

# SECTION **WCS**

## WARNING CHIME SYSTEM

### CONTENTS

<b>BASIC INSPECTION</b>	3	PARKING BRAKE RELEASE WARNING CHIME	F
: System Description	11	: System Description	11
<b>DIAGNOSIS AND REPAIR WORKFLOW</b>	3	PARKING BRAKE RELEASE WARNING CHIME	G
Work Flow	3	: Component Parts Location	12
<b>SYSTEM DESCRIPTION</b>	5	PARKING BRAKE RELEASE WARNING CHIME	G
: Component Description	12	: Component Description	12
<b>WARNING CHIME SYSTEM</b>	5	<b>DIAGNOSIS SYSTEM (UNIFIED METER AND</b>	H
<b>WARNING CHIME SYSTEM</b>	5	<b>A/C AMP.)</b>	13
WARNING CHIME SYSTEM : System Diagram	5	CONSULT Function (METER/M&A)	13
WARNING CHIME SYSTEM : System Description	5	<b>DIAGNOSIS SYSTEM (BCM)</b>	I
WARNING CHIME SYSTEM : Component Parts	5	<b>COMMON ITEM</b>	J
Location	6	COMMON ITEM : CONSULT Function (BCM -	J
WARNING CHIME SYSTEM : Component De-	6	COMMON ITEM)	17
scription	6	<b>BUZZER</b>	K
<b>LIGHT REMINDER WARNING CHIME</b>	7	BUZZER : CONSULT Function (BCM - BUZZER)	18
LIGHT REMINDER WARNING CHIME : System	7	<b>DTC/CIRCUIT DIAGNOSIS</b>	L
Diagram	7	<b>POWER SUPPLY AND GROUND CIRCUIT</b>	L
LIGHT REMINDER WARNING CHIME : System	7	<b>COMBINATION METER</b>	M
Description	7	COMBINATION METER : Diagnosis Procedure	20
LIGHT REMINDER WARNING CHIME : Compo-	8	<b>UNIFIED METER AND A/C AMP.</b>	M
nent Parts Location	8	UNIFIED METER AND A/C AMP. : Diagnosis Pro-	20
LIGHT REMINDER WARNING CHIME : Compo-	8	cedure	20
nent Description	8	<b>BCM (BODY CONTROL MODULE)</b>	O
<b>SEAT BELT WARNING CHIME</b>	8	BCM (BODY CONTROL MODULE) : Diagnosis	O
SEAT BELT WARNING CHIME : System Diagram	9	Procedure	21
SEAT BELT WARNING CHIME : System Descrip-	9	<b>METER BUZZER CIRCUIT</b>	P
tion	9	Description	23
SEAT BELT WARNING CHIME : Component	9	Component Function Check	23
Parts Location	10	Diagnosis Procedure	23
SEAT BELT WARNING CHIME : Component De-	10	<b>SEAT BELT BUCKLE SWITCH SIGNAL CIR-</b>	P
scription	10	<b>CUIT</b>	24
<b>PARKING BRAKE RELEASE WARNING CHIME</b>	10	Description	24
PARKING BRAKE RELEASE WARNING CHIME	11		
: System Diagram	11		

WCS

Component Function Check .....	24	<b>SYMPTOM DIAGNOSIS .....</b>	<b>109</b>
Diagnosis Procedure .....	24		
Component Inspection .....	25		
<b>WARNING CHIME SYSTEM .....</b>	<b>26</b>	<b>THE PARKING BRAKE RELEASE WARNING CONTINUES SOUNDING, OR DOES NOT SOUND .....</b>	<b>109</b>
Wiring Diagram - WARNING CHIME - .....	26	Description .....	109
<b>ECU DIAGNOSIS INFORMATION .....</b>	<b>31</b>	Diagnosis Procedure .....	109
<b>COMBINATION METER .....</b>	<b>31</b>	<b>THE LIGHT REMINDER WARNING DOES NOT SOUND .....</b>	<b>110</b>
Reference Value .....	31	Description .....	110
Wiring Diagram - METER - .....	34	Diagnosis Procedure .....	110
Fail-safe .....	44		
DTC Index .....	45		
<b>UNIFIED METER AND A/C AMP. .....</b>	<b>46</b>	<b>THE SEAT BELT WARNING CONTINUES SOUNDING, OR DOES NOT SOUND .....</b>	<b>111</b>
Reference Value .....	46	Description .....	111
Wiring Diagram - METER - .....	54	Diagnosis Procedure .....	111
Fail-safe .....	64		
DTC Index .....	65		
<b>BCM (BODY CONTROL MODULE) .....</b>	<b>67</b>	<b>PRECAUTION .....</b>	<b>112</b>
Reference Value .....	67		
Wiring Diagram - BCM - .....	91	<b>PRECAUTIONS .....</b>	<b>112</b>
Fail-safe .....	104	Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TEN- SIONER" .....	112
DTC Inspection Priority Chart .....	105	Precautions for Removing Battery Terminal .....	112
DTC Index .....	106		

# DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

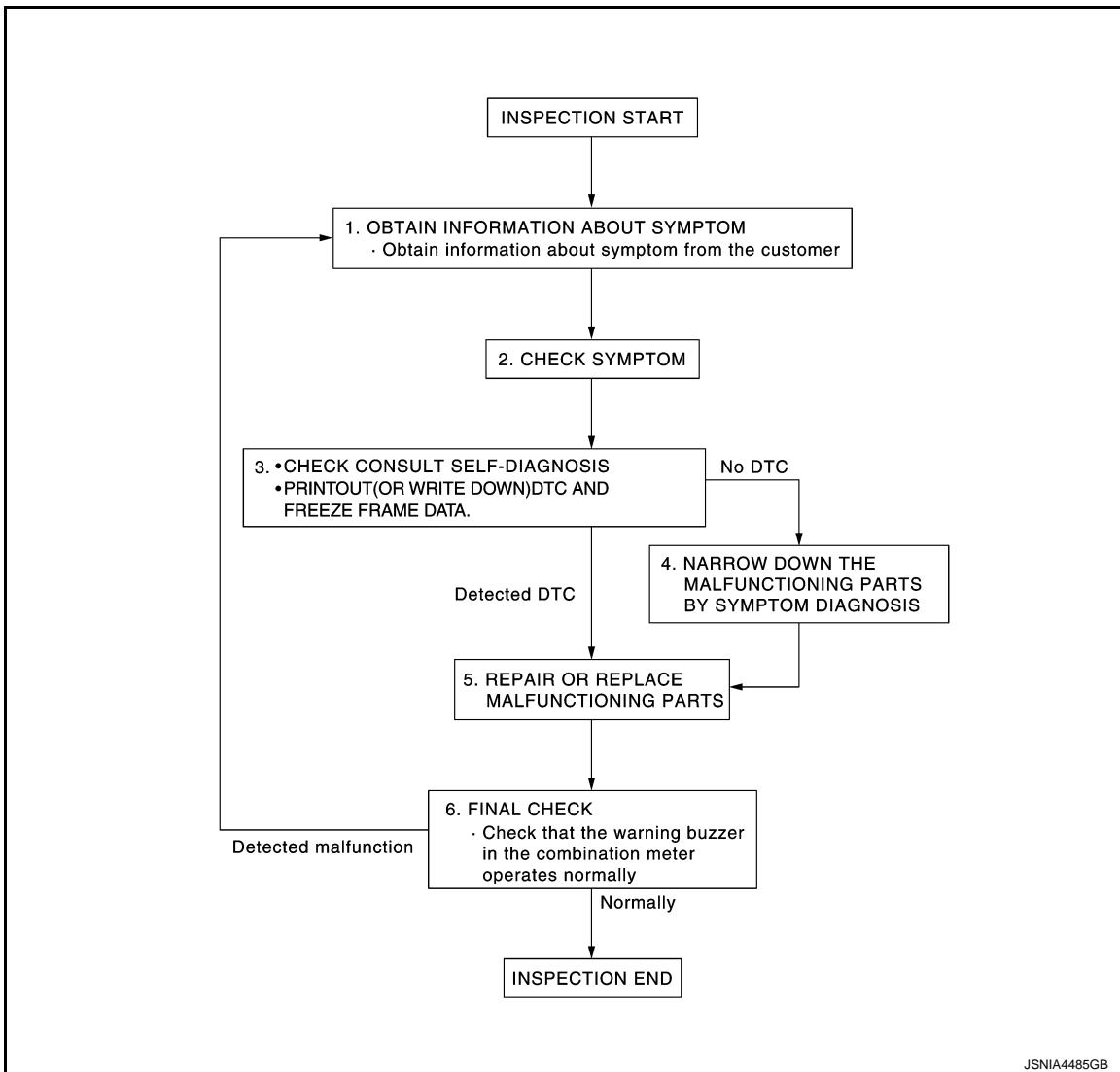
## BASIC INSPECTION

### DIAGNOSIS AND REPAIR WORKFLOW

#### Work Flow

INFOID:0000000010990684

#### OVERALL SEQUENCE



JSNIA4485GB

#### DETAILED FLOW

##### 1. OBTAIN INFORMATION ABOUT SYMPTOM

WCS

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 that any other malfunctions are present.

>> GO TO 3.

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

1. Connect CONSULT and perform self-diagnosis. Refer to MWI-103, "DTC Index".

A

B

C

D

E

F

G

H

I

J

K

L

M

O

P

# DIAGNOSIS AND REPAIR WORKFLOW

## < BASIC INSPECTION >

2. When DTC is detected, follow the instructions below:
  - Record DTC and Freeze Frame Data.

Are self-diagnosis results normal?

- YES    >> GO TO 4.  
NO     >> GO TO 5.

## 4. NARROW DOWN MALFUNCTIONING PARTS BY SYMPTOM DIAGNOSIS

Perform symptom diagnosis and narrow down the malfunctioning parts.

>> GO TO 5.

## 5. REPAIR OR REPLACE MALFUNCTIONING PARTS

Repair or replace malfunctioning parts.

**NOTE:**

If DTC is displayed, erase DTC after repair or replace malfunctioning parts.

>> GO TO 6.

## 6. FINAL CHECK

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

Does it operate normally?

- YES    >> INSPECTION END  
NO     >> GO TO 1.

# WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

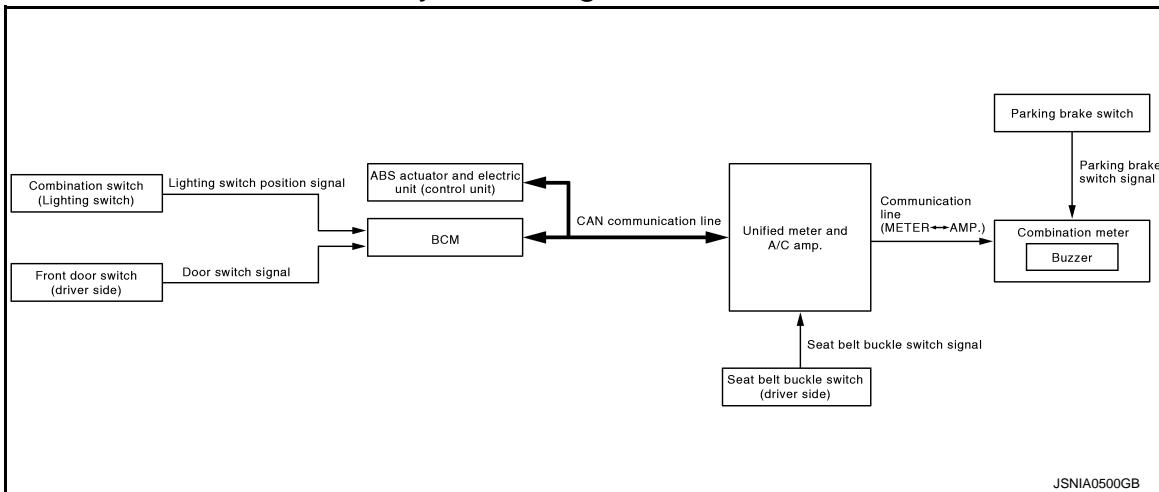
## SYSTEM DESCRIPTION

### WARNING CHIME SYSTEM

### WARNING CHIME SYSTEM

### WARNING CHIME SYSTEM : System Diagram

INFOID:0000000010990685

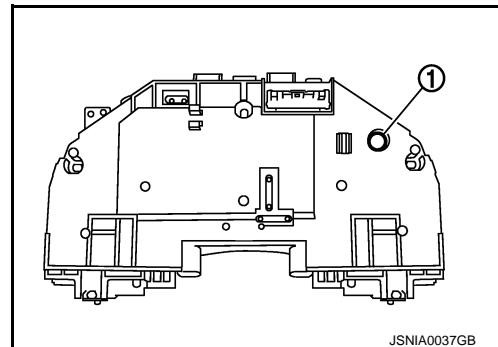


### WARNING CHIME SYSTEM : System Description

INFOID:0000000010990686

#### COMBINATION METER

- The buzzer (1) for warning chime system is installed in the combination meter.
- The buzzer sounds when the combination meter receives buzzer output signal from each unit through unified meter and A/C amp.



#### UNIFIED METER AND A/C AMP.

The unified meter and A/C amp. transmits the buzzer output signal received from BCM with CAN communication line to the combination meter.

#### BCM

BCM receives signals from various units and transmits a buzzer output signal to the unified meter and A/C amp. 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

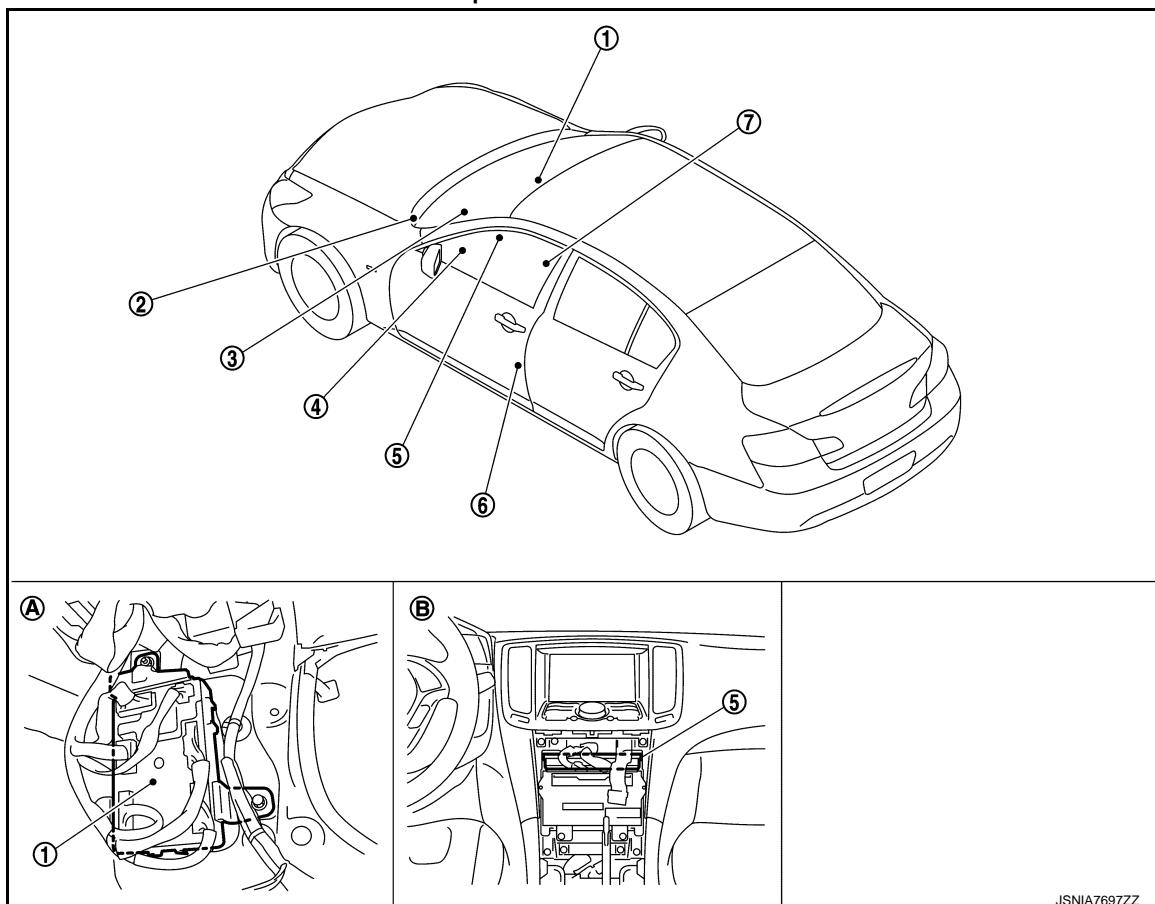
A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
WCS  
O  
P

# WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

## WARNING CHIME SYSTEM : Component Parts Location

INFOID:0000000010990687



JSNIA7697ZZ

- |  |                               |                                    |
|--|-------------------------------|------------------------------------|
| 1. BCM                                     | 2. Parking brake switch       | 3. Combination meter               |
| 4. Combination switch<br>(Lighting switch) | 5. Unified meter and A/C amp. | 6. Front door switch (driver side) |
| 7. Seat belt buckle switch                 |                               |                                    |
| A. Dash side lower (passenger side)        | B. Behind cluster lid C       |                                    |

## WARNING CHIME SYSTEM : Component Description

INFOID:0000000010990688

Unit	Description
Combination meter	<ul style="list-style-type: none"> <li>Receives a buzzer output signal from the unified meter and A/C amp. and sounds the buzzer.</li> <li>Judges whether the parking brake is released from the vehicle speed signal received from the unified meter and A/C amp. with CAN communication line and the parking brake switch signal from the parking brake switch, and sounds the buzzer if necessary.</li> </ul>
Unified meter and A/C amp.	<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 with CAN communication line.</li> <li>Receives a buzzer output signal from BCM with CAN communication line and transmits it to the combination meter by means of communication line.</li> </ul>
BCM	Transmits signals provided by various units to the unified meter and A/C amp. with CAN communication line.
ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal to BCM with CAN communication line.
Seat belt buckle switch (driver side)	Transmits a seat belt buckle switch signal to the unified meter and A/C amp.
Combination switch (Lighting switch)	Transmits the lighting switch position signal to BCM.

