

# SECTION WCS

## WARNING CHIME SYSTEM

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# DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

## BASIC INSPECTION

### DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000003072162

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 to see if any other malfunctions are present.

>> GO TO 3

#### 3.CHECK CONSULT-III SELF-DIAGNOSIS RESULTS

Connect CONSULT-III and perform "SELF-DIAGNOSIS". Refer to [MWI-35. "CONSULT-III Function \(METER/M&A\)".](#)

Are self-diagnosis results normal?

YES >> GO TO 4

NO >> Repair or replace the malfunctioning parts, GO TO 5

#### 4.NARROW DOWN MALFUNCTIONING PARTS THROUGH SYMPTOM DIAGNOSIS

Perform symptom diagnosis and repair or replace the identified malfunctioning parts.

>> GO TO 5

#### 5.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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# WARNING CHIME SYSTEM

< FUNCTION DIAGNOSIS >

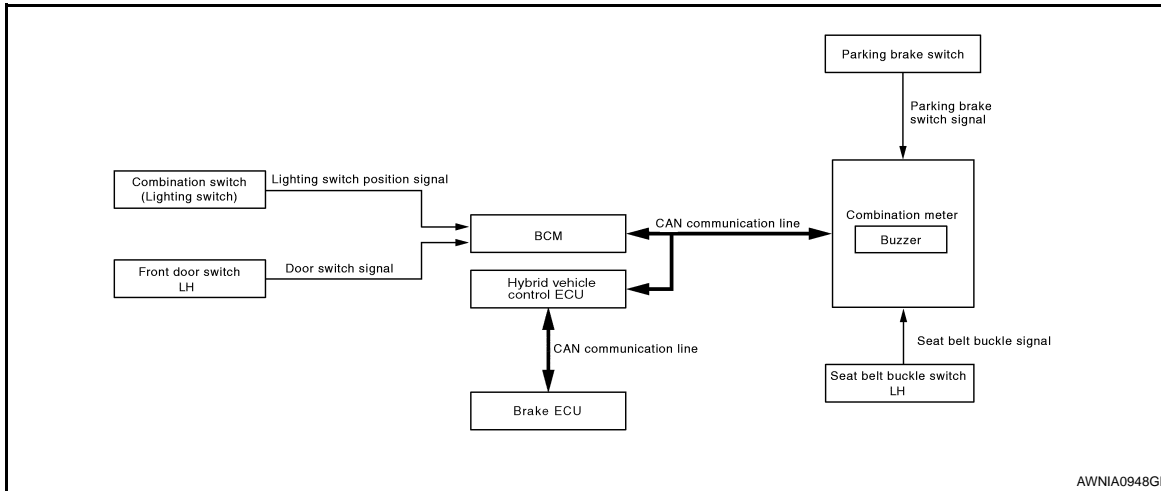
## FUNCTION DIAGNOSIS

### WARNING CHIME SYSTEM

### WARNING CHIME SYSTEM

### WARNING CHIME SYSTEM : System Diagram

INFOID:000000003072163

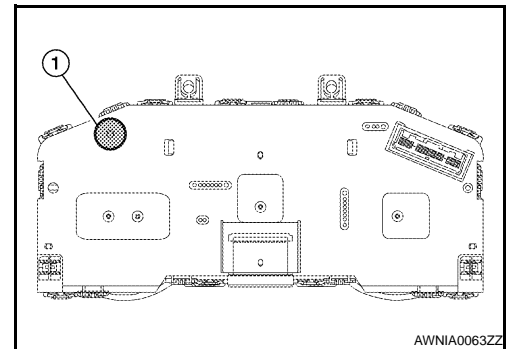


### WARNING CHIME SYSTEM : System Description

INFOID:000000003072164

#### COMBINATION METER

- The buzzer (1) for warning chime system is installed in the combination meter.
- The buzzer sounds when the combination meter receives a buzzer output signal from each unit.



#### BCM

BCM receives signals from various units and transmits a buzzer output signal to the combination meter with CAN communication line if it judges that the warning buzzer should be activated.

BCM warning function list

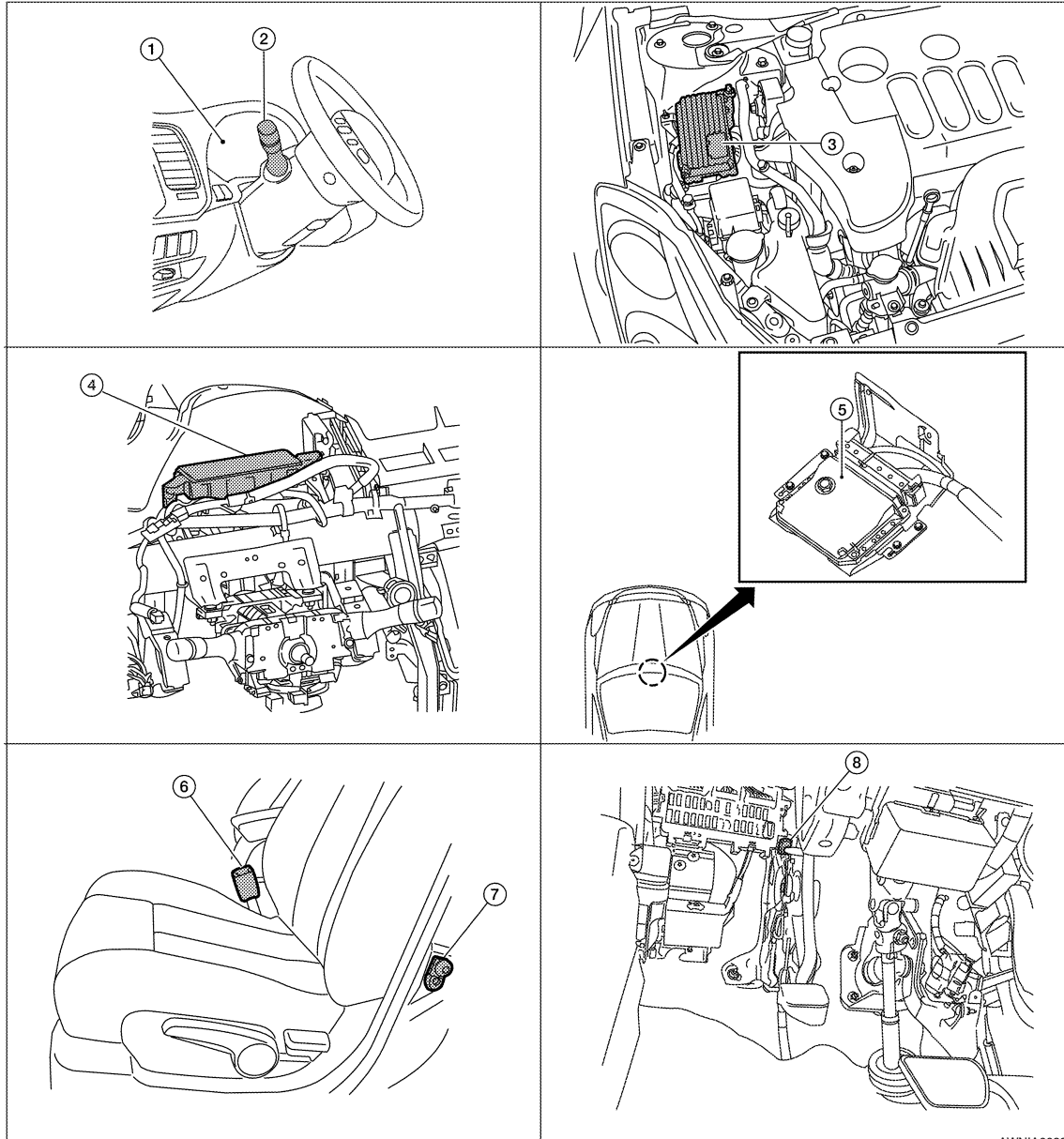
Warning functions	Signal name
Light reminder warning chime	<ul style="list-style-type: none"> <li>• Lighting switch position signal</li> <li>• Door switch signal</li> </ul>
Seat belt warning chime	Seat belt buckle switch signal

# WARNING CHIME SYSTEM

< FUNCTION DIAGNOSIS >

## WARNING CHIME SYSTEM : Component Parts Location

INFOID:000000003072165



AWNIA0082ZZ

- |  |   |                                    |
|--|---|------------------------------------|
| 1. Combination meter M24                                       | 2. Combination switch (lighting switch) M28                               | 3. Brake ECU E61                   |
| 4. BCM M16, M17, M18, M19 (view with instrument panel removed) | 5. Hybrid vehicle control ECU E66   | 6. Seat belt buckle switch LH B202 |
| 7. Front door switch LH B8                                     | 8. Parking brake switch E35 (view with instrument lower cover LH removed) |                                    |

## WARNING CHIME SYSTEM : Component Description

INFOID:000000003072166

Unit	Description
Combination meter	<ul style="list-style-type: none"> <li>Judges whether the parking brake is released using the vehicle speed signal and the parking brake switch signal, and sounds the buzzer if necessary.</li> <li>Receives the seat belt buckle switch signal from the seat belt buckle switch and transmits it to BCM with CAN communication line.</li> <li>Receives a buzzer output signal from BCM with CAN communication line.</li> </ul>
BCM	Transmits signals provided by various units to the combination meter with CAN communication line.

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# WARNING CHIME SYSTEM

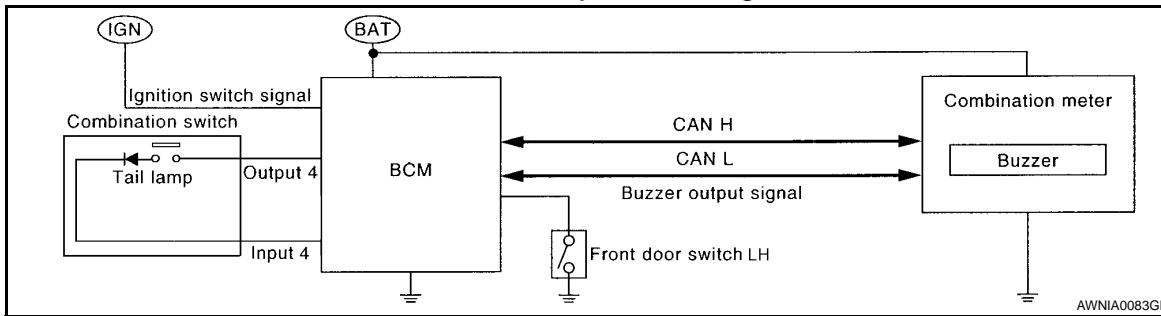
## < FUNCTION DIAGNOSIS >

Unit	Description
Hybrid vehicle control ECU	<ul style="list-style-type: none"> <li>Receives vehicle speed signal from brake ECU with CAN communication line.</li> <li>Transmits the vehicle speed signal to combination meter with CAN communication line.</li> </ul>
Brake ECU	Transmits the vehicle speed signal to hybrid vehicle control ECU with CAN communication line.
Seat belt buckle switch LH	Transmits a seat belt buckle switch signal to the combination meter.
Combination switch (Lighting switch)	Transmits the lighting switch position signal to BCM.
Front door switch LH	Transmits the door switch signal to BCM.
Parking brake switch	Transmits parking brake signal to combination meter.

## LIGHT REMINDER WARNING CHIME

### LIGHT REMINDER WARNING CHIME : System Diagram

INFOID:000000003072167



AWNIA0083GE

### LIGHT REMINDER WARNING CHIME : System Description

INFOID:000000003072168

#### DESCRIPTION

With ignition switch in OFF or ACC position, driver door open, and lighting switch in 1ST or 2ND position, the light warning chime will sound.

- BCM detects ignition switch in OFF or ACC position, front door switch LH ON, and lighting switch in 1ST or 2ND position. And then transmits buzzer output signal (light reminder warning chime) to combination meter with CAN communication line.
- When combination meter receives buzzer output signal (light reminder warning chime), it sounds the buzzer.

#### WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled

- Lighting switch is at 1st or 2nd position
- Ignition switch is at OFF or ACC
- Front door switch LH is ON

#### WARNING CANCEL CONDITIONS

Warning is canceled if any of the following conditions is fulfilled.

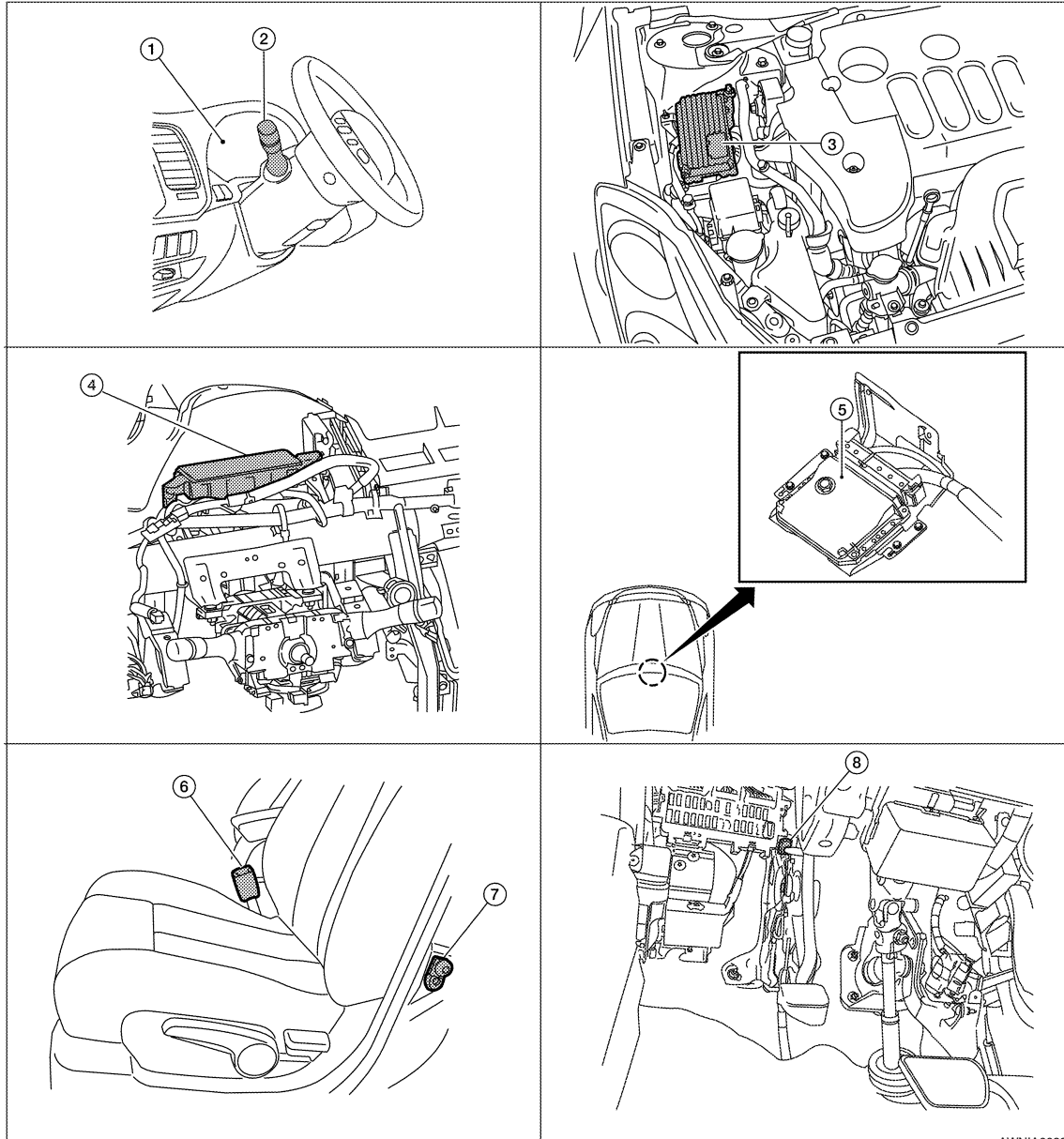
- Lighting switch OFF
- Ignition switch ON
- Front door switch LH is OFF

# WARNING CHIME SYSTEM

< FUNCTION DIAGNOSIS >

## LIGHT REMINDER WARNING CHIME : Component Parts Location

INFOID:000000003304783



AWNIA0082ZZ

- |  |   |                                    |
|--|---|------------------------------------|
| 1. Combination meter M24                                       | 2. Combination switch (lighting switch) M28                               | 3. Brake ECU E61                   |
| 4. BCM M16, M17, M18, M19 (view with instrument panel removed) | 5. Hybrid vehicle control ECU E66   | 6. Seat belt buckle switch LH B202 |
| 7. Front door switch LH B8                                     | 8. Parking brake switch E35 (view with instrument lower cover LH removed) |                                    |

## LIGHT REMINDER WARNING CHIME : Component Description

INFOID:000000003072170

Unit	Description
Combination meter	Receives a buzzer output signal from BCM via CAN communication line and sounds the buzzer.
BCM	Judges the light warning conditions from the signals provided by various switches and transmits a buzzer output signal to the combination meter via CAN communication line if necessary.
Combination switch (Lighting switch)	Transmits the lighting switch position signal to BCM.
Front door switch LH	Transmits the door switch signal to BCM.

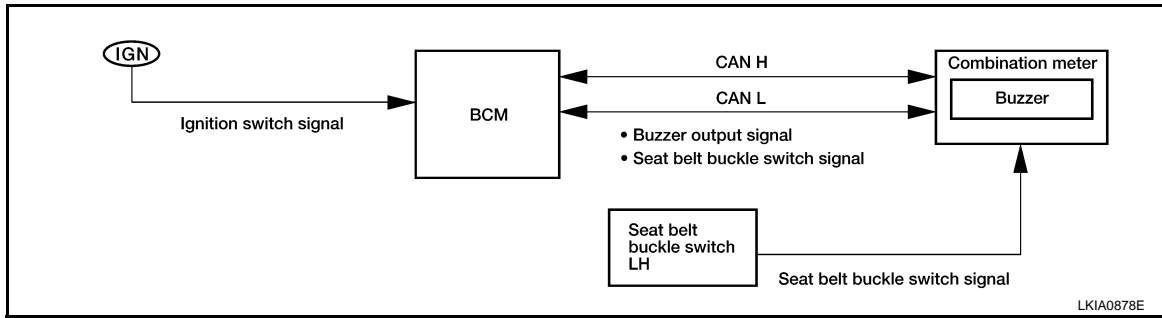
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# WARNING CHIME SYSTEM

< FUNCTION DIAGNOSIS >

## SEAT BELT WARNING CHIME

### SEAT BELT WARNING CHIME : System Diagram



### SEAT BELT WARNING CHIME : System Description

INFOID:000000003072172

#### DESCRIPTION

With ignition switch turned ON and driver seat belt unfastened, seat belt warning chime will sound for approximately 6 seconds.

- BCM receives seat belt buckle switch signal from combination meter with CAN communication line.
- BCM detects ignition switch turned ON and seat belt buckle switch LH ON. And then transmits buzzer output signal (seat belt warning chime) to combination meter with CAN communication line.
- When combination meter receives buzzer output signal (seat belt warning chime), it sounds the buzzer.

#### WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled

- Ignition switch OFF→ON
- Seat buckle switch LH is ON (driver seat belt not fastened)

#### WARNING CANCEL CONDITIONS

Cancels the warning if any of the following conditions is fulfilled.

- Ignition switch OFF
- Seat buckle switch LH is OFF (driver seat belt fastened)
- 90 seconds have passed since the start of the warning

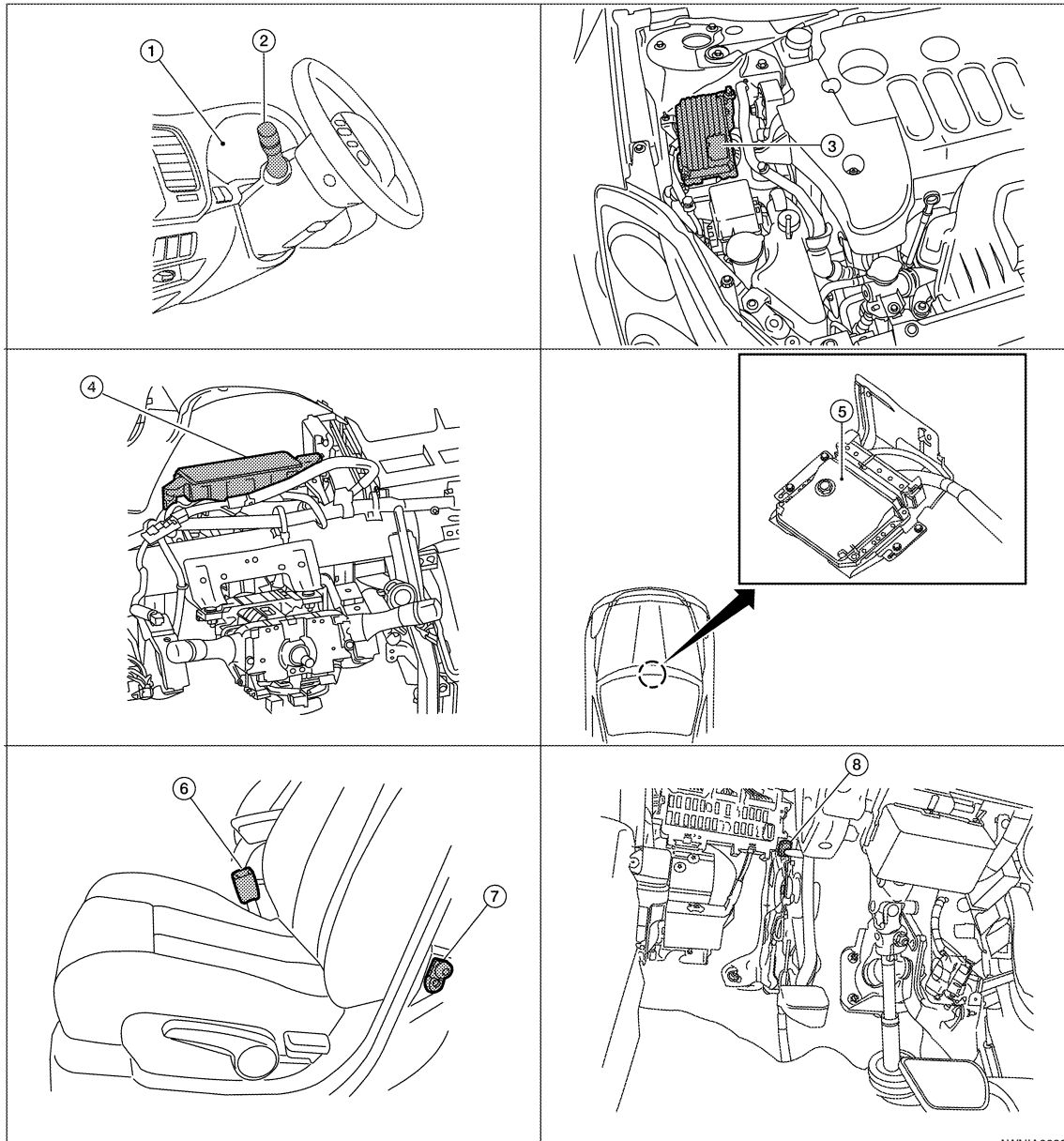


# WARNING CHIME SYSTEM

< FUNCTION DIAGNOSIS >

## SEAT BELT WARNING CHIME : Component Parts Location

INFOID:000000003304784



- |  |   |                                    |
|--|---|------------------------------------|
| 1. Combination meter M24                                       | 2. Combination switch (lighting switch) M28                               | 3. Brake ECU E61                   |
| 4. BCM M16, M17, M18, M19 (view with instrument panel removed) | 5. Hybrid vehicle control ECU E66   | 6. Seat belt buckle switch LH B202 |
| 7. Front door switch LH B8                                     | 8. Parking brake switch E35 (view with instrument lower cover LH removed) |                                    |

## SEAT BELT WARNING CHIME : Component Description

INFOID:000000003072174

Unit	Description
Combination meter	<ul style="list-style-type: none"> <li>• Receives the seat belt buckle switch signal from the seat belt buckle switch and transmits it to BCM via CAN communication line.</li> <li>• Receives a buzzer output signal from BCM via CAN communication line and sounds the buzzer.</li> </ul>

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# WARNING CHIME SYSTEM

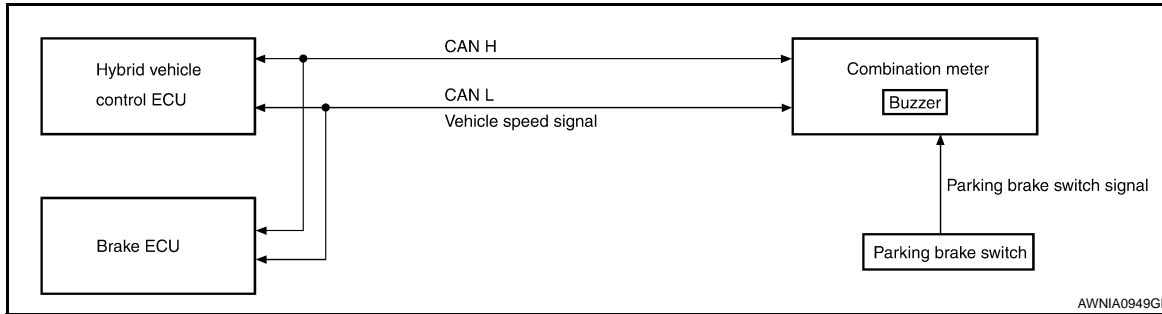
## < FUNCTION DIAGNOSIS >

Unit	Description
BCM	Judges the seat belt warning condition from the seat belt buckle switch signal received from the combination meter and transmits a buzzer output signal to the combination meter via CAN communication line if necessary.
Seat belt buckle switch LH	Transmits seat belt buckle switch signal to combination meter.

## PARKING BRAKE RELEASE WARNING CHIME

### PARKING BRAKE RELEASE WARNING CHIME : System Diagram

INFOID:000000003072175



### PARKING BRAKE RELEASE WARNING CHIME : System Description

INFOID:000000003072176

#### DESCRIPTION

- The brake ECU sends a vehicle speed signal to the hybrid vehicle control ECU via CAN communication. The hybrid vehicle control ECU then sends the vehicle speed signal to the combination meter via CAN communication.
- The combination meter judges whether the parking brake is released using the parking brake switch signal from the parking brake switch, and sounds the warning buzzer if necessary.

#### WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled

- Vehicle speed is approximately 7 km/h (4.3 MPH) or higher
- Parking brake switch ON

#### WARNING CANCEL CONDITIONS

Warning is canceled if any of the following conditions is fulfilled.

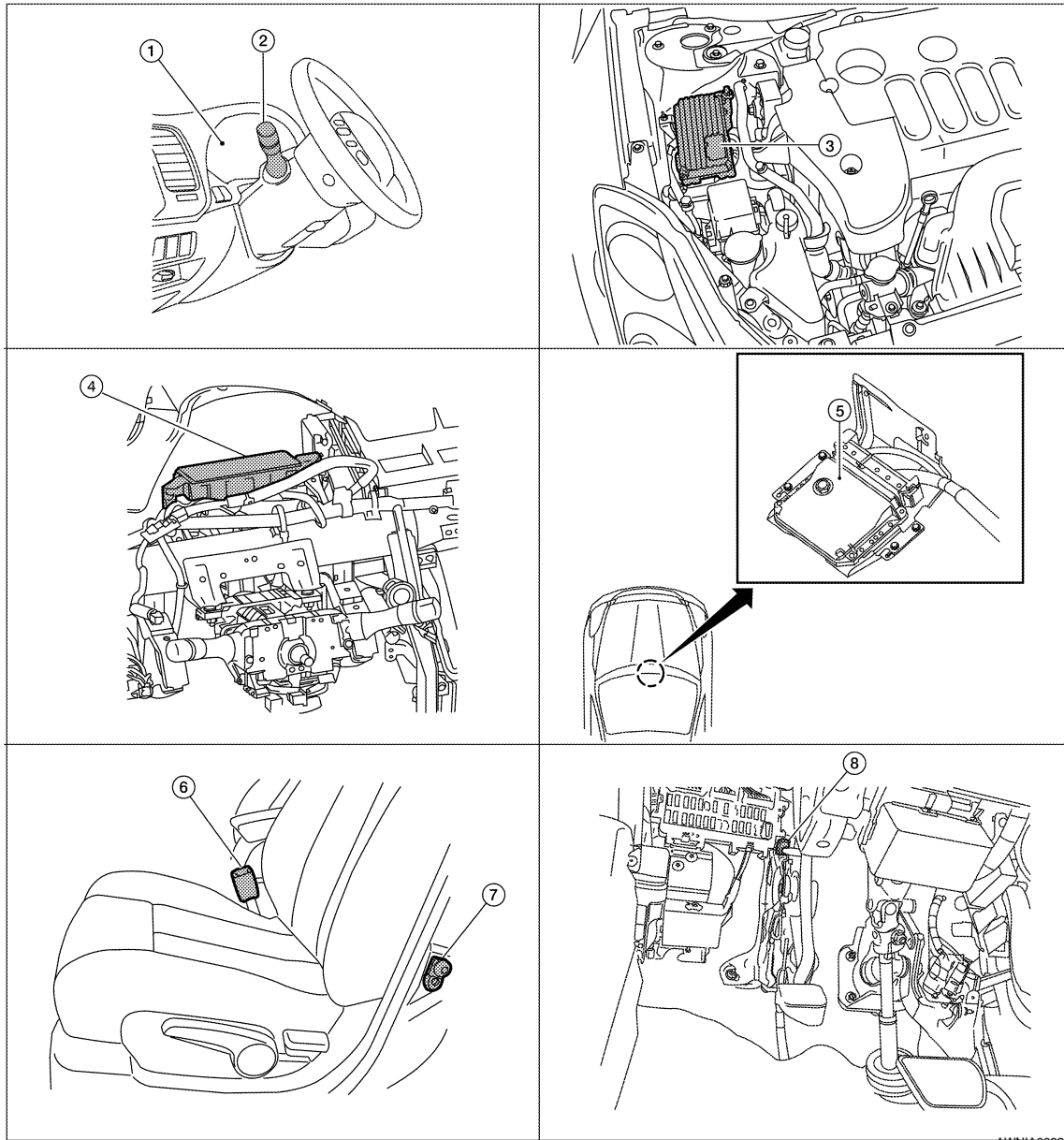
- Vehicle speed is approximately 3 km/h (1.9 MPH) or less
- Parking brake switch OFF

# WARNING CHIME SYSTEM

< FUNCTION DIAGNOSIS >

## PARKING BRAKE RELEASE WARNING CHIME : Component Parts Location

INFOID:000000003304785



- |  |   |                                    |
|--|---|------------------------------------|
| 1. Combination meter M24                                       | 2. Combination switch (lighting switch) M28                               | 3. Brake ECU E61                   |
| 4. BCM M16, M17, M18, M19 (view with instrument panel removed) | 5. Hybrid vehicle control ECU E66   | 6. Seat belt buckle switch LH B202 |
| 7. Front door switch LH B8                                     | 8. Parking brake switch E35 (view with instrument lower cover LH removed) |                                    |

## PARKING BRAKE RELEASE WARNING CHIME : Component Description

INFOID:000000003072178

Unit	Description
Combination meter	<ul style="list-style-type: none"> <li>Judges whether the parking brake is released using the parking brake switch signal from the parking brake switch, and sounds the buzzer if necessary.</li> <li>Receives a vehicle speed signal from high voltage ECU.</li> </ul>
Hybrid vehicle control ECU	<ul style="list-style-type: none"> <li>Receives vehicle speed signal from brake ECU with CAN communication line.</li> <li>Transmits the vehicle speed signal to combination meter with CAN communication line.</li> </ul>

## WARNING CHIME SYSTEM

### < FUNCTION DIAGNOSIS >

Unit	Description
Brake ECU	Transmits the vehicle speed signal to the hybrid vehicle control ECU with CAN communication line.
Parking brake switch	Transmits parking brake switch signal to the combination meter.

# DIAGNOSIS SYSTEM (METER)

< FUNCTION DIAGNOSIS >

## DIAGNOSIS SYSTEM (METER)

### CONSULT-III Function (METER/M&A)

INFOID:000000003304786

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

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

### SELF-DIAG RESULTS

Display Item List

Refer to [MWI-71, "DTC Index"](#).

### DATA MONITOR

Display Item List

X: Applicable

Display item [Unit]	MAIN SIGNALS	SELECTION FROM MENU	Description
SPEED METER [km/h] or [mph]	X	X	Displays the value of vehicle speed signal.
SPEED OUTPUT [km/h] or [mph]	X	X	Displays the value of vehicle speed signal, which is transmitted to each unit with CAN communication.
ODO OUTPUT		X	Displays the value, which is calculated by vehicle speed signal.
FUEL METER [lit.]	X	X	Displays the value, which processes a resistance signal from fuel gauge.
ABS W/L [ON/OFF]		X	Displays [ON/OFF] condition of ABS warning lamp.
VDC/TCS IND [ON/OFF]		X	Displays [ON/OFF] condition of VDC/TCS OFF indicator lamp.
SLIP IND [ON/OFF]		X	Displays [ON/OFF] condition of SLIP indicator lamp.
HEV BRAKE W/L [ON/OFF]		X	Displays [ON/OFF] condition of HEV brake warning lamp.*
DOOR W/L [ON/OFF]		X	Displays [ON/OFF] condition of door warning lamp.
TRUNK/GLAS-H [ON/OFF]		X	Displays [ON/OFF] condition of trunk warning lamp.
HI-BEAM IND [ON/OFF]		X	Displays [ON/OFF] condition of high beam indicator.
TURN IND [ON/OFF]		X	Displays [ON/OFF] condition of turn indicator.
OIL W/L [ON/OFF]		X	Displays [ON/OFF] condition of oil pressure warning lamp.
MIL [ON/OFF]		X	Displays [ON/OFF] condition of malfunction indicator lamp.
CRUISE IND [ON/OFF]		X	Displays [ON/OFF] condition of CRUISE indicator.
SET IND [ON/OFF]		X	Displays [ON/OFF] condition of SET indicator.
FUEL W/L [ON/OFF]		X	Displays [ON/OFF] condition of low-fuel warning lamp.
WASHER W/L [ON/OFF]		X	Displays [ON/OFF] condition of low-washer fluid warning lamp.
AIR PRES W/L [ON/OFF]		X	Displays [ON/OFF] condition of tire pressure warning lamp.
KEY G W/L [ON/OFF]		X	Displays [ON/OFF] condition of key warning lamp.
PUSH ENG IND		X	Displays the value of Intelligent Key system message indication.
SHIFT IND [P, R, N, D, L]		X	Displays [P, R, N, D, L] range position of ECVT.
PKB SW [ON/OFF]		X	Displays [ON/OFF] condition of parking brake switch.
BUCKLE SW [ON/OFF]		X	Displays [ON/OFF] condition of seat belt buckle switch LH.
DISTANCE [km] or [mile]		X	Displays the value, which is calculated by vehicle speed signal, fuel gauge and fuel consumption from ECM.
OUTSIDE TEMP [°C]		X	Displays the ambient air temperature, which is input from ambient sensor.

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## DIAGNOSIS SYSTEM (METER)

### < FUNCTION DIAGNOSIS >

Display item [Unit]	MAIN SIGNALS	SELECTION FROM MENU	Description
FUEL LOW SIG [ON/OFF]		X	Displays [ON/OFF] condition of low-fuel warning signal.
BUZZER [ON/OFF]	X	X	Displays [ON/OFF] condition of buzzer.
ALL POWER METER [kw]		X	Displays the value of power meter.
SOC METER [%]		X	Displays the position of the high voltage battery status meter pointer.
EPS W/L [ON/OFF]		X	Displays [ON/OFF] condition of EPS warning lamp.
READY IND [ON/OFF]		X	Displays [ON/OFF] condition of READY indicator.
SYS FAIL W/L [ON/OFF]		X	Displays [ON/OFF] condition of hybrid system warning lamp.
SFT POSI W/L [ON/OFF]		X	Displays [ON/OFF] condition of shift position indicator.
HV BAT W/L [ON/OFF]		X	Displays [ON/OFF] condition of high voltage battery warning lamp.
CHAGE W/L [ON/OFF]		X	Displays [ON/OFF] condition of charge warning lamp.
LCD		X	Displays the value of Intelligent Key system message indication.
BRAKE OIL SW [ON/OFF]		X	Displays [ON/OFF] condition of brake fluid level switch.

**NOTE:**

Some items are not available due to vehicle specification.

# DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

## DIAGNOSIS SYSTEM (BCM)

### BUZZER

BUZZER : CONSULT-III Function (BCM - BUZZER)

INFOID:000000003072180

### CONSULT-III APPLICATION ITEMS

Test item	Diagnosis mode	Description
BUZZER	Data Monitor	Displays BCM input data in real time.
	Active Test	Operation of electrical loads can be checked by sending driving signal to them.

### DATA MONITOR

Display item [Unit]	Description
VEH SPEED 1 [Km/h]	Value of vehicle speed signal received from brake ECU.
PUSH SW [On/Off]	Status of push button ignition switch judged by BCM.
UNLK SEN-DR [On/Off]	Status of unlock sensor judged by BCM.
KEY SW-SLOT [On/Off]	Status of key slot judged by BCM.
TAIL LAMP SW [On/Off]	Status of each switch judged by BCM using the combination switch readout function.
FR FOG SW [On/Off]	Status of front fog lamp switch judged by BCM.
DOOR SW-DR [On/Off]	Status of driver side door switch judged by BCM.

### ACTIVE TEST

Display item [Unit]	Description
IGN KEY WARN ALM	The key warning chime operation can be checked by operating the relevant function (On/Off).
SEAT BELT WARN TEST	The seat belt warning chime operation can be checked by operating the relevant function (On/Off).
ID REGIST WARNING	The ID regist warning chime operation can be checked by operating the relevant function (On/Off).
LIGHT WARN ALM	The light warning chime operation can be checked by operating the relevant function (On/Off).
RUN FLAT/T WARN BUZZER	The run-flat tire warning chime operation can be checked by operating the relevant function (On/Off).

