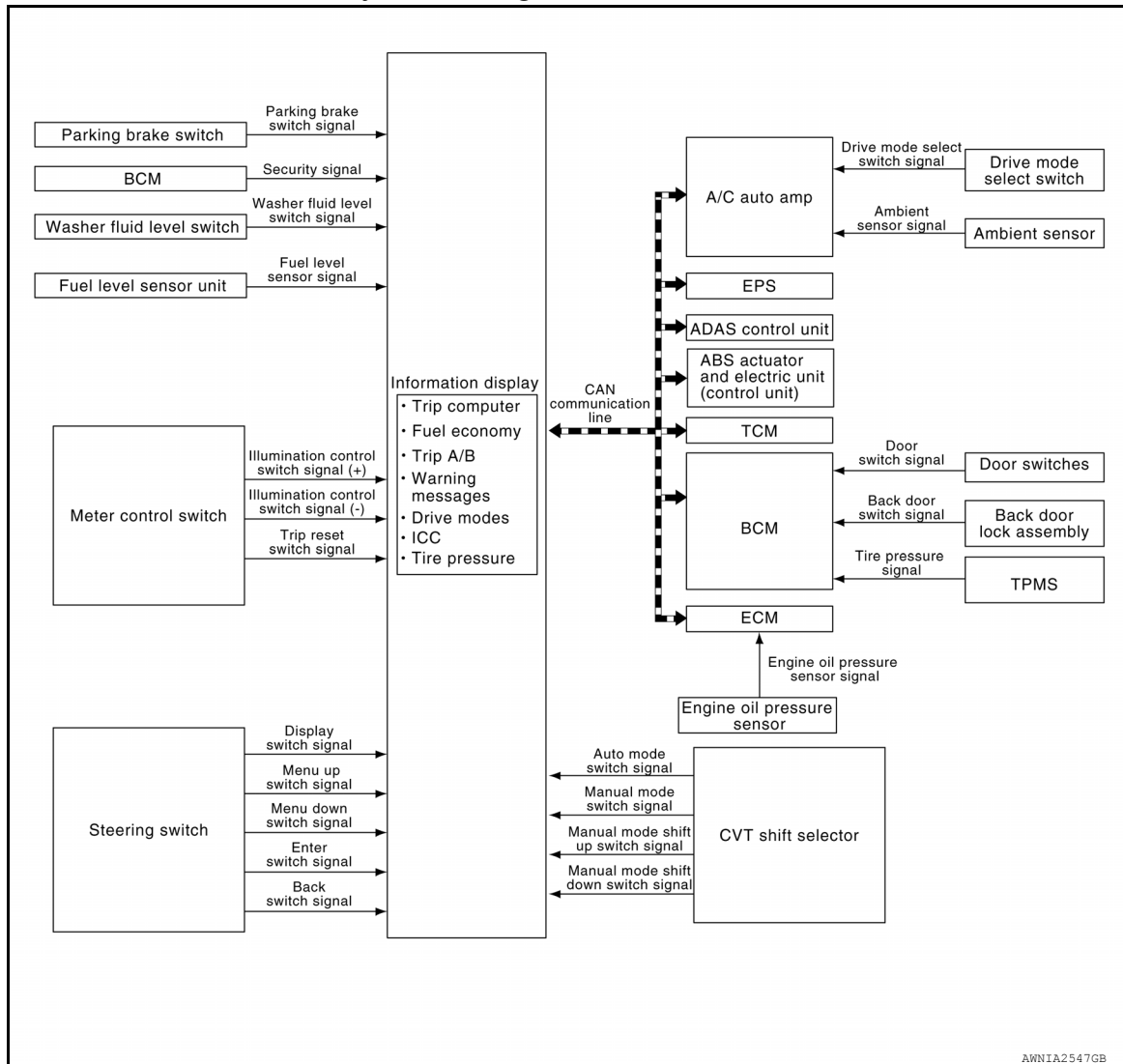
< SYSTEM DESCRIPTION >

Engine-start effect exits when any of the above operational conditions is cancelled during the engine-start effect.

INFORMATION DISPLAY

INFORMATION DISPLAY : System Diagram

INFOID:000000007913114



INFORMATION DISPLAY : System Description

INFOID:000000007913115

FUNCTION

The information display can indicate the following items:

- Outside air temperature
- Trip computer
- Intelligent Key operation information
- CVT shift position indicator
- Odometer
- ADAS information
- 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 ambient temperature sensor sends the ambient sensor signal to the A/C auto amp. The a/c auto amp, then sends the signal to the combination meter via CAN communication lines.

LOOSE FUEL CAP MESSAGE

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SYSTEM

< SYSTEM DESCRIPTION >

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

LOW TIRE PRESSURE WARNING

This warning appears when the BCM detects low inflation pressure or a system malfunction. The BCM sends a signal to the combination meter via CAN communication 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 less than approximately 3 US gal (11.3 L, 2.5 Imp gal). A variable resistor signal is supplied to the combination meter from the fuel level sensor unit to determine the amount of fuel in the fuel tank.

LOW WINDSHIELD WASHER FLUID WARNING

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

RELEASE PARKING BRAKE WARNING

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

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 ECM 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.

DIAGNOSIS SYSTEM (COMBINATION METER)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (COMBINATION METER)

Description

INFOID:000000008185165

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).

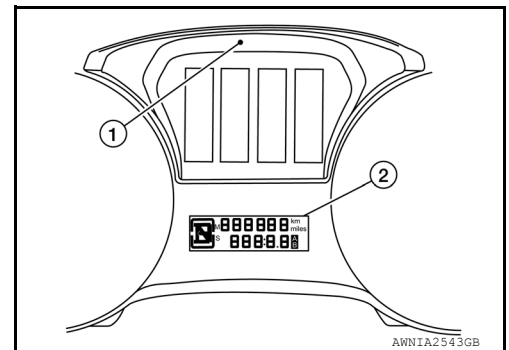
STARTING COMBINATION METER SELF-DIAGNOSIS MODE

NOTE:

- Check combination meter power supply and ground circuits if self-diagnosis mode does not start. Refer to [MWI-73, "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 to [MWI-93, "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. Press and hold the trip reset switch while turning the ignition switch ON. After 2 seconds release trip reset switch, then press the trip reset switch 3 times within 7 seconds after the ignition switch is turned ON.
2. When the diagnosis function is activated, the meter illuminates all of the following:
 - Warning lights/indicators.
 - Meter assembly.
 - Information display color bars red, green, blue and white (1).
 - Odometer, trip A/B odometers and CVT indicator LCD display segments (2).
3. Press and hold the trip reset switch performs the pointer sweep test.



CONSULT Function (METER/M&A)

INFOID:000000007913318

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.
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-25, "DTC Index"](#).

DATA MONITOR

Display Item List

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DIAGNOSIS SYSTEM (COMBINATION METER)

< SYSTEM DESCRIPTION >

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 ECM 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 ECM.
DOOR W/L [ON/OFF]		Displays [ON/OFF] condition of door warning message.
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.
OIL W/L [ON/OFF]		Displays [ON/OFF] condition of low oil pressure warning message.
MIL [ON/OFF]		Displays [ON/OFF] condition of malfunction indicator.
CRUISE IND [Off]		Displays [ON/OFF] condition of CRUISE indicator in the information display.
SET IND [On/Off]		Displays [ON/OFF] condition of SET indicator in the information display.
FUEL W/L [On/Off]		Displays [ON/OFF] condition of low-fuel warning message.
WASHER W/L [On/Off]		Displays [ON/OFF] condition of low washer fluid warning message.
KEY G/Y W/L [On/Off]		Displays [ON/OFF] condition of key green warning lamp.
EPS W/L [On/Off]		Displays [ON/OFF] condition of EPS warning indicator.
LCD		Displays the value of Intelligent Key system message indication.
ACC SET SPEED [Off, km/h or mph]		Displays OFF or SET vehicle speed status in the information display.
ACC UNIT [On/Off]		Displays [ON/OFF] condition of display unit in the information display.
ECO DRIVE IND G [On/Off]		Displays [ON/OFF] condition of green ECO DRIVE indicator in the information display.
ECO DRIVE IND O [On/Off]		Displays [ON/OFF] condition of orange ECO DRIVE indicator in the information display.
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.

DIAGNOSIS SYSTEM (COMBINATION METER)

< SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description
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.
BRAKE OIL SW [On/Off]		Displays [ON/OFF] condition of brake fluid level switch.
DISTANCE [km] or [Mij]		Displays distance to empty.
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 MALF [ON/OFF]		Displays [ON/OFF] condition of TPMS warning indicator.
BSW IND [On/Off]		Displays [On/Off] condition of vehicle ahead detection indicator in the information display.
LDP IND [On/Off]		Displays [Off, Short, Middle, Long] status of set distance indicator in the information display.

SPECIAL FUNCTION

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.

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

COMBINATION METER

Reference Value

INFOID:000000007913319

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)
DOOR W/L	Ignition switch ON	Door open warning ON	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
LIGHT IND	Ignition switch ON	Tail lamp indicator lamp ON	On
		Tail lamp indicator lamp OFF	Off
OIL W/L	Ignition switch ON	Oil pressure warning	On
		Oil pressure warning	Off
MIL	Ignition switch ON	Malfunction indicator lamp ON	On
		Malfunction indicator lamp OFF	Off
CRUISE IND	Ignition switch ON	CRUISE indicator ON	On
		CRUISE indicator OFF	Off
SET IND	Ignition switch ON	SET indicator ON	On
		SET indicator OFF	Off
FUEL W/L	Ignition switch ON	During low fuel level indication	On
		Except during low fuel level indication	Off
WASHER W/L	Ignition switch ON	Low washer fluid warning indication	On
		Except during low washer fluid warning indication	Off
KEY G/Y W/L	Ignition switch ON	KEY warning lamp (Green/Yellow) ON	On
		KEY warning lamp (Green/Yellow) OFF	Off
EPS W/L	Ignition switch ON	EPS warning lamp ON	On
		EPS warning lamp OFF	Off
LCD	Ignition switch ACC	During engine start information indication	B&P

COMBINATION METER

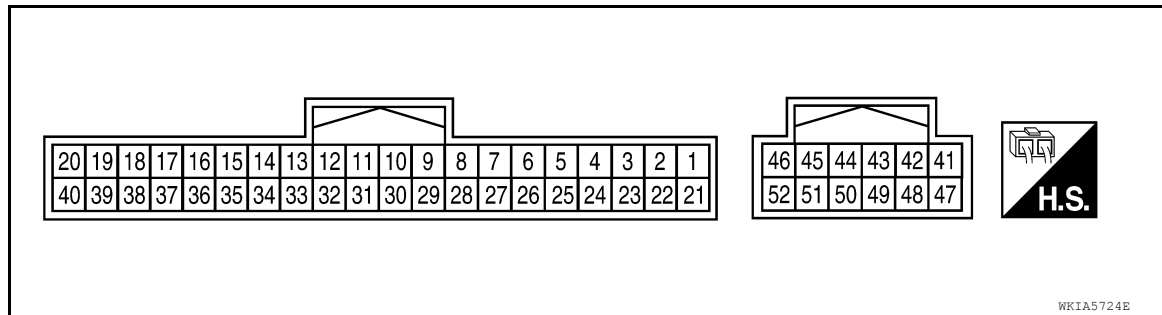
< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition		Value/Status	
ACC SET SPEED	Ignition switch ON	During set vehicle speed indicator not displayed	Off	A
		During set vehicle speed indicator displayed	Indicates the set vehicle speed	B
ACC UNIT	Ignition switch ON	Set vehicle speed indicator unit display ON	On	C
		Set vehicle speed indicator unit display OFF	Off	
ECO DRIVE IND G	Ignition switch ON	ECO drive indicator ON (green) ON	On	D
		ECO drive indicator OFF (green) OFF	Off	
ECO DRIVE IND O	Ignition switch ON	ECO drive indicator ON (orange) ON	On	E
		ECO drive indicator OFF (orange) OFF	Off	
FUEL CAP W/L	Ignition switch ON	Fuel filler cap warning display ON	On	F
		Fuel filler cap warning display OFF	Off	
M RANGE SW	Ignition switch ON	Shift selector in manual mode position	On	G
		Shift selector in non manual mode position	Off	
NM RANGE SW	Ignition switch ON	Shift selector in manual mode position	Off	H
		Shift selector in non manual mode position	On	
AT SFT UP SW	Ignition switch ON	Shift selector is in manual mode up position	On	I
		Shift selector is in non manual mode up position	Off	
AT SFT DWN SW	Ignition switch ON	Shift selector is in manual mode down position	On	J
		Shift selector is in non manual mode down position	Off	
PKB SW	Ignition switch ON	Parking brake switch ON	On	K
		Parking brake switch OFF	Off	
EPS W/L	Ignition switch ON	EPS warning lamp ON	On	L
		EPS warning lamp OFF	Off	
BRAKE OIL SW	Ignition switch ON	Brake fluid level switch ON	On	M
		Brake fluid level switch OFF	Off	
DISTANCE [mph or km/h]	Ignition switch ON	—	Distance to empty	
FUEL LOW SIG	Ignition switch ON	During low fuel warning indication	On	MWI
		Except during low fuel warning indication	Off	
BUZZER	Ignition switch ON	Buzzer ON	On	O
		Buzzer OFF	Off	
TPMS MALF	Ignition switch ON	Low tire pressure warning lamp ON	On	P
		Low tire pressure warning lamp OFF	Off	
BSW IND	Ignition switch ON	Blind Spot Intervention ON (green) ON	On	
		Blind Spot Intervention ON (green) OFF	Off	
LDP IND	Ignition switch ON	LDP ON indicator ON	On	
		LDP ON indicator OFF	Off	

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT

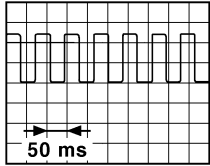
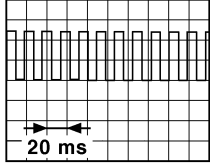
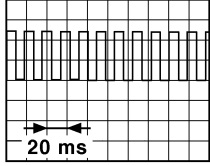


PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
1 (B)	Ground	Ground	Input	Ignition switch OFF	—	Battery voltage
2 (B)	Ground	Ground	Input	Ignition switch ON	—	Battery voltage
3 (P)	Ground	Steering switch input 1	—	—	—	—
4 (BG)	Ground	Steering switch input 2	—	—	—	—
5 (P)	Ground	ACC	—	Ignition switch ON	Ignition switch ACC or ON power supply	Battery voltage
6 (V)	Ground	Security signal	Input	Ignition switch ON	Security indicator ON	0 V
					Security indicator OFF	12 V
7 (R)	Ground	Air bag signal	Input	Ignition switch ON	Air bag warning lamp ON	—
					Air bag warning lamp OFF	—
8 (G)	Ground	Passenger seat belt warn- ing signal	Input	Ignition switch ON	Fastened	12 V
					Unfastened	0 V
9 (Y)	Ground	Seat belt buckle switch sig- nal (driver seat)	Input	Ignition switch ON	Fastened	12 V
					Unfastened	0 V
11 (BG)	Ground	Alternator signal	Input	Ignition switch ON	Charge warning lamp ON	2 V
					Charge warning lamp OFF	Battery voltage
12 (G)	Ground	Parking brake switch signal	Input	Ignition switch ON	Parking brake applied	0 V
					Parking brake released	12 V
14 (G)	Ground	Steering switch output 1	—	—	—	—
15 (W)	Ground	Steering switch output 2	—	—	—	—
16 (B)	—	Steering switch output ground	—	—	—	0 V

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
21 (BG)	—	Ignition signal	—	Ignition switch ON or START	—	12 V
22 (W)	—	Battery power supply	—	Ignition switch OFF	—	Battery voltage
23 (B)	Ground	Illumination control output signal	—	Ignition switch ON	—	0 V
24 (R)	Ground	Steering switch ground	—	Ignition switch ON	—	0 V
25 (G)	Ground	Brake fluid level switch	Input	Ignition switch ON	Brake fluid level low	0 V
				Ignition switch ON	Brake fluid level normal	Battery voltage
26 (R)	Ground	Fuel level sensor ground	—	Ignition switch ON	—	0 V
27 (W)	Ground	Fuel level sensor signal	—	—	—	—
33 (BR)	Ground	Vehicle speed signal (2-pulse)	Output	Ignition switch ON	Speedometer operated [When vehicle speed is approx. 25 MPH (40 km/h)]	<p>NOTE: The maximum voltage varies depending on the specification (destination unit).</p>  <p style="text-align: right; font-size: small;">JSN1A0015GB</p>
						<p>NOTE: The maximum voltage varies depending on the specification (destination unit).</p>  <p style="text-align: right; font-size: small;">JSN1A0012GB</p>
34 (GR)	Ground	Vehicle speed signal (8-pulse)	Output	Ignition switch ON	Speedometer operated [When vehicle speed is approx. 25 MPH (40 km/h)]	<p>NOTE: The maximum voltage varies depending on the specification (destination unit).</p>  <p style="text-align: right; font-size: small;">JSN1A0012GB</p>
38 (P)	Ground	CAN-L	—	—	—	—
39 (L)	Ground	CAN-H	—	—	—	—
41 (LG)	Ground	Trip/Reset signal	Input	Ignition switch ON	Trip/Reset switch is pressed	0 V
					Other than the above	5 V
42 (Y)	Ground	Illumination down switch signal	Input	Ignition switch ON	Illumination switch down is pressed	0 V
					Other than the above	5 V

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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
43 (V)	Ground	M Range se	Input	Ignition switch ON	Selector manual mode posi- tion	0 V
					Other than the above	12 V
44 (BG)	Ground	Manual mode shift up sig- nal	Input	Ignition switch ON	Selector lever UP operation	0 V
					Other than the above	12 V
45 (W)	Ground	Manual mode shift down signal	Input	Ignition switch ON	Selector lever DOWN opera- tion	0 V
					Other than the above	12 V
46 (P)	Ground	Non-manual mode signal	Input	Ignition switch ON	Selector manual mode posi- tion	12 V
					Other than the above	0 V
47 (BR)	Ground	Illumination up switch sig- nal	Input	Ignition switch ON	Illumination switch up is pressed	0 V
					Other than the above	5 V
48 (G)	Ground	Meter control switch ground	—	—	—	—
49 (P)	Ground	Washer fluid level switch signal	Input	Ignition switch ON	Washer fluid level switch ON	0 V
					Washer fluid level switch OFF	5 V

Fail-Safe

INFOID:000000007913320

FAIL-SAFE

The combination meter activates the fail-safe control if CAN communication with each unit is malfunctioning.