# WARNING CHIME SYSTEM

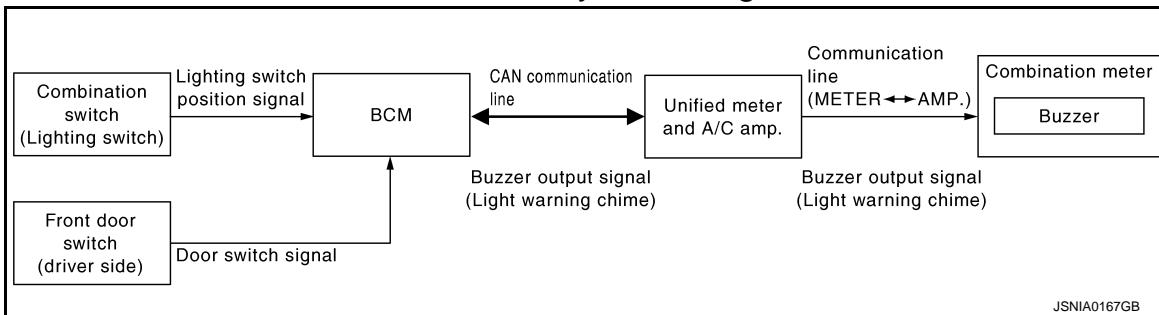
## < SYSTEM DESCRIPTION >

Unit	Description
Front door switch (driver side)	Transmits the door switch signal to BCM.
Parking brake switch	Refer to <a href="#">MWI-62, "Description"</a> .

## LIGHT REMINDER WARNING CHIME

### LIGHT REMINDER WARNING CHIME : System Diagram

INFOID:0000000010990689



### LIGHT REMINDER WARNING CHIME : System Description

INFOID:0000000010990690

#### DESCRIPTION

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

- BCM detects ignition switch in OFF or ACC position, front door switch (driver side) ON, and lighting switch in 1ST or 2ND position. And then transmits buzzer output signal (light reminder warning chime) to unified meter and A/C amp. with CAN communication line.
- Unified meter and A/C amp. transmits buzzer output signal (light reminder warning chime) to combination meter with 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 (driver side) 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 (driver side) is OFF

A

B

C

D

E

F

G

H

I

J

K

L

M

WCS

O

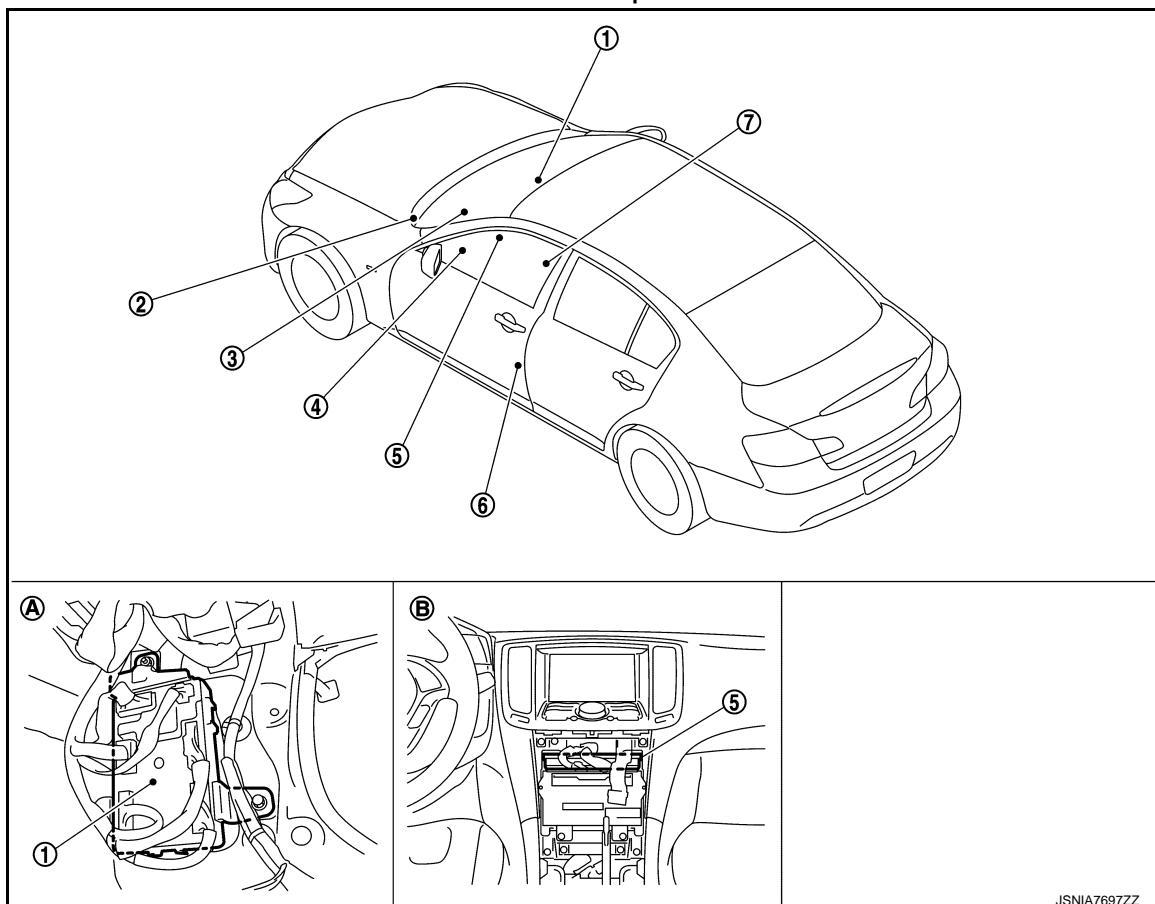
P

## WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

LIGHT REMINDER WARNING CHIME : Component Parts Location

INFOID:000000011400157



- |  |                               |                                    |
|--|-------------------------------|------------------------------------|
| 1. BCM                                     | 2. Parking brake switch       | 3. Combination meter               |
| 4. Combination switch<br>(Lighting switch) | 5. Unified meter and A/C amp. | 6. Front door switch (driver side) |
| 7. Seat belt buckle switch                 |                               |                                    |
| A. Dash side lower (passenger side)        | B. Behind cluster lid C       |                                    |

LIGHT REMINDER WARNING CHIME : Component Description

INFOID:000000010990692

Unit	Description
Combination meter	Receives a buzzer output signal from the unified meter and A/C amp. and sounds the buzzer.
Unified meter and A/C amp.	Receives a buzzer output signal from BCM via CAN communication line and transmits it to the combination meter by means of communication line.
BCM	Judges the light warning conditions from the signals provided by various switches and transmits a buzzer output signal to the unified meter and A/C amp. via CAN communication line if necessary.
Combination switch (Lighting switch)	Transmits the lighting switch position signal to BCM.
Front door switch (driver side)	Transmits the door switch signal to BCM.

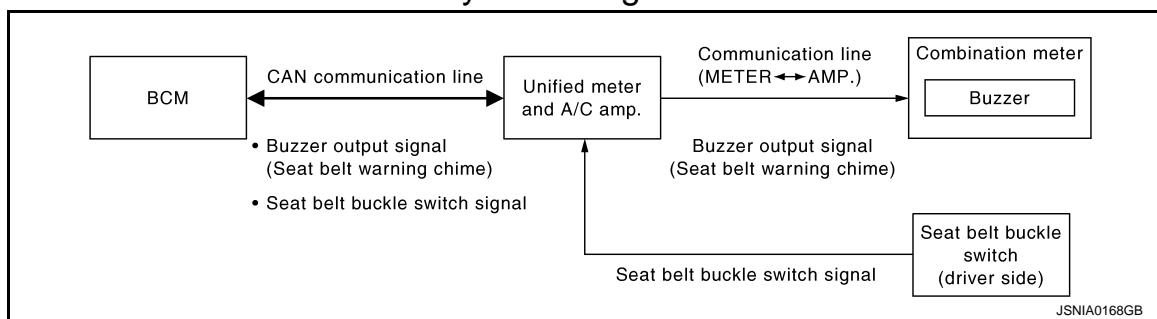
SEAT BELT WARNING CHIME

# WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

## SEAT BELT WARNING CHIME : System Diagram

INFOID:000000010990693



## SEAT BELT WARNING CHIME : System Description

INFOID:000000010990694

### 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 unified meter and A/C amp. with CAN communication line.
- BCM detects ignition switch turned ON and seat belt buckle switch (driver side) ON. And then transmits buzzer output signal (seat belt warning chime) to unified meter and A/C amp. with CAN communication line.
- Unified meter and A/C amp. transmits buzzer output signal (seat belt warning chime) to combination meter with 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 (driver side) is ON (driver seat belt unfastened)

### WARNING CANCEL CONDITIONS

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

- Ignition switch OFF
- Seat buckle switch (driver side) is OFF (driver seat belt fastened)

A  
B  
C  
D

E  
F  
G

H  
I  
J

K  
L  
M

WCS

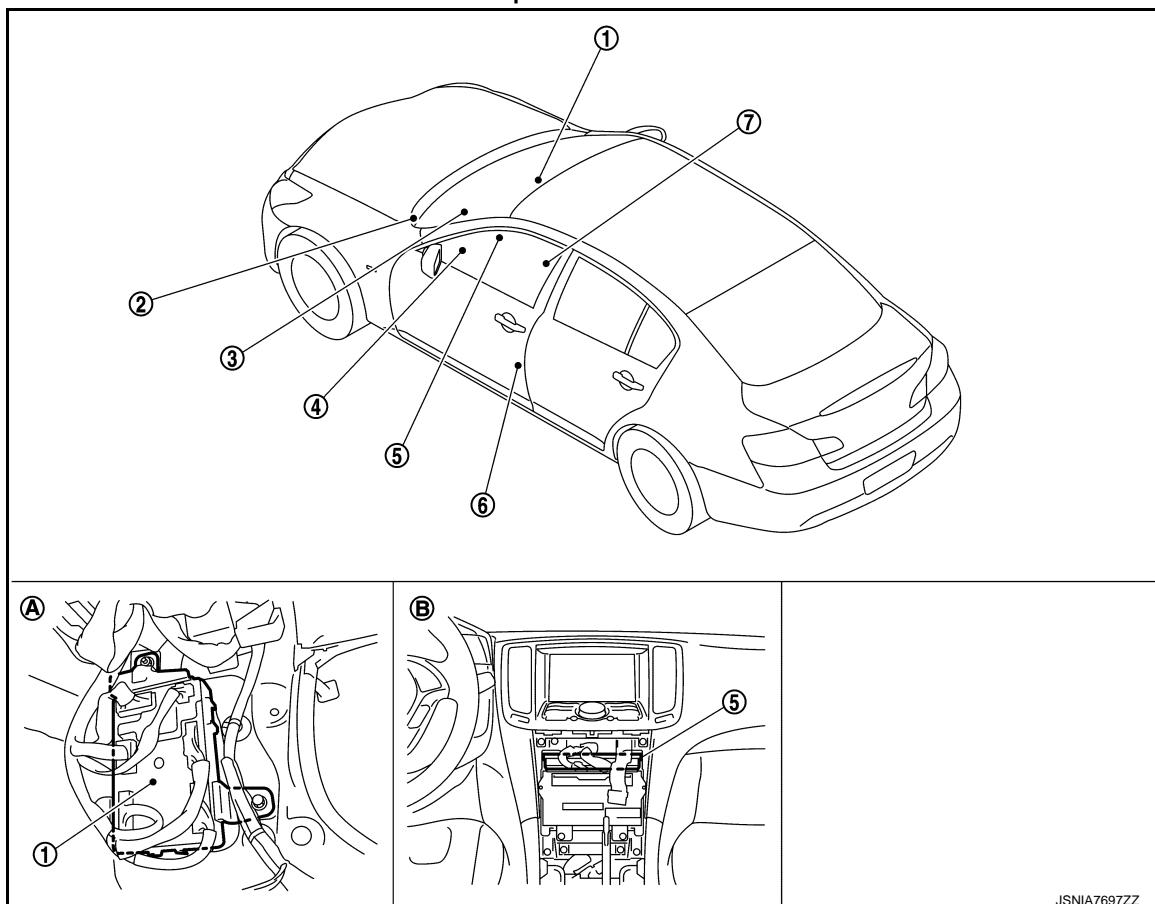
O  
P

# WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

## SEAT BELT WARNING CHIME : Component Parts Location

INFOID:0000000011400158



- |  |                               |                                    |
|--|-------------------------------|------------------------------------|
| 1. BCM                                     | 2. Parking brake switch       | 3. Combination meter               |
| 4. Combination switch<br>(Lighting switch) | 5. Unified meter and A/C amp. | 6. Front door switch (driver side) |
| 7. Seat belt buckle switch                 |                               |                                    |
| A. Dash side lower (passenger side)        | B. Behind cluster lid C       |                                    |

## SEAT BELT WARNING CHIME : Component Description

INFOID:0000000010990696

Unit	Description
Combination meter	Receives a buzzer output signal from the unified meter and A/C amp. and sounds the buzzer.
Unified meter and A/C amp.	<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 transmits it to the combination meter by means of communication line.</li></ul>
BCM	Judges the seat belt warning condition from the seat belt buckle switch signal received from the unified meter and A/C amp. and transmits a buzzer output signal to the unified meter and A/C amp via CAN communication line if necessary.
Seat belt buckle switch (driver side)	Refer to <a href="#">WCS-24. "Description".</a>

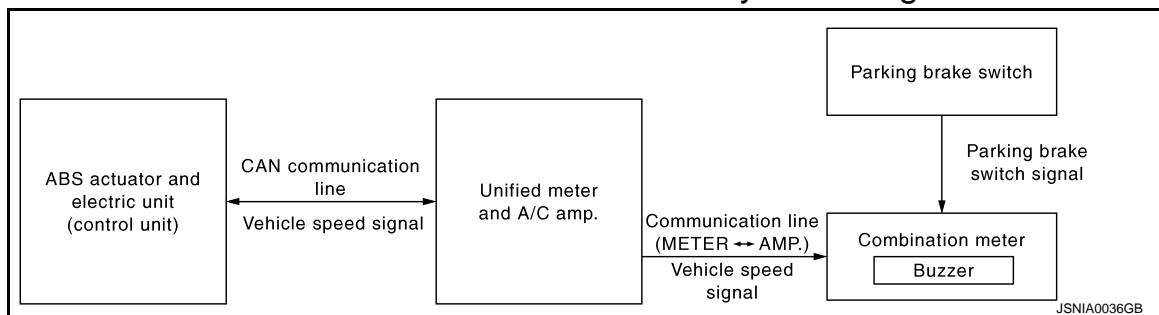
## PARKING BRAKE RELEASE WARNING CHIME

# WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

## PARKING BRAKE RELEASE WARNING CHIME : System Diagram

INFOID:0000000010990697



## PARKING BRAKE RELEASE WARNING CHIME : System Description

INFOID:0000000010990698

### DESCRIPTION

- The unified meter and A/C amp. receives the vehicle speed signal from the ABS actuator and electric unit (control unit) via CAN communication line and transmits it to the combination meter by means of communication line.
- The combination meter judges whether the parking brake is released from the vehicle speed signal received from the unified meter and A/C amp. and 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 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

A

B

C

D

E

F

G

H

I

J

K

L

M

WCS

O

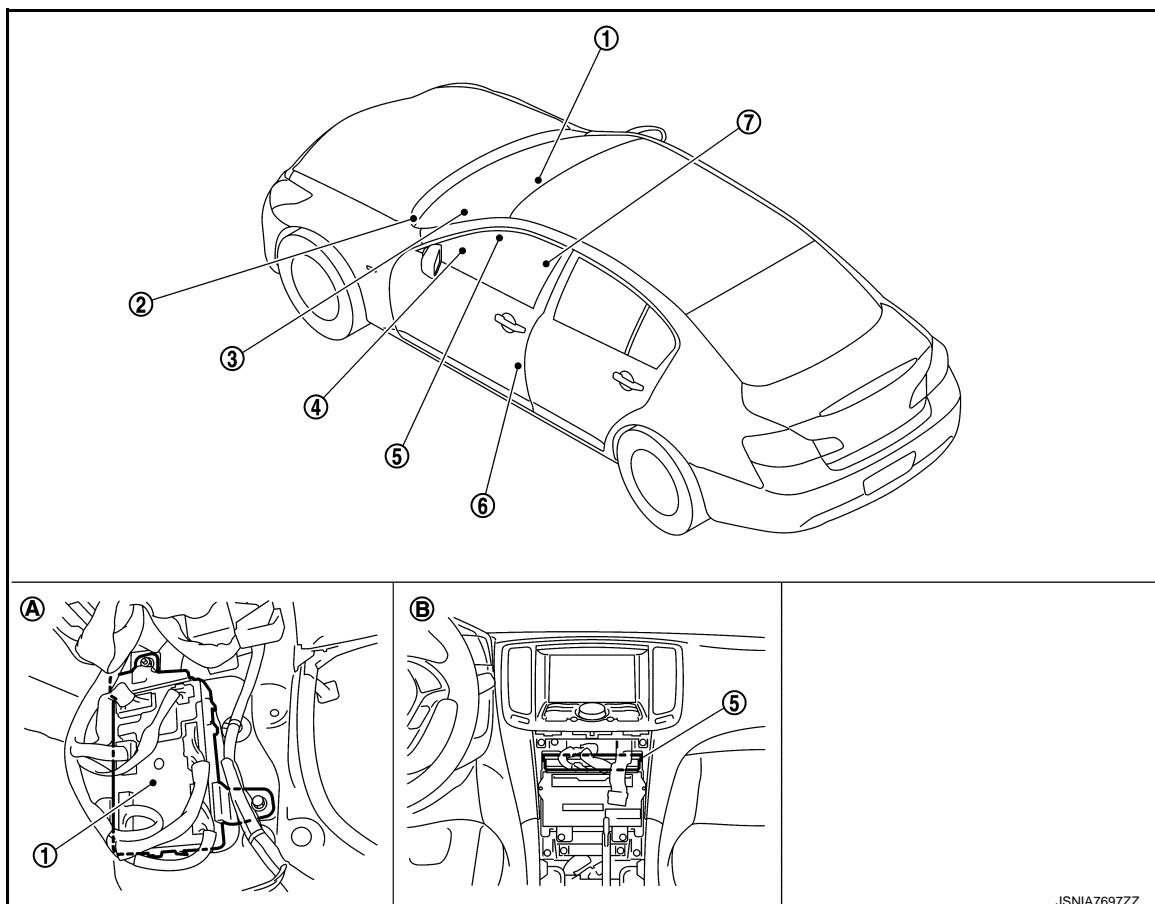
P

## WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

PARKING BRAKE RELEASE WARNING CHIME : Component Parts Location

INFOID:0000000011400159



JSNIA7697ZZ

- |  |                               |                                    |
|--|-------------------------------|------------------------------------|
| 1. BCM                                     | 2. Parking brake switch       | 3. Combination meter               |
| 4. Combination switch<br>(Lighting switch) | 5. Unified meter and A/C amp. | 6. Front door switch (driver side) |
| 7. Seat belt buckle switch                 |                               |                                    |
| A. Dash side lower (passenger side)        | B. Behind cluster lid C       |                                    |

PARKING BRAKE RELEASE WARNING CHIME : Component Description

INFOID:0000000010990700

Unit	Description
Combination meter	Judges whether the parking brake is released from the vehicle speed signal received from the unified meter and A/C amp. via CAN communication line and the parking brake switch signal from the parking brake switch, and sounds the buzzer if necessary.
Unified meter and A/C amp.	Receives a vehicle speed signal from ABS actuator and electric unit (control unit) via CAN communication line and transmits it to the combination meter by means of communication line.
ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal to combination meter via CAN communication line.
Parking brake switch	Refer to <a href="#">MWI-62, "Description"</a> .