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# POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

## COMPONENT DIAGNOSIS

### POWER SUPPLY AND GROUND CIRCUIT COMBINATION METER

COMBINATION METER : Diagnosis Procedure

INFOID:000000003304806

Refer to [BCS-41. "Diagnosis Procedure"](#).

### BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE) : Diagnosis Procedure

INFOID:000000003306468

#### 1. CHECK FUSE AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuse and fusible link No.
1	Battery power supply	J
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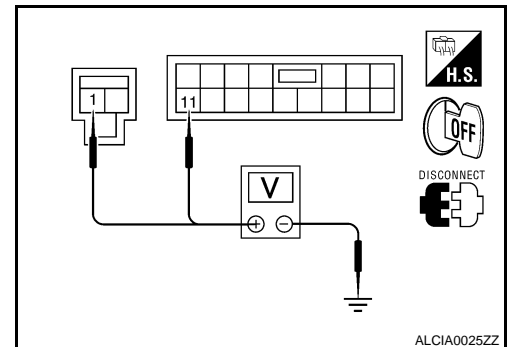
Is the fuse or fusible link blown?

- YES >> Replace the blown fuse or fusible link after repairing the affected circuit.  
NO >> GO TO 2

#### 2. CHECK POWER SUPPLY CIRCUIT

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

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



Is the measurement normal?

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

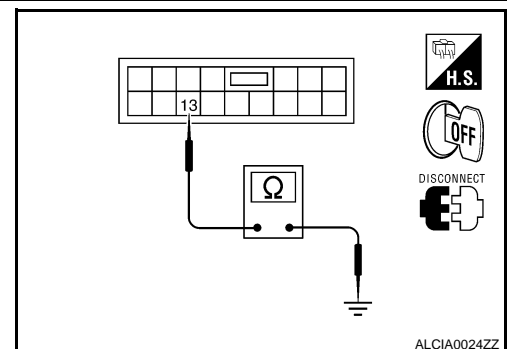
#### 3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M17	13		Yes

Does continuity exist?

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





# METER BUZZER CIRCUIT

< COMPONENT DIAGNOSIS >

## METER BUZZER CIRCUIT

### Description

INFOID:000000003072183

- The buzzer for warning chime system is installed in the combination meter.
- The combination meter sounds the alarm buzzer based on the signals transmitted from various units.

### Component Function Check

INFOID:000000003072184

#### 1.CHECK OPERATION OF METER BUZZER

1. Select "BUZZER" of "BCM" on CONSULT-III.
2. Perform "LIGHT WARN ALM" of "ACTIVE TEST".

#### Does meter buzzer activate?

- YES >> Inspection End.  
NO >> Replace combination meter. Refer to [MWI-135. "Removal and Installation"](#).

### Diagnosis Procedure

INFOID:000000003072185

#### 1.CHECK POWER SUPPLY OF COMBINATION METER

Check power supply of combination meter. Refer to [MWI-40. "COMBINATION METER : Diagnosis Procedure"](#).

#### Is the inspection result normal?

- YES >> Inspection End.  
NO >> Repair power supply circuit of combination meter.

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WCS

# SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

## SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

### Description

INFOID:000000003072186

Transmits a seat belt buckle switch signal to the combination meter.

### Component Function Check

INFOID:000000003072187

#### 1.CHECK COMBINATION METER INPUT SIGNAL

Select "DATA MONITOR" for "METER/M&A" and check the "BELT SW" monitor value.

##### BELT SW

When seat belt is fastened : OFF

When seat belt is unfastened : ON

>> Inspection End.

### Diagnosis Procedure

INFOID:000000003072188

#### 1.CHECK COMBINATION METER INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between combination meter harness connector M24 terminal 35 and ground.

##### 35 - Ground

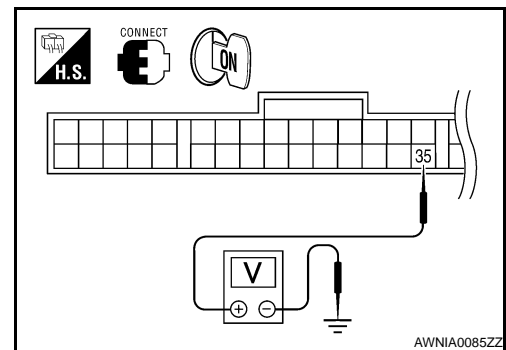
When driver seat belt is fastened : Approx. 12V

When driver seat belt is unfastened : Approx. 0V

Is the inspection result normal?

YES >> Replace combination meter. Refer to [MWI-135, "Removal and Installation"](#).

NO >> GO TO 2



#### 2.CHECK SEAT BELT BUCKLE SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect combination meter connector and seat belt buckle switch LH connector.
3. Check continuity between combination meter harness connector M24 terminal 35 and seat belt buckle switch LH harness connector B202 terminal 1.

35 - 1 : Continuity should exist.

4. Check harness continuity between combination meter harness connector M24 terminal 35 and ground.

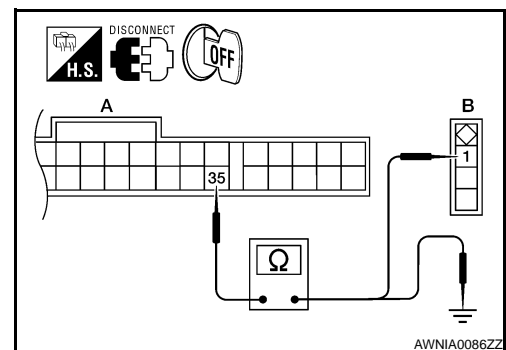
35 - Ground : Continuity should not exist.

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair harness or connector.

#### 3.CHECK SEAT BELT BUCKLE SWITCH GROUND CIRCUIT



# SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

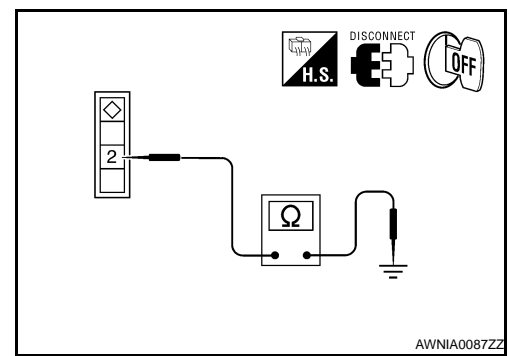
## < COMPONENT DIAGNOSIS >

Check harness continuity between seat belt buckle switch LH harness connector B202 terminal 2 and ground.

**2 - Ground : Continuity should exist.**

Is the inspection result normal?

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



## Component Inspection

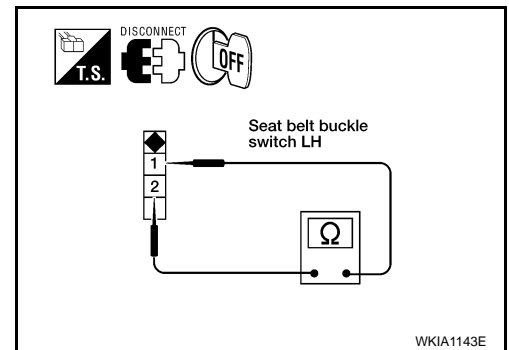
### 1. CHECK SEAT BELT BUCKLE SWITCH

1. Turn ignition switch OFF.
2. Disconnect the seat belt buckle switch connector.
3. Check continuity between terminals 1 and 2.

**1-2**  
**When seat belt is fastened : Continuity should not exist.**  
**When seat belt is unfastened : Continuity should exist.**

Is the inspection result normal?

- YES >> Inspection End.
- NO >> Replace the seat belt buckle switch LH.



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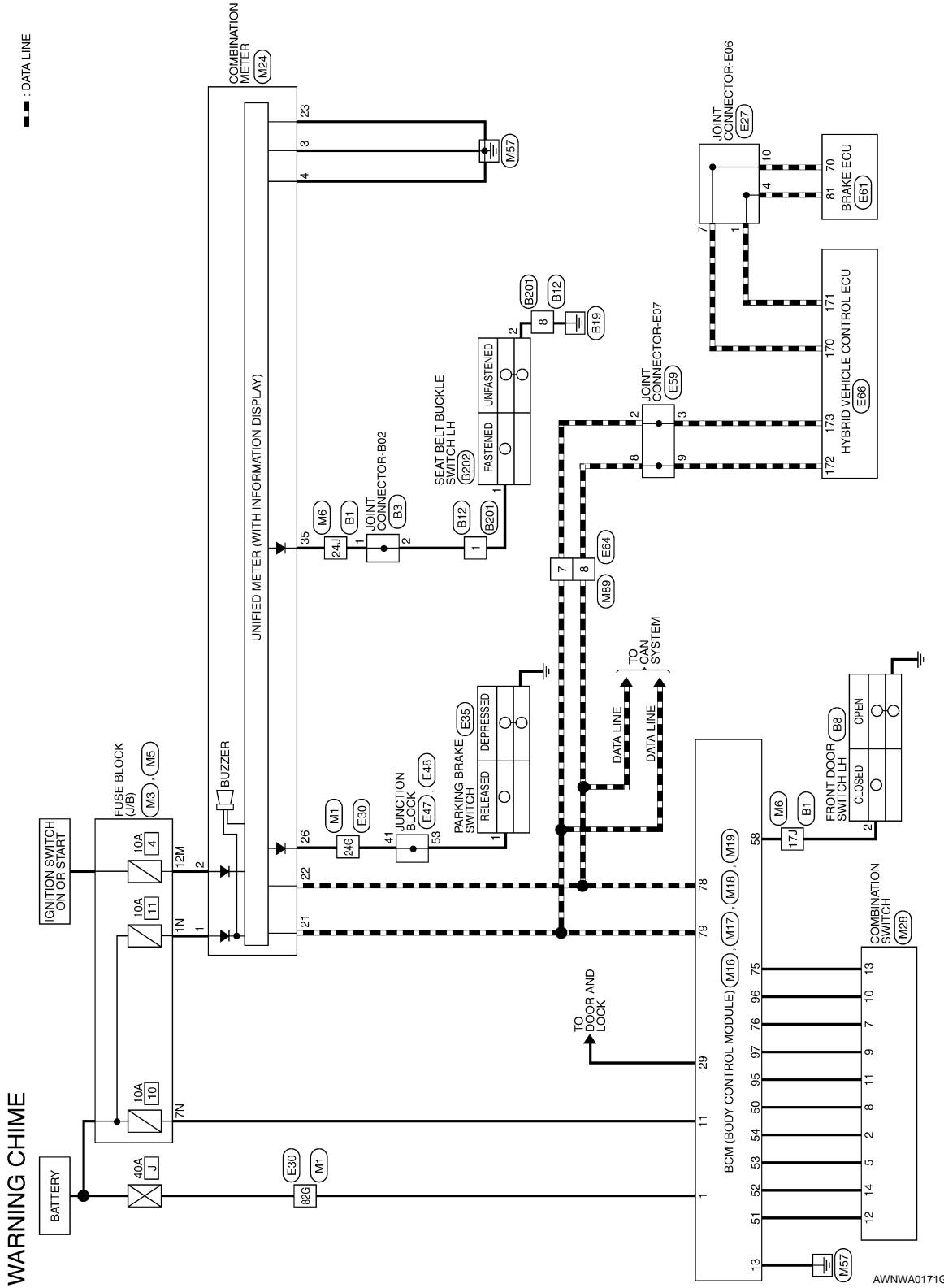
# WARNING CHIME SYSTEM

< COMPONENT DIAGNOSIS >

## WARNING CHIME SYSTEM

### Wiring Diagram

INFOID:000000003072190



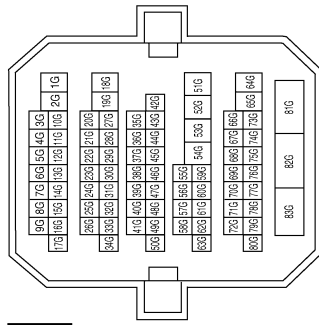
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# WARNING CHIME SYSTEM

## < COMPONENT DIAGNOSIS >

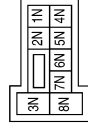
### WARNING CHIME CONNECTORS

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



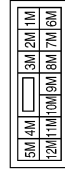
Terminal No.	Color of Wire	Signal Name
24G	G/R	—
82G	W/B	—

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

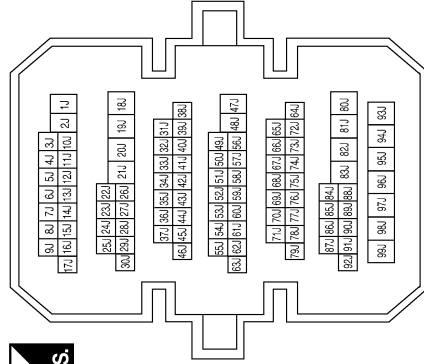


Terminal No.	Color of Wire	Signal Name
1N	W/L	—
7N	Y/R	—

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



Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
12M	P	—

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# WARNING CHIME SYSTEM

## < COMPONENT DIAGNOSIS >

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



38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	
39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20

Terminal No.	Color of Wire	Signal Name
29	Y	FOB_IN_SW_1
50	LG/B	INPUT_5
51	L/W	INPUT_1
52	G/B	INPUT_2
53	LG/R	INPUT_3
54	G/Y	INPUT_4
58	SB	DR_DOOR_SW

Connector No.	M17
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



4	5	6	7	8	9	10		
11	12	13	14	15	16	17	18	19

Terminal No.	Color of Wire	Signal Name
11	Y/R	BAT_BCM_FUSE
13	B	GND1

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



1	3	2
---	---	---

Terminal No.	Color of Wire	Signal Name
1	W/B	BAT_POWER_F/L

Terminal No.	Color of Wire	Signal Name
1	W/L	BATT
2	O	IGN
3	B	GND
4	B	GND
21	L	CAN-H
22	P	CAN-L
23	B	GND
26	G/R	PKB
35	W/B	DR_BELT

Connector No.	M24
Connector Name	COMBINATION METER
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

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



79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60
69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50

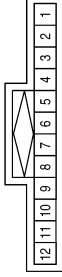
Terminal No.	Color of Wire	Signal Name
75	R/Y	OUTPUT_5
76	R/G	OUTPUT_3
78	P	CAN-L
79	L	CAN-H
95	R/W	OUTPUT_1
96	P/B	OUTPUT_4
97	R/B	OUTPUT_2

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# WARNING CHIME SYSTEM

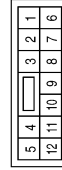
## < COMPONENT DIAGNOSIS >

Connector No.	E27
Connector Name	JOINT CONNECTOR-E06
Connector Color	BLUE



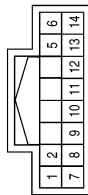
Terminal No.	Color of Wire	Signal Name
1	Y	—
4	Y	—
7	BR	—
10	BR	—

Connector No.	M89
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7	L	—
8	P	—

Connector No.	M28
Connector Name	COMBINATION SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	G/Y	OUTPUT 4
5	LG/R	OUTPUT 3
7	R/G	INPUT 3
8	LG/B	OUTPUT 5
9	R/B	INPUT 2
10	P/B	INPUT 4
11	R/W	INPUT 1
12	L/W	OUTPUT 1
13	R/Y	INPUT 5
14	G/B	OUTPUT 2

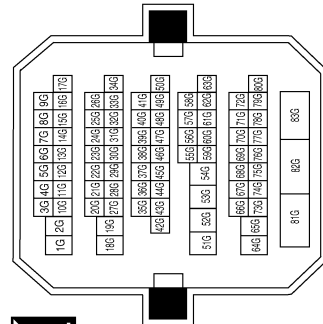
Connector No.	E35
Connector Name	PARKING BRAKE SWITCH (WITH CVT)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	G/R	—

Terminal No.	Color of Wire	Signal Name
24G	G/R	—
82G	W/B	—

Connector No.	E30
Connector Name	WIRE TO WIRE
Connector Color	WHITE



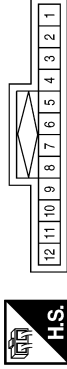
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# WARNING CHIME SYSTEM

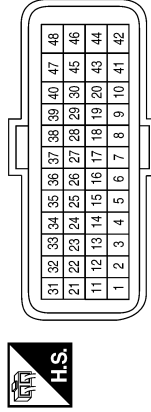
## < COMPONENT DIAGNOSIS >

Connector No.	E59
Connector Name	JOINT CONNECTOR-E06
Connector Color	BLUE



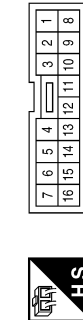
Terminal No.	Color of wire	Signal Name
2	L	-
3	L	-
8	P	-
9	P	-

Connector No.	E48
Connector Name	JUNCTION BLOCK
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
53	G/R	-

Connector No.	E47
Connector Name	JUNCTION BLOCK
Connector Color	WHITE



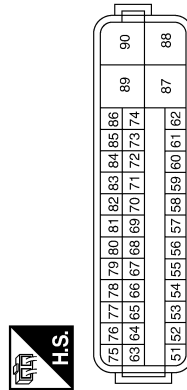
Terminal No.	Color of Wire	Signal Name
41	G/R	-

Connector No.	E64
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of wire	Signal Name
7	L	-
8	P	-

Connector No.	E61
Connector Name	BRAKE ECU
Connector Color	BLACK



Terminal No.	Color of wire	Signal Name
70	BR	CAN-L
81	Y	CAN-H

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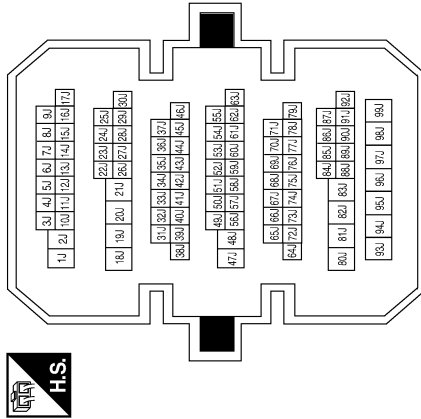


# WARNING CHIME SYSTEM

## < COMPONENT DIAGNOSIS >

Terminal No.	Color of Wire	Signal Name
17J	SB	—
24J	W/B	—

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



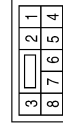
Connector No.	E66
Connector Name	HYBRID VEHICLE CONTROL ECU
Connector Color	BLACK



106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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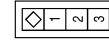
Terminal No.	Color of wire	Signal Name
170	BR	CAN-L
171	Y	CAN-H
172	P	CAN-L
173	L	CAN-H

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



Terminal No.	Color of Wire	Signal Name
1	W/B	—
8	B/Y	—

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



Terminal No.	Color of Wire	Signal Name
2	SB	DOOR SW(DR)

Connector No.	B3
Connector Name	JOINT CONNECTOR-B02
Connector Color	WHITE



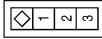
Terminal No.	Color of Wire	Signal Name
1	W/B	—
2	W/B	—