Function		Specifications
Speedometer		Reset to zero by suspending communication.
Tachometer		
Engine coolant temperature gauge		
Illumination control		When suspending communication, changes to nighttime mode.
Information display	Odo/trip meter	An indicated value is maintained at communications blackout.
	Shift position indicator	The display turns OFF by suspending communication.
	Warning messages	The display turns OFF by suspending communication.
Buzzer		The buzzer turns OFF by suspending communication.

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

Function		Specifications	
Warning lamp/indicator lamp	ABS warning lamp	The lamp turns ON by suspending communication.	A
	Slip indicator lamp		B
	Brake warning lamp		C
	IBA OFF indicator lamp		
	Malfunction indicator lamp		
	VDC OFF indicator lamp		
	EPS warning lamp	The lamp blinking caused by suspending communication.	D
	Low tire pressure warning lamp		
	High beam indicator lamp	The lamp turns OFF by suspending communication.	E
	Turn signal indicator lamp		F
	Master warning lamp		
	Front lamp indicator lamp		
	Lane departure warning		
	Tail lamp indicator lamp		
	Air bag warning lamp	The lamp turns off when disconnected.	G
	Charge warning lamp		
Seat belt warning lamp			
Security indicator lamp			

DTC Index

INFOID:000000007913321

Display contents of CONSULT	Diagnostic item is detected when...	Refer to
CAN COMM CIRCUIT [U1000]	When combination meter is not transmitting or receiving CAN communication signal for 2 seconds or more.	MWI-68
CONTROL UNIT (CAN) [U1010]	When detecting error during the initial diagnosis of the CAN controller of combination meter.	MWI-69
VEHICLE SPEED CIRC [B2205]	The abnormal vehicle speed signal is input from the ABS actuator and electric unit (control unit) for 2 seconds or more.	MWI-70
TACHO METER [B2267]	If ECM continuously transmits abnormal engine speed signals for 2 seconds or more.	MWI-71
WATER TEMP METER [B2268]	If ECM continuously transmits abnormal engine coolant temperature signals for 60 seconds or more.	MWI-72

MWI

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

List of ECU Reference

INFOID:000000008249398

ECU	Reference
BCM	BCS-27. "Reference Value"
	BCS-52. "Wiring Diagram"
	BCS-47. "Fail Safe"
	BCS-47. "DTC Inspection Priority Chart"
	BCS-49. "DTC Index"

METER SYSTEM

< WIRING DIAGRAM >

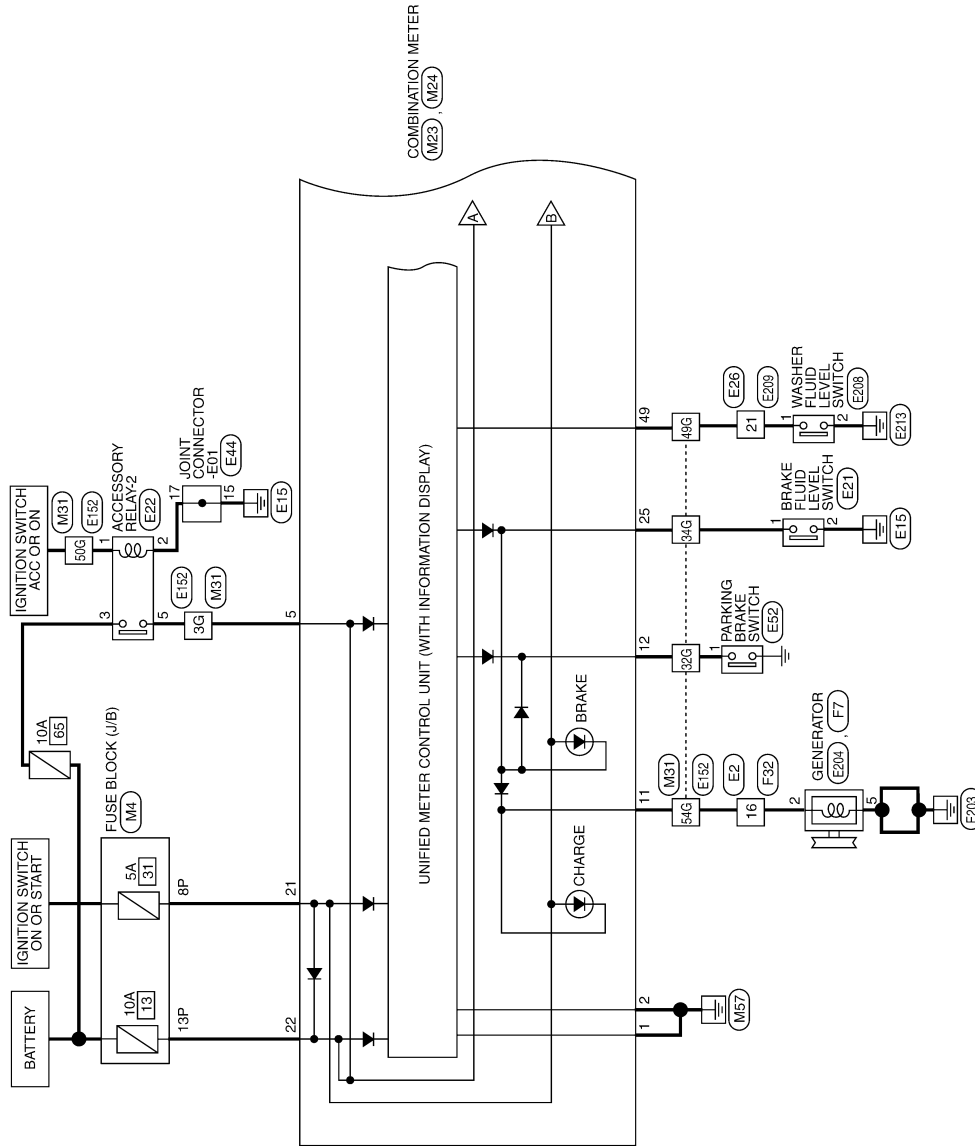
WIRING DIAGRAM

METER SYSTEM

Wiring Diagram - With Intelligent Cruise Control

INFOID:000000007913323

METER - WITH INTELLIGENT CRUISE CONTROL



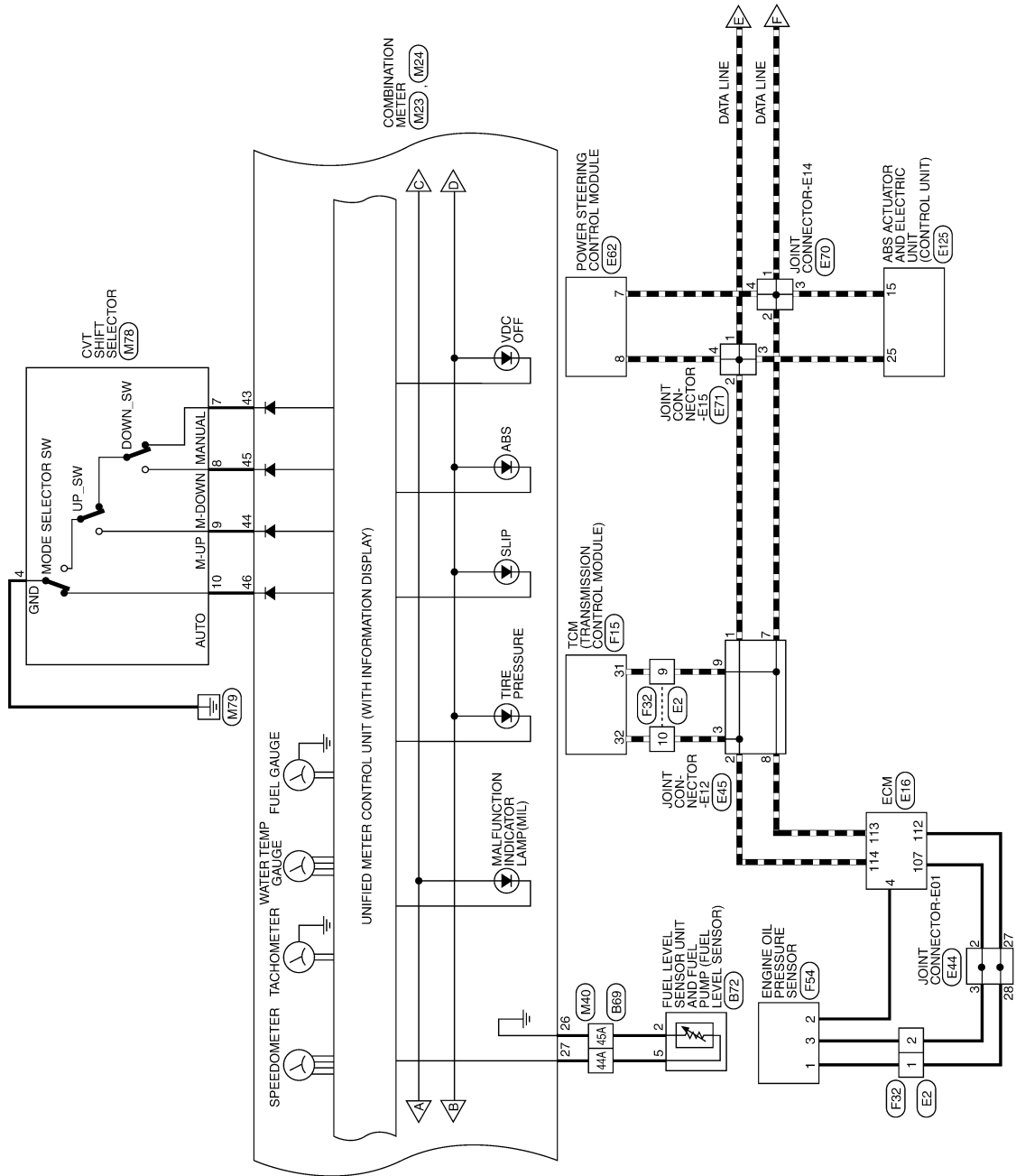
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METER SYSTEM