# DIAGNOSIS SYSTEM (UNIFIED METER AND A/C AMP.)

< SYSTEM DESCRIPTION >

## DIAGNOSIS SYSTEM (UNIFIED METER AND A/C AMP.)

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

INFOID:000000011400245

#### CONSULT APPLICATION ITEMS

CONSULT can perform the following diagnosis modes with CAN communication with the unified meter and A/C amp.

System	Diagnosis mode	Description
METER/M&A	Self Diagnostic Result	Unified meter and A/C amp. checks the conditions and displays memorized error.
	Data Monitor	Displays unified meter and A/C amp. input/output data in real time.
	Ecu Identification	The unified meter and A/C amp. part number is displayed.

#### SELF DIAG RESULT

Refer to [MWI-103, "DTC Index".](#)

#### DATA MONITOR

##### NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

#### Display Item List

X: Applicable

Display item [Unit]	MAIN SIGNALS	Description
SPEED METER [km/h]	X	Value of vehicle speed signal received from ABS actuator and electric unit (control unit) with CAN communication line. <b>NOTE:</b> 655.35 is displayed when the malfunction signal is received.
SPEED OUTPUT [km/h]	X	Vehicle speed signal value transmitted to other units with CAN communication line. <b>NOTE:</b> 655.35 is displayed when the malfunction signal is received.
ODO OUTPUT [km/h or mph]		Odometer signal value transmitted to other units with CAN communication line.
TACHO METER [rpm]	X	Value of the engine speed signal received from ECM with CAN communication line. <b>NOTE:</b> 8191.875 is displayed when the malfunction signal is received.
FUEL METER [lit.]	X	Fuel level indicated on combination meter.
W TEMP METER [°C]	X	Value of engine coolant temperature signal received from ECM with CAN communication line. <b>NOTE:</b> 215 is displayed when the malfunction signal is input.
FUEL CAP W/L [On/Off]		Status of fuel filler cap warning display detected from fuel filler cap warning display signal received from ECM via CAN communication.
ABS W/L [On/Off]		Status of ABS warning lamp judged from ABS warning lamp signal received from ABS actuator and electric unit (control unit) with CAN communication line.
VDC/TCS IND [On/Off]		Status of VDC OFF indicator lamp judged from VDC OFF indicator lamp signal received from ABS actuator and electric unit (control unit) with CAN communication line.
SLIP IND [On/Off]		Status of VDC warning lamp judged from VDC warning lamp signal received from ABS actuator and electric unit (control unit) with CAN communication line.

A

B

C

D

E

F

G

H

I

J

K

L

M

WCS

O

P

# DIAGNOSIS SYSTEM (UNIFIED METER AND A/C AMP.)

## < SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description
BRAKE W/L [On/Off]		<p>Status of brake warning lamp judged from brake warning lamp signal received from ABS actuator and electric unit (control unit) with CAN communication line.</p> <p><b>NOTE:</b> Displays "Off" if the brake warning lamp is illuminated when the valve check starts, the parking brake switch is turned ON or the brake fluid level switch is turned ON.</p>
DOOR W/L [On/Off]		Status of door warning judged from door switch signal received from BCM with CAN communication line.
TRUNK/GLAS-H [On/Off]		Status of trunk warning judged from trunk switch signal received from BCM with CAN communication line.
HI-BEAM IND [On/Off]		Status of high beam indicator lamp judged from high beam request signal received from BCM with CAN communication line.
TURN IND [On/Off]		Status of turn indicator lamp judged from turn indicator signal received from BCM with CAN communication line.
FR FOG IND [On/Off]		Status of front fog lamp indicator lamp judged from front fog light request signal received from BCM with CAN communication line.
RR FOG IND [Off]		This item is displayed, but cannot be monitored.
LIGHT IND [On/Off]		Status of tail lamp indicator lamp judged from position light request signal received from BCM with CAN communication line.
OIL W/L [On/Off]		Status of oil pressure warning lamp judged from oil pressure switch signal received from IPDM E/R with CAN communication line.
MIL [On/Off]		Status of malfunction indicator lamp judged from malfunctioning indicator lamp signal received from ECM with CAN communication line.
GLOW IND [On/Off]		This item is displayed, but cannot be monitored.
C-ENG2 W/L [On/Off]		This item is displayed, but cannot be monitored.
CRUISE IND [On/Off]		Status of CRUISE indicator judged from ASCD status signal received from ECM with CAN communication line.
SET IND [On/Off]		Status of set indicator judged from ASCD SET indicator signal received from ECM with CAN communication line.
CRUISE W/L [On/Off]		Status of CRUISE warning lamp judged from ASCD status signal received from ECM with CAN communication line.
BA W/L [Off]		This item is displayed, but cannot be monitored.
ATC/T-AMT W/L [On/Off]		Status of A/T check warning lamp judged from A/T check indicator signal received from TCM with CAN communication line.
4WD W/L [On/Off]		Status of AWD warning lamp judged from AWD warning lamp signal received from AWD control unit with CAN communication line.
4WD LOCK IND [Off]		This item is displayed, but cannot be monitored.
FUEL W/L [On/Off]		Low-fuel warning lamp status judged by the identified fuel level.
WASHER W/L [On/Off]		Status of washer warning lamp judged from washer level switch input to combination meter.
AIR PRES W/L [On/Off]		Status of low tire pressure warning lamp judged from TPMS malfunction warning lamp signal received from BCM with CAN communication line.
KEY G/Y W/L [On/Off]		Status of key warning lamp (G/Y) judged from key warning signal received from BCM with CAN communication line.
AFS OFF IND [On/Off]		Status of AFS OFF indicator lamp judged from AFS OFF indicator lamp signal received from AFS control unit with CAN communication line.
4WAS/RAS W/L [Off]		This item is displayed, but cannot be monitored.

# DIAGNOSIS SYSTEM (UNIFIED METER AND A/C AMP.)

## < SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description	
DDS W/L [On/Off]		This item is displayed, but cannot be monitored.	A
LANE W/L [On/Off]		This item is displayed, but cannot be monitored.	B
LDP IND [On/Off]		This item is displayed, but cannot be monitored.	C
LCD [B&P N, B&P I, ID NG, ROTAT, SFT P, INSRT, BATT, NO KY, OUTKY, LK WN, C&P N, C&P I]		Displays status of Intelligent Key system warning judged from meter display signal received from BCM with CAN communication line.	D
ACC TARGET [Off]		This item is displayed, but cannot be monitored.	E
ACC DISTANCE [Off]		This item is displayed, but cannot be monitored.	F
ACC OWN VHL [Off]		This item is displayed, but cannot be monitored.	G
ACC SET SPEED [Off]		This item is displayed, but cannot be monitored.	H
ACC UNIT [Off]		This item is displayed, but cannot be monitored.	I
O/D OFF SW [On/Off]		This item is displayed, but cannot be monitored.	J
SHIFT IND [P, R, N, D, M1, M2, M3, M4, M5, M6, M7]		Status of shift position indicator judged from shift position signal and manual mode indicator signal received from TCM with CAN communication line.	K
AT S MODE SW [On/Off]		Status of snow mode switch.	L
AT P MODE SW [On/Off]		This item is displayed, but cannot be monitored.	M
M RANGE SW [On/Off]		Status of manual mode switch.	N
NM RANGE SW [On/Off]		Status of not manual mode switch.	O
AT SFT UP SW [On/Off]		Status of manual mode shift up switch.	P
AT SFT DWN SW [On/Off]		Status of manual mode shift down switch.	Q
ST SFT UP SW [Off]		This item is displayed, but cannot be monitored.	R
ST SFT DWN SW [Off]		This item is displayed, but cannot be monitored.	S
COMP FB SIG [On/Off]		A/C compressor activation condition that ECM judges according to the water temperature and the acceleration degree.	T
4WD LOCK SW [Off]		This item is displayed, but cannot be monitored.	U
PKB SW [On/Off]		Status of parking brake switch.	V
BUCKLE SW [On/Off]		Status of seat belt buckle switch.	W
BRAKE OIL SW [On/Off]		Status of brake fluid level switch.	X
DISTANCE [km]		Value of possible driving distance calculated by unified meter and A/C amp.	Y

# DIAGNOSIS SYSTEM (UNIFIED METER AND A/C AMP.)

## < SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description
OUTSIDE TEMP [°C or °F]		<p>Ambient air temperature value converted from ambient sensor signal received from ambient sensor.</p> <p><b>NOTE:</b> This may not match with the temperature value indicated on the information display. (Because the information display value is a corrected value from the ambient sensor input value.)</p>
FUEL LOW SIG [On/Off]		Status of fuel level low warning signal to output to AV control unit with CAN communication line.
BUZZER [On/Off]	X	Buzzer status (in the combination meter) is judged with the buzzer output signal received from each unit with CAN communication line and the warning output condition of the combination meter.
ASCD REQ SPD [km/h/Off]		ASCD or speed limiter set vehicle speed value that is judged by the ASCD status signal received from ECM via CAN communication.
ASCD STATUS [Off, ASCD, CRUISE, SL ON,SL SET]		Display status of ASCD and speed limiter status display judged by the ASCD status signal received from ECM via CAN communication.
ASCD SPD BLNK [On/Off]		Blinking status of ASCD or speed limiter set vehicle speed that is judged by the ASCD status signal received from ECM via CAN communication.

**NOTE:**

Some items are not available according to vehicle specification.

# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

## DIAGNOSIS SYSTEM (BCM)

### COMMON ITEM

#### COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000011400246

##### APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
Work Support	Changes the setting for each system function.
Self Diagnostic Result	Displays the diagnosis results judged by BCM.
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Ecu Identification	The BCM part number is displayed.
Configuration	This function is not used even though it is displayed.

##### SYSTEM APPLICATION

BCM can perform the following functions for each system.

##### NOTE:

It can perform the diagnosis modes except the following for all sub system selection items.

x: Applicable item

System	Sub system selection item	Diagnosis mode		
		Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	x	x	x
Rear window defogger	REAR DEFOGGER		x	x
Warning chime	BUZZER		x	x
Interior room lamp timer	INT LAMP	x	x	x
Exterior lamp	HEAD LAMP	x	x	x
Wiper and washer	WIPER	x	x	x
Turn signal and hazard warning lamps	FLASHER	x	x	x
—	AIR CONDITIONER*			
• Intelligent Key system • Engine start system	INTELLIGENT KEY	x	x	x
Combination switch	COMB SW		x	
Body control system	BCM	x		
IVIS - NATS	IMMU		x	x
Interior room lamp battery saver	BATTERY SAVER	x	x	x
Trunk lid open	TRUNK		x	x
Vehicle security system	THEFT ALM	x	x	x
RAP system	RETAINED PWR		x	
Signal buffer system	SIGNAL BUFFER		x	x
TPMS	AIR PRESSURE MONITOR	x	x	x

##### NOTE:

\*: This item is displayed, but is not used.

##### FREEZE FRAME DATA (FFD)

The BCM records the following vehicle condition at the time a particular DTC is detected, and displays on CONSULT.

A

B

C

D

E

F

G

H

I

J

K

L

M

WCS

O

P

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit	Description
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected
Vehicle Condition	SLEEP>LOCK	While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK"*)
	SLEEP>OFF	While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)
	LOCK>ACC	While turning power supply position from "LOCK"** to "ACC"
	ACC>ON	While turning power supply position from "ACC" to "IGN"
	RUN>ACC	While turning power supply position from "RUN" to "ACC" (Vehicle is stopping and selector lever is except P position.)
	CRANK>RUN	While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)
	RUN>URGENT	While turning power supply position from "RUN" to "ACC" (Emergency stop operation)
	ACC>OFF	While turning power supply position from "ACC" to "OFF"
	OFF>LOCK	While turning power supply position from "OFF" to "LOCK"**
	OFF>ACC	While turning power supply position from "OFF" to "ACC"
	ON>CRANK	While turning power supply position from "IGN" to "CRANKING"
	OFF>SLEEP	While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode
	LOCK>SLEEP	While turning BCM status from normal mode (Power supply position is "LOCK"**.) to low power consumption mode
	LOCK	Power supply position is "LOCK"**
	OFF	Power supply position is "OFF" (Ignition switch OFF)
	ACC	Power supply position is "ACC" (Ignition switch ACC)
	ON	Power supply position is "IGN" (Ignition switch ON with engine stopped)
	ENGINE RUN	Power supply position is "RUN" (Ignition switch ON with engine running)
	CRANKING	Power supply position is "CRANKING" (At engine cranking)
IGN Counter	0 - 39	<p>The number of times that ignition switch is turned ON after DTC is detected</p> <ul style="list-style-type: none"> <li>• The number is 0 when a malfunction is detected now.</li> <li>• The number increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON.</li> <li>• The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.</li> </ul>

### NOTE:

\*: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position (A/T models), and any of the following conditions are met.

- Closing door
- Opening door
- Door is locked using door request switch
- Door is locked using Intelligent Key

The power supply position shifts to "ACC" when the push-button ignition switch (push switch) is pushed at "LOCK".

## BUZZER

### BUZZER : CONSULT Function (BCM - BUZZER)

INFOID:0000000010990703

## CONSULT APPLICATION ITEMS

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

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

#### NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Display item [Unit]	Description
VEH SPEED 1 [Km/h]	Value of vehicle speed signal received from ABS actuator and electric unit (control unit) with CAN communication line.
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).

A

B

C

D

E

F

G

H

I

J

K

L

M

WCS

O

P

# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## DTC/CIRCUIT DIAGNOSIS

### POWER SUPPLY AND GROUND CIRCUIT COMBINATION METER

#### COMBINATION METER : Diagnosis Procedure

INFOID:0000000011400247

##### 1. CHECK FUSE

Check for blown fuses.

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

##### 2. CHECK POWER SUPPLY CIRCUIT

Check voltage between combination meter harness connector terminal and ground.

Terminals		Ignition switch	Voltage (Approx.)
(+)	(-)		
Combination meter			
Connector	Terminals	Ground	OFF
	1		ON
M53	21		Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between combination meter and fuse.

##### 3. CHECK GROUND CIRCUIT

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

Combination meter		Continuity
Connector	Terminals	
M53	5	Ground
	15	
	22	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

## UNIFIED METER AND A/C AMP.

### UNIFIED METER AND A/C AMP. : Diagnosis Procedure

INFOID:0000000011400248

##### 1. CHECK FUSE

Check for blown fuses.

# POWER SUPPLY AND GROUND CIRCUIT

## < DTC/CIRCUIT DIAGNOSIS >

Power source	Fuse No.
Battery	11
Ignition switch ACC or ON	19
Ignition switch ON or START	3

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

## 2.CHECK POWER SUPPLY CIRCUIT

Check voltage between unified meter and A/C amp. harness connector terminal and ground.

Terminals		Ignition switch	Voltage (Approx.)		
(+) (-)					
Unified meter and A/C amp.	Connector				
M67	54	Ground	OFF		
	41		ACC		
	53		ON		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between unified meter and A/C amp. and fuse.

## 3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect unified meter and A/C amp. connector.
3. Check continuity between unified meter and A/C amp. harness connector terminal and ground.

Unified meter and A/C amp.		Continuity
Connector	Terminals	
M67	55	
	71	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

## BCM (BODY CONTROL MODULE)

### BCM (BODY CONTROL MODULE) : Diagnosis Procedure

INFOID:000000011400249

WCS

## 1.CHECK FUSE AND FUSIBLE LINK

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

Signal name	Fuse and fusible link No.
Battery power supply	K
	10

Is the fuse fusing?

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

NO >> GO TO 2.

## 2.CHECK POWER SUPPLY CIRCUIT

## POWER SUPPLY AND GROUND CIRCUIT

### < DTC/CIRCUIT DIAGNOSIS >

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

Terminals		Ground	Voltage (Approx.)		
(+)	(-)				
BCM					
Connector	Terminal				
M118	1				
M119	11				
		Battery voltage			

Is the measurement value normal?

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

### 3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M119	13		Existed

Does continuity exist?

- YES >> INSPECTION END  
NO >> Repair harness or connector.

# METER BUZZER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## METER BUZZER CIRCUIT

### Description

INFOID:0000000010990707

- 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:0000000010990708

#### 1.CHECK OPERATION OF METER BUZZER

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

##### Does meter buzzer beep?

- YES    >> INSPECTION END  
NO    >> GO TO 2.

#### 2.CHECK UNIFIED METER AND A/C AMP. INPUT SIGNAL

Select the "Data Monitor" for the "METER/M&A" and check the "BUZZER" monitor value.

##### BUZZER

- Under the condition of buzzer input    : ON  
Except above                                : OFF

##### Is the inspection result normal?

- YES    >> Replace combination meter.  
NO    >> Replace BCM. Refer to [BCS-90, "Removal and Installation"](#).

### Diagnosis Procedure

INFOID:0000000010990709

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

Check power supply of combination meter. Refer to [MWI-51, "COMBINATION METER : Diagnosis Procedure"](#).

##### Is the inspection result normal?

- YES    >> GO TO 2.  
NO    >> Repair power supply circuit of combination meter.

#### 2.CHECK BATTERY POWER SUPPLY OF UNIFIED METER AND A/C AMP.

Check battery power supply of unified meter and A/C amp. Refer to [MWI-51, "UNIFIED METER AND A/C AMP. : Diagnosis Procedure"](#).

##### Is the inspection result normal?

- YES    >> INSPECTION END  
NO    >> Repair power supply circuit of unified meter and A/C amp.

A

B

C

D

E

F

G

H

I

J

K

L

M

WCS

O

P

# SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

### Description

INFOID:0000000010990710

Transmits a seat belt buckle switch signal to the unified meter and A/C amp.