AWNIA0745GB

# WARNING CHIME SYSTEM

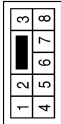
## < COMPONENT DIAGNOSIS >

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



Terminal No.	Color of Wire	Signal Name
1	W/B	BUCKLE SWITCH FR LH
2	B/Y	GND

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



Terminal No.	Color of Wire	Signal Name
1	W/B	—
8	B/Y	—

ALNIA0169GB

# COMBINATION METER

< ECU DIAGNOSIS >

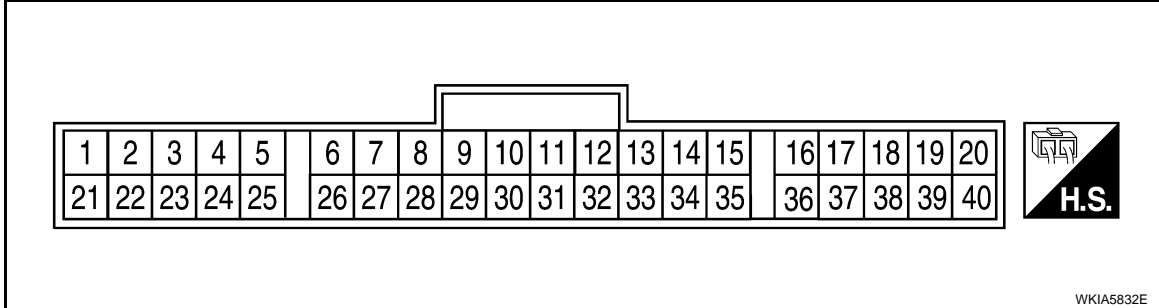
## ECU DIAGNOSIS

### COMBINATION METER

Reference Value

INFOID:000000003304794

#### TERMINAL LAYOUT

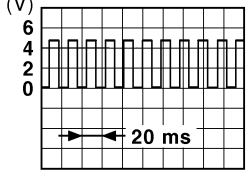


#### PHYSICAL VALUES

Terminal	Wire color	Item	Condition		Reference value (V) (Approx.)
			Ignition switch	Operation or condition	
1	W/L	Battery power supply	—	—	Battery voltage
2	O	Ignition switch ON or START	ON	—	Battery voltage
3	B	Ground (Power)	—	—	0
4	B	Ground (Illumination)			
5	R/Y	Illumination output	—	—	Refer to <a href="#">INL-9, "System Description"</a> .
9	GR/W	Illumination switch power	—	—	Refer to <a href="#">INL-9, "System Description"</a> .
10	O/L	Mode switch ground	ON	—	0
11	L/R	Mode switch A	ON	Switch pressed	0
				Switch released	5
12	B/R	Mode switch B	ON	Switch pressed	0
				Switch released	5
14	V/Y	Ignition switch ACC or ON	ON	—	Battery voltage
15	BR/W	Air bag warning lamp input	ON	Air bag warning lamp ON	3
				Air bag warning lamp OFF	0
18	O/B	Ambient sensor signal	ON	—	0 - 5 (Based on ambient temperature)
20	B/Y	Ambient sensor ground	ON	—	0
21	L	CAN-H	—	—	—
22	P	CAN-L	—	—	—
23	B	Ground (Circuit)	—	—	0
24	B/W	Fuel level sensor ground	ON	—	0
26	G/R	Parking brake switch	ON	Parking brake applied	0
				Parking brake released	Battery voltage
28	L/O	Security indicator input	OFF	Security indicator ON	0
				Security indicator OFF	Battery voltage

# COMBINATION METER

## < ECU DIAGNOSIS >

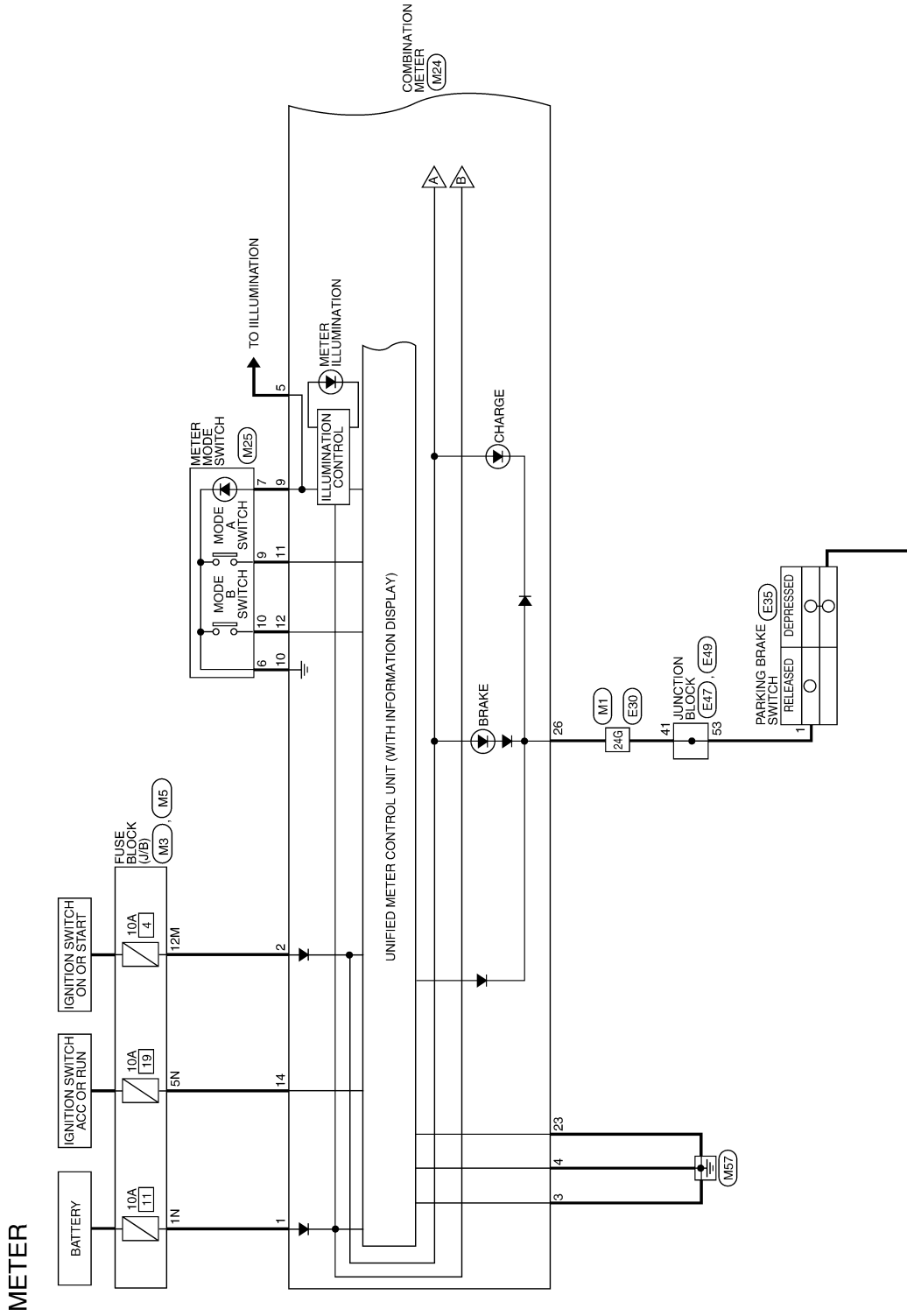
Terminal	Wire color	Item	Condition		Reference value (V) (Approx.)
			Ignition switch	Operation or condition	
29	R	Washer fluid level switch	ON	Washer fluid level low	0
				Washer fluid level normal	Battery voltage
30	L/B	Vehicle speed signal output (2-pulse)	ON	Speedometer operated [When vehicle speed is approx. 20 km/h (12 MPH)]	240 Hz
31	V/W	Vehicle speed signal output (8-pulse)	ON	Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)]	<p><b>NOTE:</b> Maximum voltage may be 12V due to specifications (connected units).</p>  <p style="text-align: right; font-size: small;">PKIC0643E</p>
34	G/B	Fuel level sensor signal	—	—	Refer to <a href="#">MWI-13. "FUEL GAUGE : System Description"</a> .
35	W/B	Seat belt buckle switch LH	ON	Unfastened (ON)	0
				Fastened (OFF)	Battery voltage
36	L/W	Seat belt buckle switch RH	ON	Unfastened (ON)	0
				Fastened (OFF)	Battery voltage

# COMBINATION METER

< ECU DIAGNOSIS >

## Wiring Diagram

INFOID:000000003304795



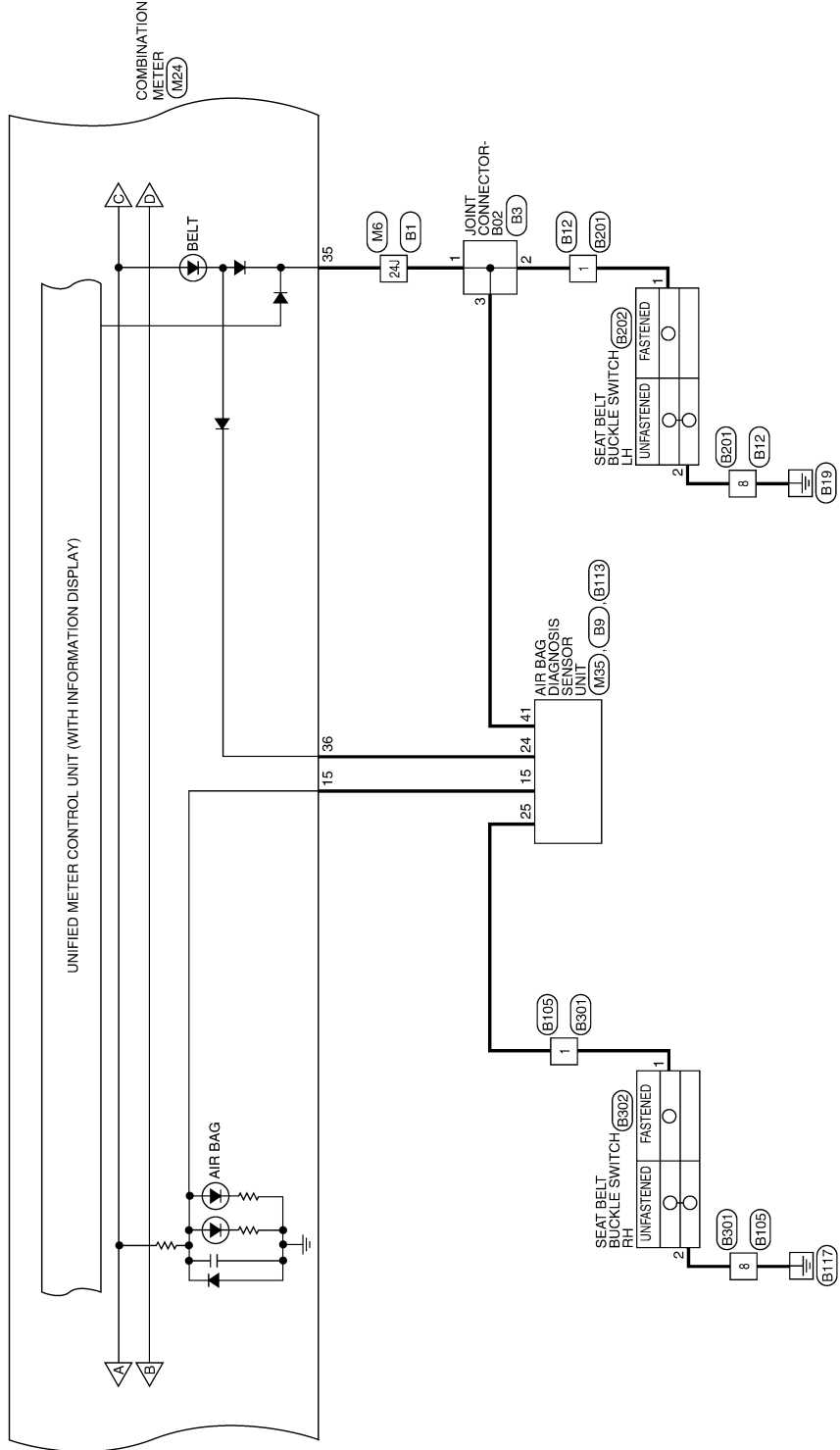
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WCS

AWNWA0168G

# COMBINATION METER

< ECU DIAGNOSIS >

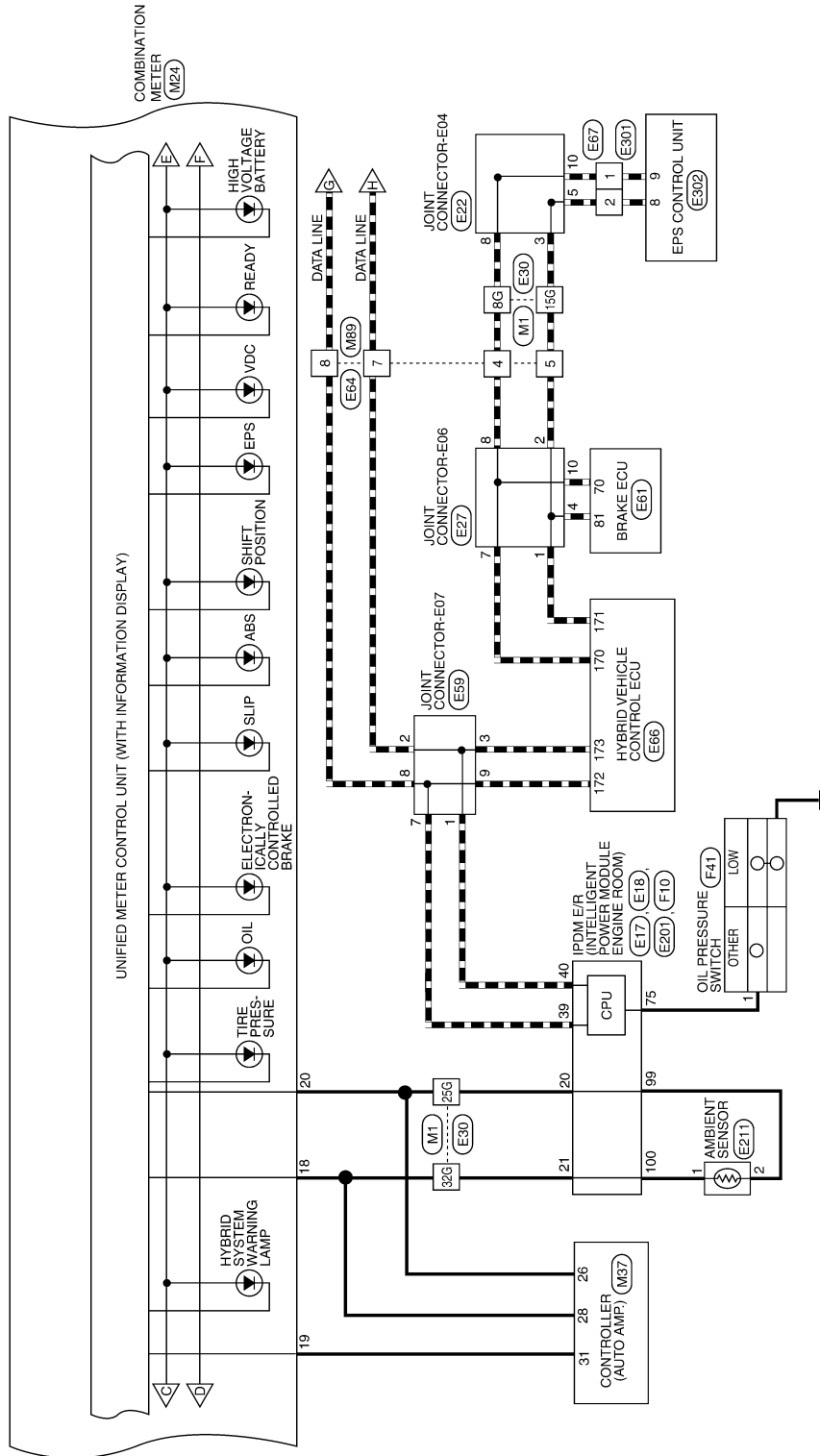


ALNWA0037GE

# COMBINATION METER

< ECU DIAGNOSIS >

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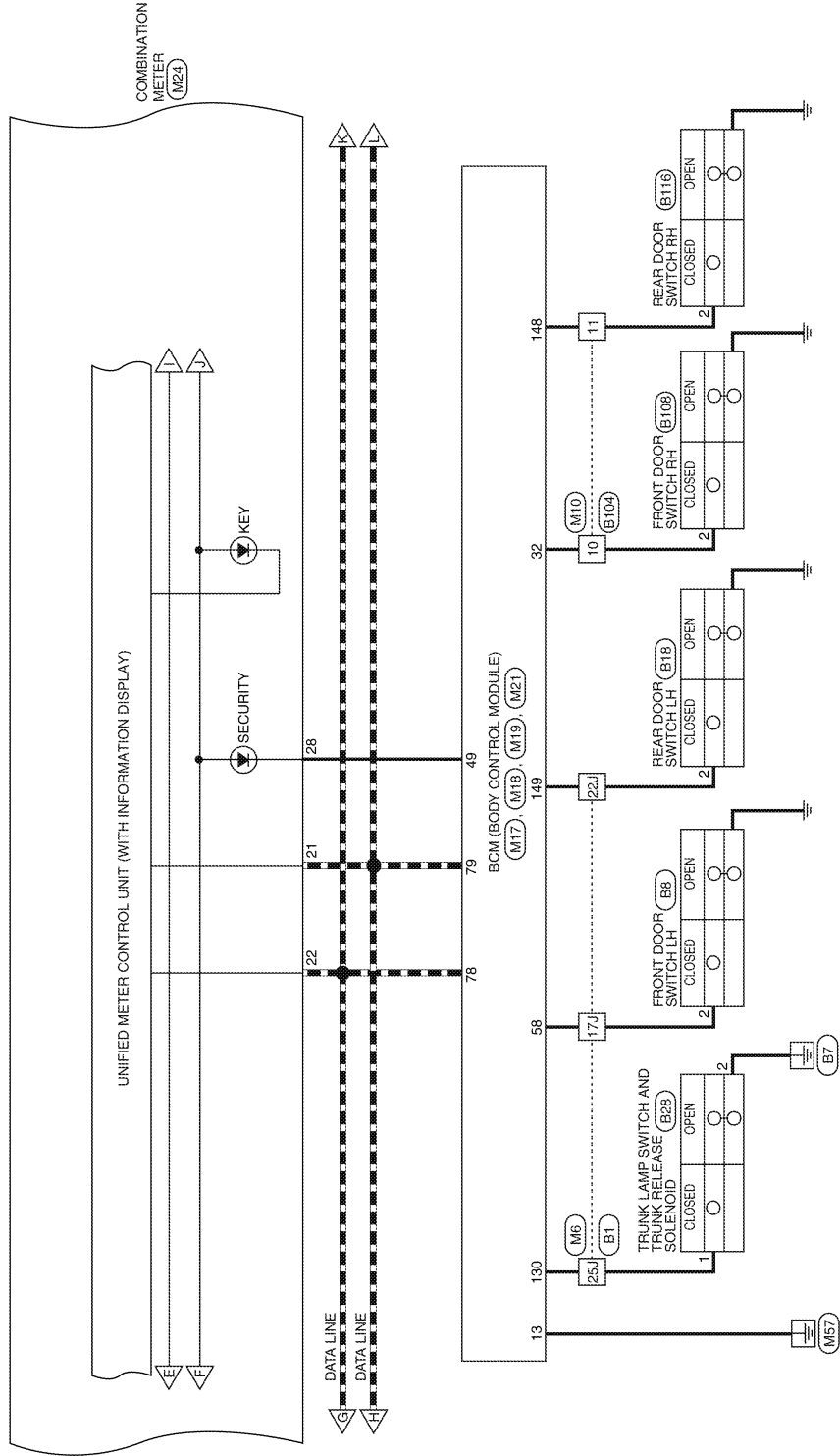
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AWNWA0169G