< WIRING DIAGRAM >

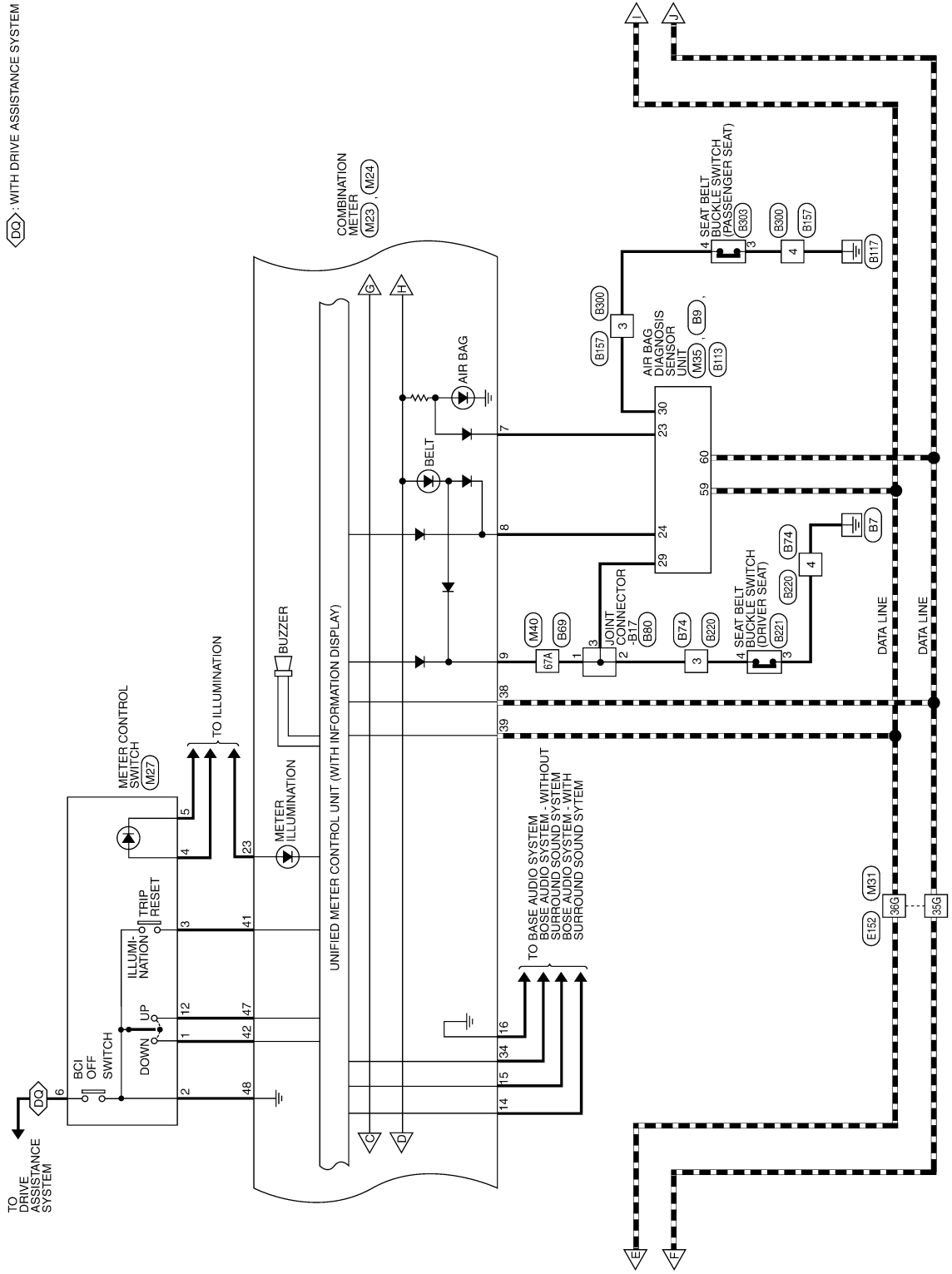


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METER SYSTEM

< WIRING DIAGRAM >

◇◇ : WITH DRIVE ASSISTANCE SYSTEM



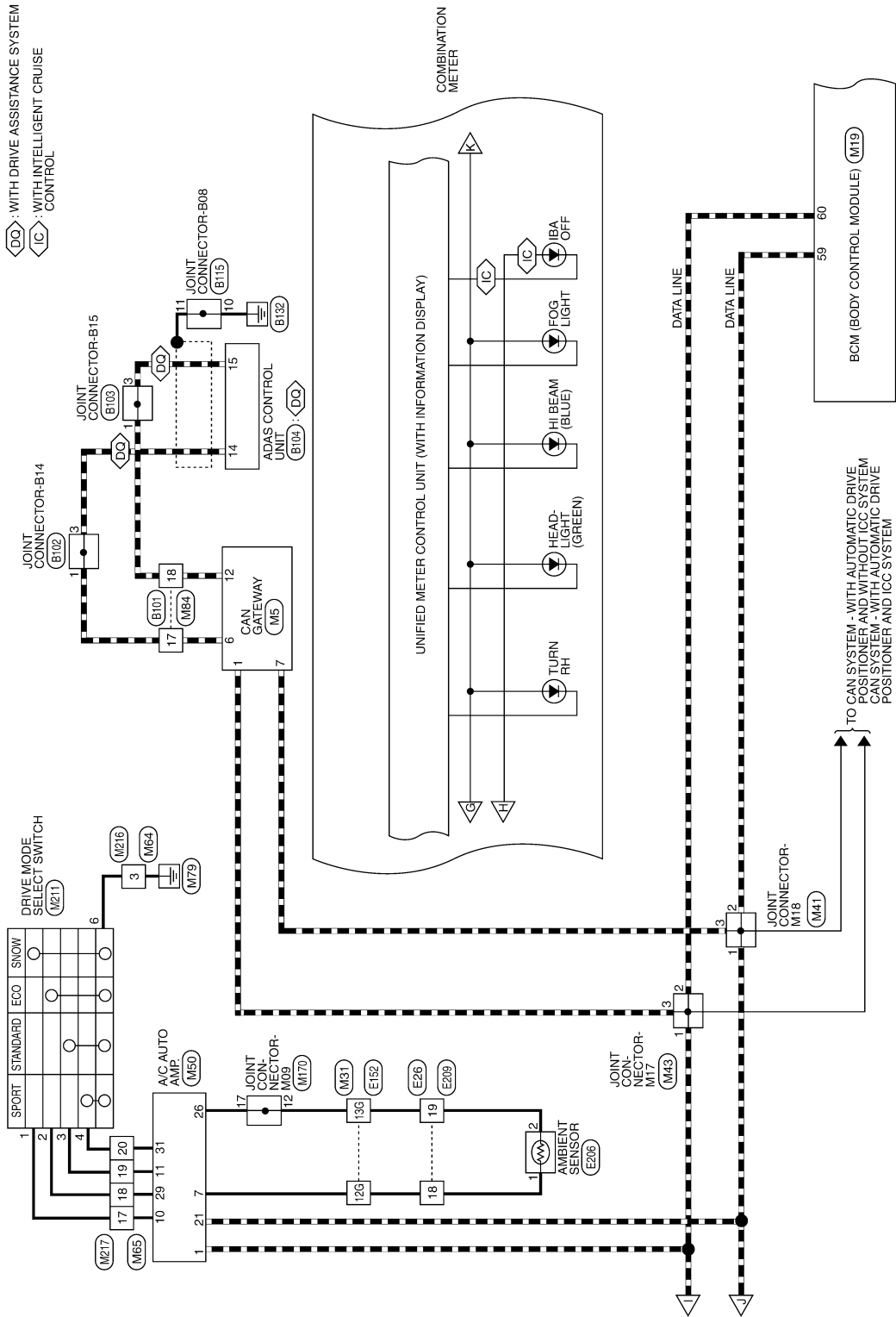
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METER SYSTEM

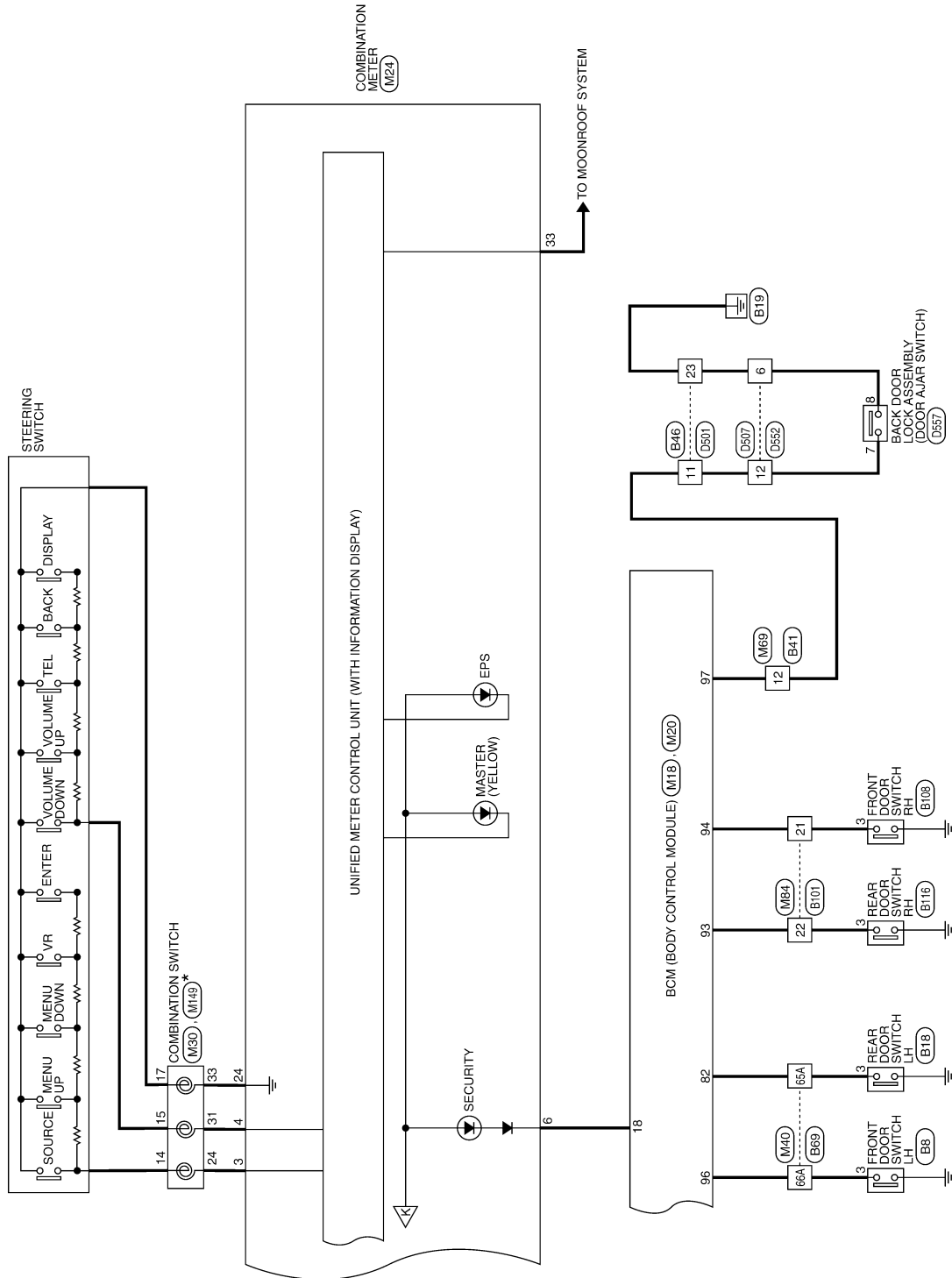
< WIRING DIAGRAM >



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METER SYSTEM

< WIRING DIAGRAM >



* : THIS CONNECTOR IS NOT SHOWN IN "HARNES LAYOUT" OF PG SECTION.

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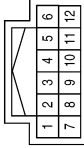
METER CONNECTORS - WITH INTELLIGENT CRUISE CONTROL

Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



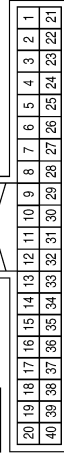
Terminal No.	Color of Wire	Signal Name
8P	BG	-
13P	W	-

Connector No.	M5
Connector Name	CAN GATEWAY
Connector Color	WHITE



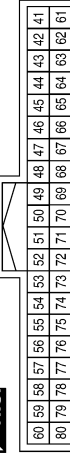
Terminal No.	Color of Wire	Signal Name
1	L	-
6	L	-
7	P	-
12	P	-

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	GREEN



Terminal No.	Color of Wire	Signal Name
18	V	SECURITY INDICATOR

Connector No.	M19
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



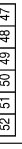
Terminal No.	Color of Wire	Signal Name
59	P	CAN-L
60	L	CAN-H

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



Terminal No.	Color of Wire	Signal Name
82	W	RL DOOR SW
93	R	RR DOOR SW
94	G	AS DOOR SW
96	BG	DR DOOR SW
97	W	BACK DOOR SW

Connector No.	M23
Connector Name	COMBINATION METER
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
41	LG	TRIP/RESET
42	Y	ILLUMI DOWN SW
43	V	M RANGE SE
44	BG	AT SHIFT UP
45	W	AT SHIFT DOWN
46	P	NOT M RANGE SW
47	BR	ILLUMI UP SW
48	G	SW GND
49	P	WASHER LEVEL SW
50	-	-
51	-	-
52	-	-

METER SYSTEM

< WIRING DIAGRAM >

Terminal No.	Color of Wire	Signal Name
32	-	-
33	BR	SPEED 2P/R
34	GR	SPEED 8P/R
35	-	-
36	-	-
37	-	-
38	P	CAN-L
39	L	CAN-H
40	-	-

Terminal No.	Color of Wire	Signal Name
12	G	PKB
13	-	-
14	G	STRG SW OUTPUT1
15	W	STRG SW OUTPUT2
16	B	STRG SW OUTPUT GND
17	-	-
18	-	-
19	-	-
20	-	-
21	BG	IGN
22	W	BAT
23	B	ILLUMI CONT OUT
24	R	STRG SW GND
25	G	BRAKE OIL SW
26	R	FUEL SENSOR GND
27	W	FUEL SENSOR
28	-	-
29	-	-
30	-	-
31	-	-

Connector No.	M24
Connector Name	COMBINATION METER
Connector Color	WHITE



20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21

Terminal No.	Color of Wire	Signal Name
1	B	GND1
2	B	GND2
3	P	STRG SW INPUT1
4	BG	STRG SW INPUT 2
5	P	ACC
6	V	SECURITY
7	R	AIR BAG
8	G	AS BELT
9	Y	DR BUCKLE SW
10	-	-
11	BG	ALTERNATOR (CHARGE)

Connector No.	M30
Connector Name	COMBINATION SWITCH
Connector Color	GRAY



25	24	31	32	33
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Terminal No.	Color of Wire	Signal Name
24	P	-
31	BG	-
33	R	-

Terminal No.	Color of Wire	Signal Name
1	Y	-
2	G	-
3	LG	-
4	R	-
5	B	-
6	BG	-
12	BR	-

Connector No.	M27
Connector Name	METER CONTROL SWITCH
Connector Color	WHITE



6	5	4	3	2	1
12	11	10	9	8	7

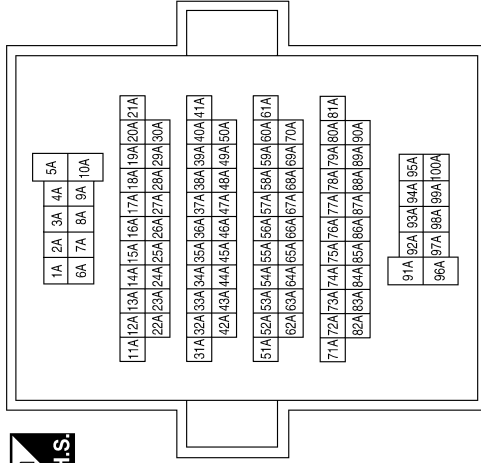
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A B C D E F G H I J K L M MWI O P

METER SYSTEM

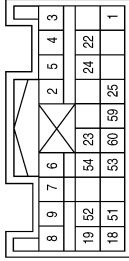
< WIRING DIAGRAM >

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Color	WHITE



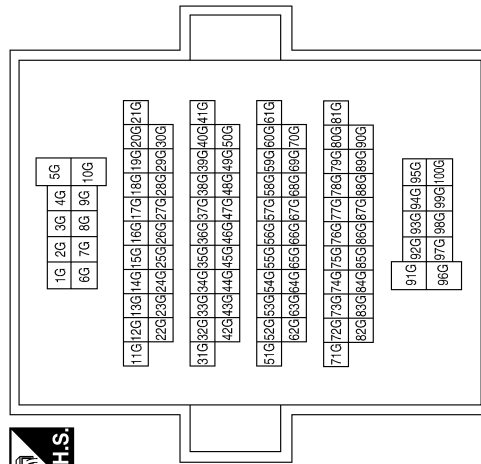
Terminal No.	Color of Wire	Signal Name
44A	W	-
45A	R	-
65A	W	-
66A	BG	-
67A	Y	-

Connector No.	M35
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Color	YELLOW



Terminal No.	Color of Wire	Signal Name
23	R	AIRBAG W/L
24	G	SEATBELT REMINDER
59	L	CAN-H
60	P	CAN-L

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3G	P	-
12G	G	-
13G	G	-
32G	G	-
34G	G	-
35G	P	-
36G	L	-
49G	P	-
50G	L	-
54G	BG	-

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METER SYSTEM

< WIRING DIAGRAM >

Connector No.	M50
Connector Name	A/C AUTO AMP.
Connector Color	WHITE



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name
1	L	CAN-H
7	G	AMB SENS
10	SB	MODE 1
11	G	MODE 3
21	P	CAN-L
26	G	SENS GND
29	P	MODE 2
31	BG	MODE 4

Connector No.	M43
Connector Name	JOINT CONNECTOR-M17
Connector Color	WHITE



4	3	2	1
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Terminal No.	Color of Wire	Signal Name
1	L	-
2	L	-
3	P	-

Connector No.	M41
Connector Name	JOINT CONNECTOR-M18
Connector Color	WHITE



4	3	2	1
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Terminal No.	Color of Wire	Signal Name
1	P	-
2	P	-
3	P	-

Connector No.	M69
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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
12	W	-

Connector No.	M65
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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
17	SB	-
18	P	-
19	G	-
20	BG	-

Connector No.	M64
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
3	B	-

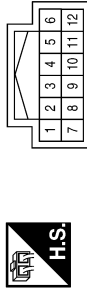
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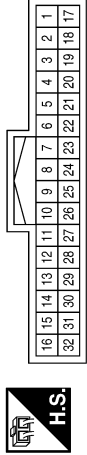
< WIRING DIAGRAM >

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



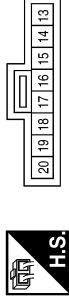
Terminal No.	Color of Wire	Signal Name
4	GR	-
7	V	-
8	W	-
9	BG	-
10	P	-

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Color	WHITE



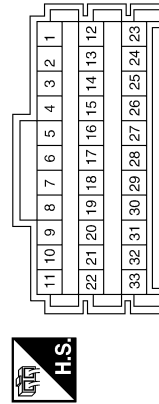
Terminal No.	Color of Wire	Signal Name
17	L	-
18	P	-
21	G	-
22	R	-

Connector No.	M149
Connector Name	COMBINATION SWITCH
Connector Color	WHITE



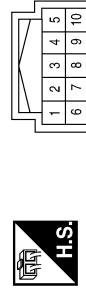
Terminal No.	Color of Wire	Signal Name
14	B	REMOTE A
15	GR	REMOTE B
17	BR	GND

Connector No.	M170
Connector Name	JOINT CONNECTOR-M09
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
12	G	-
17	G	-

Connector No.	M211
Connector Name	DRIVE MODE SELECT SWITCH
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	W	-
2	L	-
3	G	-
4	Y	-
6	B	-

Connector No.	M216
Connector Name	WIRE TO WIRE
Connector Color	WHITE



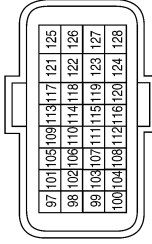
Terminal No.	Color of Wire	Signal Name
3	B	-

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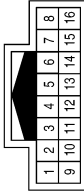
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Connector No.	E16
Connector Name	ECM
Connector Color	GRAY



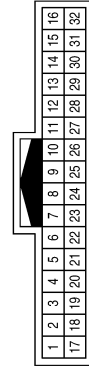
Terminal No.	Color of Wire	Signal Name
107	W	AVCC2-FTPRS/OIL PRS
112	G	GND4-FTPRS/OIL PRS
113	P	CAN-L
114	L	CAN-H

Connector No.	E2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	P/G	-
2	R/L	-
9	P	-
10	L	-
16	P	-

Connector No.	M217
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
17	W	-
18	L	-
19	G	-
20	Y	-

Connector No.	E26
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	E22
Connector Name	ACCESSORY RELAY-2
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
18	P	-
19	W	-
21	W	-