### Component Function Check

INFOID:0000000010990711

#### 1.CHECK UNIFIED METER AND A/C AMP. INPUT SIGNAL

1. Connect the CONSULT.
2. Select the "Data Monitor" of the "METER/M&A" and check the "BUCKLE SW" monitor value.

"BUCKLE SW"

When seat belt is fastened : Off  
When seat belt is unfastened : On

>> INSPECTION END

### Diagnosis Procedure

INFOID:0000000010990712

#### 1.CHECK UNIFIED METER AND A/C AMP. INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between unified meter and A/C amp. harness connector terminal and ground.

Terminal		Condition	Voltage (Approx.)		
(+) (-)					
Unified meter and A/C amp.	Connector Terminal				
M66	9	Ground	When seat belt is fastened 12 V		
			When seat belt is unfastened 0 V		

Is the inspection result normal?

YES >> Replace unified meter and A/C amp.  
NO >> GO TO 2.

#### 2.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect unified meter and A/C amp. connector and seat belt buckle switch (driver side) connector.
3. Check continuity between unified meter and A/C amp. harness connector terminal and seat belt buckle switch (driver side) harness connector terminal.

Unified meter and A/C amp.		Seat belt buckle switch (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M66	9	B13	1	Existed

4. Check harness continuity between unified meter and A/C amp. harness connector terminal and ground.

Unified meter and A/C amp.		Ground	Continuity
Connector	Terminal		
M66	9		
			Not existed

Is the inspection result normal?

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

#### 3.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE) GROUND CIRCUIT

# SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

## < DTC/CIRCUIT DIAGNOSIS >

Check harness continuity between seat belt buckle switch (driver side) harness connector terminal and ground.

Seat belt buckle switch (driver side)		Ground	Continuity
Connector	Terminal		
B13	2		Existed

Is the inspection result normal?

- YES >> INSPECTION END  
NO >> Repair harness or connector.

## Component Inspection

INFOID:0000000010990713

### 1.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

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

Terminal		Seat belt buckle switch (driver side)	Continuity
1	2	When seat belt is fastened	Not existed
		When seat belt is unfastened	Existed

Is the inspection result normal?

- YES >> INSPECTION END  
NO >> Replace the seat belt buckle switch (driver side). Refer to [SB-8. "SEAT BELT BUCKLE : Removal and Installation".](#)

A

B

C

D

E

F

G

H

I

J

K

L

M

WCS

O

P

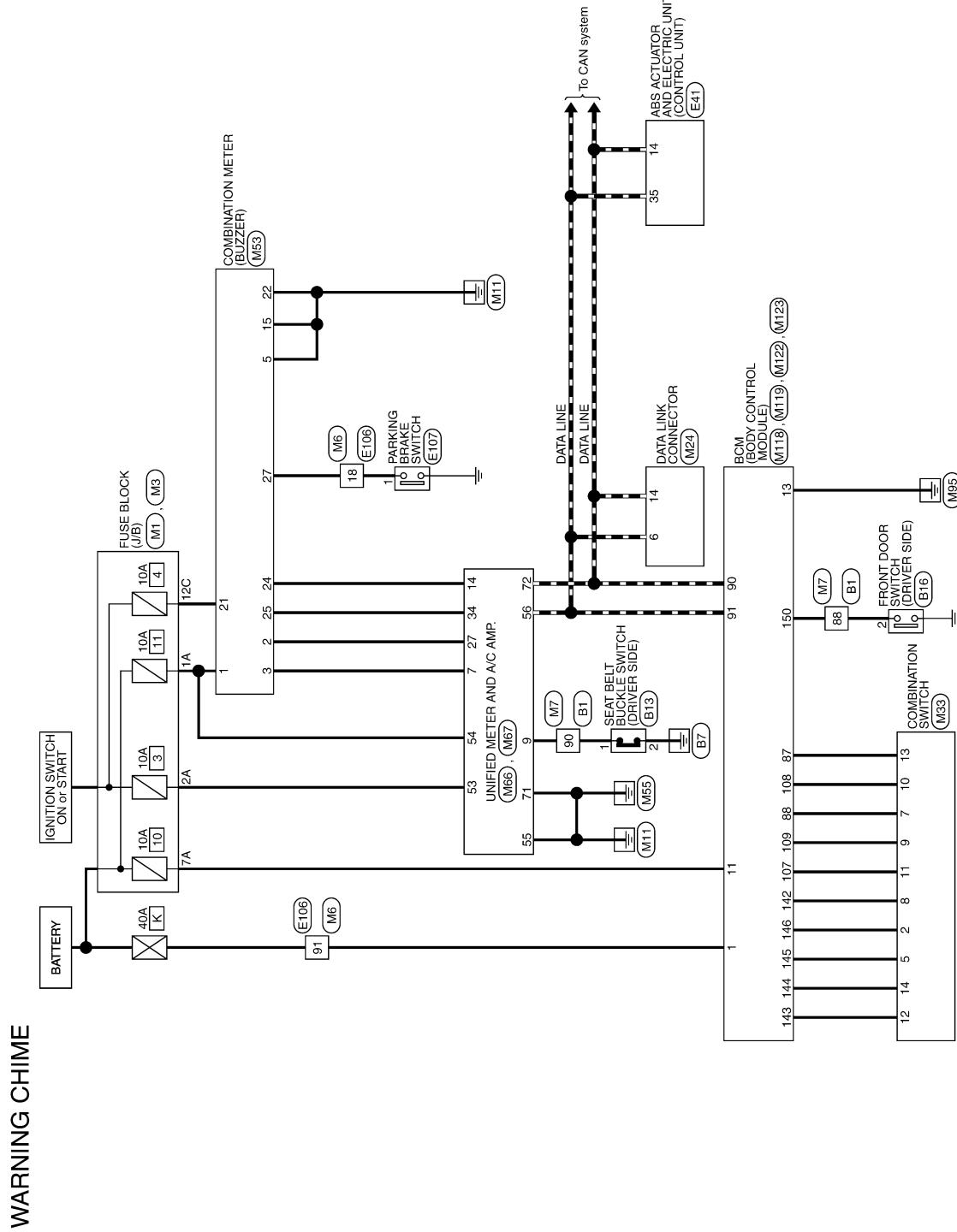
# WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

## WARNING CHIME SYSTEM

### Wiring Diagram - WARNING CHIME -

INFOID:0000000010990714



JRNWD7353GB

2014/06/09

# WARNING CHIME SYSTEM

**< DTC/CIRCUIT DIAGNOSIS >**

---

A

B

C

D

E

F

G

H

I

J

M

O

P

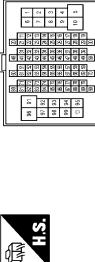
WCS

## WARNING CHIME

**Connector No.** B1

**Connector Name** WIRE TO WIRE

**Connector Type** T180FPW-C15-5-TM4



**Terminal No.**

**Color Of Wire**

**Signal Name [Specification]**

1 GR

2 LG

3 Y

4 R

5 W

6 LG

7 V

8 SHIELD

9 SB

10 V

11 Y

12 SHIELD

13 L

14 P

15 Y

16 B

17 BR

18 BS

19 FR

20 LG

21 DIAG-K

22 CAN-L

23 CAN-H

24 BUS-H

Connector No.	Color Of Wire	Signal Name [Specification]
74 L	-	-
81 V	-	-

Connector No.	Color Of Wire	Signal Name [Specification]
82 B	-	-
84 Y	-	-

Terminal No.	Color Of Wire	Signal Name [Specification]
85 G	-	-
86 W	-	-
87 R	BR	-
88 Y	SB	-
89 V	-	-
90 SB	-	-
92 BR	-	-
93 P	-	-
95 BG	-	-

Connector No.	Color Of Wire	Signal Name [Specification]
1 B13	-	-
2	-	-
3 L	-	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
4 Y	-	-
6 R	-	-
8 W	-	-
9 LG	-	-
24 V	-	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1 B	-	-
2 GND	-	-
2 GR	-	-
3 BG	-	-
4 B	-	GROUND
5 Y	Y	-
6 BG	BG	-
7 BR	BR	-
9 B	B	-
10 W	W	-
11 V	V	-
14 P	P	CAN-L
25 Y	Y	BUS-L
26 LG	LG	DP-EL
27 GR	GR	DS-EL
28 G	G	D12
29 D	D	DS-IR
30 SB	SB	BLS
31 R	R	VDC OFF SW
35 L	L	CAN-H
35 B	B	BUS-H

Connector No.	Color Of Wire	Signal Name [Specification]
32 SB	-	-
33 SHIELD	-	-
34 W	-	-
35 BR	BR	-
36 Y	Y	-
37 SHIELD	-	-
38 Y	-	-
39 SB	-	-
40 P	-	-
41 L	-	-
42 SHIELD	-	-
43 R	R	-
44 G	G	-
45 SHIELD	-	-
46 SB	-	-
55 BR	-	-
56 R	-	-
58 V	-	-
59 SB	-	-
71 BG	-	-
72 GR	-	-
73 P	-	-

Terminal No.	Color Of Wire	Signal Name [Specification]
86 L	-	-
87 V	-	-
88 BR	BR	-
89 Y	Y	-
90 SB	-	-
92 BR	-	-
93 P	P	-
95 BG	BG	-

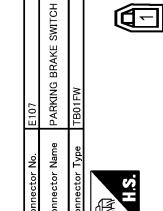
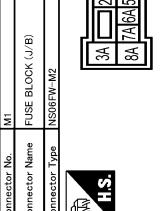
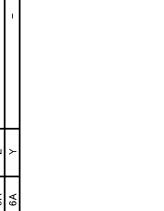
Connector No.	Color Of Wire	Signal Name [Specification]
85 G	-	-
86 W	-	-
87 R	-	-
88 V	-	-
89 SB	-	-
90 BR	-	-
92 GR	GR	-
93 P	P	-
95 BG	BG	-

# WARNING CHIME SYSTEM

**< DTC/CIRCUIT DIAGNOSIS >**

---

## WARNING CHIME

Terminal No.		Signal Name [Specification]		Terminal No.		Signal Name [Specification]	
Wire	No.	Wire	No.	Wire	No.	Wire	No.
PARKING BRAKE SWITCH	E107	PARKING BRAKE SWITCH		PARKING BRAKE SWITCH	M6	PARKING BRAKE SWITCH	
Connector No.		Connector Name		Connector No.		Connector Name	
Connector Type	T501FW	Connector Type		Connector Type		Connector Type	
							
1	BG	1	W	1	W	1	R
2	BR	2	Y	2	Y	2	G
3	LG	3	GR	3	GR	3	BR
4	LG	4	GR	4	GR	4	LG
5	GR	5	BR	5	BR	5	BR
6	SB	6	LG	6	LG	6	LG
7	BR	7	GR	7	GR	7	GR
8	W	8	GR	8	GR	8	GR
9	LG	9	BR	9	BR	9	BR
100	P	100	LG	100	LG	100	LG

JRNWD7405GB

# WARNING CHIME SYSTEM

**< DTC/CIRCUIT DIAGNOSIS >**

## WARNING CHIME

Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	Connector Name	Connector Type	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	Connector Name	Connector Type
81	W		M33			16	BR	METER CONTROL SWITCH GROUND	38	P	BLOWER MOTOR CONTROL SIGNAL
82	BR					18	GR				
84	LG					19	B				
85	RG					20	R	ILL. GND			
86	SB					21	G	IGNITION SIGNAL	M67	Connector No.	UNIFIED METER AND A/C AMP
87	G					22	B	GROUND		Connector Name	
88	GR					24	BR	COMMUNICATION SIGNAL (LCD-AMP)		Connector Type	TH32FW-NH
89	L					25	Y	COMMUNICATION SIGNAL (AMP-LCD)	44	S	44444546
90	P					26	R	VEHICLE SPEED SIGNAL (8-PULSE)	55	S	55555556
92	L					27	P	PARKING BRAKE SWITCH SIGNAL	57	S	59595959
93	P					28	SB	Brake Fluid Level Switch Signal	60	S	60606060
95	BG					29	P	SEAT BELT/BUCKLE SW/SIGNAL (DRIVER SIDE)	65	S	68707172
						30	G	SEAT BELT/BUCKLE SW/SIGNAL (PASSENGER SIDE)			
						31	L	WASHER LEVEL SWITCH SIGNAL			
						32	R	ILLUMINATION CONTROL SIGNAL			
						33	G	SELECT SWITCH SIGNAL (-)			
						34	BR	OUTPUT 4			
						35	Y	OUTPUT 3			
						36	Y	GROUND			
						37	G	ENTER SWITCH SIGNAL	41	L	ACO POWER SUPPLY
						38	G	TEPH A/B RESET SWITCH SIGNAL	42	R	FUEL LEVEL SENSOR SIGNAL
						39	P	INPUT 3	43	R	INTAKE AIR FLOW SENSOR SIGNAL
						40	BG	OUTPUT 5	44	L	IN-VEHICLE SENSOR SIGNAL
									45	V	AMBIENT SENSOR SIGNAL
									46	Y	SUNLOAD SENSOR SIGNAL
									53	W	IGNITION POWER SUPPLY
									54	SB	BATTERY POWER SUPPLY
									55	B	GROUND
									56	L	CAN-H
									57	LG	BRAKE FLUID LEVEL SWITCH
									58	Y	FUEL LEVEL SENSOR GROUND
									59	GR	INTAKE AIR FLOW SENSOR GROUND
									60	W	AMBIENT SENSOR GROUND
									61	W	SUNLOAD SENSOR GROUND
									62	SB	ECU CAN-GND
									63	RG	EACH DOOR MOTOR POWER SUPPLY
									64	P	A/C CAN SIGNAL
									71	GR	GROUND
									72	P	CAN-L

JRNWD7406GB

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

WCS

# WARNING CHIME SYSTEM

**< DTC/CIRCUIT DIAGNOSIS >**

---

## WARNING CHIME

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MD3FB-1LC



Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



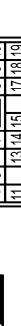
Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



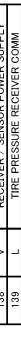
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BAT (F+)
2	Y	POWER WINDOW POWER SUPPLY (BAT)
3	EG	POWER WINDOW POWER SUPPLY (RAP)



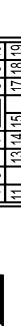
Terminal No.	Color Of Wire	Signal Name [Specification]
72	B	ROOM ANT 2+
73	G	ROOM ANT 2-
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	PASSENGER DOOR SW
79	BR	ROOM ANT 1-
80	GR	ROOM ANT 1+
81	W	NATS ANT AMP
82	SB	IGN RELAY (F/B) CONT
83	Y	KEYLESS ENTRY RECEIVER COMM
87	Y	COMBI SW INPUT 5
88	EG	COMBI SW INPUT 6
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT TILT CONT
93	GR	ON IND
95	BG	ACC RELAY CONT
96	GR	A/T SHIFT SELECTOR/SIMER SUPPLY
97	D	PASSENGER DOOR UNLOCK COUNTER
98	R	SHIFT L
99	Y	PASSENGER DOOR REQUEST SW
100	P	DRIVER DOOR REQUEST SW
101	D	DRIVER DOOR RELEASE RELAY
102	LG	BLOWER FAN MOTOR RELAY CONT
103	P	KEYLESS ENTRY RECEIVER POWER SUPPLY
107	LG	REAR DOOR UNLOCK OUTPUT
108	R	BAT FUSE
109	W	GROUND
110	W	FUSION BUTTON IGNITION SW/L GND
111	GR	ACC IND
117	W	TURN SIGNAL RH (FRONT)
118	LG	TURN SIGNAL RH (FRONT)
119	V	INT ROOM LAMP CONT



Terminal No.	Color Of Wire	Signal Name [Specification]	Wire	Signal Name [Specification]
113	BG	OPTICAL SENSOR	116	SB
118	BR	STOP LAMP SW 1	119	SB
121	SB	DR DOOR UNLOCK SENSOR	123	V
124	R	KEE-FACCT SW	129	BG
132	V	POWER WINDOW SW COMM	133	L
134	LG	PUSH+BUTTON IGNITION SW/L POWER	137	BG
138	V	RECEIVER / SENSOR QND	139	L
140	B	TIRE PRESSURE RECEIVER COMM	141	W
142	BR	SECURITY IND LAMP CONT	143	P
144	G	COMBI SW OUTPUT 5	145	G
146	L	COMBI SW OUTPUT 2	147	G
148	SB	COMBI SW OUTPUT 1	149	GR
151	G	REAR WINDOW DEFOGGER RELAY CONT		



Terminal No.	Color Of Wire	Signal Name [Specification]
4	LG	INTERIOR ROOM LAMP POWER SUPPLY
5	D	PASSENGER DOOR UNLOCK COUNTER
7	SB	STEP LAMP CONT
8	V	ALL DOOR FUEL LD LOCK OUTPUT
9	G	DRIVER DOOR FUEL LD UNLOCK OUTP
10	P	REAR DOOR UNLOCK OUTPUT
11	R	BAT FUSE
13	B	GROUND
14	W	FUSION BUTTON IGNITION SW/L GND
15	BG	ACC IND
17	W	TURN SIGNAL RH (FRONT)
18	LG	TURN SIGNAL RH (FRONT)
19	V	INT ROOM LAMP CONT



JRNWD7407GB

# COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

## ECU DIAGNOSIS INFORMATION COMBINATION METER

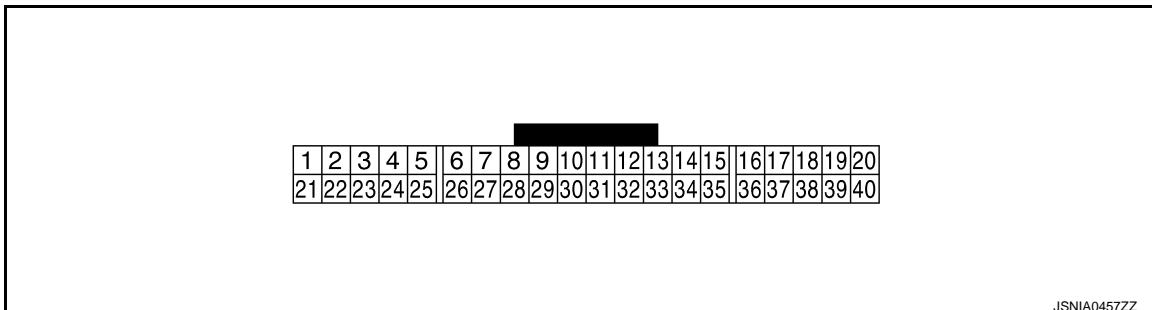
### Reference Value

INFOID:000000011400250

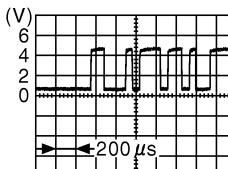
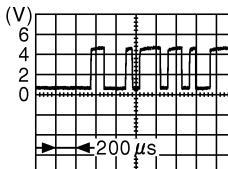
### VALUES ON THE DIAGNOSIS TOOL