# COMBINATION METER

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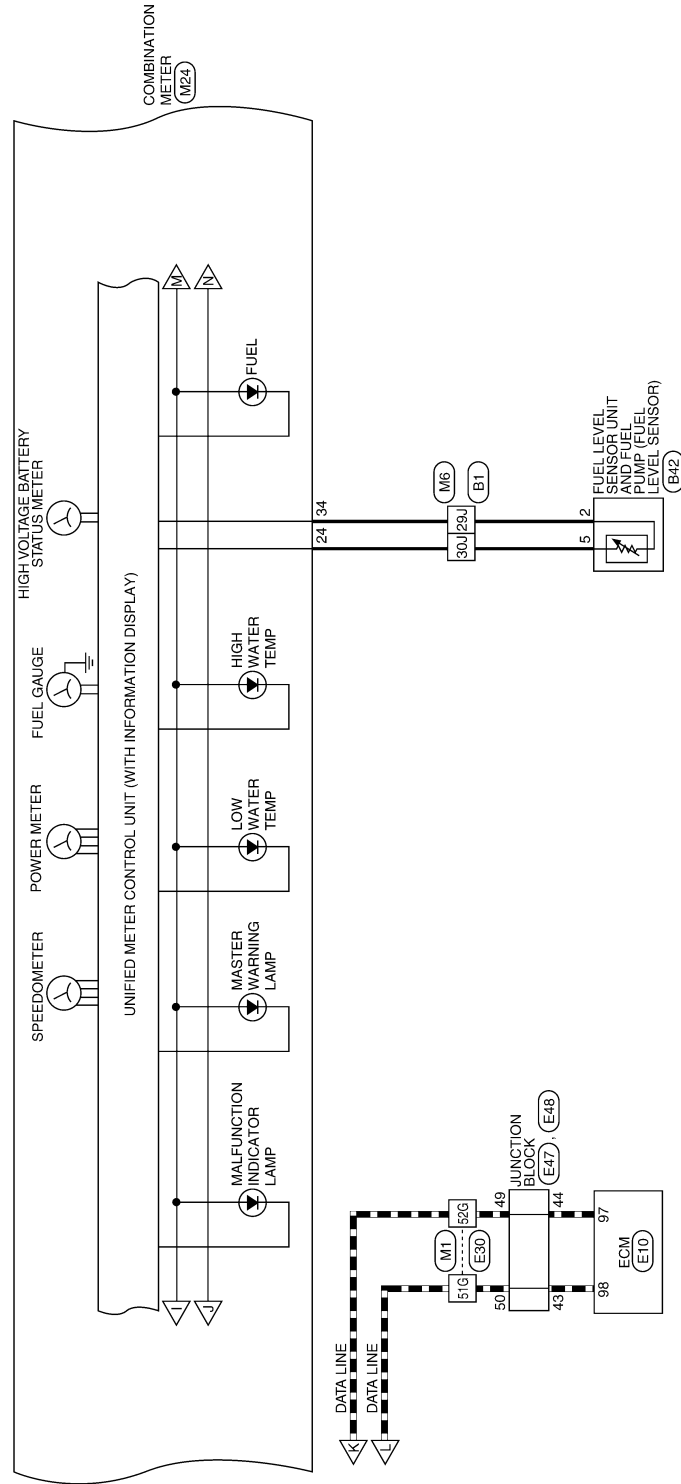
ALNWA0038GE



# COMBINATION METER

< ECU DIAGNOSIS >

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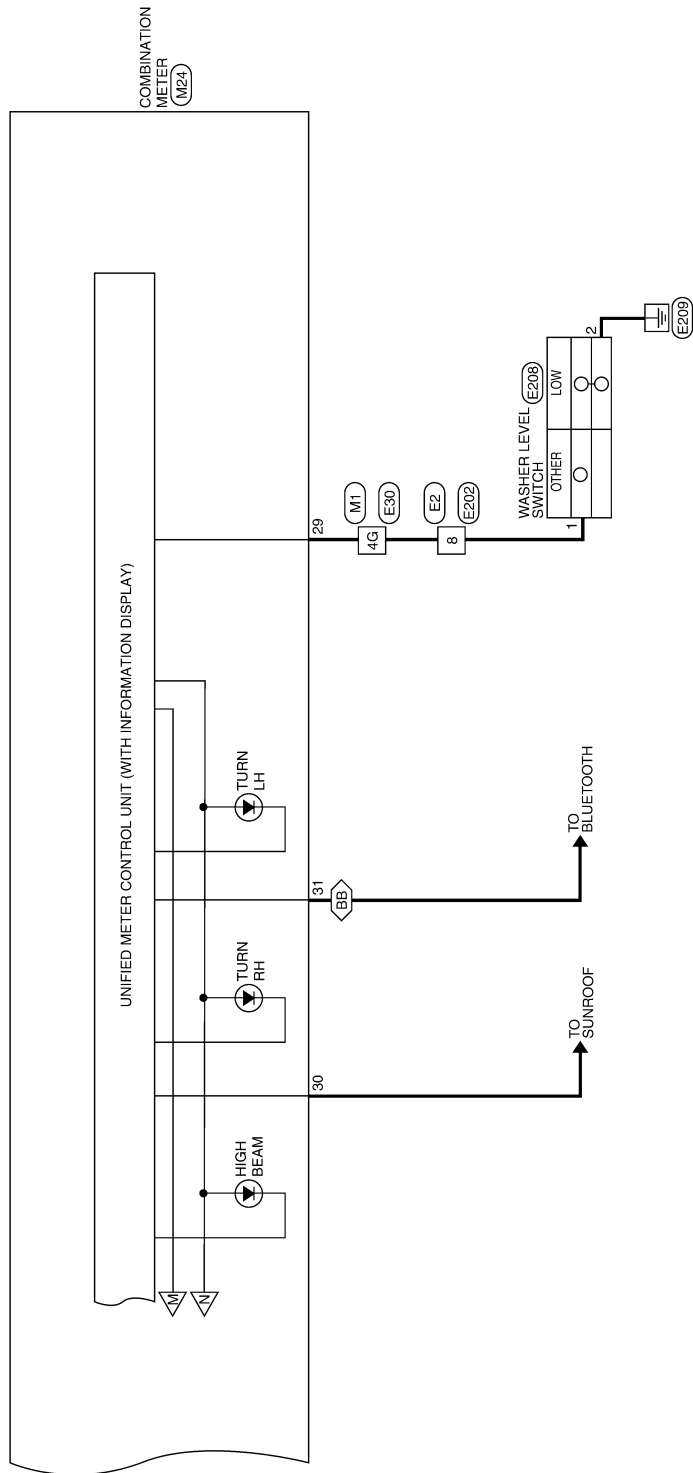
WCS

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# COMBINATION METER

< ECU DIAGNOSIS >

BE: WITH BLUETOOTH

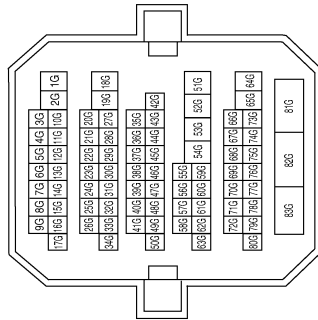


AWNWA0170G

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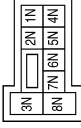
## METER CONNECTORS

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of wire	Signal Name
4G	R	-
8G	BR	-
15G	Y	-
24G	G/R	-
25G	B/Y	-
32G	O/B	-
51G	L	-
52G	P	-

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



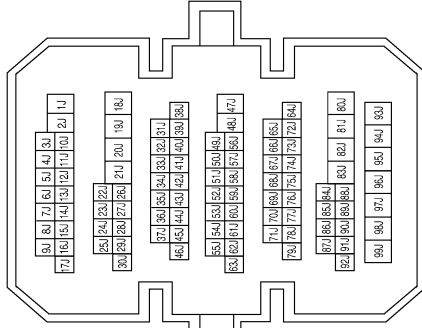
Terminal No.	Color of wire	Signal Name
1N	W/L	-
5N	V/Y	-

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



Terminal No.	O	Signal Name
12M	O	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of wire	Signal Name
17J	SB	-
22J	R/B	-
24J	W/B	-
25J	Y/G	-
29J	G/B	-
30J	B/W	-


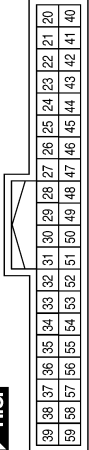
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WCS

# COMBINATION METER


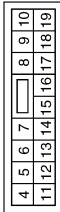
< ECU DIAGNOSIS >

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


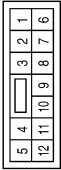
Terminal No.	Color of wire	Signal Name
32	R/B	AS_DOOR_SW
49	L/O	IMMO_LED
58	SB	DR_DOOR_SW

Connector No.	M17
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE


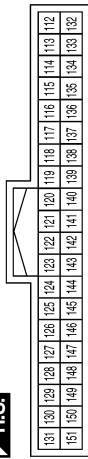
Terminal No.	Color of wire	Signal Name
13	B	GND1

Connector No.	M10
Connector Name	WIRE TO WIRE
Connector Color	BROWN


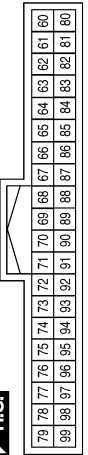
Terminal No.	Color of wire	Signal Name
10	R/B	-
11	R/W	-

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

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

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

Terminal No.	Color of wire	Signal Name
78	P	CAN-L
79	L	CAN-H

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# COMBINATION METER

< ECU DIAGNOSIS >

Connector No.	M24
Connector Name	COMBINATION METER
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	W/L	BAT
2	O	IGN
3	B	GND (POWER)
4	B	GND (ILL)
5	R/Y	ILL OUTPUT
9	GR/W	SW ILL PWR
10	O/L	GND (SATELLITE SW)
11	L/R	MODE A SW
12	B/R	MODE B SW
14	V/Y	ACC
15	BR/W	AIR_BAG
18	O/B	OAT
19	P	OAT POWER
20	B/Y	GND (OAT SENSOR)

Terminal No.	Color of Wire	Signal Name
21	L	CAN-H
22	P	CAN-L
23	B	GND (CIRCUIT)
24	B/W	GND (FUEL SENSOR)
26	G/R	PKB
28	L/O	SECURITY
29	R	LOW WASH FLUID SW
30	L/B	2P/R OUT
31	V/W	8P/R OUT
34	G/B	FUEL SENSOR
35	W/B	DR_BELT
36	L/W	AS_BELT

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



1	2	3	4	5
6	7	8	9	10

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

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



21	22	11	46	48	47	45	3	4	6	5	24	49	1
16	12	15					18						2

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

Connector No.	M37
Connector Name	CONTROLLER (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
26	B/Y	SENS GND
28	O/B	AMB SENS
31	P	AMB VDD

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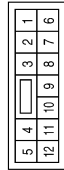
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WCS

# COMBINATION METER

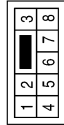
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Connector No.	M89
Connector Name	WIRE TO WIRE
Connector Color	WHITE



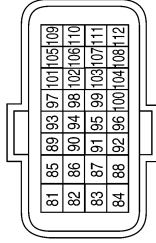
Terminal No.	Color of Wire	Signal Name
4	BR	-
5	Y	-
7	L	-
8	P	-

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



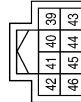
Terminal No.	Color of Wire	Signal Name
8	R	-

Connector No.	E10
Connector Name	ECM
Connector Color	BLACK



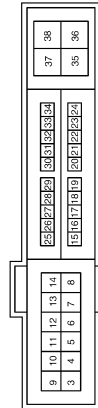
Terminal No.	Color of Wire	Signal Name
97	P	CAN-L
98	L	CAN-H

Connector No.	E17
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



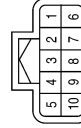
Terminal No.	Color of Wire	Signal Name
39	P	CAN-L
40	L	CAN-H

Connector No.	E18
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
20	B/Y	AMB_SENS_GND-E/R
21	O/B	AMB_SENS_SIG-E/R

Connector No.	E22
Connector Name	JOINT CONNECTOR-E04
Connector Color	BLACK



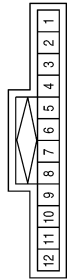
Terminal No.	Color of Wire	Signal Name
3	Y	-
5	Y	-
8	BR	-
10	BR	-

AWNIA0739GB

# COMBINATION METER

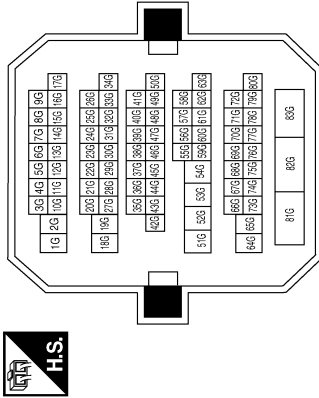
< ECU DIAGNOSIS >

Connector No.	E27
Connector Name	JOINT CONNECTOR-E06
Connector Color	BLUE



Terminal No.	Color of wire	Signal Name
1	Y	-
2	Y	-
4	Y	-
7	BR	-
8	BR	-
10	BR	-

Connector No.	E30
Connector Name	WIRE TO WIRE
Connector Color	WHITE



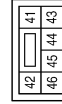
Terminal No.	Color of wire	Signal Name
4G	R	-
8G	P	-
15G	L	-
24G	G/R	-
25G	V	-
32G	O/B	-
51G	L	-
52G	P	-

Connector No.	E35
Connector Name	PARKING BRAKE SWITCH
Connector Color	BLACK



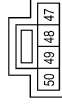
Terminal No.	Color of wire	Signal Name
1	G/R	-

Connector No.	E47
Connector Name	JUNCTION BLOCK
Connector Color	WHITE



Terminal No.	Color of wire	Signal Name
41	G/R	-
43	L	-
44	P	-

Connector No.	E48
Connector Name	JUNCTION BLOCK
Connector Color	WHITE



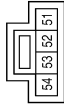
Terminal No.	Color of wire	Signal Name
49	P	-
50	L	-

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# COMBINATION METER

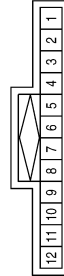
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Connector No.	E49
Connector Name	JUNCTION BLOCK
Connector Color	BROWN



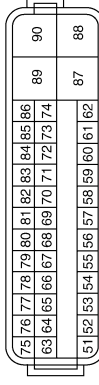
Terminal No.	Color of wire	Signal Name
53	G/R	-

Connector No.	E59
Connector Name	JOINT CONNECTOR-E06
Connector Color	BLUE



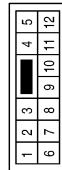
Terminal No.	Color of wire	Signal Name
1	L	-
2	L	-
3	L	-
7	P	-
8	P	-
9	P	-

Connector No.	E61
Connector Name	BRAKE ECU
Connector Color	BLACK



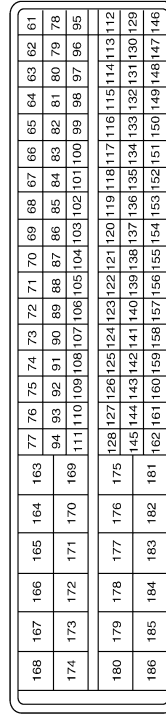
Terminal No.	Color of wire	Signal Name
70	BR	CAN-L
81	Y	CAN-H

Connector No.	E64
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of wire	Signal Name
4	BR	-
5	Y	-
7	L	-
8	P	-

Connector No.	E66
Connector Name	HIGH VOLTAGE ECU
Connector Color	BLACK



Terminal No.	Color of wire	Signal Name
170	BR	CAN-L
171	Y	CAN-H
172	P	CAN-L
173	L	CAN-H

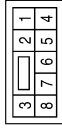
ALNIA0155GB



# COMBINATION METER

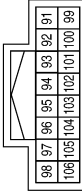
< ECU DIAGNOSIS >

Connector No.	E202
Connector Name	WIRE TO WIRE
Connector Color	WHITE



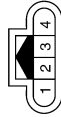
Terminal No.	Color of Wire	Signal Name
8	R	-

Connector No.	E201
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



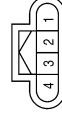
Terminal No.	Color of Wire	Signal Name
99	BR/W	AMB_SENS_GND-FEM
100	SB	AMB_SENS_SIG-FEM

Connector No.	E67
Connector Name	WIRE TO WIRE
Connector Color	BLACK



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

Connector No.	E301
Connector Name	WIRE TO WIRE
Connector Color	BLACK



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

Connector No.	E211
Connector Name	AMBIENT SENSOR
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	SB	AMB_SENS_SIG
2	BR/W	AMB_SENS_GND

Connector No.	E208
Connector Name	WASHER LEVEL SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	R	WASHER
2	B	GND

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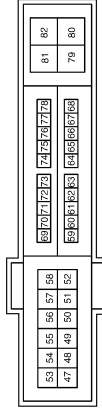
WCS

# COMBINATION METER

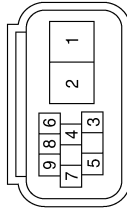
< ECU DIAGNOSIS >

Terminal No.	Color of Wire	Signal Name
75	P/L	OIL_PRESSURE_SW

Connector No.	F10
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



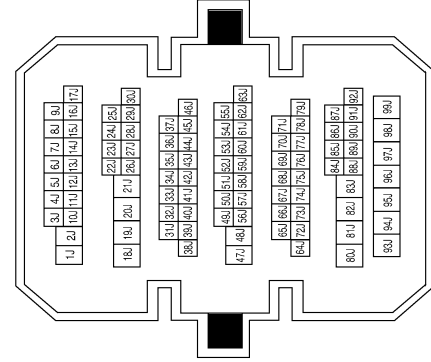
Connector No.	E302
Connector Name	EPS CONTROL UNIT
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
8	Y	CAN-H
9	BR	CAN-L

Terminal No.	Color of Wire	Signal Name
17J	SB	-
22J	R/B	-
24J	W/B	-
25J	Y/G	-
29J	G/B	-
30J	B/W	-

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	F41
Connector Name	OIL PRESSURE SWITCH
Connector Color	GRAY





Terminal No.	Color of Wire	Signal Name
1	P/L	-

# COMBINATION METER


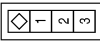
< ECU DIAGNOSIS >

Connector No.	B3
Connector Name	JOINT CONNECTOR- B02
Connector Color	WHITE


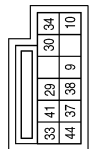
Terminal No.	Color of Wire	Signal Name
1	W/B	-
2	W/B	-
3	W/B	-

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



Terminal No.	Color of Wire	Signal Name
2	SB	DOOR SW (DR)