Connector No.	E21
Connector Name	BRAKE FLUID LEVEL SWITCH
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	W	-
2	B	-

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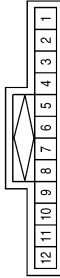
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Connector No.	E52
Connector Name	PARKING BRAKE SWITCH
Connector Color	BLACK



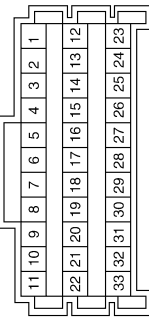
Terminal No.	Color of Wire	Signal Name
1	LG	-

Connector No.	E45
Connector Name	JOINT CONNECTOR-E12
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	L	-
2	L	-
3	L	-
7	P	-
8	P	-
9	P	-

Connector No.	E44
Connector Name	JOINT CONNECTOR-E01
Connector Color	WHITE



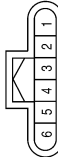
Terminal No.	Color of Wire	Signal Name
2	W	-
3	W	-
15	GR	-
17	B	-
27	G	-
28	G	-

Connector No.	E71
Connector Name	JOINT CONNECTOR-E15
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	L	-
2	L	-
3	L	-
4	L	-

Connector No.	E70
Connector Name	JOINT CONNECTOR-E14
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	P	-
2	P	-
3	P	-
4	P	-

Connector No.	E62
Connector Name	POWER STEERING CONTROL MODULE
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
7	P	CAN-L
8	L	CAN-H

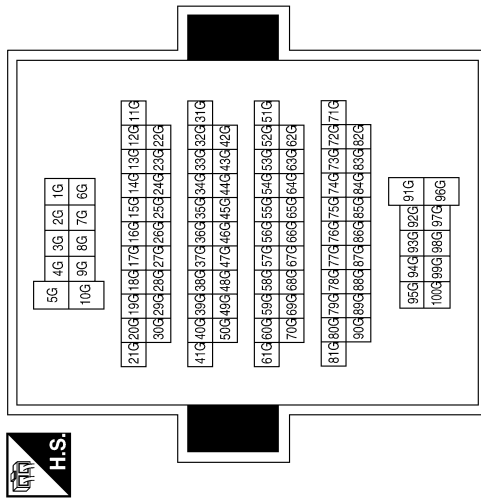
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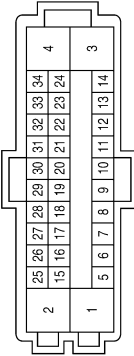
< WIRING DIAGRAM >

Terminal No.	Color of Wire	Signal Name
3G	P	-
12G	P	-
13G	W	-
32G	LG	-
34G	W	-
35G	P	-
36G	L	-
49G	W	-
50G	G	-
54G	P	-

Connector No.	E125
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	E125
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
15	P	CAN-L
25	L	CAN-H

Connector No.	E208
Connector Name	WASHER FLUID LEVEL SWITCH
Connector Color	BLACK



Connector No.	E206
Connector Name	AMBIENT SENSOR
Connector Color	BLACK



Connector No.	E204
Connector Name	GENERATOR
Connector Color	-



Terminal No.	Color of Wire	Signal Name
1	G	-
2	B	-

Terminal No.	Color of Wire	Signal Name
1	L	-
2	Y	-

Terminal No.	Color of Wire	Signal Name
5	B	-

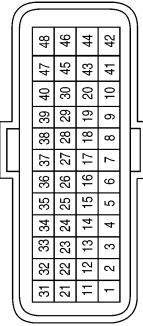
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Connector No.	F15
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Color	BLACK



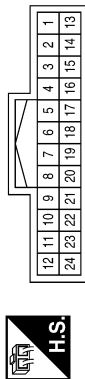
Terminal No.	Color of Wire	Signal Name
31	P	CAN-L
32	L	CAN-H

Connector No.	F7
Connector Name	GENERATOR
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
2	GR	-

Connector No.	E209
Connector Name	WIRE TO WIRE
Connector Color	WHITE



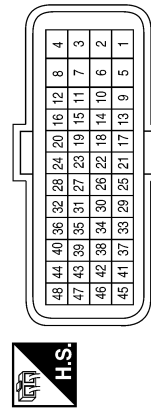
Terminal No.	Color of Wire	Signal Name
18	L	-
19	Y	-
21	G	-

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



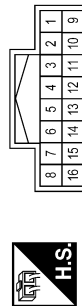
Terminal No.	Color of Wire	Signal Name
1	BR	-
2	LG	-
3	Y	-

Connector No.	F51
Connector Name	ECM
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
4	LG	OILPRES

Connector No.	F32
Connector Name	WIRE TO WIRE
Connector Color	WHITE



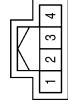
Terminal No.	Color of Wire	Signal Name
1	P/G	-
2	R/L	-
9	P	-
10	L	-
16	GR	-

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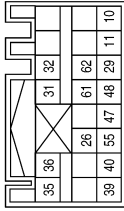
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Connector No.	B18
Connector Name	REAR DOOR SWITCH LH
Connector Color	WHITE



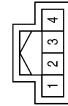
Terminal No.	Color of Wire	Signal Name
3	SB	-

Connector No.	B9
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Color	YELLOW



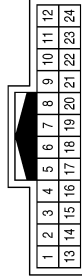
Terminal No.	Color of Wire	Signal Name
29	LG	LH SEAT BELT BUCKLE SWITCH+

Connector No.	B8
Connector Name	FRONT DOOR SWITCH LH
Connector Color	WHITE



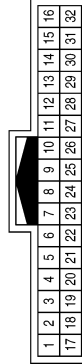
Terminal No.	Color of Wire	Signal Name
3	L	-

Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
11	G	-
23	GR	-

Connector No.	B41
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
12	G	-

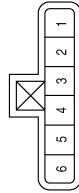
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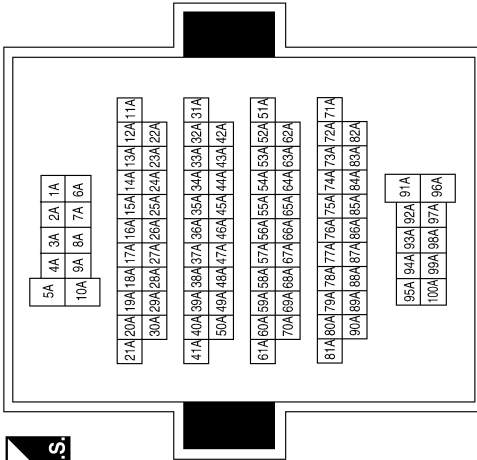
Connector No.	B72
Connector Name	FUEL LEVEL SENSOR UNIT AND FUEL PUMP
Connector Color	GRAY



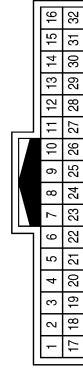
Terminal No.	Color of Wire	Signal Name
2	G	-
5	V	-

Terminal No.	Color of Wire	Signal Name
44A	V	-
45A	G	-
65A	SB	-
66A	L	-
67A	LG	-

Connector No.	B69
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	B101
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
17	L	-
18	P	-
21	LG	-
22	LG	-

Connector No.	B80
Connector Name	JOINT CONNECTOR-B17
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	LG	-
2	LG	-
3	LG	-

Connector No.	B74
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	LG	-
4	B	-

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Connector No.	B102
Connector Name	JOINT CONNECTOR-B14
Connector Color	WHITE



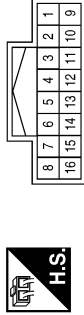
Terminal No.	Color of Wire	Signal Name
1	L	-
3	B	-

Connector No.	B103
Connector Name	JOINT CONNECTOR-B15
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	P	-
3	W	-

Connector No.	B104
Connector Name	ADAS CONTROL UNIT
Connector Color	WHITE



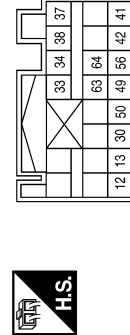
Terminal No.	Color of Wire	Signal Name
14	B	CAN-H
15	W	CAN-L

Connector No.	B108
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE



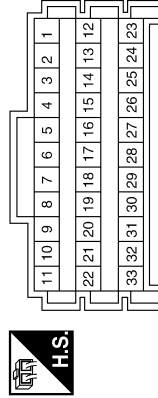
Terminal No.	Color of Wire	Signal Name
3	LG	-

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



Terminal No.	Color of Wire	Signal Name
30	L	RH SEAT BELT BUCKLE SWITCH+

Connector No.	B115
Connector Name	JOINT CONNECTOR-B08
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
10	GR	-
11	SHIELD	-

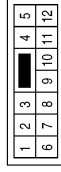
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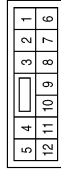
< WIRING DIAGRAM >

Connector No.	B220
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	BG	-
4	BR	-

Connector No.	B157
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	L	-
4	B	-

Connector No.	B116
Connector Name	REAR DOOR SWITCH RH
Connector Color	WHITE



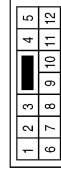
Terminal No.	Color of Wire	Signal Name
3	LG	-

Connector No.	B303
Connector Name	SEAT BELT BUCKLE SWITCH (PASSENGER SEAT)
Connector Color	WHITE



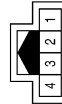
Terminal No.	Color of Wire	Signal Name
3	GR	-
4	BG	-

Connector No.	B300
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	BG	-
4	BR	-

Connector No.	B221
Connector Name	SEAT BELT BUCKLE SWITCH (DRIVER SEAT)
Connector Color	WHITE



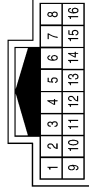
Terminal No.	Color of Wire	Signal Name
3	BR	-
4	BG	-

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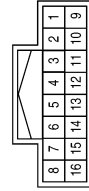
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Connector No.	D552
Connector Name	WIRE TO WIRE
Connector Color	WHITE



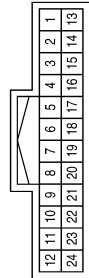
Terminal No.	Color of Wire	Signal Name
6	B	-
12	G	-

Connector No.	D507
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
6	B	-
12	P	-

Connector No.	D501
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
11	P	-
23	B	-

Connector No.	D557
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7	G	-
8	B	-

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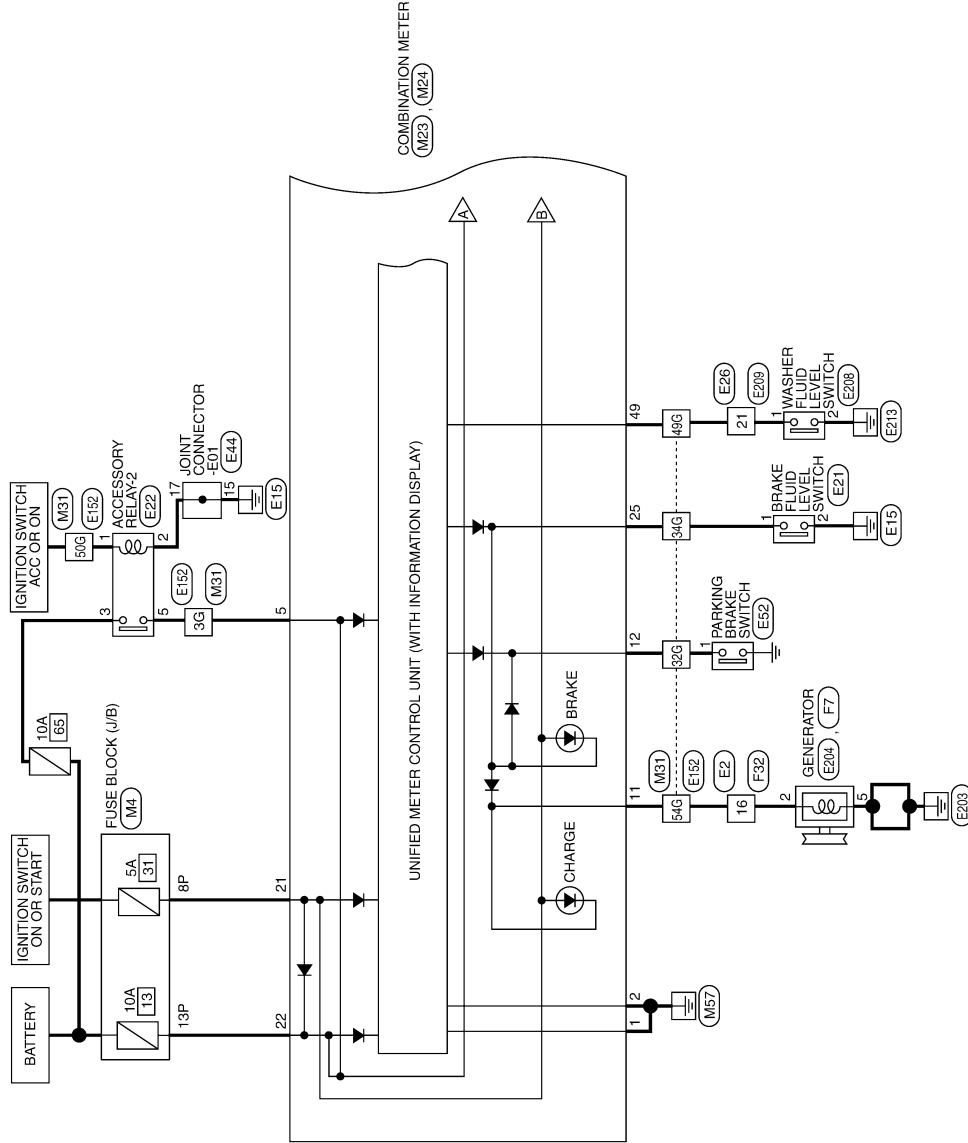
METER SYSTEM

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Wiring Diagram - Without Intelligent Cruise Control

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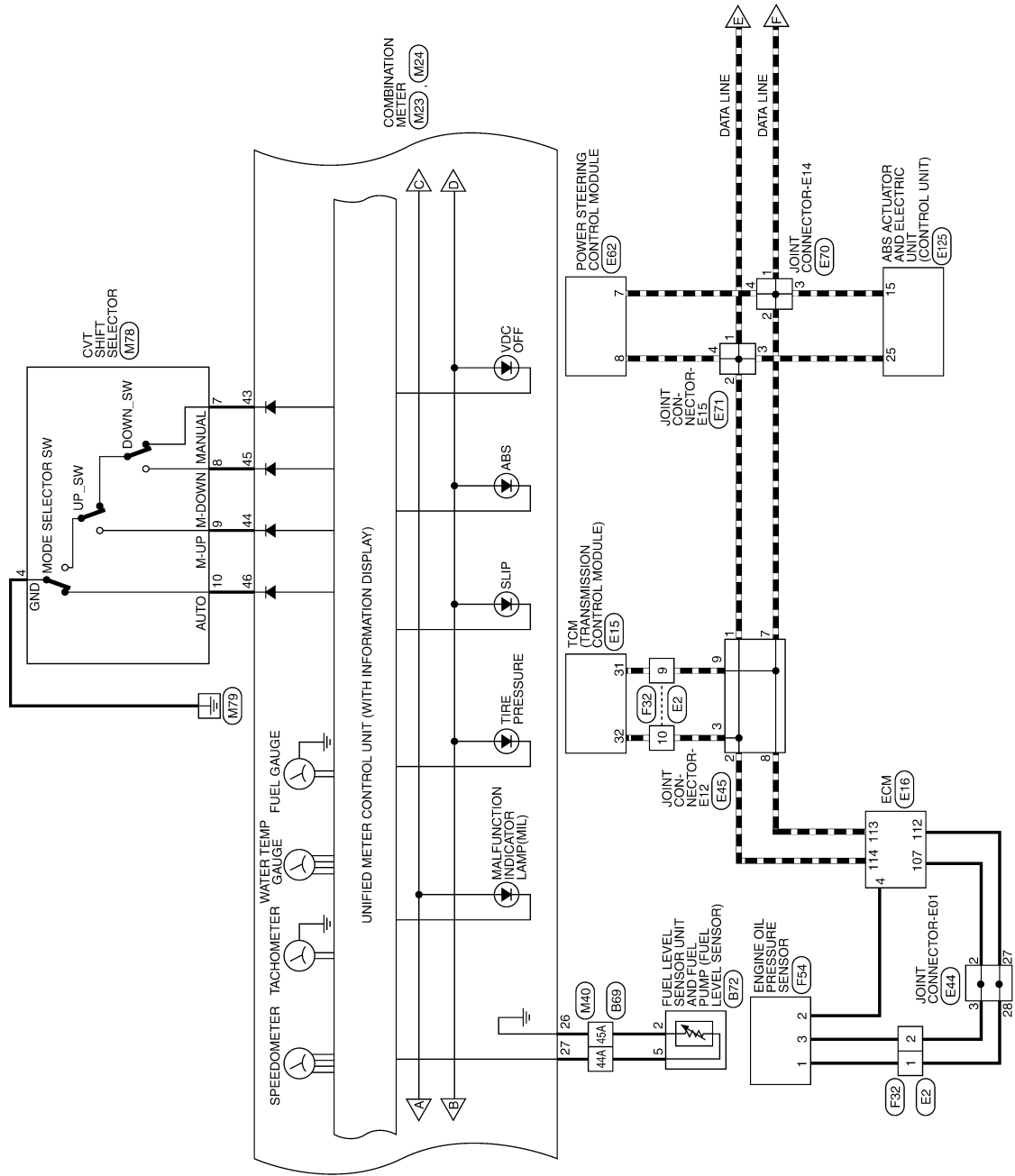
METER - WITHOUT INTELLIGENT CRUISE CONTROL