Refer to [WCS-46, "Reference Value".](#)

### TERMINAL LAYOUT



### PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
1 (V)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
2 (LG)	Ground	Communication signal (METER→AMP.)	Output	Ignition switch ON	—	 JSNIA0027GB
3 (GR)	Ground	Communication signal (AMP.→ METER)	Input	Ignition switch ON	—	 JSNIA0027GB
5 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
6 (W)	Ground	Alternator signal	Input	Ignition switch ON	Charge warning lamp ON	0 V
					Charge warning lamp OFF	12 V
7 (LG)	Ground	Air bag signal	Input	Ignition switch ON	Air bag warning lamp ON	4 V
					Air bag warning lamp OFF	0 V
10 (W)	Ground	Security signal	Input	Ignition switch OFF	Security warning lamp ON	0 V
					Security warning lamp OFF	12 V

A

B

C

D

E

F

G

H

I

J

K

L

M

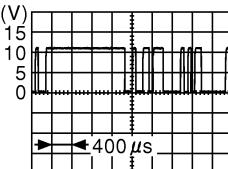
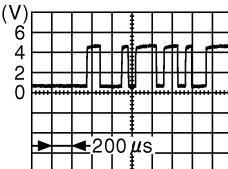
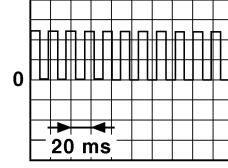
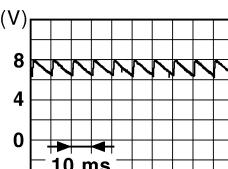
WCS

O

P

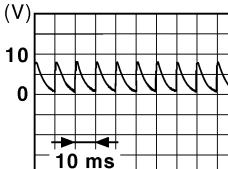
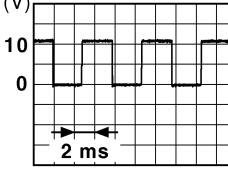
# COMBINATION METER

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
15 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
16 (BR)	Ground	Meter control switch ground	—	Ignition switch ON	—	0 V
21 (G)	Ground	Ignition signal	Input	Ignition switch ON	—	12 V
22 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
24 (BR)	Ground	Communication signal (LCD→AMP.)	Output	Ignition switch ON	—	 JSNIA0028GB
25 (Y)	Ground	Communication signal (AMP.→LCD)	Input	Ignition switch ON	—	 JSNIA0027GB
26 (R)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)]	<b>NOTE:</b> The maximum voltage varies depending on the specification (destination unit).  JSNIA0012GB
27 (P)	Ground	Parking brake switch signal	Input	Ignition switch ON	Parking brake ON	0 V
					Parking brake OFF	 JSNIA0007GB

# COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
28 (SB)	Ground	Brake fluid level switch signal	Input	Ignition switch ON	Brake fluid level is normal.	 JSNIA0008GB
					The brake fluid level is lower than the low level	
29 (P)	Ground	Seat belt buckle switch signal (driver side)	Input	Ignition switch ON	When driver seat belt is fastened	12 V
					When driver seat belt is unfastened	
30 (G)	Ground	Seat belt buckle switch signal (passenger side)	Input	Ignition switch ON	<ul style="list-style-type: none"> <li>When getting in the passenger seat</li> <li>When passenger seat belt is fastened</li> </ul>	12 V
					<ul style="list-style-type: none"> <li>When getting in the passenger seat</li> <li>When passenger seat belt is unfastened</li> </ul>	
31 (L)	Ground	Washer level switch signal	Input	Ignition switch ON	Washer level switch ON	0 V
					Washer level switch OFF	
33 (R)	Ground	Illumination control signal	Output	Ignition switch ON	Lighting switch ON, then operate the illumination control switch.	<b>NOTE:</b> When brightness level is midway  JSNIA0010GB
36 (LG)	16 (BR)	Select switch signal	Input	Ignition switch ON	When ● is pressed	0 V
					Other than the above	
37 (Y)	16 (BR)	Enter switch signal	Input	Ignition switch ON	When □ is pressed	0 V
					Other than the above	
38 (G)	16 (BR)	Trip A/B reset switch signal	Input	Ignition switch ON	When trip A/B reset switch is pressed	0 V
					Other than the above	
39 (P)	16 (BR)	Illumination control switch signal (-)	Input	Ignition switch ON	When  switch is pressed	0 V
					Other than the above	
40 (BG)	16 (BR)	Illumination control switch signal (+)	Input	Ignition switch ON	When  switch is pressed	0 V
					Other than the above	

A

B

C

D

E

F

G

H

I

J

K

L

M

WCS

O

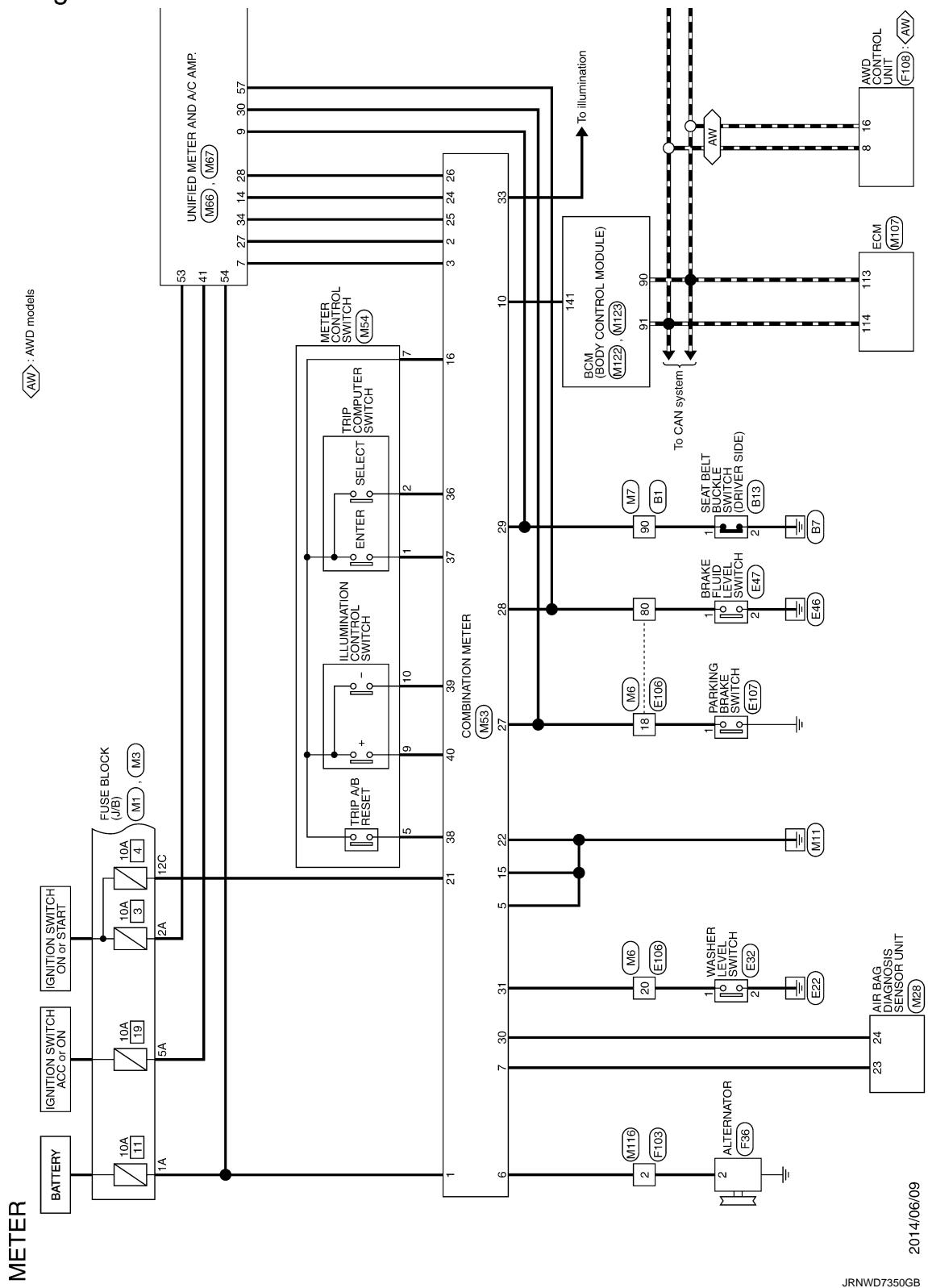
P

# COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

## Wiring Diagram - METER -

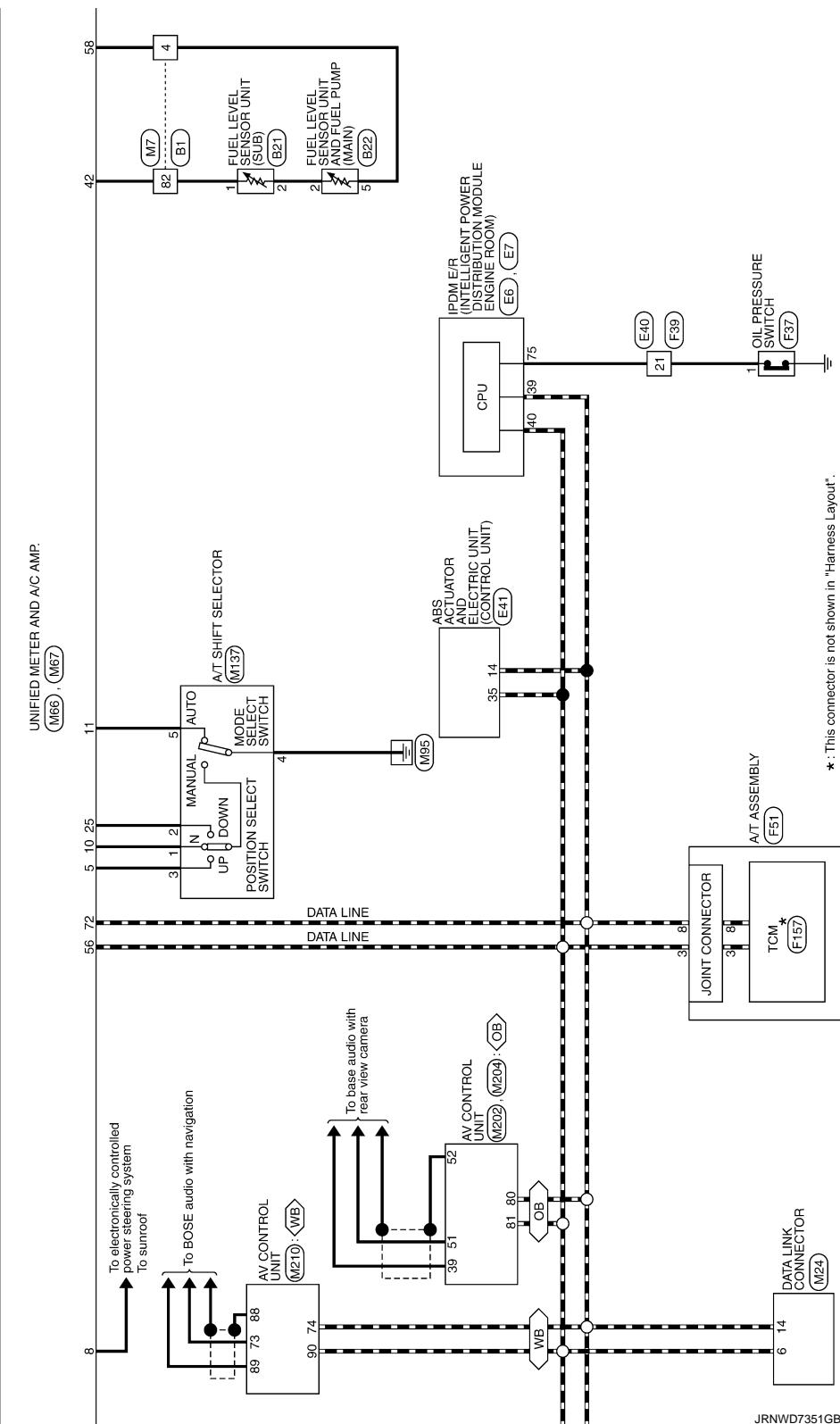
INFOID:000000011400251



# COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

WB : With BOSE system  
OB : Without BOSE system

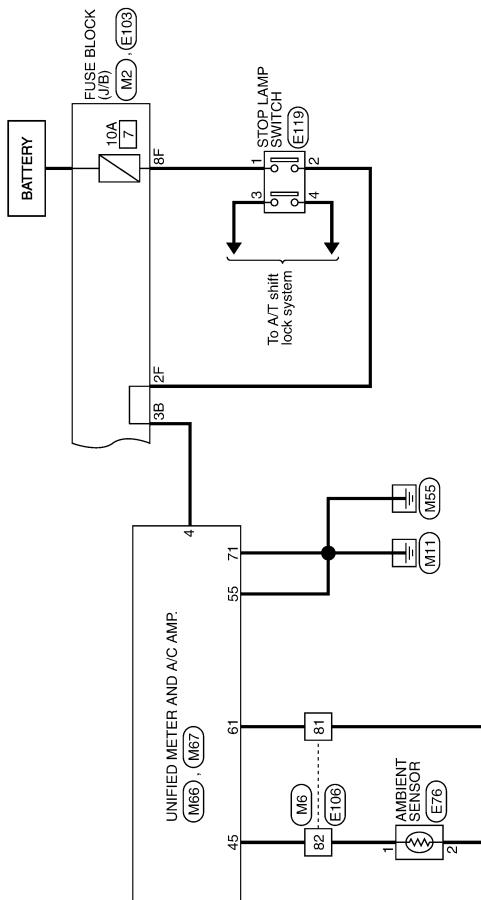


JRNWD7351GB

\* : This connector is not shown in "Harness Layout".

# COMBINATION METER

< ECU DIAGNOSIS INFORMATION >



JRNWD7352GB

# COMBINATION METER

**< ECU DIAGNOSIS INFORMATION >**

METER			
Connector No.	Signal Name [Specification]	Terminal No.	Color Of Wire
B1 WIRE TO WIRE		1 L	-
		2 V	-
		3 B	-
		4 Y	-
		5 R	-
		6 G	-
		7 SB	-
		8 BR	-
		9 Y	-
		10 SB	-
		11 BR	-
		12 P	-
		13 BG	-
		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	-
		41	-
		42	-
		43	-
		44	-
		45	-
		46	-
		47	-
		48	-
		49	-
		50	-
		51	-
		52	-
		53	-
		54	-
		55	-
		56	-
		57	-
		58	-
		59	-
		60	-
		61	-
		62	-
		63	-
		64	-
		65	-
		66	-
		67	-
		68	-
		69	-
		70	-
		71	-
		72	-
		73	-

E1			
Connector No.	Signal Name [Specification]	Terminal No.	Color Of Wire
WIRE TO WIRE		1 L	-
		2 V	-

E2			
Connector No.	Signal Name [Specification]	Terminal No.	Color Of Wire
WIRE TO WIRE		1 P	-
		2 B	-

E3			
Connector No.	Signal Name [Specification]	Terminal No.	Color Of Wire
WIRE TO WIRE		1 P	-
		2 Y	-

E4			
Connector No.	Signal Name [Specification]	Terminal No.	Color Of Wire
WIRE TO WIRE		1 P	-
		2 B	-

E5			
Connector No.	Signal Name [Specification]	Terminal No.	Color Of Wire
WIRE TO WIRE		1 P	-
		2 B	-

E6			
Connector No.	Signal Name [Specification]	Terminal No.	Color Of Wire
WIRE TO WIRE		1 P	-
		2 B	-

E7			
Connector No.	Signal Name [Specification]	Terminal No.	Color Of Wire
WIRE TO WIRE		1 P	-
		2 B	-

JRNWD7394GB

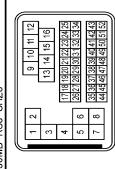
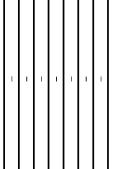
A B C D E F G H I J K L M N O P

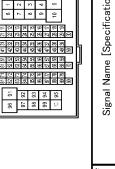
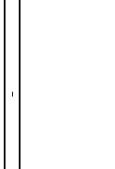
WCS

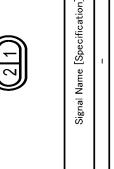
# COMBINATION METER

**< ECU DIAGNOSIS INFORMATION >**

## METER

Connector No.	E40	Terminal Color Of Wire	Signal Name [Specification]	Terminal Color Of Wire	Signal Name [Specification]
Connector Name	WIRE TO WIRE				
Connector Type	SAAS6MB-RS8-5Hx3				
					
1	L/V	1	LG	1	GR
2	SHIELD	2	G	2	GR
3		3	GR	3	W
4	SHIELD	4	-	4	-
5	ERT	5	-	5	-
7	G	7	-	6	-
8	W	8	-	7	-
9	W	9	-	8	-
10	Y	10	-	9	-
11	P	11	-	10	-
12	SB	12	-	11	-
13	L	13	-	12	-
14	G	14	-	13	-
15	BG	15	-	14	-
16	BR	16	-	15	-
18	Y	18	-	16	-
19	BG	19	-	17	-
20	B	20	-	18	-
21	SB	21	-	19	-
22	W	22	-	20	-
23	L	23	-	21	-
24	OR	24	-	22	-
25	Y	25	-	23	-
				24	-
				25	-
				26	-
				27	-
				28	-
				29	-
				30	-
				31	-
				32	-
				33	-
				34	-
				35	-
				37	-
				38	-
				39	-
				40	-
				41	-

Connector No.	E41	Terminal Color Of Wire	Signal Name [Specification]	Terminal Color Of Wire	Signal Name [Specification]
Connector Name	Brake Fluid Level Switch				
Connector Type	YV02F5Y				
					
1	R	1	P	1	SR
2	B	2	B	2	W
51	SB	51	-	4	C
52	R	52	-	5	BR
				6	L
				7	V
				8	R
				9	P
				10	-

Connector No.	E41	Terminal Color Of Wire	Signal Name [Specification]	Terminal Color Of Wire	Signal Name [Specification]
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)				
Connector Type	BA443TE-A-NZ4-LH				
					