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



Terminal No.	Color of Wire	Signal Name
41	W/B	LH BUCKLE SW INPUT

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



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

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


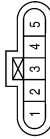
Terminal No.	Color of Wire	Signal Name
2	R/B	DOOR SW (RL)

Connector No.	B28
Connector Name	TRUNK LAMP SWITCH AND TRUNK RELEASE SOLENOID
Connector Color	WHITE


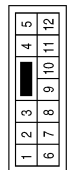
Terminal No.	Color of Wire	Signal Name
1	Y/G	-
2	B	-

Connector No.	B42
Connector Name	FUEL LEVEL SENSOR UNIT AND FUEL PUMP
Connector Color	GRAY


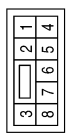
Terminal No.	Color of Wire	Signal Name
2	G/B	FUEL_GND
5	B/W	FUEL_SIGNAL

Connector No.	B104
Connector Name	WIRE TO WIRE
Connector Color	BROWN

Terminal No.	Color of Wire	Signal Name
10	R/G	-
11	R/W	-

Connector No.	B105
Connector Name	WIRE TO WIRE
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
1	L/B	-
8	B/Y	-


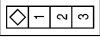
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# COMBINATION METER


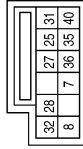
< ECU DIAGNOSIS >

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


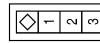
Terminal No.	Color of Wire	Signal Name
2	R/W	DOOR SW (RF)

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


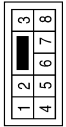
Terminal No.	Color of Wire	Signal Name
25	L/B	RH BUCKLE SW INPUT

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



Terminal No.	Color of Wire	Signal Name
2	R/G	DOOR SW (AS)

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


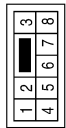
Terminal No.	Color of Wire	Signal Name
1	L	-
8	B	-

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

Terminal No.	Color of Wire	Signal Name
1	W/B	SIGNAL
2	B	GND

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

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

Terminal No.	Color of Wire	Signal Name
1	L	SIGNAL
2	B	GND

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




AWNIA0743GB

## Fail Safe

INFOID:000000003304796

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

# COMBINATION METER

## < ECU DIAGNOSIS >

Function		Specifications	
Speedometer		Zero indication.	A
Fuel gauge			B
Power meter			C
High voltage battery status meter			
Illumination control	Meter illumination	Change to nighttime mode when communication is lost.	
Segment LCD	Odometer	Freeze current indication.	D
	ECVT position	Display turns off.	
Buzzer		Buzzer turns off.	
Warning lamp/indicator lamp	ABS warning lamp	Lamp turns on when communication is lost.	E
	Brake warning lamp		F
	VDC OFF indicator lamp		
	SLIP indicator lamp		
	Oil pressure warning lamp	Lamp turns off when communication is lost.	G
	Malfunction indicator lamp		H
	Master warning lamp		
	Air bag warning lamp		
	High beam indicator		
	Turn signal indicator lamp		
	Intelligent Key system warning lamp	Lamp turns off when disconnected.	I
	Driver and passenger seat belt warning lamp		J
	Charge warning lamp		
	Security indicator lamp		
Low tire pressure warning lamp	Lamp will flash every second for 1 minute and then stay on continuously thereafter.	K	

## DTC Index

INFOID:000000003304797

CONSULT-III display	Malfunction	Reference page
CAN COMM CIRC [U1000]	Malfunction is detected in CAN communication. <b>CAUTION:</b> Even when there is no malfunction on CAN communication system, malfunction may be misinterpreted when battery has low voltage (when maintaining 7 - 8 V for about 2 seconds) or 10A fuse [No. 19, located in the fuse block (J/B)] is disconnected.	<a href="#">MWI-38</a>
VEHICLE SPEED CIRC [B2205]	Malfunction is detected when an erroneous speed signal is input. <b>CAUTION:</b> Even when there is no malfunction on speed signal system, malfunction may be misinterpreted when battery has low voltage (when maintaining 7 - 8 V for about 2 seconds).	<a href="#">MWI-39</a>

### NOTE:

"TIME" indicates the following.

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

# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

## BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000003304800

### VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	OFF
	Front wiper switch HI	ON
FR WIPER LOW	Other than front wiper switch LO	OFF
	Front wiper switch LO	ON
FR WASHER SW	Front washer switch OFF	OFF
	Front washer switch ON	ON
FR WIPER INT	Other than front wiper switch INT	OFF
	Front wiper switch INT	ON
FR WIPER STOP	Front wiper is not in STOP position	OFF
	Front wiper is in STOP position	ON
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
TURN SIGNAL R	Other than turn signal switch RH	OFF
	Turn signal switch RH	ON
TURN SIGNAL L	Other than turn signal switch LH	OFF
	Turn signal switch LH	ON
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	OFF
	Lighting switch 1ST or 2ND	ON
HI BEAM SW	Other than lighting switch HI	OFF
	Lighting switch HI	ON
HEAD LAMP SW 1	Other than lighting switch 2ND	OFF
	Lighting switch 2ND	ON
HEAD LAMP SW 2	Other than lighting switch 2ND	OFF
	Lighting switch 2ND	ON
PASSING SW	Other than lighting switch PASS	OFF
	Lighting switch PASS	ON
AUTO LIGHT SW	Other than lighting switch AUTO	OFF
	Lighting switch AUTO	ON
FR FOG SW	Front fog lamp switch OFF	OFF
	Front fog lamp switch ON	ON
DOOR SW-DR	Front door LH closed	OFF
	Front door LH opened	ON
DOOR SW-AS	Front door RH closed	OFF
	Front door RH opened	ON
DOOR SW-RR	Rear door RH closed	OFF
	Rear door RH opened	ON
DOOR SW-RL	Rear door LH closed	OFF
	Rear door LH opened	ON
DOOR SW-BK	<b>NOTE:</b> This item is displayed, but cannot be monitored.	OFF

## BCM (BODY CONTROL MODULE)

### < ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status	
CDL LOCK SW	Other than power door lock switch LOCK	OFF	A
	Door lock/unlock switch LOCK	ON	
CDL UNLOCK SW	Other than door lock/unlock switch UNLOCK	OFF	B
	Door lock/unlock switch UNLOCK	ON	
KEY CYL LK-SW	Other than front door LH key cylinder LOCK position	OFF	C
	Front door LH key cylinder LOCK position	ON	
KEY CYL UN-SW	Other than front door LH key cylinder UNLOCK position	OFF	D
	Front door LH key cylinder UNLOCK position	ON	
KEY CYL SW-TR	<b>NOTE:</b> This item is displayed, but cannot be monitored.	OFF	
HAZARD SW	When hazard switch is not pressed	OFF	E
	When hazard switch is pressed	ON	
REAR DEF SW	When rear window defogger switch is pressed	ON	
FAN ON SIG	When AUTO switch or fan switch is pressed	ON	F
AIR COND SW	When A/C switch is pressed	ON	
TR CANCEL SW	Trunk lid opener cancel switch OFF	OFF	G
	Trunk lid opener cancel switch ON	ON	
TR/BD OPEN SW	Trunk lid opener switch OFF	OFF	H
	While the trunk lid opener switch is turned ON	ON	
TRNK/HAT MNTR	Trunk lid closed	OFF	I
	Trunk lid opened	ON	
RKE-LOCK	When LOCK button of Intelligent Key is not pressed	OFF	J
	When LOCK button of Intelligent Key is pressed	ON	
RKE-UNLOCK	When UNLOCK button of Intelligent Key is not pressed	OFF	K
	When UNLOCK button of Intelligent Key is pressed	ON	
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is not pressed	OFF	L
	When TRUNK OPEN button of Intelligent Key is pressed	ON	
RKE-PANIC	When PANIC button of Intelligent Key is not pressed	OFF	M
	When PANIC button of Intelligent Key is pressed	ON	
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is not pressed and held	OFF	
	When UNLOCK button of Intelligent Key is pressed and held	ON	
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF	
	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON	WCS
OPTICAL (LIGHT) SEN- SOR	When outside of the vehicle is bright	Close to 5 V	O
	When outside of the vehicle is dark	Close to 0 V	
REQ SW-DR	When front door LH request switch is not pressed	OFF	P
	When front door LH request switch is pressed	ON	
REQ SW-AS	When front door RH request switch is not pressed	OFF	
	When front door RH request switch is pressed	ON	
REQ SW-BD/TR	When trunk request switch is not pressed	OFF	
	When trunk request switch is pressed	ON	
PUSH SW	When push-button ignition switch is not pressed	OFF	
	When push-button ignition switch is pressed	ON	

## BCM (BODY CONTROL MODULE)

### < ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
IGN RLY -F/B	Ignition switch OFF or ACC	OFF
	Ignition switch ON	ON
ACC RLY -F/B	Ignition switch OFF	OFF
	Ignition switch ACC or ON	ON
BRAKE SW 1	When the brake pedal is not depressed	ON
	When the brake pedal is depressed	OFF
DETE/CANCL SW	When selector lever is in P position	OFF
	When selector lever is in any position other than P	ON
SFT PN/N SW	When selector lever is in any position other than P or N	OFF
	When selector lever is in P or N position	ON
S/L -LOCK	Electronic steering column lock LOCK status	OFF
	Electronic steering column lock UNLOCK status	ON
S/L -UNLOCK	Electronic steering column lock UNLOCK status	OFF
	Electronic steering column lock LOCK status	ON
S/L RELAY-F/B	Ignition switch OFF or ACC	OFF
	Ignition switch ON	ON
UNLK SEN-DR	Front door LH UNLOCK status	OFF
	Front door LH LOCK status	ON
PUSH SW -IPDM	When push-button ignition switch is not pressed (IPDM E/R sends via CAN)	OFF
	When push-button ignition switch is pressed (IPDM E/R sends via CAN)	ON
IGN RLY1 F/B	Ignition switch OFF or ACC	OFF
	Ignition switch ON	ON
DETE SW -IPDM	When selector lever is in P position (IPDM E/R sends via CAN)	OFF
	When selector lever is in any position other than P (IPDM E/R sends via CAN)	ON
SFT PN -IPDM	When selector lever is in any position other than P or N (IPDM E/R sends via CAN)	OFF
	When selector lever is in P or N position (IPDM E/R sends via CAN)	ON
SFT P -MET	When selector lever is in any position other than P (combination meter sends via CAN)	OFF
	When selector lever is in P position (combination meter sends via CAN)	ON
SFT N -MET	When selector lever is in any position other than N (combination meter sends via CAN)	OFF
	When selector lever is in N position (combination meter sends via CAN)	ON
ENGINE STATE	Engine stopped	STOP
	While the engine stalls	STALL
	At engine cranking	CRANK
	Engine running	RUN
S/L LOCK-IPDM	Electronic steering column lock LOCK status (IPDM E/R sends via CAN)	OFF
	Electronic steering column lock UNLOCK status (IPDM E/R sends via CAN)	ON



## BCM (BODY CONTROL MODULE)

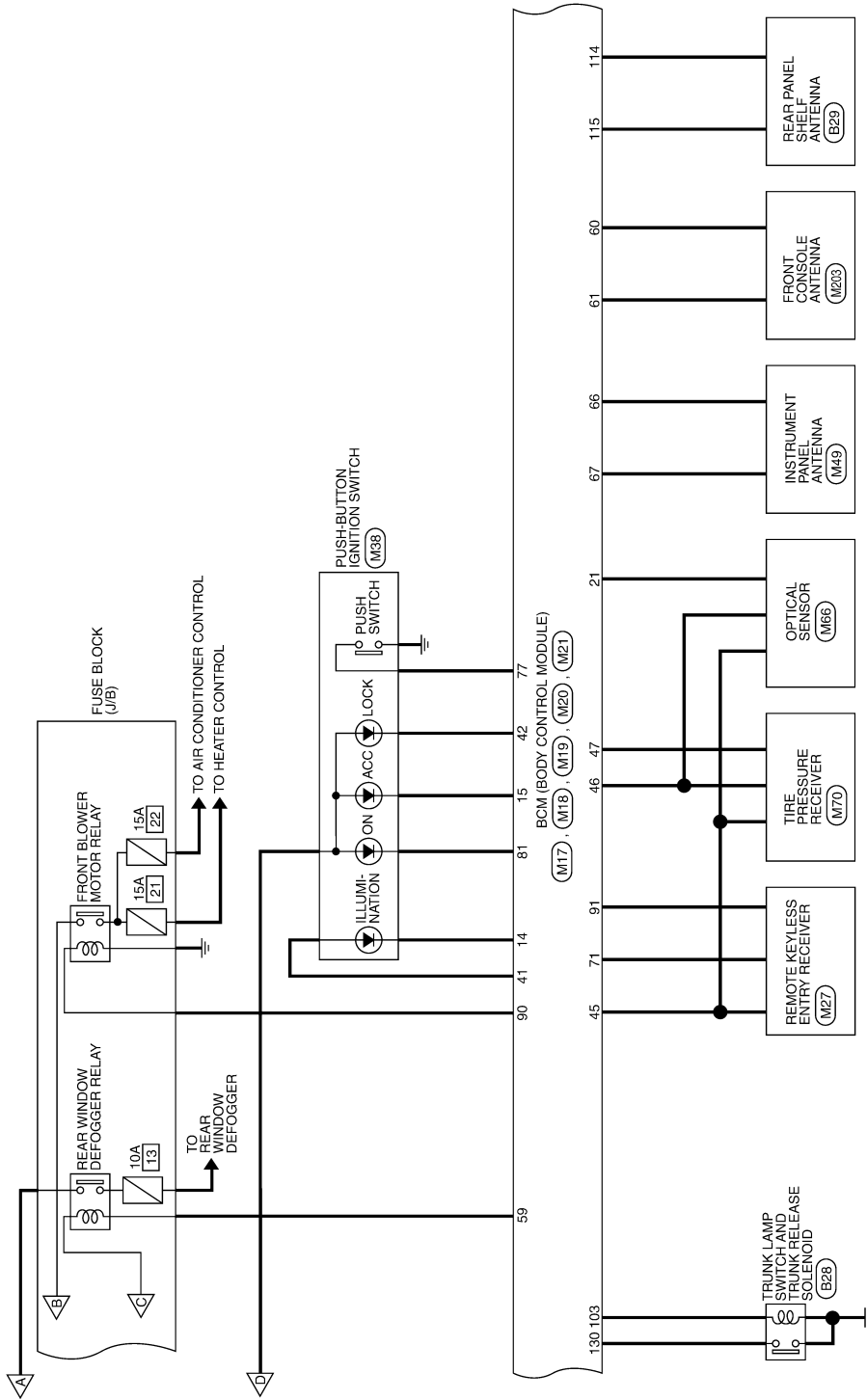
### < ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status	
S/L UNLCK-IPDM	Electronic steering column lock UNLOCK status (IPDM E/R sends via CAN)	OFF	A
	Electronic steering column lock LOCK status (IPDM E/R sends via CAN)	ON	B
S/L RELAY-REQ	Ignition switch OFF or ACC	OFF	C
	Ignition switch ON	ON	
VEH SPEED 1	While driving	Equivalent to speedometer reading	D
VEH SPEED 2	While driving	Equivalent to speedometer reading	
DR DOOR STATE	Front door LH LOCK status	LOCK	E
	Wait with selective UNLOCK operation (5 seconds)	READY	
	Front door LH UNLOCK status	UNLK	
AS DOOR STATE	Front door RH LOCK status	LOCK	F
	Wait with selective UNLOCK operation (5 seconds)	READY	
	Front door RH UNLOCK status	UNLK	
ID OK FLAG	Ignition switch ACC or ON	RESET	G
	Ignition switch OFF	SET	
PRMT ENG STAT	When the hybrid system start is prohibited	RESET	H
	When the hybrid system start is permitted	SET	
PRMT RKE STAT	<b>NOTE:</b> This item is displayed, but cannot be monitored.	RESET	I
KEY SW -SLOT	When Intelligent Key is not inserted into key slot	OFF	J
	When Intelligent Key is inserted into key slot	ON	
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key	K
RKE OPE COUN2	<b>NOTE:</b> This item is displayed, but cannot be monitored.	Operation frequency of Intelligent Key	L
AIR PRESS FL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front LH tire	M
AIR PRESS FR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front RH tire	WCS
AIR PRESS RR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear RH tire	
AIR PRESS RL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear LH tire	O
ID REGST FL1	When ID of front LH tire transmitter is registered (refer to <a href="#">WT-6, "ID Registration Procedure"</a> )	DONE	P
	When ID of front LH tire transmitter is not registered (refer to <a href="#">WT-6, "ID Registration Procedure"</a> )	YET	
ID REGST FR1	When ID of front RH tire transmitter is registered (refer to <a href="#">WT-6, "ID Registration Procedure"</a> )	DONE	P
	When ID of front RH tire transmitter is not registered (refer to <a href="#">WT-6, "ID Registration Procedure"</a> )	YET	
ID REGST RR1	When ID of rear RH tire transmitter is registered (refer to <a href="#">WT-6, "ID Registration Procedure"</a> )	DONE	P
	When ID of rear RH tire transmitter is not registered (refer to <a href="#">WT-6, "ID Registration Procedure"</a> )	YET	
ID REGST RL1	When ID of rear LH tire transmitter is registered (refer to <a href="#">WT-6, "ID Registration Procedure"</a> )	DONE	P
	When ID of rear LH tire transmitter is not registered (refer to <a href="#">WT-6, "ID Registration Procedure"</a> )	YET	



# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >



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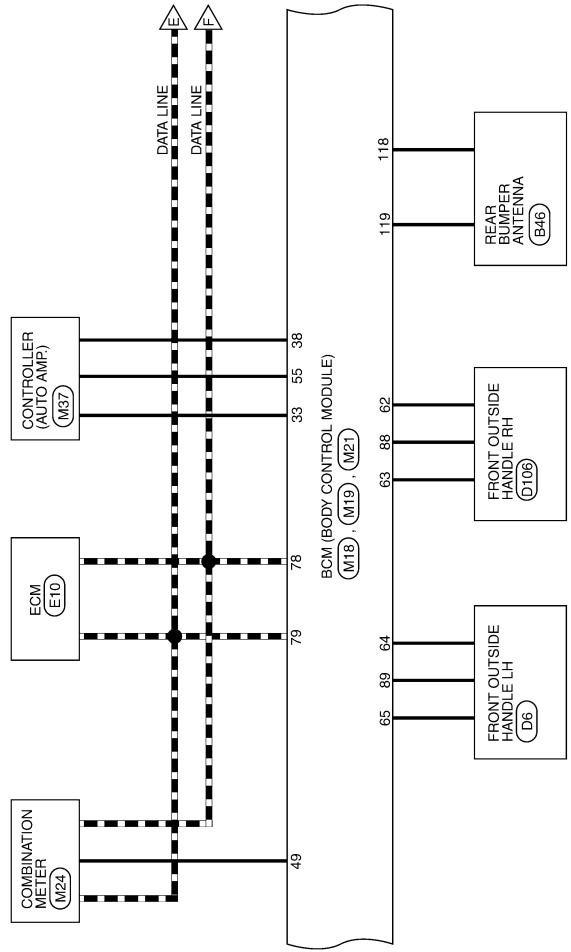
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# BCM (BODY CONTROL MODULE)