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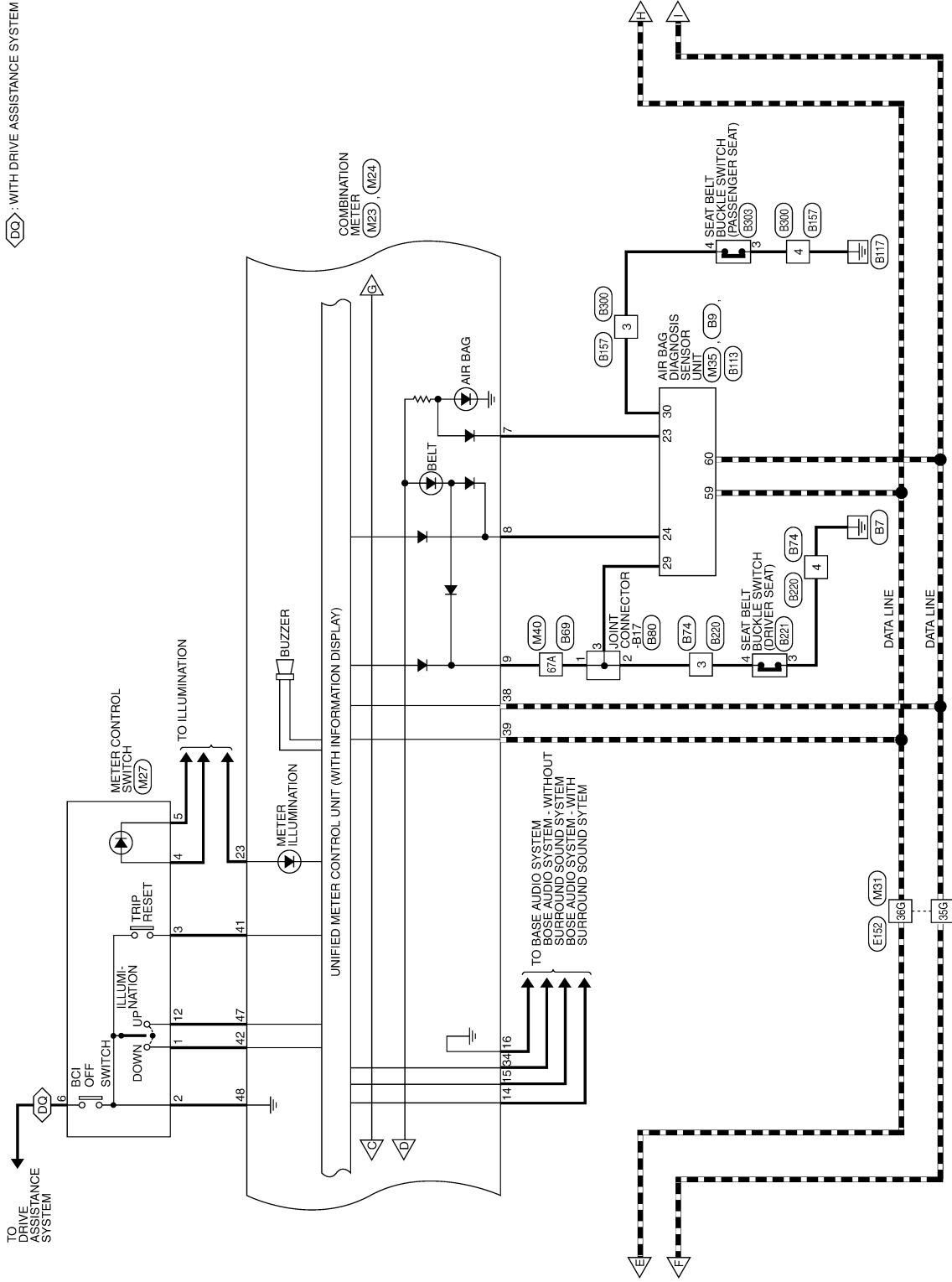
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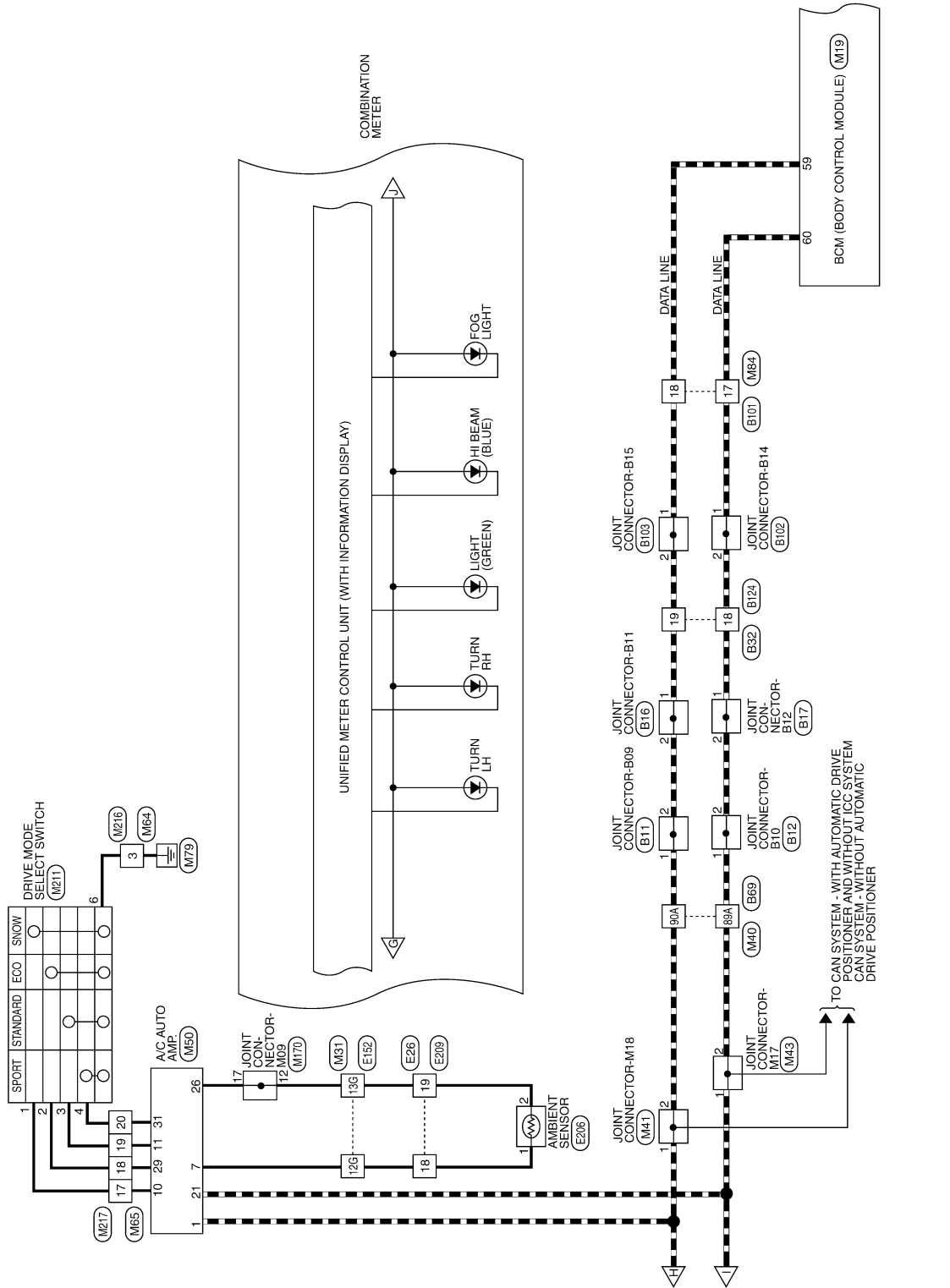
: WITH DRIVE ASSISTANCE SYSTEM



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< WIRING DIAGRAM >

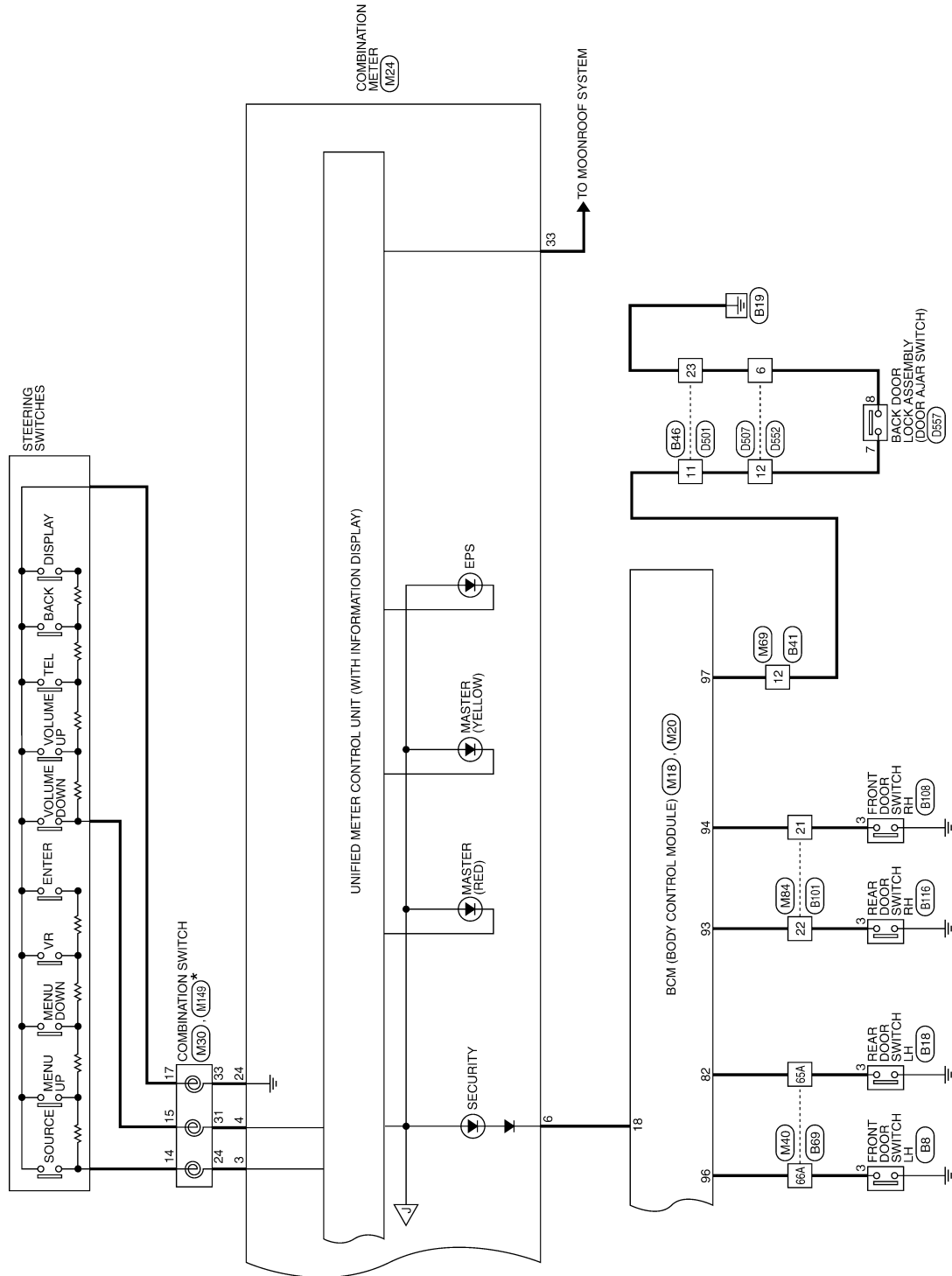


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METER SYSTEM

< WIRING DIAGRAM >



* : THIS CONNECTOR IS NOT SHOWN IN "HARNES LAYOUT" OF PG SECTION.

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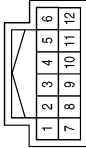
METER CONNECTORS - WITHOUT INTELLIGENT CRUISE CONTROL

Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



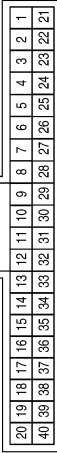
Terminal No.	Color of Wire	Signal Name
8P	BG	-
13P	W	-

Connector No.	M5
Connector Name	CAN GATEWAY
Connector Color	WHITE



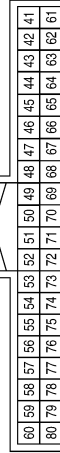
Terminal No.	Color of Wire	Signal Name
1	L	-
6	L	-
7	P	-
12	P	-

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	GREEN



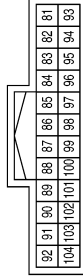
Terminal No.	Color of Wire	Signal Name
18	V	SECURITY INDICATOR

Connector No.	M19
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



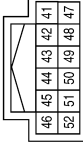
Terminal No.	Color of Wire	Signal Name
59	P	CAN-L
60	L	CAN-H

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



Terminal No.	Color of Wire	Signal Name
82	W	RL DOOR SW
93	R	RR DOOR SW
94	G	AS DOOR SW
96	BG	DR DOOR SW
97	W	BACK DOOR SW

Connector No.	M23
Connector Name	COMBINATION METER
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
41	LG	TRIP/RESET
42	Y	ILLUMI DOWN SW
43	V	M RANGE SE
44	BG	AT SHIFT UP
45	W	AT SHIFT DOWN
46	P	NOT M RANGE SW
47	BR	ILLUMI UP SW
48	G	SW GND
49	P	WASHER LEVEL SW
50	-	-
51	-	-
52	-	-

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Terminal No.	Color of Wire	Signal Name
32	-	-
33	BR	SPEED 2P/R
34	GR	SPEED 8P/R
35	-	-
36	-	-
37	-	-
38	P	CAN-L
39	L	CAN-H
40	-	-

Terminal No.	Color of Wire	Signal Name
12	G	PKB
13	-	-
14	G	STRG SW OUTPUT1
15	W	STRG SW OUTPUT2
16	B	STRG SW OUTPUT GND
17	-	-
18	-	-
19	-	-
20	-	-
21	BG	IGN
22	W	BAT
23	B	ILLUMI CONT OUT
24	R	STRG SW GND
25	G	BRAKE OIL SW
26	R	FUEL SENSOR GND
27	W	FUEL SENSOR
28	-	-
29	-	-
30	-	-
31	-	-

Connector No.	M24
Connector Name	COMBINATION METER
Connector Color	WHITE



20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21

Terminal No.	Color of Wire	Signal Name
1	B	GND1
2	B	GND2
3	P	STRG SW INPUT1
4	BG	STRG SW INPUT 2
5	P	ACC
6	V	SECURITY
7	R	AIR BAG
8	G	AS BELT
9	Y	DR BUCKLE SW
10	-	-
11	BG	ALTERNATOR (CHARGE)

Connector No.	M30
Connector Name	COMBINATION SWITCH
Connector Color	GRAY



25	24	31	32	33
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Terminal No.	Color of Wire	Signal Name
24	P	-
31	BG	-
33	R	-

Terminal No.	Color of Wire	Signal Name
1	Y	-
2	G	-
3	LG	-
4	R	-
5	B	-
6	BG	-
12	BR	-