1	R	1	P	1	WIRE TO WIRE
2	B	2	B	2	T180FWS18-TMA
				3	-
				4	-
				5	-
				6	-
				7	-
				8	-
				9	-
				10	-

Connector No.	E76	Terminal Color Of Wire	Signal Name [Specification]	Terminal Color Of Wire	Signal Name [Specification]
Connector Name	AMBIENT SENSOR				
Connector Type	RSU2FB				
					
1	G	1	G	1	GR
2	BR	2	BR	2	GR
3	BR	3	BR	3	WIRE TO WIRE
4	BR	4	BR	4	T180FWS18-TMA
5	Y	5	Y	5	-
6	BR	6	BR	6	-
7	BR	7	BR	7	-
9	BR	9	BR	9	-
10	W	10	W	10	-
11	Y	11	Y	11	-
14	P	14	P	14	-
25	Y	25	Y	25	-
				26	-
				27	-
				28	-
				29	-
				30	-
				31	-
				32	-
				33	-
				34	-
				35	-
				37	-
				38	-
				39	-
				40	-
				41	-

JRNWD7395GB

# COMBINATION METER

**< ECU DIAGNOSIS INFORMATION >**

METER		
Terminal No.	Color Of Wire	Signal Name [Specification]
20	LG	
31	L	
32	RG	
36	SB	
37	Y	
38	R	
39	B	
41	R	
42	LG	
43	G	
44	GR	
45	BR	
46	LG	
47	V	
48	P	
49	L	
66	GR	
67	LG	
80	R	
81	P	
82	G	
83	V	
84	L	
85	W	
89	V	
91	W	
93	GR	
95	LG	
97	SB	
98	SHEILD	
99	L	
100	P	

Connector No.	Color Of Wire	Signal Name [Specification]
E119	STOP / LAMP SWITCH	
Connector Type	MOLEX-LC	

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	
2	BR	
3	G	
4	Y	
5	LG	
6	V	
7	BR	
8	BR	
9	BR	
10	BR	
11	BR	
12	BR	
13	BR	
14	LG	
15	R	
16	O	- [AND models]
16	Y	- [2WD models]
18	LG	-
19	P	-
20	O	-

Connector No.	Color Of Wire	Signal Name [Specification]
F37	OIL PRESSURE SWITCH	
Connector Name	-	
Connector Type	E01FG7-RS-AF	

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	
2	BR	
3	G	
4	Y	
5	LG	
6	V	
7	BR	
8	BR	
9	BR	
10	BR	
11	BR	
12	BR	
13	BR	
14	LG	
15	R	
16	O	- [AND models]
16	Y	- [2WD models]
18	LG	-
19	P	-
20	O	-

Connector No.	Color Of Wire	Signal Name [Specification]
F39	WIRE TO WIRE	
Connector Name	-	
Connector Type	SAAS6FB-RS8-Shz2	

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	
2	BR	
3	G	
4	V	
5	LG	
6	Y	
7	BR	
8	BR	
9	BR	
10	BR	
11	BR	
12	BR	
13	BR	
14	LG	
15	R	
16	O	- [AND models]
16	Y	- [2WD models]
18	LG	-
19	P	-
20	O	-

Connector No.	Color Of Wire	Signal Name [Specification]
F40	ALTERNATOR	
Connector Name	-	
Connector Type	HS031B	

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L/Y	
2	SHIELD	
3	LB	
4	SHIELD	
5	BR	
7	G	
8	W	
9	W	
10	G	
11	R	
12	P	
13	L	
14	LG	
15	R	
16	O	- [AND models]
16	Y	- [2WD models]
18	LG	-
19	P	-
20	O	-

Connector No.	Color Of Wire	Signal Name [Specification]
E101	PARKING BRAKE SWITCH	
Connector Name	-	
Connector Type	TBD FW	

Terminal No.	Color Of Wire	Signal Name [Specification]
2	G	
3	V	
4	W	

JRNWD7396GB

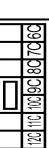
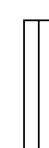
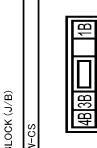
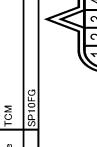
A      B      C      D      M      T      G      I      K      P      O      WCS

# COMBINATION METER

**< ECU DIAGNOSIS INFORMATION >**

---

**METER**

<table border="1"> <tr> <td>5</td> <td>B</td> <td>-</td> </tr> <tr> <td>6</td> <td>G</td> <td>-</td> </tr> <tr> <td>7</td> <td>R</td> <td>-</td> </tr> <tr> <td>8</td> <td>P</td> <td>-</td> </tr> <tr> <td>9</td> <td>GR</td> <td>-</td> </tr> <tr> <td>10</td> <td>B</td> <td>-</td> </tr> </table>  <p>HS.</p>	5	B	-	6	G	-	7	R	-	8	P	-	9	GR	-	10	B	-	<table border="1"> <tr> <td>Connector No.</td> <td>F108</td> </tr> <tr> <td>Connector Name</td> <td>AWD CONTROL UNIT</td> </tr> <tr> <td>Connector Type</td> <td>TH16FW-NH</td> </tr> </table>	Connector No.	F108	Connector Name	AWD CONTROL UNIT	Connector Type	TH16FW-NH	<table border="1"> <tr> <td>Terminal No.</td> <td>10</td> <td>SIGNAL</td> </tr> <tr> <td>Terminal No.</td> <td>9</td> <td>GROUND</td> </tr> </table>	Terminal No.	10	SIGNAL	Terminal No.	9	GROUND																																	
5	B	-																																																															
6	G	-																																																															
7	R	-																																																															
8	P	-																																																															
9	GR	-																																																															
10	B	-																																																															
Connector No.	F108																																																																
Connector Name	AWD CONTROL UNIT																																																																
Connector Type	TH16FW-NH																																																																
Terminal No.	10	SIGNAL																																																															
Terminal No.	9	GROUND																																																															
<table border="1"> <tr> <td>Connector No.</td> <td>F103</td> </tr> <tr> <td>Connector Name</td> <td>WIRE TO WIRE:</td> </tr> <tr> <td>Connector Type</td> <td>TK36FW-NS10</td> </tr> </table>  <p>HS.</p>	Connector No.	F103	Connector Name	WIRE TO WIRE:	Connector Type	TK36FW-NS10	<table border="1"> <tr> <td>Connector No.</td> <td>TK36FW-NS10</td> </tr> <tr> <td>Connector Name</td> <td>WIRE TO WIRE:</td> </tr> <tr> <td>Connector Type</td> <td>TK36FW-NS10</td> </tr> </table>	Connector No.	TK36FW-NS10	Connector Name	WIRE TO WIRE:	Connector Type	TK36FW-NS10	<table border="1"> <tr> <td>Terminal No.</td> <td>10</td> <td>SIGNAL</td> </tr> <tr> <td>Terminal No.</td> <td>9</td> <td>GROUND</td> </tr> </table>	Terminal No.	10	SIGNAL	Terminal No.	9	GROUND																																													
Connector No.	F103																																																																
Connector Name	WIRE TO WIRE:																																																																
Connector Type	TK36FW-NS10																																																																
Connector No.	TK36FW-NS10																																																																
Connector Name	WIRE TO WIRE:																																																																
Connector Type	TK36FW-NS10																																																																
Terminal No.	10	SIGNAL																																																															
Terminal No.	9	GROUND																																																															
<table border="1"> <tr> <td>Connector No.</td> <td>F157</td> </tr> <tr> <td>Connector Name</td> <td>TCM</td> </tr> <tr> <td>Connector Type</td> <td>SP10FG</td> </tr> </table>  <p>HS.</p>	Connector No.	F157	Connector Name	TCM	Connector Type	SP10FG	<table border="1"> <tr> <td>Connector No.</td> <td>F157</td> </tr> <tr> <td>Connector Name</td> <td>TCM</td> </tr> <tr> <td>Connector Type</td> <td>SP10FG</td> </tr> </table>	Connector No.	F157	Connector Name	TCM	Connector Type	SP10FG	<table border="1"> <tr> <td>Terminal No.</td> <td>1</td> <td>1</td> </tr> <tr> <td>Terminal No.</td> <td>2</td> <td>2</td> </tr> <tr> <td>Terminal No.</td> <td>3</td> <td>3</td> </tr> <tr> <td>Terminal No.</td> <td>4</td> <td>4</td> </tr> <tr> <td>Terminal No.</td> <td>5</td> <td>5</td> </tr> <tr> <td>Terminal No.</td> <td>6</td> <td>6</td> </tr> <tr> <td>Terminal No.</td> <td>7</td> <td>7</td> </tr> <tr> <td>Terminal No.</td> <td>8</td> <td>8</td> </tr> <tr> <td>Terminal No.</td> <td>9</td> <td>9</td> </tr> <tr> <td>Terminal No.</td> <td>10</td> <td>10</td> </tr> </table>	Terminal No.	1	1	Terminal No.	2	2	Terminal No.	3	3	Terminal No.	4	4	Terminal No.	5	5	Terminal No.	6	6	Terminal No.	7	7	Terminal No.	8	8	Terminal No.	9	9	Terminal No.	10	10																					
Connector No.	F157																																																																
Connector Name	TCM																																																																
Connector Type	SP10FG																																																																
Connector No.	F157																																																																
Connector Name	TCM																																																																
Connector Type	SP10FG																																																																
Terminal No.	1	1																																																															
Terminal No.	2	2																																																															
Terminal No.	3	3																																																															
Terminal No.	4	4																																																															
Terminal No.	5	5																																																															
Terminal No.	6	6																																																															
Terminal No.	7	7																																																															
Terminal No.	8	8																																																															
Terminal No.	9	9																																																															
Terminal No.	10	10																																																															
<table border="1"> <tr> <td>Connector No.</td> <td>F158</td> </tr> <tr> <td>Connector Name</td> <td>ECU</td> </tr> <tr> <td>Connector Type</td> <td>TH16FW-DS</td> </tr> </table>  <p>HS.</p>	Connector No.	F158	Connector Name	ECU	Connector Type	TH16FW-DS	<table border="1"> <tr> <td>Connector No.</td> <td>F158</td> </tr> <tr> <td>Connector Name</td> <td>ECU</td> </tr> <tr> <td>Connector Type</td> <td>TH16FW-DS</td> </tr> </table>	Connector No.	F158	Connector Name	ECU	Connector Type	TH16FW-DS	<table border="1"> <tr> <td>Terminal No.</td> <td>1</td> <td>1</td> </tr> <tr> <td>Terminal No.</td> <td>2</td> <td>2</td> </tr> <tr> <td>Terminal No.</td> <td>3</td> <td>3</td> </tr> <tr> <td>Terminal No.</td> <td>4</td> <td>4</td> </tr> <tr> <td>Terminal No.</td> <td>5</td> <td>5</td> </tr> <tr> <td>Terminal No.</td> <td>6</td> <td>6</td> </tr> <tr> <td>Terminal No.</td> <td>7</td> <td>7</td> </tr> <tr> <td>Terminal No.</td> <td>8</td> <td>8</td> </tr> <tr> <td>Terminal No.</td> <td>9</td> <td>9</td> </tr> <tr> <td>Terminal No.</td> <td>10</td> <td>10</td> </tr> </table>	Terminal No.	1	1	Terminal No.	2	2	Terminal No.	3	3	Terminal No.	4	4	Terminal No.	5	5	Terminal No.	6	6	Terminal No.	7	7	Terminal No.	8	8	Terminal No.	9	9	Terminal No.	10	10																					
Connector No.	F158																																																																
Connector Name	ECU																																																																
Connector Type	TH16FW-DS																																																																
Connector No.	F158																																																																
Connector Name	ECU																																																																
Connector Type	TH16FW-DS																																																																
Terminal No.	1	1																																																															
Terminal No.	2	2																																																															
Terminal No.	3	3																																																															
Terminal No.	4	4																																																															
Terminal No.	5	5																																																															
Terminal No.	6	6																																																															
Terminal No.	7	7																																																															
Terminal No.	8	8																																																															
Terminal No.	9	9																																																															
Terminal No.	10	10																																																															
<table border="1"> <tr> <td>Connector No.</td> <td>F159</td> </tr> <tr> <td>Connector Name</td> <td>CAN-H</td> </tr> <tr> <td>Connector Type</td> <td>TH10FW-A2</td> </tr> </table>  <p>HS.</p>	Connector No.	F159	Connector Name	CAN-H	Connector Type	TH10FW-A2	<table border="1"> <tr> <td>Connector No.</td> <td>F159</td> </tr> <tr> <td>Connector Name</td> <td>CAN-H</td> </tr> <tr> <td>Connector Type</td> <td>TH10FW-A2</td> </tr> </table>	Connector No.	F159	Connector Name	CAN-H	Connector Type	TH10FW-A2	<table border="1"> <tr> <td>Terminal No.</td> <td>10</td> <td>SIGNAL</td> </tr> <tr> <td>Terminal No.</td> <td>9</td> <td>GROUND</td> </tr> </table>	Terminal No.	10	SIGNAL	Terminal No.	9	GROUND																																													
Connector No.	F159																																																																
Connector Name	CAN-H																																																																
Connector Type	TH10FW-A2																																																																
Connector No.	F159																																																																
Connector Name	CAN-H																																																																
Connector Type	TH10FW-A2																																																																
Terminal No.	10	SIGNAL																																																															
Terminal No.	9	GROUND																																																															
<table border="1"> <tr> <td>Connector No.</td> <td>M3</td> </tr> <tr> <td>Connector Name</td> <td>FUSE BLOCK (J/B)</td> </tr> <tr> <td>Connector Type</td> <td>NS32FW-CS</td> </tr> </table>  <p>HS.</p>	Connector No.	M3	Connector Name	FUSE BLOCK (J/B)	Connector Type	NS32FW-CS	<table border="1"> <tr> <td>Connector No.</td> <td>M3</td> </tr> <tr> <td>Connector Name</td> <td>FUSE BLOCK (J/B)</td> </tr> <tr> <td>Connector Type</td> <td>NS32FW-CS</td> </tr> </table>	Connector No.	M3	Connector Name	FUSE BLOCK (J/B)	Connector Type	NS32FW-CS	<table border="1"> <tr> <td>Terminal No.</td> <td>10</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>9</td> <td>Wire</td> </tr> </table>	Terminal No.	10	Wire	Terminal No.	9	Wire																																													
Connector No.	M3																																																																
Connector Name	FUSE BLOCK (J/B)																																																																
Connector Type	NS32FW-CS																																																																
Connector No.	M3																																																																
Connector Name	FUSE BLOCK (J/B)																																																																
Connector Type	NS32FW-CS																																																																
Terminal No.	10	Wire																																																															
Terminal No.	9	Wire																																																															
<table border="1"> <tr> <td>Connector No.</td> <td>M1</td> </tr> <tr> <td>Connector Name</td> <td>FUSE BLOCK (J/B)</td> </tr> <tr> <td>Connector Type</td> <td>NS32FW-A2</td> </tr> </table>  <p>HS.</p>	Connector No.	M1	Connector Name	FUSE BLOCK (J/B)	Connector Type	NS32FW-A2	<table border="1"> <tr> <td>Connector No.</td> <td>M1</td> </tr> <tr> <td>Connector Name</td> <td>FUSE BLOCK (J/B)</td> </tr> <tr> <td>Connector Type</td> <td>NS32FW-A2</td> </tr> </table>	Connector No.	M1	Connector Name	FUSE BLOCK (J/B)	Connector Type	NS32FW-A2	<table border="1"> <tr> <td>Terminal No.</td> <td>10</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>9</td> <td>Wire</td> </tr> </table>	Terminal No.	10	Wire	Terminal No.	9	Wire																																													
Connector No.	M1																																																																
Connector Name	FUSE BLOCK (J/B)																																																																
Connector Type	NS32FW-A2																																																																
Connector No.	M1																																																																
Connector Name	FUSE BLOCK (J/B)																																																																
Connector Type	NS32FW-A2																																																																
Terminal No.	10	Wire																																																															
Terminal No.	9	Wire																																																															
<table border="1"> <tr> <td>Connector No.</td> <td>M6</td> </tr> <tr> <td>Connector Name</td> <td>WIRE TO WIRE</td> </tr> <tr> <td>Connector Type</td> <td>TH80MM-CS16-TM4</td> </tr> </table>  <p>HS.</p>	Connector No.	M6	Connector Name	WIRE TO WIRE	Connector Type	TH80MM-CS16-TM4	<table border="1"> <tr> <td>Connector No.</td> <td>TH80MM-CS16-TM4</td> </tr> <tr> <td>Connector Name</td> <td>WIRE TO WIRE</td> </tr> <tr> <td>Connector Type</td> <td>TH80MM-CS16-TM4</td> </tr> </table>	Connector No.	TH80MM-CS16-TM4	Connector Name	WIRE TO WIRE	Connector Type	TH80MM-CS16-TM4	<table border="1"> <tr> <td>Terminal No.</td> <td>16</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>15</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>14</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>13</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>12</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>11</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>10</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>9</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>8</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>7</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>6</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>5</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>4</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>3</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>2</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>1</td> <td>Wire</td> </tr> </table>	Terminal No.	16	Wire	Terminal No.	15	Wire	Terminal No.	14	Wire	Terminal No.	13	Wire	Terminal No.	12	Wire	Terminal No.	11	Wire	Terminal No.	10	Wire	Terminal No.	9	Wire	Terminal No.	8	Wire	Terminal No.	7	Wire	Terminal No.	6	Wire	Terminal No.	5	Wire	Terminal No.	4	Wire	Terminal No.	3	Wire	Terminal No.	2	Wire	Terminal No.	1	Wire			
Connector No.	M6																																																																
Connector Name	WIRE TO WIRE																																																																
Connector Type	TH80MM-CS16-TM4																																																																
Connector No.	TH80MM-CS16-TM4																																																																
Connector Name	WIRE TO WIRE																																																																
Connector Type	TH80MM-CS16-TM4																																																																
Terminal No.	16	Wire																																																															
Terminal No.	15	Wire																																																															
Terminal No.	14	Wire																																																															
Terminal No.	13	Wire																																																															
Terminal No.	12	Wire																																																															
Terminal No.	11	Wire																																																															
Terminal No.	10	Wire																																																															
Terminal No.	9	Wire																																																															
Terminal No.	8	Wire																																																															
Terminal No.	7	Wire																																																															
Terminal No.	6	Wire																																																															
Terminal No.	5	Wire																																																															
Terminal No.	4	Wire																																																															
Terminal No.	3	Wire																																																															
Terminal No.	2	Wire																																																															
Terminal No.	1	Wire																																																															
<table border="1"> <tr> <td>Connector No.</td> <td>M2</td> </tr> <tr> <td>Connector Name</td> <td>FUSE BLOCK (J/B)</td> </tr> <tr> <td>Connector Type</td> <td>NS32FW-CS</td> </tr> </table>  <p>HS.</p>	Connector No.	M2	Connector Name	FUSE BLOCK (J/B)	Connector Type	NS32FW-CS	<table border="1"> <tr> <td>Connector No.</td> <td>M2</td> </tr> <tr> <td>Connector Name</td> <td>FUSE BLOCK (J/B)</td> </tr> <tr> <td>Connector Type</td> <td>NS32FW-CS</td> </tr> </table>	Connector No.	M2	Connector Name	FUSE BLOCK (J/B)	Connector Type	NS32FW-CS	<table border="1"> <tr> <td>Terminal No.</td> <td>17</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>16</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>15</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>14</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>13</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>12</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>11</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>10</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>9</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>8</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>7</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>6</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>5</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>4</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>3</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>2</td> <td>Wire</td> </tr> <tr> <td>Terminal No.</td> <td>1</td> <td>Wire</td> </tr> </table>	Terminal No.	17	Wire	Terminal No.	16	Wire	Terminal No.	15	Wire	Terminal No.	14	Wire	Terminal No.	13	Wire	Terminal No.	12	Wire	Terminal No.	11	Wire	Terminal No.	10	Wire	Terminal No.	9	Wire	Terminal No.	8	Wire	Terminal No.	7	Wire	Terminal No.	6	Wire	Terminal No.	5	Wire	Terminal No.	4	Wire	Terminal No.	3	Wire	Terminal No.	2	Wire	Terminal No.	1	Wire
Connector No.	M2																																																																
Connector Name	FUSE BLOCK (J/B)																																																																
Connector Type	NS32FW-CS																																																																
Connector No.	M2																																																																
Connector Name	FUSE BLOCK (J/B)																																																																
Connector Type	NS32FW-CS																																																																
Terminal No.	17	Wire																																																															
Terminal No.	16	Wire																																																															
Terminal No.	15	Wire																																																															
Terminal No.	14	Wire																																																															
Terminal No.	13	Wire																																																															
Terminal No.	12	Wire																																																															
Terminal No.	11	Wire																																																															
Terminal No.	10	Wire																																																															
Terminal No.	9	Wire																																																															
Terminal No.	8	Wire																																																															
Terminal No.	7	Wire																																																															
Terminal No.	6	Wire																																																															
Terminal No.	5	Wire																																																															
Terminal No.	4	Wire																																																															
Terminal No.	3	Wire																																																															
Terminal No.	2	Wire																																																															
Terminal No.	1	Wire																																																															