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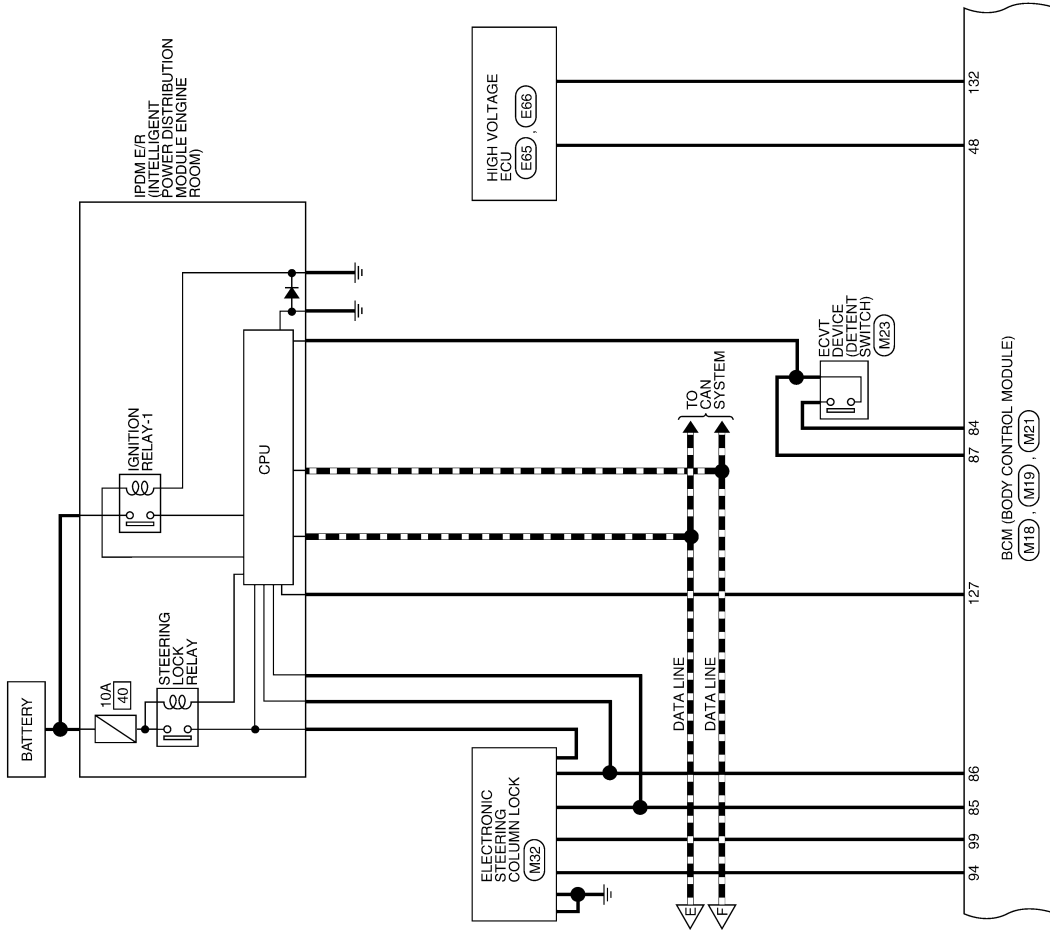


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# BCM (BODY CONTROL MODULE)

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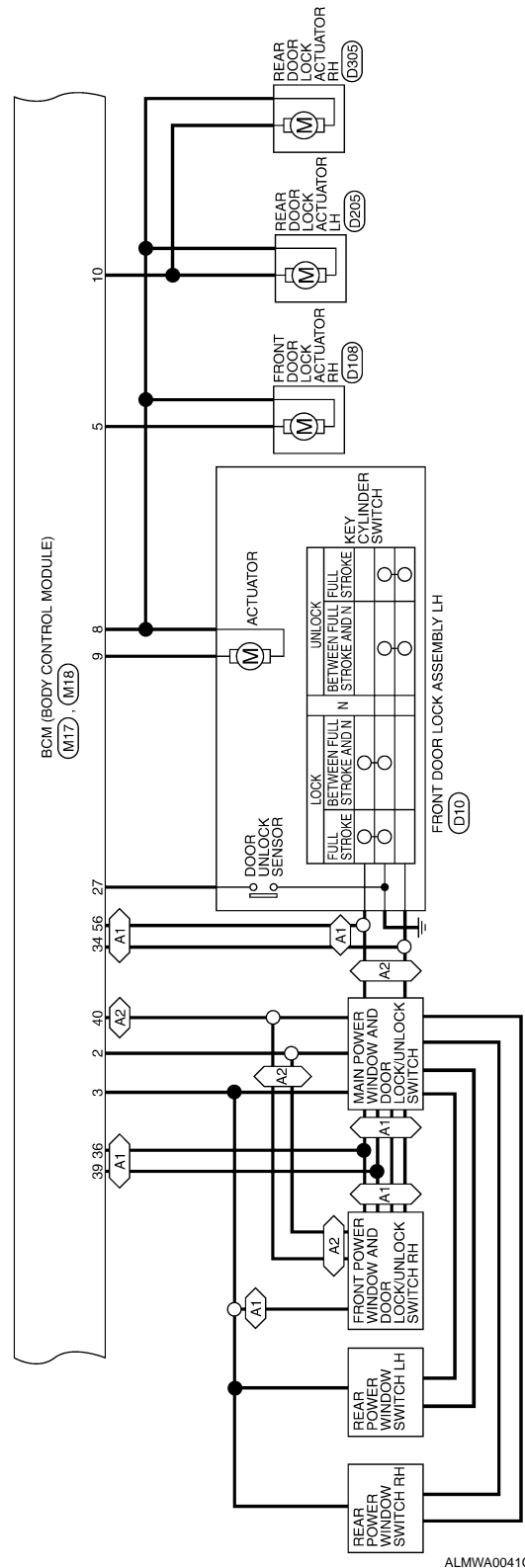
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ALMWA0040GE

# BCM (BODY CONTROL MODULE)

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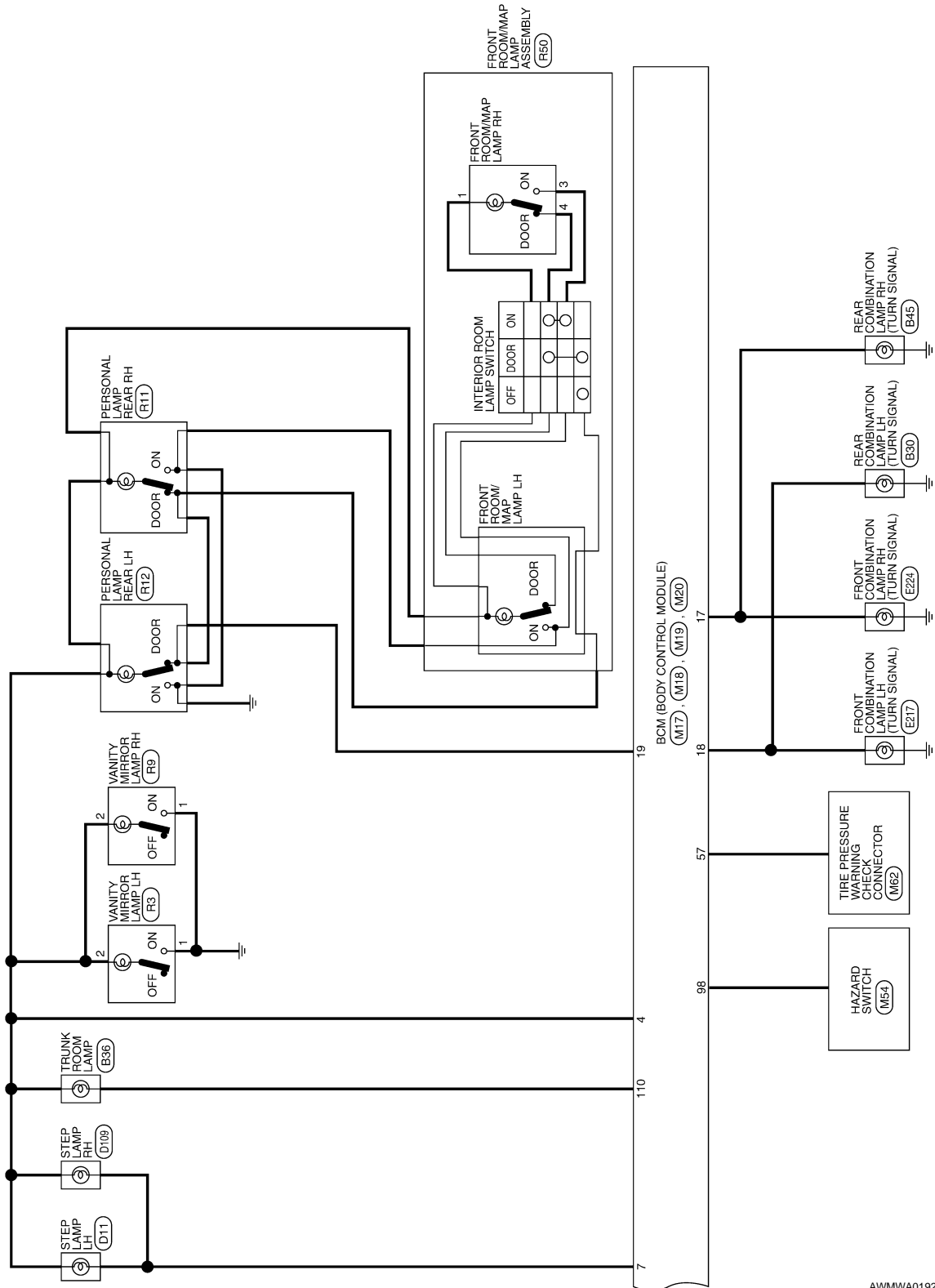
<A1> : WITH LEFT FRONT ONLY POWER WINDOW ANTI-PINCH SYSTEM  
 <A2> : WITH LEFT AND RIGHT FRONT POWER WINDOW ANTI-PINCH SYSTEM



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# BCM (BODY CONTROL MODULE)

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# BCM (BODY CONTROL MODULE)

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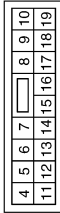
## BCM (BODY CONTROL MODULE) CONNECTORS

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



Terminal No.	Color of Wire	Signal Name
1	W/B	BAT_POWER_F/L
2	R/Y	P/W_POWER_SUPPL Y_PERM
3	L/W	POWER_WINDOW_ POWER_SUPPLY (RAP)

Connector No.	M17
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
4	P/W	ROOM_LAMP_BAT_ SAVER
5	G/Y	CDL_AS
6	-	-
7	R/W	STEP_LAMP_OUTPUT
8	V	CDL_COMMON

Terminal No.	Color of Wire	Signal Name
9	G	CDL_DR/FL
10	G/Y	CDL_FR_RL_BACK
11	Y/R	BAT_BCM_FUSE
12	-	-
13	B	GND1
14	R/Y	LOW_SIDE_PUSH_LE D_OUTPUT
15	Y/L	ACC_LED
16	-	-
17	G/B	FR_FLASHER
18	G/O	FL_FLASHER
19	Y	ROOM_LAMP_OUTPUT

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



Terminal No.	Color of Wire	Signal Name
20	-	-
21	P/B	AUTO_LIGHT_SEN SO R_INPUT1
22	-	-
23	-	-
24	R/W	STOP_LAMP_LOW_SW
25	-	-
26	O/L	STOP_LAMP_HIGH_SW

Terminal No.	Color of Wire	Signal Name
27	G/W	DOOR_LOCK_STATUS
28	-	-
29	Y	FOB_IN_SW_1
30	V/Y	ACC F/B
31	G	IGN F/B
32	R/B	AS_DOOR_SW
33	SB	AIRCON_SW
34	L/R	DOOR_KEY/C_ UNLOCK_SW
35	-	-
36	GR	CENTRAL_LOCK_SW
37	O	TRUNK_CANCEL_SW
38	GR/W	REAR_DEFOGGER_SW
39	GR/R	CENTRAL_UNLOCK_SW
40	Y/G	PW_K-LINE
41	W	PUSH_LED
42	R	S/L_LOCK_LED
43	-	-
44	-	-
45	P	GND_RF2_A/L
46	V/W	A/L_SEN S_KEYLESS_ TUNER_POWER_SUP PLY

Terminal No.	Color of Wire	Signal Name
47	G/O	KEYLESS_TUNER_SI
48	R/B	SHIFT_I/N/P
49	L/O	IMMO_LED
50	LG/B	INPUT_5
51	L/W	INPUT_1
52	G/B	INPUT_2
53	LG/R	INPUT_3
54	G/Y	INPUT_4
55	BR/W	BLOWER_FAN_SW
56	L/B	DOOR_KEY/C_ LOCK_SW
57	W	TPMS_MODE_TRIGG ER_SW
58	SB	DR_DOOR_SW
59	G/R	REAR_DEFOGGER_ RLY

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# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

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



79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60
99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80

Terminal No.	Color of Wire	Signal Name
60	B/R	ROOM_ANT_2_B
61	W/R	ROOM_ANT_2_A

Terminal No.	Color of Wire	Signal Name
82	-	-
83	L	ACC_CONT
84	Y/R	AT_DEVICE_OUT
85	L/O	S/L_CONDITION_1
86	G/R	S/L_CONDITION_2
87	G/B	SHIFT_P
88	P/L	AS_REQUEST_SWITCH
89	B/W	DR_REQUEST_SWITCH
90	Y	IGN2_CONT
91	L/R	RF1_POWER_SUPPLY
92	-	-
93	-	-
94	G/Y	S/L_POWER_SUPPLY_12V
95	R/W	OUTPUT_1
96	P/B	OUTPUT_4
97	R/B	OUTPUT_2
98	G/R	HAZARD_SW
99	L/Y	S/L_K-LINE

Terminal No.	Color of Wire	Signal Name
62	B/Y	AS_DOOR_ANT_B
63	LG	AS_DOOR_ANT_A
64	V	DR_DOOR_ANT_B
65	P	DR_DOOR_ANT_A
66	R	ROOM_ANT_1_B
67	G	ROOM_ANT_1_A
68	G/O	FOB_READER_CLOCK
69	O	FOB_READER_DATA
70	R/B	IGN_ELEC_SIGNAL
71	L/O	RF1_TUNER_SIGNAL
72	-	-
73	-	-
75	R/Y	OUTPUT_5
76	R/G	OUTPUT_3
77	BR	ENG_START_SW
78	P	CAN-L
79	L	CAN-H
80	R/L	FOB_SLOT_ILLUMINATION
81	LG	IGN_ON_LED

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



100	101	102	103	104		
105	106	107	108	109	110	111

Terminal No.	Color of Wire	Signal Name
100	-	-
101	-	-
102	-	-
103	V	CDL_BACK_TRUNK
104	-	-
105	-	-
106	-	-
107	-	-
108	-	-
109	-	-
110	V/W	TRUNK_LAMP_OUTPUT
111	-	-

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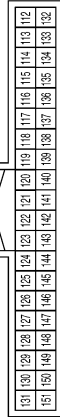
# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal No.	Color of Wire	Signal Name
138	-	-
139	-	-
140	-	-
141	G/R	TRUNK_REQUEST_SW
142	-	-
143	-	-
144	GR	BUZZER
145	-	-
146	-	-
147	L/R	BACK_TRUNK_OPENER
148	R/W	RR_DOOR_SW
149	R/B	RL_DOOR_SW
150	-	-
151	-	-

Terminal No.	Color of Wire	Signal Name
119	BR/W	BACK_DOOR_ANT_A
120	-	-
121	-	-
122	-	-
123	-	-
124	-	-
125	-	-
126	-	-
127	BR/W	IGN_USM_CONT1
128	-	-
129	-	-
130	Y/G	TRUNK_SW
131	-	-
132	R	ST_CONT_USM
133	-	-
134	-	-
135	-	-
136	-	-
137	-	-

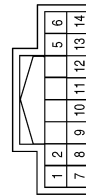
Connector No.	M21
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
112	-	-
113	-	-
114	B	TRUNK_ANT_1_B
115	W	TRUNK_ANT_1_A
116	-	-
117	-	-
118	L/O	BACK_DOOR_ANT_B

Terminal No.	Color of Wire	Signal Name
8	LG/B	OUTPUT_5
9	R/B	INPUT_2
10	P/B	INPUT_4
11	R/W	INPUT_1
12	L/W	OUTPUT_1
13	R/Y	INPUT_5
14	G/B	OUTPUT_2
15	-	-
16	-	-

Connector No.	M28
Connector Name	COMBINATION SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	R/L	WASH_MTR
2	G/Y	OUTPUT_4
3	-	-
4	-	-
5	LG/R	OUTPUT_3
6	B	GND
7	R/G	INPUT_3

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INFOID:000000003304802

## Fail Safe

Display contents of CONSULT	Fail-safe	Cancellation
B2013: ID DISCORD BCM-S/L	Inhibit hybrid system cranking	Erase DTC
B2014: CHAIN OF S/L-BCM	Inhibit hybrid system cranking	Erase DTC

## BCM (BODY CONTROL MODULE)

### < ECU DIAGNOSIS >

Display contents of CONSULT	Fail-safe	Cancellation	
B2190: NATS ANTENNA AMP	Inhibit hybrid system cranking	Erase DTC	A
B2191: DIFFERENCE OF KEY	Inhibit hybrid system cranking	Erase DTC	B
B2192: ID DISCORD BCM-ECM	Inhibit hybrid system cranking	Erase DTC	C
B2193: CHAIN OF BCM-ECM	Inhibit hybrid system cranking	Erase DTC	D
B2195: ANTI-SCANNING	Inhibit hybrid system cranking	Erase DTC	E
B2557: VEHICLE SPEED	Inhibit electronic steering column lock	When normal vehicle speed signals have been received from brake ECU actuator and electric unit (control unit) for 500 ms	F
B2560: STARTER CONT RELAY	Inhibit hybrid system cranking	500 ms after the following CAN signal communication status has become consistent <ul style="list-style-type: none"> <li>• Starter control relay signal</li> <li>• Starter relay status signal</li> </ul>	G
B2562: LOW VOLTAGE	<ul style="list-style-type: none"> <li>• Inhibit hybrid system cranking</li> <li>• Inhibit electronic steering column lock</li> </ul>	100 ms after the power supply voltage increases to more than 8.8 V	H
B2563: HI VOLTAGE	<ul style="list-style-type: none"> <li>• Inhibit hybrid system cranking</li> <li>• Inhibit electronic steering column lock</li> </ul>	500 ms after the power supply voltage decreases to less than 18 V	I
B2601: SHIFT POSITION	Inhibit electronic steering column lock	500 ms after the following signal reception status becomes consistent <ul style="list-style-type: none"> <li>• Selector lever P position switch signal</li> <li>• P range signal (CAN)</li> </ul>	J
B2602: SHIFT POSITION	Inhibit electronic steering column lock	5 seconds after the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> <li>• Ignition switch is in the ON position</li> <li>• Selector lever P position switch signal: Except P position (battery voltage)</li> <li>• Vehicle speed: 4 /h or more</li> </ul>	K
B2603: SHIFT POSI STATUS	Inhibit electronic steering column lock	500 ms after the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> <li>• Ignition switch is in the ON position</li> <li>• Selector lever P position switch signal: Except P position (battery voltage)</li> <li>• Selector lever P/N position signal: Except P and N positions (0 V)</li> </ul>	L
B2604: PNP SW	Inhibit electronic steering column lock	500 ms after any of the following BCM recognition conditions is fulfilled <ul style="list-style-type: none"> <li>• Status 1               <ul style="list-style-type: none"> <li>- Ignition switch is in the ON position</li> <li>- Selector lever P/N position signal: P and N position (battery voltage)</li> </ul> </li> <li>• Status 2               <ul style="list-style-type: none"> <li>- Ignition switch is in the ON position</li> <li>- Selector lever P/N position signal: Except P and N positions (0 V)</li> <li>- P range signal and N range signal (CAN): OFF</li> </ul> </li> </ul>	M