Connector No.	M27
Connector Name	METER CONTROL SWITCH
Connector Color	WHITE



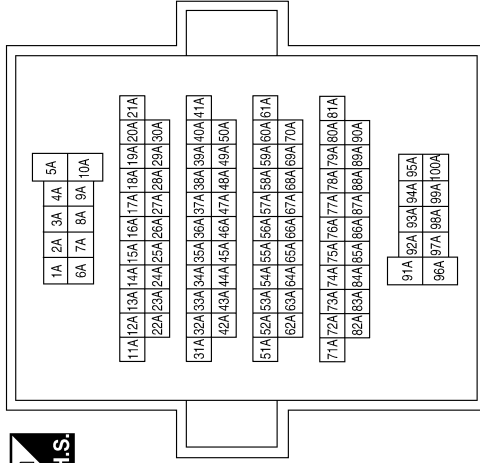
6	5	4	3	2	1
12	11	10	9	8	7

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METER SYSTEM

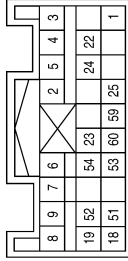
< WIRING DIAGRAM >

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Color	WHITE



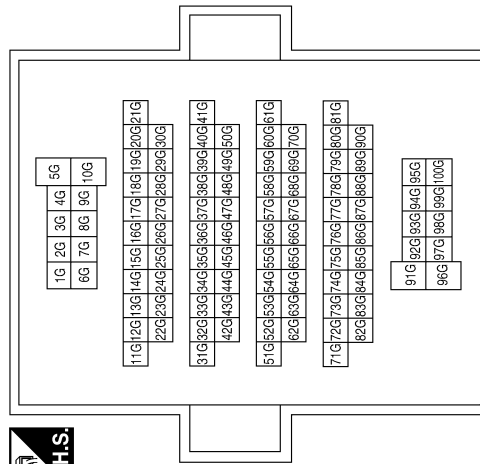
Terminal No.	Color of Wire	Signal Name
44A	W	-
45A	R	-
65A	W	-
66A	BG	-
67A	Y	-
89A	L	-
90A	P	-

Connector No.	M35
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Color	YELLOW



Terminal No.	Color of Wire	Signal Name
23	R	AIRBAG W/L
24	G	SEATBELT REMINDER
59	L	CAN-H
60	P	CAN-L

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3G	P	-
12G	G	-
13G	G	-
32G	G	-
34G	G	-
35G	P	-
36G	L	-
49G	P	-
50G	L	-
54G	BG	-

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< WIRING DIAGRAM >

Connector No.	M50
Connector Name	A/C AUTO AMP.
Connector Color	WHITE



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name
1	L	CAN-H
7	G	AMB SENS
10	SB	MODE 1
11	G	MODE 3
21	P	CAN-L
26	G	SENS GND
29	P	MODE 2
31	BG	MODE 4

Connector No.	M43
Connector Name	JOINT CONNECTOR-M17
Connector Color	WHITE



4	3	2	1
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Terminal No.	Color of Wire	Signal Name
1	L	-
2	L	-
3	P	-

Connector No.	M41
Connector Name	JOINT CONNECTOR-M18
Connector Color	WHITE



4	3	2	1
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Terminal No.	Color of Wire	Signal Name
1	P	-
2	P	-
3	P	-

Connector No.	M69
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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
12	W	-

Connector No.	M65
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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
17	SB	-
18	P	-
19	G	-
20	BG	-

Connector No.	M64
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

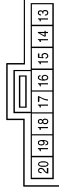
Terminal No.	Color of Wire	Signal Name
3	B	-

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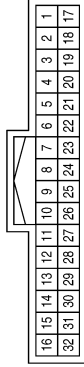
< WIRING DIAGRAM >

Connector No.	M149
Connector Name	COMBINATION SWITCH
Connector Color	WHITE



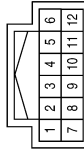
Terminal No.	Color of Wire	Signal Name
14	B	REMOTE A
15	GR	REMOTE B
17	BR	GND

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Color	WHITE



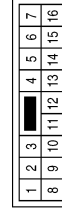
Terminal No.	Color of Wire	Signal Name
17	L	-
18	P	-
21	G	-
22	R	-

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



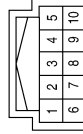
Terminal No.	Color of Wire	Signal Name
4	GR	-
7	V	-
8	W	-
9	BG	-
10	P	-

Connector No.	M216
Connector Name	WIRE TO WIRE
Connector Color	WHITE



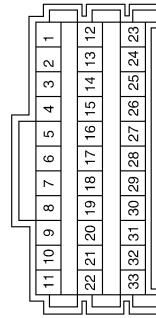
Terminal No.	Color of Wire	Signal Name
3	B	-

Connector No.	M211
Connector Name	DRIVE MODE SELECT SWITCH
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	W	-
2	L	-
3	G	-
4	Y	-
6	B	-

Connector No.	M170
Connector Name	JOINT CONNECTOR-M09
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
12	G	-
17	G	-

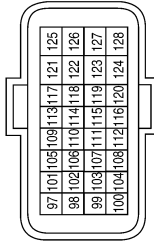
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Connector No.	E16
Connector Name	ECM
Connector Color	GRAY



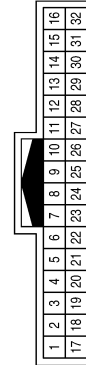
Terminal No.	Color of Wire	Signal Name
107	W	AVCC2-FTPRS/OIL PRS
112	G	GND4-FTPRS/OIL PRS
113	P	CAN-L
114	L	CAN-H

Connector No.	E2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	P/G	-
2	R/L	-
9	P	-
10	L	-
16	P	-

Connector No.	M217
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
17	W	-
18	L	-
19	G	-
20	Y	-

Connector No.	E26
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
18	P	-
19	W	-
21	W	-

Connector No.	E22
Connector Name	ACCESSORY RELAY-2
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	G	-
2	B	-
3	R	-
5	P	-

Connector No.	E21
Connector Name	BRAKE FLUID LEVEL SWITCH
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	W	-
2	B	-

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METER SYSTEM

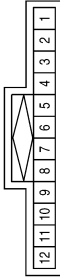
< WIRING DIAGRAM >

Connector No.	E52
Connector Name	PARKING BRAKE SWITCH
Connector Color	BLACK



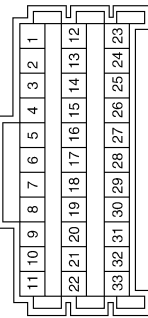
Terminal No.	Color of Wire	Signal Name
1	LG	-

Connector No.	E45
Connector Name	JOINT CONNECTOR-E12
Connector Color	BLUE



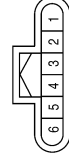
Terminal No.	Color of Wire	Signal Name
1	L	-
2	L	-
3	L	-
7	P	-
8	P	-
9	P	-

Connector No.	E44
Connector Name	JOINT CONNECTOR-E01
Connector Color	WHITE



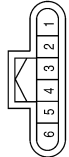
Terminal No.	Color of Wire	Signal Name
2	W	-
3	W	-
15	GR	-
17	B	-
27	G	-
28	G	-

Connector No.	E71
Connector Name	JOINT CONNECTOR-E15
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	L	-
2	L	-
3	L	-
4	L	-

Connector No.	E70
Connector Name	JOINT CONNECTOR-E14
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	P	-
2	P	-
3	P	-
4	P	-

Connector No.	E62
Connector Name	POWER STEERING CONTROL MODULE
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
7	P	CAN-L
8	L	CAN-H

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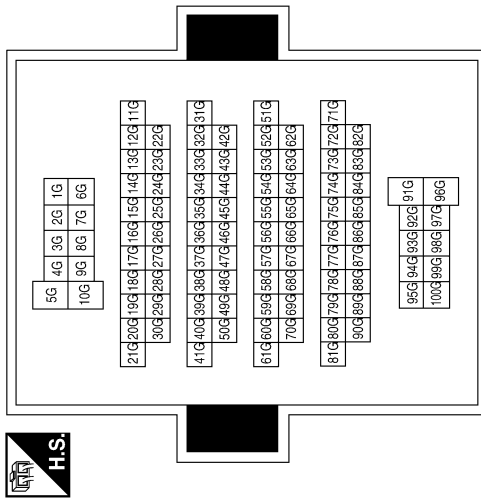
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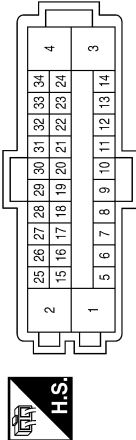
< WIRING DIAGRAM >

Terminal No.	Color of Wire	Signal Name
3G	P	-
12G	P	-
13G	W	-
32G	LG	-
34G	W	-
35G	P	-
36G	L	-
49G	W	-
50G	G	-
54G	P	-

Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Color	WHITE

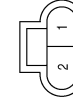


Connector No.	E125
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
15	P	CAN-L
25	L	CAN-H

Connector No.	E208
Connector Name	WASHER FLUID LEVEL SWITCH
Connector Color	BLACK



Connector No.	E206
Connector Name	AMBIENT SENSOR
Connector Color	BLACK



Connector No.	E204
Connector Name	GENERATOR
Connector Color	-



Terminal No.	Color of Wire	Signal Name
1	G	-
2	B	-

Terminal No.	Color of Wire	Signal Name
1	L	-
2	Y	-

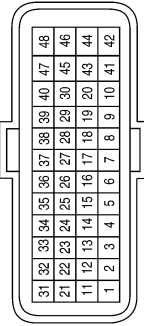
Terminal No.	Color of Wire	Signal Name
5	B	-

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Connector No.	F15
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Color	BLACK



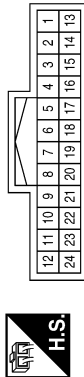
Terminal No.	Color of Wire	Signal Name
31	P	CAN-L
32	L	CAN-H

Connector No.	F7
Connector Name	GENERATOR
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
2	GR	-

Connector No.	E209
Connector Name	WIRE TO WIRE
Connector Color	WHITE



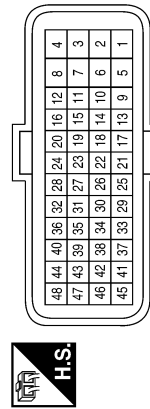
Terminal No.	Color of Wire	Signal Name
18	L	-
19	Y	-
21	G	-

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



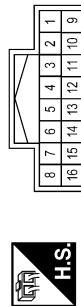
Terminal No.	Color of Wire	Signal Name
1	BR	-
2	LG	-
3	Y	-

Connector No.	F51
Connector Name	ECM
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
4	LG	OILPRES

Connector No.	F32
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	P/G	-
2	R/L	-
9	P	-
10	L	-
16	GR	-

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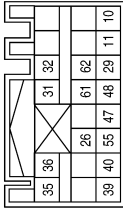
< WIRING DIAGRAM >

Connector No.	B11
Connector Name	JOINT CONNECTOR-B09
Connector Color	WHITE



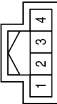
Terminal No.	Color of Wire	Signal Name
1	P	-
2	P	-

Connector No.	B9
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Color	YELLOW



Terminal No.	Color of Wire	Signal Name
29	LG	LH SEAT BELT BUCKLE SWITCH+

Connector No.	B8
Connector Name	FRONT DOOR SWITCH LH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	L	-

Connector No.	B17
Connector Name	JOINT CONNECTOR-B12
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	L	-
2	L	-

Connector No.	B16
Connector Name	JOINT CONNECTOR-B11
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	P	-
2	P	-

Connector No.	B12
Connector Name	JOINT CONNECTOR-B10
Connector Color	WHITE



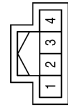
Terminal No.	Color of Wire	Signal Name
1	L	-
2	L	-

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METER SYSTEM

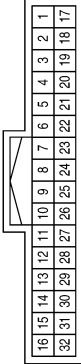
< WIRING DIAGRAM >

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



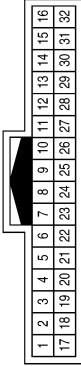
Terminal No.	Color of Wire	Signal Name
3	SB	-

Connector No.	B32
Connector Name	WIRE TO WIRE
Connector Color	WHITE



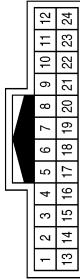
Terminal No.	Color of Wire	Signal Name
18	L	-
19	P	-

Connector No.	B41
Connector Name	WIRE TO WIRE
Connector Color	WHITE



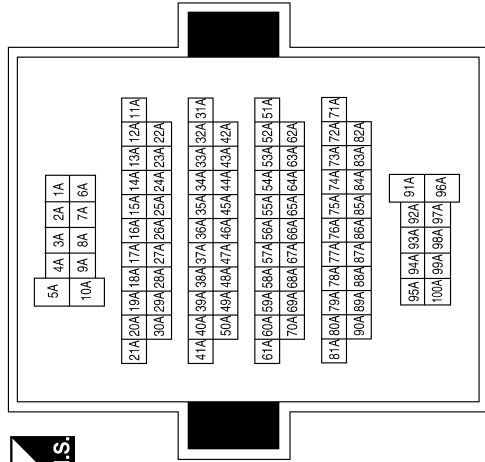
Terminal No.	Color of Wire	Signal Name
12	G	-

Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
11	G	-
23	GR	-

Connector No.	B69
Connector Name	WIRE TO WIRE
Connector Color	WHITE



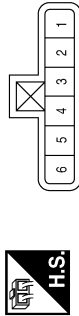
Terminal No.	Color of Wire	Signal Name
44A	V	-
45A	G	-
65A	SB	-
66A	L	-
67A	LG	-
89A	L	-
90A	P	-

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METER SYSTEM

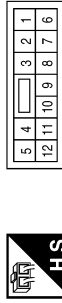
< WIRING DIAGRAM >

Connector No.	B72
Connector Name	FUEL LEVEL SENSOR UNIT AND FUEL PUMP
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
2	G	-
5	V	-

Connector No.	B74
Connector Name	WIRE TO WIRE
Connector Color	WHITE



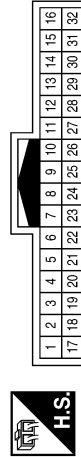
Terminal No.	Color of Wire	Signal Name
3	LG	-
4	B	-

Connector No.	B80
Connector Name	JOINT CONNECTOR-B17
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	LG	-
2	LG	-
3	LG	-

Connector No.	B101
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
17	L	-
18	P	-
21	LG	-
22	LG	-

Connector No.	B102
Connector Name	JOINT CONNECTOR-B14
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	L	-
2	L	-

Connector No.	B103
Connector Name	JOINT CONNECTOR-B15
Connector Color	WHITE

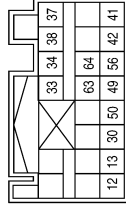


Terminal No.	Color of Wire	Signal Name
1	P	-
2	P	-

METER SYSTEM

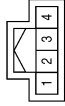
< WIRING DIAGRAM >

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



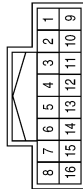
Terminal No.	Color of Wire	Signal Name
30	L	RH SEAT BELT BUCKLE SWITCH+

Connector No.	B108
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE



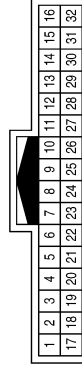
Terminal No.	Color of Wire	Signal Name
3	LG	-

Connector No.	B104
Connector Name	ADAS CONTROL UNIT
Connector Color	WHITE



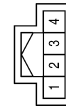
Terminal No.	Color of Wire	Signal Name
14	B	CAN-H
15	W	CAN-L

Connector No.	B124
Connector Name	WIRE TO WIRE
Connector Color	WHITE



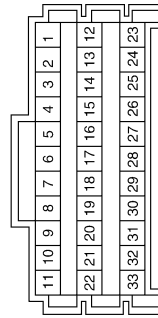
Terminal No.	Color of Wire	Signal Name
18	L	-
19	P	-

Connector No.	B116
Connector Name	REAR DOOR SWITCH RH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	LG	-

Connector No.	B115
Connector Name	JOINT CONNECTOR-B08
Connector Color	WHITE



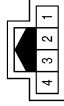
Terminal No.	Color of Wire	Signal Name
10	GR	-
11	SHIELD	-

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METER SYSTEM

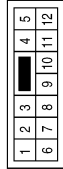
< WIRING DIAGRAM >

Connector No.	B221
Connector Name	SEAT BELT BUCKLE SWITCH (DRIVER SEAT)
Connector Color	WHITE



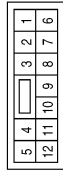
Terminal No.	Color of Wire	Signal Name
3	BR	-
4	BG	-

Connector No.	B220
Connector Name	WIRE TO WIRE
Connector Color	WHITE



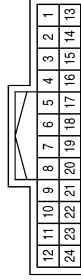
Terminal No.	Color of Wire	Signal Name
3	BG	-
4	BR	-

Connector No.	B157
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	L	-
4	B	-