JRNWD7397GB

# COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

## METER

Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	Color Of Wire	Signal Name [Specification]	Connector No.	Color Of Wire	Signal Name [Specification]
18	P	-	22	SHIELD	-	22	SHIELD	-
20	L	-	23	LG	-	24	G	-
31	L	-	25	R	-	51	R	-
32	Y	-	52	G	-	53	Y	-
36	R	-	54	BR	-	59	L	-
37	Y	-	60	P	-	60	P	-
38	R	-						
39	SB	-						
41	V	-						
42	LG	-						
43	P	-						
44	B	-						
45	BG	-						
46	G	-						
47	L	-						
48	P	-						
49	L	-						
66	Y	-						
67	G	-						
80	SB	-						
81	B	-						
82	V	-						
83	W	-						
84	L	-						
85	GR	-						
89	LG	-						
91	W	-						
93	Y	-						
95	Y	-						
97	GR	-						
98	SHIELD	-						
99	V	-						
100	SB	-						
74	V	-	20	R	-	21	G	-
81	W	-	22	B	-	24	BR	-
82	BR	-	84	LG	-	85	Y	-
84	LG	-	85	LG	-	86	Y	-
86	SB	-	86	SB	-	87	Y	-
88	GR	-	88	GR	-	89	Y	-
89	L	-	89	L	-	90	P	-
90	P	-	92	L	-	93	P	-
93	P	-	95	EG	-			

JRNWD7398GB

O  
P

A  
W  
C  
D  
M  
T  
I  
K  
L  
G  
WCS

# COMBINATION METER

**< ECU DIAGNOSIS INFORMATION >**

METER			
37	Y	ENTER SWITCH SIGNAL	
38	G	TRIP A/B RESET SWITCH SIGNAL	
39	P	ILLUMINATION CONTROL SWITCH SIGNAL (-)	
40	EC	ILLUMINATION CONTROL SWITCH SIGNAL (+)	
Connector No.	M64		
Connector Name	METER CONTROL SWITCH		
Connector Type	TH12FVN-NH		

H.S.			
1	Y	MANUAL MODE SIGNAL	
11	G	NON-MANUAL MODE SIGNAL	
14	BR	COMMUNICATION SIGNAL (ICD-AMP)	
23	Y	A/T SNOW MODE SHIFT UP SIGNAL	
25	V	MANUAL MODE SHIFT DOWN SIGNAL	
27	LG	COMMUNICATION SIGNAL (METER-AMP)	
28	R	VEHICLE SPEED SIGNAL (0-PULSE)	
30	V	PARKING BRAKE SWITCH SIGNAL	
34	Y	COMMUNICATION SIGNAL (AMP-LCD)	
38	P	BLOWER MOTOR CONTROL SIGNAL	

H.S.			
41	G	ACCELERATOR PEDAL POSITION SENSOR	
42	G	ACCELERATOR PEDAL POSITION SENSOR	
43	G	ACCELERATOR PEDAL POSITION SENSOR	
44	G	ACCELERATOR PEDAL POSITION SENSOR	
45	G	ACCELERATOR PEDAL POSITION SENSOR	
46	G	ACCELERATOR PEDAL POSITION SENSOR	
51	G	ACCELERATOR PEDAL POSITION SENSOR	
52	G	ACCELERATOR PEDAL POSITION SENSOR	
53	G	ACCELERATOR PEDAL POSITION SENSOR	
54	G	ACCELERATOR PEDAL POSITION SENSOR	
55	G	ACCELERATOR PEDAL POSITION SENSOR	
56	G	ACCELERATOR PEDAL POSITION SENSOR	
61	G	ACCELERATOR PEDAL POSITION SENSOR	
62	G	ACCELERATOR PEDAL POSITION SENSOR	
63	G	ACCELERATOR PEDAL POSITION SENSOR	
71	G	ACCELERATOR PEDAL POSITION SENSOR	
72	G	ACCELERATOR PEDAL POSITION SENSOR	
73	G	ACCELERATOR PEDAL POSITION SENSOR	
74	G	ACCELERATOR PEDAL POSITION SENSOR	
75	G	ACCELERATOR PEDAL POSITION SENSOR	
76	G	ACCELERATOR PEDAL POSITION SENSOR	
77	G	ACCELERATOR PEDAL POSITION SENSOR	
78	G	ACCELERATOR PEDAL POSITION SENSOR	
79	G	ACCELERATOR PEDAL POSITION SENSOR	
80	G	ACCELERATOR PEDAL POSITION SENSOR	
81	G	ACCELERATOR PEDAL POSITION SENSOR	
82	G	ACCELERATOR PEDAL POSITION SENSOR	
83	G	ACCELERATOR PEDAL POSITION SENSOR	
84	G	ACCELERATOR PEDAL POSITION SENSOR	
85	G	ACCELERATOR PEDAL POSITION SENSOR	
86	G	ACCELERATOR PEDAL POSITION SENSOR	
87	G	ACCELERATOR PEDAL POSITION SENSOR	
88	G	ACCELERATOR PEDAL POSITION SENSOR	
89	G	ACCELERATOR PEDAL POSITION SENSOR	
90	G	ACCELERATOR PEDAL POSITION SENSOR	
91	G	ACCELERATOR PEDAL POSITION SENSOR	
92	G	ACCELERATOR PEDAL POSITION SENSOR	
93	G	ACCELERATOR PEDAL POSITION SENSOR	
94	G	ACCELERATOR PEDAL POSITION SENSOR	
95	G	ACCELERATOR PEDAL POSITION SENSOR	
96	G	ACCELERATOR PEDAL POSITION SENSOR	
97	G	ACCELERATOR PEDAL POSITION SENSOR	
98	G	ACCELERATOR PEDAL POSITION SENSOR	
99	G	ACCELERATOR PEDAL POSITION SENSOR	
100	G	ACCELERATOR PEDAL POSITION SENSOR	
101	G	ACCELERATOR PEDAL POSITION SENSOR	
102	G	ACCELERATOR PEDAL POSITION SENSOR	
103	G	ACCELERATOR PEDAL POSITION SENSOR	
104	G	ACCELERATOR PEDAL POSITION SENSOR	
105	G	ACCELERATOR PEDAL POSITION SENSOR	
106	G	ACCELERATOR PEDAL POSITION SENSOR	
107	G	ACCELERATOR PEDAL POSITION SENSOR	
108	G	ACCELERATOR PEDAL POSITION SENSOR	
109	G	ACCELERATOR PEDAL POSITION SENSOR	
110	G	ACCELERATOR PEDAL POSITION SENSOR	
111	G	ACCELERATOR PEDAL POSITION SENSOR	
112	G	ACCELERATOR PEDAL POSITION SENSOR	
113	G	ACCELERATOR PEDAL POSITION SENSOR	
114	G	ACCELERATOR PEDAL POSITION SENSOR	
115	G	ACCELERATOR PEDAL POSITION SENSOR	
116	G	ACCELERATOR PEDAL POSITION SENSOR	
117	G	ACCELERATOR PEDAL POSITION SENSOR	
118	G	ACCELERATOR PEDAL POSITION SENSOR	
119	G	ACCELERATOR PEDAL POSITION SENSOR	
120	G	ACCELERATOR PEDAL POSITION SENSOR	
121	G	ACCELERATOR PEDAL POSITION SENSOR	
122	G	ACCELERATOR PEDAL POSITION SENSOR	
123	G	ACCELERATOR PEDAL POSITION SENSOR	
124	G	ACCELERATOR PEDAL POSITION SENSOR	
125	G	ACCELERATOR PEDAL POSITION SENSOR	
126	G	ACCELERATOR PEDAL POSITION SENSOR	
127	G	ACCELERATOR PEDAL POSITION SENSOR	
128	G	ACCELERATOR PEDAL POSITION SENSOR	

H.S.			
41	G	STOP LAMP SWITCH SIGNAL	
42	L	MANUAL MODE SHIFT UP SIGNAL	
43	GR	COMMUNICATION SIGNAL (AMP-METER)	
44	L	VEHICLE SPEED SIGNAL (0-PULSE)	
45	SB	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)	

JRNWD7399GB

# COMBINATION METER

**< ECU DIAGNOSIS INFORMATION >**

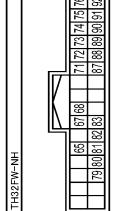
METER		Connector No.	M122	Connector Name	BCM (BODY CONTROL MODULE)		Connector No.	M123	Connector Name	BCM (BODY CONTROL MODULE)		Connector No.	M137	Connector Name	A/T SHIFT SELECTOR		Connector Type	TH40FB-NH		Connector No.	TH2FN-NH	Connector Name	A/T SHIFT SELECTOR		Connector Type	TH12FN-NH		Connector No.	TH40FG-NH	Connector Name	A/T SHIFT SELECTOR		Connector Type	TH12FG-NH	
72	R	ROOM ANT +	112	GC	ORIGINAL SENSOR	4	6	Y	4	6	Y	4	6	Y	4	6	Y	4	6	Y	4	6	Y	4	6	Y	4	6	Y	4	6	Y			
73	G	ROOM ANT -	116	SB	STOP AND SW 1	2	3	V	116	SB	STOP AND SW 1	2	3	L	116	SB	STOP AND SW 1	2	3	V	116	SB	STOP AND SW 1	2	3	L	116	SB	STOP AND SW 1	2	3	V			
74	SB	PASSENGER DOOR ANT+	118	BR	DR DOOR UNLOCK SENSOR	4	5	B	118	BR	DR DOOR UNLOCK SENSOR	4	5	G	118	BR	DR DOOR UNLOCK SENSOR	4	5	B	118	BR	DR DOOR UNLOCK SENSOR	4	5	G	118	BR	DR DOOR UNLOCK SENSOR	4	5	B			
75	BR	PASSENGER DOOR ANT-	121	SB	KEY SLOT SW	5	6	G	121	SB	KEY SLOT SW	5	6	B	121	SB	KEY SLOT SW	5	6	G	121	SB	KEY SLOT SW	5	6	B	121	SB	KEY SLOT SW	5	6	G			
76	V	DRIVER DOOR ANT+	123	V	IGN F/B	7	8	Y	123	V	IGN F/B	7	8	Y	123	V	IGN F/B	7	8	Y	123	V	IGN F/B	7	8	Y	123	V	IGN F/B	7	8	Y			
77	LG	DRIVER DOOR ANT-	124	R	PASSENGER DOOR SW	8	9	LG	124	R	PASSENGER DOOR SW	8	9	LG	124	R	PASSENGER DOOR SW	8	9	LG	124	R	PASSENGER DOOR SW	8	9	LG	124	R	PASSENGER DOOR SW	8	9	LG			
78	Y	ROOM ANT +	129	BG	TRUNK LID OPENER CANCEL SW	9	10	GR	129	BG	TRUNK LID OPENER CANCEL SW	9	10	GR	129	BG	TRUNK LID OPENER CANCEL SW	9	10	GR	129	BG	TRUNK LID OPENER CANCEL SW	9	10	GR	129	BG	TRUNK LID OPENER CANCEL SW	9	10	GR			
79	BR	ROOM ANT -	132	V	POWER WINDOW SW COMM	10	11	R	132	V	POWER WINDOW SW COMM	10	11	R	132	V	POWER WINDOW SW COMM	10	11	R	132	V	POWER WINDOW SW COMM	10	11	R	132	V	POWER WINDOW SW COMM	10	11	R			
80	GR	NAT ANT AMP	133	L	PLUSH-BUTTON IGNITION SWILL POWER LOCK IND	11	12	GR	133	L	PLUSH-BUTTON IGNITION SWILL POWER LOCK IND	11	12	GR	133	L	PLUSH-BUTTON IGNITION SWILL POWER LOCK IND	11	12	GR	133	L	PLUSH-BUTTON IGNITION SWILL POWER LOCK IND	11	12	GR	133	L	PLUSH-BUTTON IGNITION SWILL POWER LOCK IND	11	12	GR			
81	W	NAT ANT AMP	134	LG	IGN RELAY (F/B) CONT	12	13	LG	134	LG	IGN RELAY (F/B) CONT	12	13	LG	134	LG	IGN RELAY (F/B) CONT	12	13	LG	134	LG	IGN RELAY (F/B) CONT	12	13	LG	134	LG	IGN RELAY (F/B) CONT	12	13	LG			
82	SB	KEYLESS ENTRY RECEIVER COMM	137	Y	KEYLESS ENTRY RECEIVER COMM	13	14	SB	137	Y	KEYLESS ENTRY RECEIVER COMM	13	14	SB	137	Y	KEYLESS ENTRY RECEIVER COMM	13	14	SB	137	Y	KEYLESS ENTRY RECEIVER COMM	13	14	SB	137	Y	KEYLESS ENTRY RECEIVER COMM	13	14	SB			
83	Y	COMBI SW INPUT 5	138	V	RECEIVER - SENSOR GND	15	16	SB	138	V	RECEIVER - SENSOR POWER SUPPLY	15	16	SB	138	V	RECEIVER - SENSOR POWER SUPPLY	15	16	SB	138	V	RECEIVER - SENSOR POWER SUPPLY	15	16	SB	138	V	RECEIVER - SENSOR POWER SUPPLY	15	16	SB			
87	Y	COMBI SW INPUT 3	139	L	TIRE PRESSURE RECEIVER COMM	17	18	SB	139	L	TIRE PRESSURE RECEIVER COMM	17	18	SB	139	L	TIRE PRESSURE RECEIVER COMM	17	18	SB	139	L	TIRE PRESSURE RECEIVER COMM	17	18	SB	139	L	TIRE PRESSURE RECEIVER COMM	17	18	SB			
88	BS	CAN-L	140	P	SHIFT IN P.	19	20	SB	140	P	SHIFT IN P.	19	20	SB	140	P	SHIFT IN P.	19	20	SB	140	P	SHIFT IN P.	19	20	SB	140	P	SHIFT IN P.	19	20	SB			
90	P	CAN-H	141	W	SECURITY AND LAMP CONT	21	22	LG	141	W	SECURITY AND LAMP CONT	21	22	LG	141	W	SECURITY AND LAMP CONT	21	22	LG	141	W	SECURITY AND LAMP CONT	21	22	LG	141	W	SECURITY AND LAMP CONT	21	22	LG			
91	L	KEY SLOT III CONT	142	BR	COMBI SW OUTPUT 5	23	24	BR	142	BR	COMBI SW OUTPUT 5	23	24	BR	142	BR	COMBI SW OUTPUT 5	23	24	BR	142	BR	COMBI SW OUTPUT 5	23	24	BR	142	BR	COMBI SW OUTPUT 5	23	24	BR			
92	LG	ON/IND	143	P	COMBI SW OUTPUT 1	25	26	BR	143	P	COMBI SW OUTPUT 1	25	26	BR	143	P	COMBI SW OUTPUT 1	25	26	BR	143	P	COMBI SW OUTPUT 1	25	26	BR	143	P	COMBI SW OUTPUT 1	25	26	BR			
95	BR	ACC DELAY CONT	144	G	COMBI SW OUTPUT 2	27	28	BR	144	G	COMBI SW OUTPUT 2	27	28	BR	144	G	COMBI SW OUTPUT 2	27	28	BR	144	G	COMBI SW OUTPUT 2	27	28	BR	144	G	COMBI SW OUTPUT 2	27	28	BR			
96	GR	A/T SHIFT SELECTOR POWER SUPPLY	145	LG	COMBI SW OUTPUT 3	29	30	BR	145	LG	COMBI SW OUTPUT 3	29	30	BR	145	LG	COMBI SW OUTPUT 3	29	30	BR	145	LG	COMBI SW OUTPUT 3	29	30	BR	145	LG	COMBI SW OUTPUT 3	29	30	BR			
99	R	COMBI SW INPUT P	146	SB	COMBI SW OUTPUT 4	31	32	BR	146	SB	COMBI SW OUTPUT 4	31	32	BR	146	SB	COMBI SW OUTPUT 4	31	32	BR	146	SB	COMBI SW OUTPUT 4	31	32	BR	146	SB	COMBI SW OUTPUT 4	31	32	BR			
100	Y	PASSENGER DOOR REQUEST SW	150	GR	DRIVER DOOR REQUEST SW	33	34	BR	150	GR	DRIVER DOOR REQUEST SW	33	34	BR	150	GR	DRIVER DOOR REQUEST SW	33	34	BR	150	GR	DRIVER DOOR REQUEST SW	33	34	BR	150	GR	DRIVER DOOR REQUEST SW	33	34	BR			
101	P	BLOWER FAN MOTOR RELAY CONT	151	G	REAR WINDOW DEFOGGER RELAY/CONT	35	36	BR	151	G	REAR WINDOW DEFOGGER RELAY/CONT	35	36	BR	151	G	REAR WINDOW DEFOGGER RELAY/CONT	35	36	BR	151	G	REAR WINDOW DEFOGGER RELAY/CONT	35	36	BR	151	G	REAR WINDOW DEFOGGER RELAY/CONT	35	36	BR			
102	BG	KEYLESS ENTRY RECEIVER POWER SUPPLY	152	P	KEYLESS ENTRY RECEIVER POWER SUPPLY	37	38	BR	152	P	KEYLESS ENTRY RECEIVER POWER SUPPLY	37	38	BR	152	P	KEYLESS ENTRY RECEIVER POWER SUPPLY	37	38	BR	152	P	KEYLESS ENTRY RECEIVER POWER SUPPLY	37	38	BR	152	P	KEYLESS ENTRY RECEIVER POWER SUPPLY	37	38	BR			
103	P	COMBI SW INPUT 1	153	W	COMBI SW INPUT 1	39	40	BR	153	W	COMBI SW INPUT 1	39	40	BR	153	W	COMBI SW INPUT 1	39	40	BR	153	W	COMBI SW INPUT 1	39	40	BR	153	W	COMBI SW INPUT 1	39	40	BR			
107	LG	COMBI SW INPUT 4	154	R	COMBI SW INPUT 4	41	42	BR	154	R	COMBI SW INPUT 4	41	42	BR	154	R	COMBI SW INPUT 4	41	42	BR	154	R	COMBI SW INPUT 4	41	42	BR	154	R	COMBI SW INPUT 4	41	42	BR			
108	R	COMBI SW INPUT 2	155	W	COMBI SW INPUT 2	43	44	BR	155	W	COMBI SW INPUT 2	43	44	BR	155	W	COMBI SW INPUT 2	43	44	BR	155	W	COMBI SW INPUT 2	43	44	BR	155	W	COMBI SW INPUT 2	43	44	BR			
109	W	HAZARD SW	156	G	HAZARD SW	45	46	BR	156	G	HAZARD SW	45	46	BR	156	G	HAZARD SW	45	46	BR	156	G	HAZARD SW	45	46	BR	156	G	HAZARD SW	45	46	BR			