WCS

## BCM (BODY CONTROL MODULE)

### < ECU DIAGNOSIS >

Display contents of CONSULT	Fail-safe	Cancellation
B2605: PNP SW	Inhibit electronic steering column lock	500 ms after any of the following BCM recognition conditions is fulfilled <ul style="list-style-type: none"> <li>• Ignition switch is in the ON position</li> <li>- Power position: IGN</li> <li>- Selector lever P/N position signal: Except P and N positions (0 V)</li> <li>- Interlock/PNP switch signal (CAN): OFF</li> <li>• Status 2</li> <li>- Ignition switch is in the ON position</li> <li>- Selector lever P/N position signal: P or N position (battery voltage)</li> <li>- PNP switch signal (CAN): ON</li> </ul>
B2606: S/L RELAY	Inhibit hybrid system cranking	500 ms after the following CAN signal communication status has become consistent <ul style="list-style-type: none"> <li>• Electronic steering column lock relay signal (Request signal)</li> <li>• Electronic steering column lock relay signal (Condition signal)</li> </ul>
B2607: S/L RELAY	Inhibit hybrid system cranking	500 ms after the following CAN signal communication status has become consistent <ul style="list-style-type: none"> <li>• Electronic steering column lock relay signal (Request signal)</li> <li>• Electronic steering column lock relay signal (Condition signal)</li> </ul>
B2608: STARTER RELAY	Inhibit hybrid system cranking	500 ms after the following signal communication status becomes consistent <ul style="list-style-type: none"> <li>• Starter motor relay control signal</li> <li>• Starter relay status signal (CAN)</li> </ul>
B2609: S/L STATUS	<ul style="list-style-type: none"> <li>• Inhibit hybrid system cranking</li> <li>• Inhibit electronic steering column lock</li> </ul>	When the following electronic steering column lock conditions agree <ul style="list-style-type: none"> <li>• BCM electronic steering column lock control status</li> <li>• Electronic steering column lock condition No. 1 signal status</li> <li>• Electronic steering column lock condition No. 2 signal status</li> </ul>
B260A: IGNITION RELAY	Inhibit hybrid system cranking	500 ms after the following conditions are fulfilled <ul style="list-style-type: none"> <li>• IGN relay (IPDM E/R) control signal: OFF (Battery voltage)</li> <li>• Ignition ON signal (CAN to IPDM E/R): OFF (Request signal)</li> <li>• Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)</li> </ul>
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilled <ul style="list-style-type: none"> <li>• Power position changes to ACC</li> <li>• Receives hybrid system status signal (CAN)</li> </ul>
B2612: S/L STATUS	<ul style="list-style-type: none"> <li>• Inhibit hybrid system cranking</li> <li>• Inhibit electronic steering column lock</li> </ul>	When any of the following conditions is fulfilled <ul style="list-style-type: none"> <li>• Electronic steering column lock unit status signal (CAN) is received normally</li> <li>• The BCM electronic steering column lock control status matches the electronic steering column lock status recognized by the electronic steering column lock unit status signal (CAN from IPDM E/R)</li> </ul>
B2617: STARTER RELAY CIRC	Inhibit hybrid system cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit hybrid system cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B2619: BCM	Inhibit hybrid system cranking	1 second after the electronic steering column lock unit power supply output control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit hybrid system cranking	BCM initialization
B26E1: ENG STATE NO RECIV	Inhibit hybrid system cranking	When any of the following conditions is fulfilled <ul style="list-style-type: none"> <li>• Power position changes to ACC</li> <li>• Receives hybrid system status signal (CAN)</li> </ul>

### DTC Inspection Priority Chart

INFOID:000000003304803

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

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS >

Priority	DTC	A
1	<ul style="list-style-type: none"> <li>• B2562: LOW VOLTAGE</li> <li>• B2563: HI VOLTAGE</li> <li>• B261E: VEHICLE TYPE</li> </ul>	B
2	<ul style="list-style-type: none"> <li>• U1000: CAN COMM CIRCUIT</li> <li>• U1010: CONTROL UNIT (CAN)</li> </ul>	C
3	<ul style="list-style-type: none"> <li>• B2190: NATS ANTENNA AMP</li> <li>• B2191: DIFFERENCE OF KEY</li> <li>• B2192: ID DISCORD BCM-ECM</li> <li>• B2193: CHAIN OF BCM-ECM</li> </ul>	D
4	<ul style="list-style-type: none"> <li>• B2013: ID DISCORD BCM-S/L</li> <li>• B2014: CHAIN OF S/L-BCM</li> <li>• B2553: IGNITION RELAY</li> <li>• B2555: STOP LAMP</li> <li>• B2556: PUSH-BTN IGN SW</li> <li>• B2557: VEHICLE SPEED</li> <li>• B2560: STARTER CONT RELAY</li> <li>• B2601: SHIFT POSITION</li> <li>• B2602: SHIFT POSITION</li> <li>• B2603: SHIFT POSI STATUS</li> <li>• B2604: PNP SW</li> <li>• B2605: PNP SW</li> <li>• B2606: S/L RELAY</li> <li>• B2607: S/L RELAY</li> <li>• B2608: STARTER RELAY</li> <li>• B2609: S/L STATUS</li> <li>• B260A: IGNITION RELAY</li> <li>• B260B: STEERING LOCK UNIT</li> <li>• B260C: STEERING LOCK UNIT</li> <li>• B260D: STEERING LOCK UNIT</li> <li>• B260F: ENG STATE SIG LOST</li> <li>• B2611: ACC RELAY</li> <li>• B2612: S/L STATUS</li> <li>• B2614: ACC RELAY CIRC</li> <li>• B2615: BLOWER RELAY CIRC</li> <li>• B2616: IGN RELAY CIRC</li> <li>• B2617: STARTER RELAY CIRC</li> <li>• B2618: BCM</li> <li>• B2619: BCM</li> <li>• B261A: PUSH-BTN IGN SW</li> <li>• B26E1: ENG STATE NO RECIV</li> <li>• C1729: VHCL SPEED SIG ERR</li> <li>• U0415: VEHICLE SPEED SIG</li> </ul>	E F G H I J K L

WCS

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P

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS >

Priority	DTC
5	<ul style="list-style-type: none"> <li>• C1704: LOW PRESSURE FL</li> <li>• C1705: LOW PRESSURE FR</li> <li>• C1706: LOW PRESSURE RR</li> <li>• C1707: LOW PRESSURE RL</li> <li>• C1708: [NO DATA] FL</li> <li>• C1709: [NO DATA] FR</li> <li>• C1710: [NO DATA] RR</li> <li>• C1711: [NO DATA] RL</li> <li>• C1712: [CHECKSUM ERR] FL</li> <li>• C1713: [CHECKSUM ERR] FR</li> <li>• C1714: [CHECKSUM ERR] RR</li> <li>• C1715: [CHECKSUM ERR] RL</li> <li>• C1716: [PRESSDATA ERR] FL</li> <li>• C1717: [PRESSDATA ERR] FR</li> <li>• C1718: [PRESSDATA ERR] RR</li> <li>• C1719: [PRESSDATA ERR] RL</li> <li>• C1720: [CODE ERR] FL</li> <li>• C1721: [CODE ERR] FR</li> <li>• C1722: [CODE ERR] RR</li> <li>• C1723: [CODE ERR] RL</li> <li>• C1724: [BATT VOLT LOW] FL</li> <li>• C1725: [BATT VOLT LOW] FR</li> <li>• C1726: [BATT VOLT LOW] RR</li> <li>• C1727: [BATT VOLT LOW] RL</li> <li>• C1734: CONTROL UNIT</li> </ul>
6	<ul style="list-style-type: none"> <li>• B2621: INSIDE ANTENNA</li> <li>• B2622: INSIDE ANTENNA</li> <li>• B2623: INSIDE ANTENNA</li> </ul>

## DTC Index

INFOID:000000003304804

### NOTE:

Details of time display

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

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	—	—	—	—
U1000: CAN COMM CIRCUIT	—	—	—	<a href="#">PCS-45</a>
U1010: CONTROL UNIT (CAN)	—	—	—	<a href="#">PCS-46</a>
U0415: VEHICLE SPEED SIG	—	—	—	<a href="#">BCS-38</a>
B2013: ID DISCORD BCM-S/L	×	—	—	<a href="#">SEC-35</a>
B2014: CHAIN OF S/L-BCM	×	—	—	<a href="#">SEC-36</a>
B2190: NATS ANTENNA AMP	×	—	—	<a href="#">SEC-28</a>
B2191: DIFFERENCE OF KEY	×	—	—	<a href="#">SEC-32</a>
B2192: ID DISCORD BCM-ECM	×	—	—	<a href="#">SEC-33</a>
B2193: CHAIN OF BCM-ECM	×	—	—	<a href="#">SEC-34</a>
B2553: IGNITION RELAY	—	—	—	<a href="#">PCS-47</a>
B2555: STOP LAMP	—	—	—	<a href="#">SEC-40</a>

## BCM (BODY CONTROL MODULE)

### < ECU DIAGNOSIS >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page	A
B2556: PUSH-BTN IGN SW	—	×	—	<a href="#">SEC-43</a>	A
B2557: VEHICLE SPEED	×	×	—	<a href="#">SEC-45</a>	B
B2560: STARTER CONT RELAY	×	×	—	<a href="#">SEC-46</a>	B
B2562: LOW VOLTAGE	—	—	—	<a href="#">BCS-39</a>	C
B2563: HI VOLTAGE	×	×	—	<a href="#">BCS-40</a>	C
B2601: SHIFT POSITION	×	×	—	<a href="#">SEC-47</a>	D
B2602: SHIFT POSITION	×	×	—	<a href="#">SEC-51</a>	D
B2603: SHIFT POSI STATUS	×	×	—	<a href="#">SEC-54</a>	D
B2604: PNP SW	×	×	—	<a href="#">SEC-58</a>	E
B2607: S/L RELAY	×	×	—	<a href="#">SEC-60</a>	E
B2608: STARTER RELAY	×	×	—	<a href="#">SEC-62</a>	F
B2609: S/L STATUS	×	×	—	<a href="#">SEC-64</a>	F
B260A: IGNITION RELAY	×	×	—	<a href="#">PCS-49</a>	F
B260B: STEERING LOCK UNIT	—	×	—	<a href="#">SEC-69</a>	G
B260C: STEERING LOCK UNIT	—	×	—	<a href="#">SEC-70</a>	G
B260D: STEERING LOCK UNIT	—	×	—	<a href="#">SEC-71</a>	G
B260F: ENG STATE SIG LOST	×	×	—	<a href="#">SEC-72</a>	H
B2611: ACC RELAY	—	—	—	<a href="#">PCS-50</a>	H
B2612: S/L STATUS	×	×	—	<a href="#">SEC-73</a>	I
B2614: ACC RELAY CIRC	—	×	—	<a href="#">PCS-52</a>	I
B2615: BLOWER RELAY CIRC	—	×	—	<a href="#">PCS-55</a>	J
B2616: IGN RELAY CIRC	—	×	—	<a href="#">PCS-58</a>	J
B2617: STARTER RELAY CIRC	×	×	—	<a href="#">SEC-78</a>	J
B2618: BCM	×	×	—	<a href="#">PCS-61</a>	K
B2619: BCM	×	×	—	<a href="#">SEC-80</a>	K
B261A: PUSH-BTN IGN SW	—	×	—	<a href="#">SEC-81</a>	K
B261E: VEHICLE TYPE	×	× (Turn ON for 15 seconds)	—	<a href="#">SEC-84</a>	L
B2621: INSIDE ANTENNA	—	—	—	<a href="#">DLK-42</a>	L
B2622: INSIDE ANTENNA	—	—	—	<a href="#">DLK-45</a>	M
B2623: INSIDE ANTENNA	—	—	—	<a href="#">DLK-48</a>	M
C1704: LOW PRESSURE FL	—	—	×	<a href="#">WT-8</a>	WCS
C1705: LOW PRESSURE FR	—	—	×	<a href="#">WT-8</a>	WCS
C1706: LOW PRESSURE RR	—	—	×	<a href="#">WT-8</a>	WCS
C1707: LOW PRESSURE RL	—	—	×	<a href="#">WT-8</a>	WCS
C1708: [NO DATA] FL	—	—	×	<a href="#">WT-13</a>	O
C1709: [NO DATA] FR	—	—	×	<a href="#">WT-13</a>	O
C1710: [NO DATA] RR	—	—	×	<a href="#">WT-13</a>	P
C1711: [NO DATA] RL	—	—	×	<a href="#">WT-13</a>	P
C1712: [CHECKSUM ERR] FL	—	—	×	<a href="#">WT-14</a>	P
C1713: [CHECKSUM ERR] FR	—	—	×	<a href="#">WT-14</a>	P
C1714: [CHECKSUM ERR] RR	—	—	×	<a href="#">WT-14</a>	P
C1715: [CHECKSUM ERR] RL	—	—	×	<a href="#">WT-14</a>	P

## BCM (BODY CONTROL MODULE)

### < ECU DIAGNOSIS >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1716: [PRESSDATA ERR] FL	—	—	×	<a href="#">WT-15</a>
C1717: [PRESSDATA ERR] FR	—	—	×	<a href="#">WT-15</a>
C1718: [PRESSDATA ERR] RR	—	—	×	<a href="#">WT-15</a>
C1719: [PRESSDATA ERR] RL	—	—	×	<a href="#">WT-15</a>
C1720: [CODE ERR] FL	—	—	×	<a href="#">WT-14</a>
C1721: [CODE ERR] FR	—	—	×	<a href="#">WT-14</a>
C1722: [CODE ERR] RR	—	—	×	<a href="#">WT-14</a>
C1723: [CODE ERR] RL	—	—	×	<a href="#">WT-14</a>
C1724: [BATT VOLT LOW] FL	—	—	×	<a href="#">WT-14</a>
C1725: [BATT VOLT LOW] FR	—	—	×	<a href="#">WT-14</a>
C1726: [BATT VOLT LOW] RR	—	—	×	<a href="#">WT-14</a>
C1727: [BATT VOLT LOW] RL	—	—	×	<a href="#">WT-14</a>
C1729: VHCL SPEED SIG ERR	—	—	×	<a href="#">WT-16</a>
C1734: CONTROL UNIT	—	—	×	<a href="#">WT-17, "Diagnosis Procedure"</a>



# THE PARKING BRAKE RELEASE WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

## SYMPTOM DIAGNOSIS

### THE PARKING BRAKE RELEASE WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

#### Description

INFOID:000000003072200

- The parking brake warning buzzer sounds continuously during vehicle travel though the parking brake is released
- The parking brake warning buzzer does not sound at all even though driving the vehicle with the parking brake applied.

#### Diagnosis Procedure

INFOID:000000003072201

#### 1. CHECK PARKING BRAKE WARNING LAMP

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

**Parking brake ON** : ON  
**Parking brake OFF** : OFF

Is the inspection result normal?

- YES >> Replace the combination meter. Refer to [MWI-135, "Removal and Installation"](#).  
NO >> GO TO 2

#### 2. CHECK PARKING BRAKE SWITCH SIGNAL CIRCUIT

Perform inspection of the parking brake switch signal circuit. Refer to [MWI-46, "Diagnosis Procedure"](#).

Is the inspection result normal?

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

#### 3. CHECK PARKING BRAKE SWITCH UNIT

Perform a unit inspection for the parking brake switch. Refer to [MWI-46, "Component Inspection"](#).

Is the inspection result normal?

- YES >> Replace the combination meter. Refer to [MWI-135, "Removal and Installation"](#).  
NO >> Replace the parking brake switch.

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WCS

# THE LIGHT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

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## THE LIGHT REMINDER WARNING DOES NOT SOUND

### Description

INFOID:000000003072202

Light reminder warning does not sound even though headlamp is illuminated.

### Diagnosis Procedure

INFOID:000000003072203

#### 1.CHECK COMBINATION SWITCH (LIGHT SWITCH) OPERATION

---

Check that the headlamps operate normally by operating the combination switch (light switch).

Do they operate normally?

YES >> GO TO 2

NO >> Refer to [EXL-4, "Work Flow"](#).

#### 2.CHECK FRONT DOOR SWITCH LH SIGNAL CIRCUIT

---

Perform inspection of the front door switch LH signal circuit. Refer to [DLK-52, "Description"](#).

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair harness or connector.

#### 3.CHECK FRONT DOOR SWITCH LH

---

Perform a unit inspection for the front door switch LH. Refer to [DLK-54, "Component Inspection"](#).

Is the inspection result normal?

YES >> Replace the BCM. Refer to [BCS-85, "Removal and Installation"](#).

NO >> Replace the front door switch LH.

# THE SEAT BELT WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

## THE SEAT BELT WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

### Description

INFOID:000000003072204

- Seat belt warning does not sound even though driver seat belt is not fastened.
- Seat belt warning sounds even though driver seat belt is fastened.

### Diagnosis Procedure

INFOID:000000003072205

#### 1. CHECK WARNING CHIME OPERATION

1. With key removed from key switch and the front door LH open, turn lighting switch to 1st or 2nd position.
2. Return lighting switch to off position, and insert key into key switch.

Does warning chime sound for both steps?

YES >> GO TO 2

NO >> Replace combination meter. Refer to [MWI-135. "Removal and Installation"](#).

#### 2. CHECK SEAT BELT WARNING LAMP

1. Turn ignition switch ON.
2. Check the operation of the seat belt warning lamp in the combination meter.

**Seat belt fastened** : OFF

**Seat belt not fastened** : ON

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-85. "Removal and Installation"](#).

NO >> GO TO 3

#### 3. CHECK SEAT BELT BUCKLE SWITCH CIRCUIT

Perform inspection of the seat belt buckle switch circuit. Refer to [WCS-18. "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair harness or connector.

#### 4. CHECK SEAT BELT BUCKLE SWITCH UNIT

Perform a unit inspection for the seat belt buckle switch. Refer to [WCS-19. "Component Inspection"](#).

Is the inspection result normal?

YES >> Replace the combination meter. Refer to [MWI-135. "Removal and Installation"](#).

NO >> Replace the seat belt buckle switch LH.

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# PRECAUTIONS

< PRECAUTION >

## PRECAUTION

### PRECAUTIONS

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

INFOID:000000003072206

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

**WARNING:**

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