Connector No.	D501
Connector Name	WIRE TO WIRE
Connector Color	WHITE



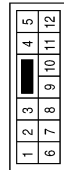
Terminal No.	Color of Wire	Signal Name
11	P	-
23	B	-

Connector No.	B303
Connector Name	SEAT BELT BUCKLE SWITCH (PASSENGER SEAT)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	GR	-
4	BG	-

Connector No.	B300
Connector Name	WIRE TO WIRE
Connector Color	WHITE



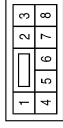
Terminal No.	Color of Wire	Signal Name
3	BG	-
4	BR	-

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METER SYSTEM

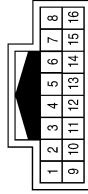
< WIRING DIAGRAM >

Connector No.	D557
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Color	WHITE



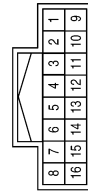
Terminal No.	Color of Wire	Signal Name
7	G	-
8	B	-

Connector No.	D552
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
6	B	-
12	G	-

Connector No.	D507
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
6	B	-
12	P	-

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

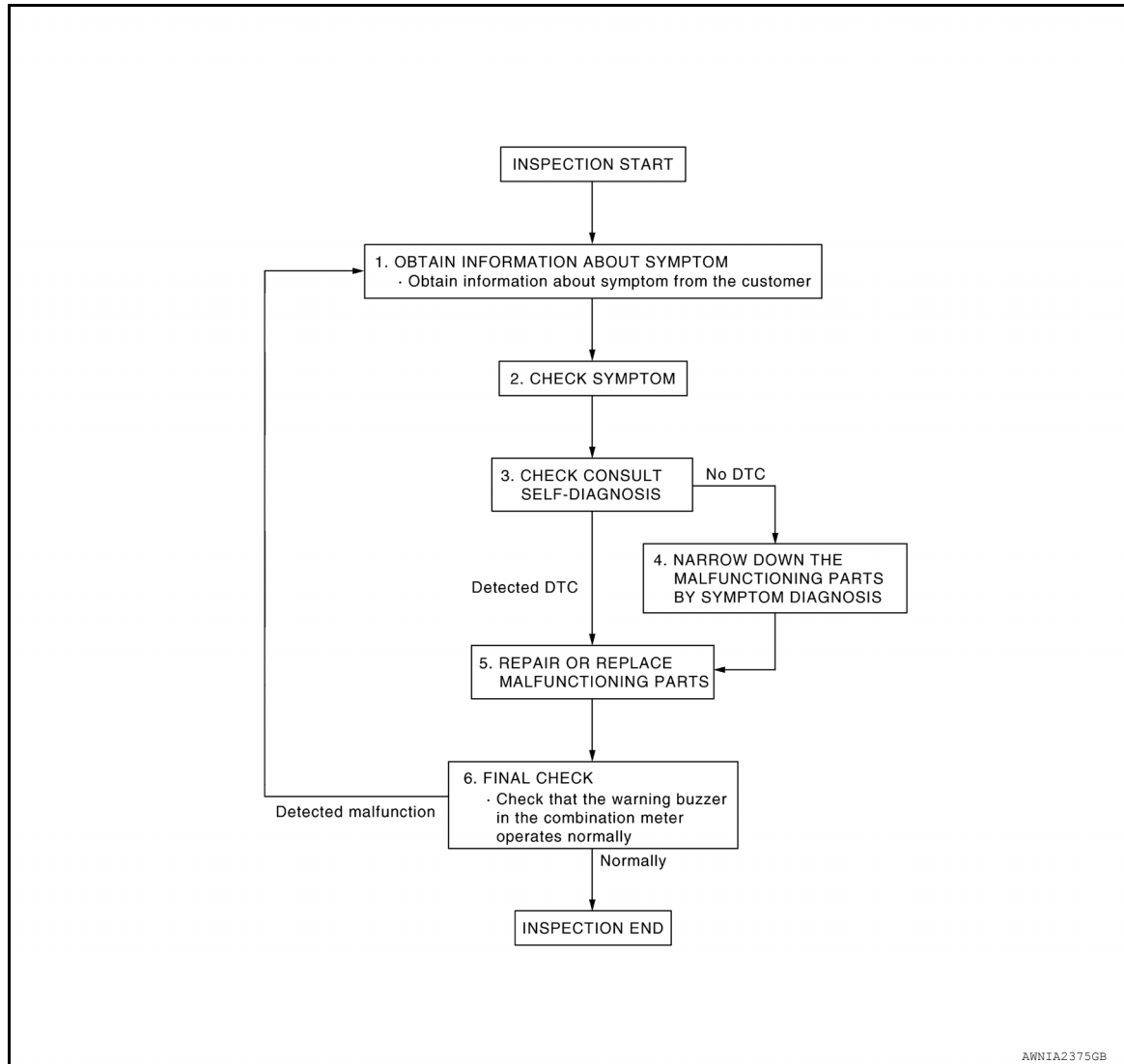
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work flow

INFOID:000000007913325

OVERALL SEQUENCE



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 CONSULT SELF-DIAGNOSIS RESULTS

Connect CONSULT and perform self-diagnosis. Refer to [MWI-25. "DTC Index"](#).

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

Are self-diagnosis results normal?

YES >> GO TO 4.

NO >> GO TO 5.

A

4. NARROW DOWN MALFUNCTIONING PARTS BY SYMPTOM DIAGNOSIS

Perform symptom diagnosis and narrow down the malfunctioning parts.

B

>> GO TO 5.

C

5. REPAIR OR REPLACE MALFUNCTIONING PARTS

Repair or replace malfunctioning parts.

NOTE:

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

D

>> GO TO 6.

E

6. FINAL CHECK

Check that the warning buzzer in the combination meter operates normally.

Does it operate normally?

YES >> Inspection End.

NO >> GO TO 1.

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U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

DTC Logic

INFOID:000000007913327

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:000000007913328

1. CHECK CAN COMMUNICATION

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

>> GO TO LAN system. Refer to [LAN-22. "Trouble Diagnosis Flow Chart"](#).

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

Description

INFOID:000000007913329

Initial diagnosis of combination meter.

DTC Logic

INFOID:000000007913330

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	Detection condition	Possible malfunction
U1010	CONTROL UNIT (CAN)	When detecting error during the initial diagnosis of the CAN controller of combination meter.	Combination meter

Diagnosis Procedure

INFOID:000000007913331

1. REPLACE COMBINATION METER

When DTC U1010 is detected, replace combination meter. Refer to [MWI-93. "Removal and Installation"](#).

>> Inspection End.

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B2205 VEHICLE SPEED

< DTC/CIRCUIT DIAGNOSIS >

B2205 VEHICLE SPEED

Description

INFOID:000000007913332

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

DTC Logic

INFOID:000000007913333

DTC	CONSULT	Detection condition	Possible malfunction location
B2205	VEHICLE SPEED CIRC [B2205]	Malfunction is detected when an erroneous speed signal is received for 2 seconds or more.	<ul style="list-style-type: none">• Combination meter• ABS actuator and electric unit (control unit)

Diagnosis Procedure

INFOID:000000007913334

1. CHECK COMBINATION METER INPUT SIGNAL

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

Is the inspection result normal?

- YES >> Perform ABS actuator and electric unit (control unit) self-diagnosis. Refer to [BRC-36, "CONSULT Function"](#).
- NO >> Replace combination meter. Refer to [MWI-93, "Removal and Installation"](#).

B2267 ENGINE SPEED

< DTC/CIRCUIT DIAGNOSIS >

B2267 ENGINE SPEED

Description

INFOID:000000007913335

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

DTC Logic

INFOID:000000007913336

DTC DETECTION LOGIC

DTC	CONSULT	Detection condition	Possible malfunction location
B2267	TACHO METER	ECM continuously transmits abnormal engine speed signals for 2 seconds or more	<ul style="list-style-type: none">• Crankshaft position sensor (POS)• ECM

Diagnosis Procedure

INFOID:000000007913337

1. PERFORM SELF-DIAGNOSIS OF ECM

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

>> Refer to [EC-78, "CONSULT Function"](#).

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B2268 WATER TEMP

< DTC/CIRCUIT DIAGNOSIS >

B2268 WATER TEMP

Description

INFOID:000000007913338

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

DTC Logic

INFOID:000000007913339

DTC DETECTION LOGIC

DTC	CONSULT	Detection condition	Probable malfunction location
B2268	WATER TEMP METER	ECM continuously transmits abnormal engine coolant temperature signals for 60 seconds or more	<ul style="list-style-type: none">• Engine coolant temperature sensor• ECM

Diagnosis Procedure

INFOID:000000007913340

1. PERFORM SELF-DIAGNOSIS OF ECM

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

>> Refer to [EC-78, "CONSULT Function"](#).

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT COMBINATION METER

COMBINATION METER : Diagnosis Procedure

INFOID:000000007913341

Regarding Wiring Diagram information, refer to [MWI-27, "Wiring Diagram - With Intelligent Cruise Control"](#) or [MWI-46, "Wiring Diagram - Without Intelligent Cruise Control"](#).

1. CHECK FUSES

Check for blown combination meter fuses.

Unit	Power source	Fuse No.
Combination meter	Battery	13
		65
	Ignition switch ON or START	31

Is the inspection result normal?

YES >> GO TO 2

NO >> Replace the fuse after repairing the affected circuit.

2. POWER SUPPLY CIRCUIT CHECK

1. Disconnect combination meter connector.
2. Check voltage between combination meter harness connector M24 terminals 5, 21, 22 and ground.

Terminals		Ignition switch position				
(+)		(-)	OFF	ACC	ON	START
Connector	Terminal		OFF	ACC	ON	START
M24	22	Ground	Battery voltage	Battery voltage	Battery voltage	Battery voltage
	21		0V	0V	Battery voltage	Battery voltage
	5		0V	Battery voltage	Battery voltage	0V

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness or connectors.

3. GROUND CIRCUIT CHECK

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

Terminals		Continuity	
(+)			(-)
Connector	Terminal	Continuity	
M24	1	Ground	Yes
	2		

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE) : Diagnosis Procedure

INFOID:0000000008368344

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Regarding Wiring Diagram information, refer to [BCS-52. "Wiring Diagram"](#).

1. CHECK FUSE AND FUSIBLE LINK

Check that the following fuse and fusible link are not blown.

Terminal No.	Signal name	Fuse and fusible link No.
139	Fusible link battery power	O (40A)
131	BCM battery fuse	1 (10A)

Is the fuse or fusible link blown?

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

NO >> GO TO 2

2. CHECK POWER SUPPLY CIRCUIT

1. Disconnect BCM connector M81.
2. Check voltage between BCM connector M81 terminals 131, 139 and ground.

BCM		Ground	Voltage (Approx.)
Connector	Terminal		
M81	131	—	Battery voltage
	139		

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 M81 terminals 134, 143 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M81	134	—	Yes
	143		

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

METER CONTROL SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

METER CONTROL SWITCH SIGNAL CIRCUIT

Diagnosis Procedure

INFOID:000000008219108

Regarding Wiring Diagram information, refer to [MWI-27, "Wiring Diagram - With Intelligent Cruise Control"](#) or [MWI-46, "Wiring Diagram - Without Intelligent Cruise Control"](#).

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 M27.

Meter control switch			Condition	Voltage (Approx.)
Connector	Terminals			
	(+)	(-)		
M27	1	2	When illumination control switch (-) is pressed	0 V
			Other than the above	5 V
	3		When trip reset switch is pressed	0 V
			Other than the above	5 V
	12		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 M23 and meter control switch harness connector M27.
3. Check continuity between combination meter harness connector M23 and meter control switch harness connector M27.

Combination meter		Meter control switch		Continuity
Connector	Terminal	Connector	Terminal	
M23	41	M27	3	Yes
	42		1	
	47		12	
	48		2	

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

Combination meter		Ground	Continuity
Connector	Terminal		
M23	41	Ground	No
	42		
	47		
	48		

Is the inspection result normal?

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

METER CONTROL SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Component Inspection

INFOID:000000008219109

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			
1	2	When illumination control switch (-) is pressed	Yes
		Other than the above	No
3		When trip reset switch is pressed	Yes
		Other than the above	No
12		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-94. "Removal and Installation"](#).

FUEL LEVEL SENSOR SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

FUEL LEVEL SENSOR SIGNAL CIRCUIT

Description

INFOID:000000008219102

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

Component Function Check

INFOID:000000007913346

1.COMBINATION METER INPUT SIGNAL

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

Fuel gauge pointer	Fuel tank volume [L] (Approx.)
Full	70.6
3/4	54.1
1/2	36.4
1/4	20
Empty	0.0

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

YES >> Inspection End.

NO >> Replace combination meter. Refer to [MWI-93. "Removal and Installation"](#).

Diagnosis Procedure

INFOID:000000007913347

Regarding Wiring Diagram information, refer to [MWI-27. "Wiring Diagram - With Intelligent Cruise Control"](#) or [MWI-46. "Wiring Diagram - Without Intelligent Cruise Control"](#).

1.CHECK HARNESS CONNECTOR

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

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace terminals or connectors.

2.CHECK FUEL LEVEL SENSOR UNIT CIRCUIT

1. Disconnect combination meter harness connector M24 and fuel level sensor unit harness connector B72.
2. Check continuity between combination meter harness connector M24 and fuel level sensor unit and fuel pump harness connector B72.

Fuel level sensor unit and fuel pump		Combination meter		Continuity
Connector	Terminal	Connector	Terminal	
B72	5	M24	27	Yes

3. Check continuity between fuel level sensor unit and fuel pump harness connector and ground.

Connector	Terminal	Ground	Continuity
B72	5		No

Is the inspection result normal?

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FUEL LEVEL SENSOR SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

3. CHECK FUEL LEVEL SENSOR UNIT GROUND CIRCUIT

1. Check continuity between combination meter harness connector M24 and fuel level sensor unit and fuel pump harness connector B72.

Connector	Terminal	Connector	Terminal	Continuity
B72	2	M24	26	Yes

2. Check continuity between fuel level sensor unit and fuel pump harness connector and ground.

Connector	Terminal	Ground	Continuity
B72	2		No

Is the inspection result normal?

- YES >> GO TO 4
 NO >> Repair or replace harness or connectors.

4. CHECK INSTALLATION CONDITION

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

Is the inspection result normal?

- YES >> Inspection End.
 NO >> Install the fuel level sensor unit properly. Refer to [FL-6. "Removal and Installation"](#).

Component Inspection

INFOID:000000007913348

1. REMOVE FUEL LEVEL SENSOR UNIT

Remove the fuel level sensor unit. Refer to [FL-6. "Removal and Installation"](#).

>> GO TO 2.

2. CHECK FUEL LEVEL SENSOR UNIT AND FUEL PUMP

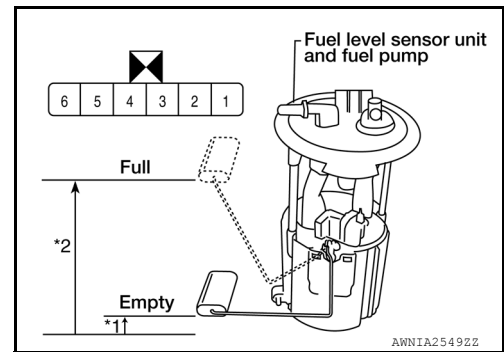
Check the resistance between terminals 2 and 5.

Terminal		Float position mm (in)		Resistance value (Approx.)
		*1		
2	5	*1	Empty	15.7 (0.6)
		*2	Full	133 (5.2)

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

Is inspection result OK?

- YES >> Inspection End.
 NO >> Replace fuel level sensor unit and fuel pump. Refer to [FL-6. "Removal and Installation"](#).



WASHER LEVEL SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

WASHER LEVEL SWITCH SIGNAL CIRCUIT

Description

INFOID:000000008233646

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

Diagnosis Procedure

INFOID:000000007913352

Regarding Wiring Diagram information, refer to [MWI-27, "Wiring Diagram - With Intelligent Cruise Control"](#) or [MWI-46, "Wiring Diagram - Without Intelligent Cruise Control"](#).

1. CHECK WASHER FLUID LEVEL SWITCH SIGNAL CIRCUIT

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

Combination meter		Washer fluid level switch		Continuity
Connector	Terminal	Connector	Terminal	
M24	49	E208	1	Yes

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

Combination meter		Ground	Continuity
Connector	Terminal		
M24	49		No

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connectors.

2. CHECK WASHER FLUID LEVEL SWITCH GROUND CIRCUIT

Check continuity between washer fluid level switch connector and ground.

Washer fluid level switch		Ground	Continuity
Connector	Terminal		
E208	2		Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

Component Inspection

INFOID:000000007913353

1. CHECK WASHER FLUID LEVEL SWITCH

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

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

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WASHER LEVEL SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace washer fluid level switch. Refer to [WW-63, "Removal and Installation"](#).

PARKING BRAKE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

PARKING BRAKE SWITCH SIGNAL CIRCUIT

Description

INFOID:000000008212519

Transmits the parking brake switch signal to the combination meter.

Component Function Check

INFOID:000000008212520

1.COMBINATION METER INPUT SIGNAL

1. Start engine.
2. Monitor BRAKE W/L in DATA MONITOR while applying and releasing the parking brake.

Condition	CONSULT
Parking brake applied	: ON
Parking brake released	: OFF

>> Inspection End.

Diagnosis Procedure

INFOID:000000008212521

Regarding Wiring Diagram information, refer to [MWI-27, "Wiring Diagram - With Intelligent Cruise Control"](#) or [MWI-46, "Wiring Diagram - Without Intelligent Cruise Control"](#).

1.CHECK PARKING BRAKE SWITCH CIRCUIT

1. Disconnect combination meter harness connector M24 and parking brake switch harness connector E52.
2. Check continuity between combination meter harness connector M24 terminal 12 and parking brake switch harness connector E52 terminal 1.

12 - 1 : Continuity should exist.

3. Check continuity between combination meter harness connector M24 terminal 12 and ground.

12 - Ground : Continuity should not exist.

Is the inspection result normal?

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

Component Inspection

INFOID:000000008212522

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"](#).

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STEERING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

STEERING SWITCH

Description

INFOID:000000008219103

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:000000008219104

Regarding Wiring Diagram information, refer to [MWI-27. "Wiring Diagram - With Intelligent Cruise Control"](#) or [MWI-46. "Wiring Diagram - Without Intelligent Cruise Control"](#).

1. CHECK STEERING SWITCH CIRCUIT

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

Combination meter		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
M24	3	M30	24	Yes
	4		31	
	24		33	

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

Combination meter		Ground	Continuity
Connector	Terminal		
M24	3	Ground	No
	4		
	24		

Is the inspection results normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

Component Inspection

INFOID:000000008236449

1. CHECK STEERING SWITCH RESISTANCE

Check resistance between the following steering switch terminals.

Terminal	Signal name	Condition	Resistance (Ω) (Approx.)
14	Display	Depress DISPLAY switch. □	2023
	Back	Depress BACK switch. ↶	723
15	Enter	Depress ENTER switch.	2023
	Menu Up	Depress ENTER switch up. △	121
	Menu Down	Depress ENTER switch down. ▽	321

Is the inspection results normal?

YES >> GO TO 2

STEERING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace steering wheel switch. Refer to [AV-682. "Removal and Installation"](#).

2.CHECK SPIRAL CABLE

Check continuity between the following spiral cable terminals.

Terminals		Continuity
3	24	Yes
4	31	
24	33	

Is the inspection results normal?

YES >> Inspection End.

NO >> Replace spiral cable. Refer to [SR-13. "Removal and Installation"](#).

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THE FUEL GAUGE INDICATOR DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

THE FUEL GAUGE INDICATOR DOES NOT OPERATE

Description

INFOID:000000007913355

Fuel gauge will not indicate from a certain position.

Diagnosis Procedure

INFOID:000000007913356

1. CHECK COMBINATION METER INPUT SIGNAL

Perform component function check. Refer to [MWI-77, "Component Function Check"](#).

Does monitor value match fuel gauge reading?

YES >> GO TO 2.

NO >> Replace combination meter. Refer to [MWI-93, "Removal and Installation"](#).

2. CHECK FUEL LEVEL SENSOR UNIT CIRCUITS

Check the fuel level sensor circuits. Refer to [MWI-77, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3. CHECK FUEL LEVEL SENSOR UNIT

Perform a unit check for the fuel level sensor unit. Refer to [MWI-78, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

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

4. 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 >> Replace combination meter. Refer to [MWI-93, "Removal and Installation"](#).

NO >> Repair or replace malfunctioning parts.

THE METER CONTROL SWITCH IS INOPERATIVE

< SYMPTOM DIAGNOSIS >

THE METER CONTROL SWITCH IS INOPERATIVE

Description

INFOID:000000008219110

The meter control switches are inoperative when pressed.

Diagnosis Procedure

INFOID:000000008219111

1. CHECK METER CONTROL SWITCH SIGNAL

Check the meter control switch signal. Refer to [MWI-75, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connectors.

2. CHECK METER CONTROL SWITCH

Perform a unit check for the meter control switch. Refer to [MWI-76, "Component Inspection"](#).

Is the inspection result normal?

YES >> Replace combination meter. Refer to [MWI-93, "Removal and Installation"](#).

NO >> Replace meter control switch. Refer to [MWI-94, "Removal and Installation"](#).

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THE OIL PRESSURE WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

< SYMPTOM DIAGNOSIS >

THE OIL PRESSURE WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

Description

INFOID:000000008219112

- 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:000000008219113

1. CHECK COMBINATION METER INPUT

1. Start the engine and select METER/M&A on CONSULT.
2. Observe OIL W/L DATA MONITOR and the operation of the low oil pressure warning message in the information display.

Component	Condition	CONSULT
Low oil pressure warning message	Engine running	OFF

Is the inspection result normal?

- YES >> Perform ECM self-diagnosis. Refer to [EC-78, "CONSULT Function"](#).
- NO >> Replace combination meter. Refer to [MWI-93, "Removal and Installation"](#).

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

< SYMPTOM DIAGNOSIS >

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

Description

INFOID:000000007913365

- 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:000000007913366

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-93, "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-81, "Diagnosis Procedure"](#).

Is the inspection result normal?

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

3. CHECK PARKING BRAKE SWITCH UNIT

Perform a unit check for the parking brake switch. Refer to [MWI-81, "Component Inspection"](#).

Is the inspection result normal?

- YES >> Replace combination meter. Refer to [MWI-93, "Removal and Installation"](#).
NO >> Replace parking brake switch. Refer to [PB-7, "Exploded View"](#).

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

< SYMPTOM DIAGNOSIS >

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

Description

INFOID:000000007913367

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

Diagnosis Procedure

INFOID:000000007913368

1. CHECK WASHER FLUID LEVEL SWITCH SIGNAL CIRCUIT

Check the washer fluid level switch signal circuit. Refer to [MWI-79. "Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Repair or replace harness or connectors.

2. CHECK WASHER FLUID LEVEL SWITCH UNIT

Perform a unit check for the washer fluid level switch. Refer to [MWI-79. "Component Inspection"](#).

Is the inspection result normal?

- YES >> Replace combination meter. Refer to [MWI-93. "Removal and Installation"](#).
NO >> Replace washer fluid level switch. Refer to [WW-63. "Removal and Installation"](#).

THE DOOR OPEN WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

< SYMPTOM DIAGNOSIS >

THE DOOR OPEN WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

Description

INFOID:000000007913369

- 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:000000007913370

1.CHECK BCM INPUT SIGNAL

Check the BCM input signal. Refer to [DLK-166, "Component Function Check"](#).

Is the inspection result normal?

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

2.CHECK COMBINATION METER INPUT SIGNAL

Select the METER/M&A Data Monitor and check the DOOR W/L monitor value.

"DOOR W/L"

Door open	: On
Door closed	: Off

Is the inspection result normal?

- YES >> Replace combination meter. Refer to [MWI-93, "Removal and Installation"](#).
- NO >> Replace BCM. Refer to [BCS-77, "Removal and Installation"](#).

3.CHECK DOOR SWITCH SIGNAL CIRCUIT

Check the door switch signal circuit. Refer to [DLK-166, "Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> Repair or replace harness or connectors.

4.CHECK DOOR SWITCH

Perform a unit check for the door switch. Refer to [DLK-169, "Component Inspection"](#).

Is the inspection result normal?

- YES >> Replace combination meter. Refer to [MWI-93, "Removal and Installation"](#).
- NO >> Replace applicable door switch. Refer to [DLK-301, "Removal and Installation"](#).

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THE LIFTGATE OPEN WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

< SYMPTOM DIAGNOSIS >

THE LIFTGATE OPEN WARNING CONTINUES DISPLAYING, OR DOES NOT DISPLAY

Description

INFOID:000000008219114

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

Diagnosis Procedure

INFOID:000000008219115

1.CHECK BCM INPUT SIGNAL

Check the BCM input signal. Refer to [DLK-168, "Component Function Check"](#).

Is the inspection result normal?

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

2.CHECK COMBINATION METER INPUT SIGNAL

Select the METER/M&A Data Monitor and check the DOOR W/L monitor value.

"DOOR W/L"

Door open : On
Door closed : Off

Is the inspection result normal?

- YES >> Replace combination meter. Refer to [MWI-93, "Removal and Installation"](#).
- NO >> Replace BCM. Refer to [BCS-77, "Removal and Installation"](#).

3.CHECK BACK DOOR SWITCH SIGNAL CIRCUIT

Check the back door switch signal circuit. Refer to [DLK-168, "Diagnosis Procedure"](#).

Is the inspection result normal?

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

4.CHECK BACK DOOR SWITCH

Perform a unit check for the back door switch. Refer to [DLK-169, "Component Inspection"](#).

Is the inspection result normal?

- YES >> Replace combination meter. Refer to [MWI-93, "Removal and Installation"](#).
- NO >> Replace back door switch. Refer to [DLK-296, "DOOR LOCK : Removal and Installation"](#).

THE STEERING SWITCHES ARE INOPERATIVE

< SYMPTOM DIAGNOSIS >

THE STEERING SWITCHES ARE INOPERATIVE

Description

INFOID:000000008236404

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

Diagnosis Procedure

INFOID:000000008236405

1.CHECK STEERING SWITCH CIRCUIT

Check steering switch circuit. Refer to [MWI-82, "Diagnosis Procedure"](#).

Is the inspection results normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

2.CHECK STEERING SWITCH RESISTANCE

Check steering switch resistance. Refer to [MWI-82, "Component Inspection"](#).

Is the inspection results normal?

YES >> GO TO 3.

NO >> Replace steering switch.

3.CHECK SPIRAL CABLE

Check spiral cable for continuity. Refer to [SR-13, "Removal and Installation"](#).

Is the inspection results normal?

YES >> Replace combination meter. Refer to [MWI-93, "Removal and Installation"](#).

NO >> Replace spiral cable. Refer to [SR-13, "Removal and Installation"](#).

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THE AMBIENT TEMPERATURE DISPLAY IS INCORRECT

< SYMPTOM DIAGNOSIS >

THE AMBIENT TEMPERATURE DISPLAY IS INCORRECT

Description

INFOID:000000007913371

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

Diagnosis Procedure

INFOID:000000007913372

1. CHECK COMBINATION METER INPUT SIGNAL

1. Select METER/M&A on CONSULT.
2. Check OUTSIDE TEMP of DATA MONITOR.

Does the ambient temperature approximately match the CONSULT display?

- YES >> Replace combination meter. Refer to [MWI-93, "Removal and Installation"](#).
NO >> GO TO 2.

2. CHECK AMBIENT SENSOR SIGNAL CIRCUIT

Check the ambient sensor signal circuit. Refer to [HAC-87, "Diagnosis Procedure"](#).

Is the inspection result normal?

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

3. CHECK AMBIENT SENSOR

Check the ambient sensor. Refer to [HAC-88, "Component Inspection"](#).

Is the inspection result normal?

- YES >> Replace combination meter. Refer to [MWI-93, "Removal and Installation"](#).
NO >> Replace ambient sensor. Refer to [HAC-158, "Removal and Installation"](#).

COMBINATION METER

< REMOVAL AND INSTALLATION >

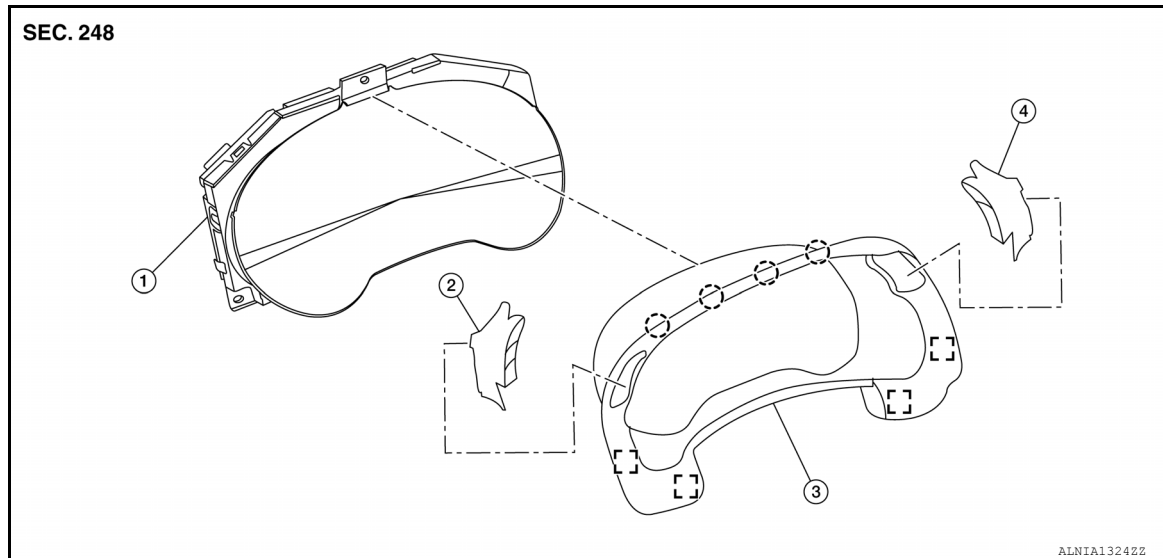
REMOVAL AND INSTALLATION

COMBINATION METER

Removal and Installation

INFOID:000000007913375

REMOVAL



- | | | |
|--|--------------------------------|------------------|
| 1. Combination meter | 2. Illumination control switch | 3. Cluster lid A |
| 4. BCI (if equipped) / twin trip odometer switch | ○ Pawl | □ Metal clip |

1. Remove cluster lid A. Refer to [JP-20. "Removal and Installation"](#).
2. Remove the combination meter screws.
3. Disconnect the harness connector from the combination meter, then remove the combination meter.

INSTALLATION

Installation is in the reverse order of removal.

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METER CONTROL SWITCH

< REMOVAL AND INSTALLATION >

METER CONTROL SWITCH

Removal and Installation

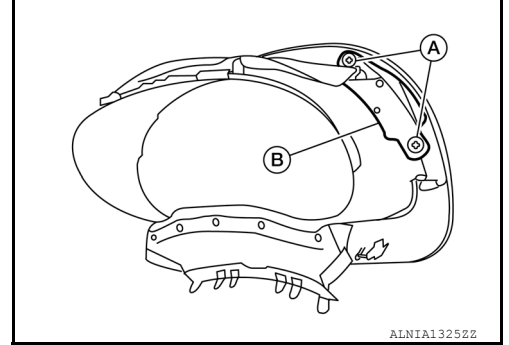
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REMOVAL

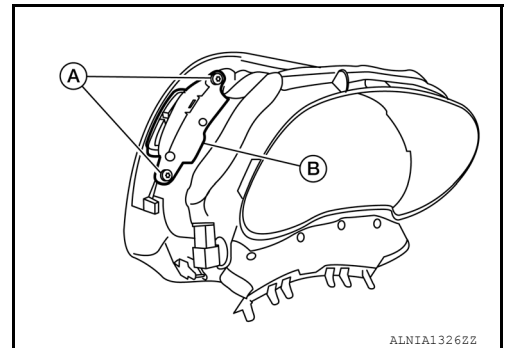
NOTE:

The illumination control switch, twin trip odometer switch, and backup collision intervention (BCI) switch are serviced as an assembly.

1. Remove cluster lid A. Refer to [JP-20, "Removal and Installation"](#).
2. Remove the screws (A) from the illumination control switch (B).



3. Remove the screws (A) from the backup collision intervention (BCI) switch (if equipped) / twin trip odometer switch (B).



4. Disconnect the harness connector from the meter control switch.
5. Remove the meter control switch.

INSTALLATION

Installation is in the reverse order of removal.

TRIP COMPUTER SWITCH

< REMOVAL AND INSTALLATION >

TRIP COMPUTER SWITCH

Removal and Installation

INFOID:000000008272180

The twin trip odometer switch is serviced as part of the meter control switch. Refer to [MWI-94. "Removal and Installation"](#).

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