WCS

JRNWD7400GB

# COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER	Connector No.	M210
	Connector Name	AV CONTROL UNIT
	Connector Type	T162FVN-HH
		
Terminal No.	Color Of Wire	Signal Name [Specification]
65	SB	PARKING BRAKE
67	D	COMPOSITE IMAGE GND
68	L	COMPOSITE IMAGE SIGNAL
71	SHEILD	MICROPHONE GND
72	G	MICROPHONE VCC
73	P	COMM (CON-TDSP)
74	P	CAN-L
75	LG	AV COMM (L)
76	LG	AV COMM (L)
79	L	ILLUMINATION
80	G	IGNITION
81	BG	REVERSE
82	R	VEHICLE SPEED (8-PULSE)
83	SHEILD	SHEILD
87	R	MICROPHONE SIGNAL
88	SHEILD	SHEILD
89	L	COMM (DISP-CONT)
90	L	CAN-H
91	SB	AV COMM (4)
92	SB	AV COMM (4)

JRNWD7401GB

INFOID:0000000011400252

## Fail-safe

### FAIL-SAFE

Combination meter performs fail-safe operation when unified meter and A/C amp. communication is malfunction.

Solution for communication error between the unified meter and A/C amp. and combination meter.

# COMBINATION METER

## < ECU DIAGNOSIS INFORMATION >

Function	Specifications	
Speedometer		A
Tachometer		B
Fuel gauge	Reset to zero by suspending communication.	C
Engine coolant temperature gauge		D
Information display	<p>Door open warning Parking brake release warning Low tire pressure warning Fuel filler cap warning Instantaneous fuel warning Average fuel consumption Average vehicle speed Travel distance</p> <ul style="list-style-type: none"> <li>• When reception time of an abnormal signal is 2 seconds or less, the last received datum is used for calculation to indicate the result.</li> <li>• When reception time of an abnormal signal is more than two seconds, the last result calculated during normal condition is indicated.</li> </ul>	E
Illumination control	When suspending communication, change to nighttime mode.	F
Buzzer	The buzzer turns off by suspending communication.	G
Warning lamp/indicator lamp	<p>ABS warning lamp Brake warning lamp CRUISE warning lamp Malfunction indicator lamp High beam indicator Turn signal indicator lamp Oil pressure warning lamp A/T CHECK warning lamp VDC warning lamp VDC OFF indicator lamp AWD warning lamp Low tire pressure warning lamp Key warning lamp AFS OFF indicator lamp Master warning lamp Tail lamp indicator lamp Front fog lamp indicator lamp</p> <p>The lamp turns on by suspending communication.</p> <p>The lamp turns off by suspending communication.</p>	H

## DTC Index

INFOID:0000000011400253

Refer to [WCS-65, "DTC Index"](#).

WCS

O

P

# UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

## UNIFIED METER AND A/C AMP.

### Reference Value

INFOID:0000000011400255

### VALUES ON THE DIAGNOSIS TOOL

#### NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

#### CONSULT MONITOR ITEM

Monitor Item	Condition		Value/Status
SPEED METER [km/h]	Ignition switch ON	While driving	Equivalent to speedometer reading <b>NOTE:</b> 655.35 is displayed when the malfunction signal is received
SPEED OUTPUT [km/h]	Ignition switch ON	While driving	Equivalent to speedometer reading <b>NOTE:</b> 655.35 is displayed when the malfunction signal is received
ODO OUTPUT [km/h] or [mph]	Ignition switch ON	—	Equivalent to odometer reading in combination meter
TACHO METER [rpm]	Ignition switch ON	While driving	Equivalent to tachometer reading <b>NOTE:</b> 8191.875 is displayed when the malfunction signal is received
FUEL METER [lit.]	Ignition switch ON	—	Values according to fuel level
W TEMP METER [°C]	Ignition switch ON	—	Values according to engine coolant temperature <b>NOTE:</b> 215 is displayed when the malfunction signal is input
FUEL CAP W/L	Ignition switch ON	Fuel filler cap warning display ON	On
		Fuel filler cap warning display OFF	Off
ABS W/L	Ignition switch ON	ABS warning lamp ON	On
		ABS warning lamp OFF	Off
VDC/TCS IND	Ignition switch ON	VDC OFF indicator lamp ON	On
		VDC OFF indicator lamp OFF	Off
SLIP IND	Ignition switch ON	VDC warning lamp ON	On
		VDC warning lamp OFF	Off
BRAKE W/L	Ignition switch ON	Brake warning lamp ON	On
		Brake warning lamp OFF	Off
DOOR W/L	Ignition switch ON	Door warning displayed	On
		Door warning not displayed	Off
TRUNK/GLAS-H	Ignition switch ON	Trunk warning displayed	On
		Trunk warning not displayed	Off
HI-BEAM IND	Ignition switch ON	Hi-beam indicator lamp ON	On
		Hi-beam indicator lamp OFF	Off
TURN IND	Ignition switch ON	Turn indicator lamp ON	On
		Turn indicator lamp OFF	Off
FR FOG IND	Ignition switch ON	Front fog lamp indicator lamp ON	On
		Front fog lamp indicator lamp OFF	Off

# UNIFIED METER AND A/C AMP.

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition		Value/Status
RR FOG IND	Ignition switch ON	<b>NOTE:</b> This item is displayed, but cannot be monitored.	Off
LIGHT IND	Ignition switch ON	Tail lamp indicator lamp ON	On
		Tail lamp indicator lamp OFF	Off
OIL W/L	Ignition switch ON	Oil pressure warning lamp ON	On
		Oil pressure warning lamp OFF	Off
MIL	Ignition switch ON	Malfunction warning lamp ON	On
		Malfunction warning lamp OFF	Off
GLOW IND	Ignition switch ON	<b>NOTE:</b> This item is displayed, but cannot be monitored.	Off
C-ENG2 W/L	Ignition switch ON	<b>NOTE:</b> This item is displayed, but cannot be monitored.	Off
CRUISE IND	Ignition switch ON	Cruise indicator displayed	On
		Cruise indicator not displayed	Off
SET IND	Ignition switch ON	Set indicator lamp ON	On
		Set indicator lamp OFF	Off
CRUISE W/L	Ignition switch ON	Cruise warning lamp ON	On
		Cruise warning lamp OFF	Off
BA W/L	Ignition switch ON	<b>NOTE:</b> This item is displayed, but cannot be monitored.	Off
ATC/T-AMT W/L	Ignition switch ON	A/T check warning lamp ON	On
		A/T check warning lamp OFF	Off
4WD W/L	Ignition switch ON	AWD warning lamp ON	On
		AWD warning lamp OFF	Off
4WD LOCK IND	Ignition switch ON	<b>NOTE:</b> This item is displayed, but cannot be monitored.	Off
FUEL W/L	Ignition switch ON	Low-fuel warning displayed	On
		Low-fuel warning not displayed	Off
WASHER W/L	Ignition switch ON	Washer warning displayed	On
		Washer warning not displayed	Off
AIR PRES W/L	Ignition switch ON	Low tire pressure lamp ON	On
		Low tire pressure lamp OFF	Off
KEY G/Y W/L	Ignition switch ON	Key warning lamp ON	On
		Key warning lamp OFF	Off
AFS OFF IND	Ignition switch ON	AFS OFF indicator lamp ON	On
		AFS OFF indicator lamp OFF	Off
4WAS/RAS W/L	Ignition switch ON	<b>NOTE:</b> This item is displayed, but cannot be monitored.	Off
DDS W/L	Ignition switch ON	<b>NOTE:</b> This item is displayed, but cannot be monitored.	Off

A

B

C

D

E

F

G

H

I

J

K

L

M

WCS

O

P

# UNIFIED METER AND A/C AMP.

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition		Value/Status
LANE W/L	Ignition switch ON	<b>NOTE:</b> This item is displayed, but cannot be monitored.	Off
LDP IND	Ignition switch ON	<b>NOTE:</b> This item is displayed, but cannot be monitored.	Off
LCD	Ignition switch ON	Engine start information display	B&P I
	Ignition switch ACC	Engine start information display	B&P N
	Ignition switch LOCK	Key ID warning display	ID NG
	Ignition switch LOCK	Steering lock information display	ROTAT
	Ignition switch LOCK	P position warning display	SFT P
	Ignition switch LOCK	Intelligent Key insert information display	INSRT
	Ignition switch LOCK	Intelligent Key low battery warning display	BATT
	Ignition switch ON	Take away warning display	NO KY
	Ignition switch LOCK	Key warning display	OUTKY
	Ignition switch ON	ACC warning display	LK WN
ACC TARGET	Ignition switch ON	<b>NOTE:</b> This item is displayed, but cannot be monitored.	Off
ACC DISTANCE	Ignition switch ON	<b>NOTE:</b> This item is displayed, but cannot be monitored.	Off
ACC OWN VHL	Ignition switch ON	<b>NOTE:</b> This item is displayed, but cannot be monitored.	Off
ACC SET SPEED	Ignition switch ON	<b>NOTE:</b> This item is displayed, but cannot be monitored.	Off
ACC UNIT	Ignition switch ON	<b>NOTE:</b> This item is displayed, but cannot be monitored.	Off
O/D OFF SW	Ignition switch ON	<b>NOTE:</b> This item is displayed, but cannot be monitored.	Off

# UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

Monitor Item		Condition	Value/Status	
SHIFT IND	Ignition switch ON	Shift position indicator P display	P	A
		Shift position indicator R display	R	B
		Shift position indicator N display	N	C
		Shift position indicator D display	D	D
		Shift position indicator M1 display	M1	E
		Shift position indicator M2 display	M2	F
		Shift position indicator M3 display	M3	G
		Shift position indicator M4 display	M4	H
		Shift position indicator M5 display	M5	I
		Shift position indicator M6 display	M6	J
		Shift position indicator M7 display	M7	K
AT S MODE SW	Ignition switch ON	Snow mode switch ON	On	L
		Snow mode switch OFF	Off	M
AT P MODE SW	Ignition switch ON	<b>NOTE:</b> This item is displayed, but cannot be monitored.	Off	WCS
M RANGE SW	Ignition switch ON	Selector lever manual mode position	On	O
		Other than the above	Off	P
NM RANGE SW	Ignition switch ON	Selector lever manual mode position	Off	
		Other than the above	On	
AT SFT UP SW	Ignition switch ON	Selector lever + position	On	
		Other than the above	Off	
AT SFT DWN SW	Ignition switch ON	Selector lever – position	On	
		Other than the above	Off	
ST SFT UP SW	Ignition switch ON	<b>NOTE:</b> This item is displayed, but cannot be monitored.	Off	
ST SFT DWN SW	Ignition switch ON	<b>NOTE:</b> This item is displayed, but cannot be monitored.	Off	
COMP F/B SIG	Ignition switch ON	A/C compressor activation condition	On	
		A/C compressor deactivation condition	Off	
4WD LOCK SW	Ignition switch ON	<b>NOTE:</b> This item is displayed, but cannot be monitored.	Off	
PKB SW	Ignition switch ON	Parking brake switch ON	On	
		Parking brake switch OFF	Off	
BUCKLE SW	Ignition switch ON	Seat belt not fastened	On	
		Seat belt fastened	Off	
BRAKE OIL SW	Ignition switch ON	Brake fluid level switch ON	On	
		Brake fluid level switch OFF	Off	
DISTANCE [km]	Ignition switch ON	—	Possible driving distance calculated by unified meter and A/C amp.	
OUTSIDE TEMP [°C] or [°F]	Ignition switch ON	—	Equivalent to ambient temperature <b>NOTE:</b> This may not match the indicated value on the information display.	

# UNIFIED METER AND A/C AMP.

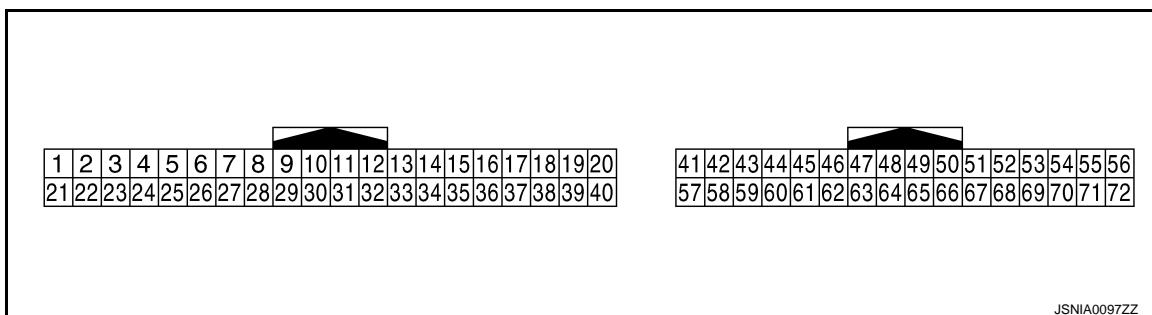
## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition		Value/Status
FUEL LOW SIG	Ignition switch ON	Low-fuel warning displayed	On
		Low-fuel warning not displayed	Off
BUZZER	Ignition switch ON	Buzzer ON	On
		Buzzer OFF	Off
ASCD REQ SPD	Ignition switch ON	While driving	Same value as ASCD or speed limiter set vehicle speed
ASCD STATUS	Ignition switch ON	ASCD and speed limiter system OFF	Off
		ASCD system ON	ASCD
		ASCD set vehicle speed	CRUISE
		Speed limiter system ON	SL ON
		Speed limiter set vehicle speed	SL SET
ASCD SPD BLNK	Ignition switch ON	Set vehicle speed indicator blinking	On
		Set vehicle speed indicator not blinking	Off

**NOTE:**

Some items are not available according to vehicle specification.

## TERMINAL LAYOUT

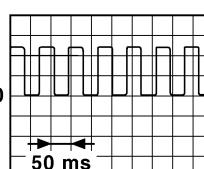
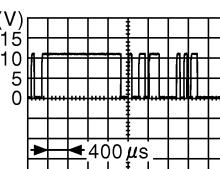
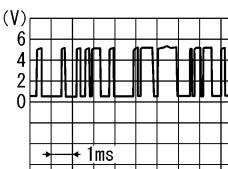
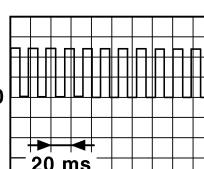


## PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
4 (G)	Ground	Stop lamp switch signal	Input	Ignition switch OFF	Brake pedal is depressed	12 V
					Other than the above	0 V
5 (L)	Ground	Manual mode shift up sig- nal	Input	Ignition switch ON	Selector lever UP operation	0 V
					Other than the above	12 V
7 (GR)	Ground	Communication signal (AMP. → METER)	Output	Ignition switch ON	—	(V) SKIA3362E

# UNIFIED METER AND A/C AMP.

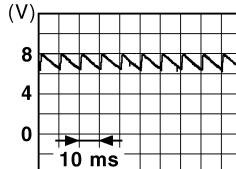
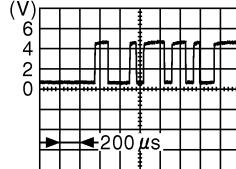
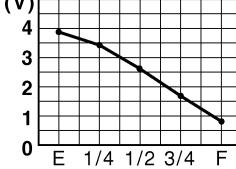
## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
8 (L)	Ground	Vehicle speed signal output (2-pulse)	Output	Ignition switch ON	Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)]	<b>NOTE:</b> The maximum voltage varies depending on the specification (destination unit).  JSNIA0015GB
9 (SB)	Ground	Seat belt buckle switch signal (driver side)	Input	Ignition switch ON	When seat belt is fastened	12 V
					When seat belt is not fastened	0 V
10 (W)	Ground	Manual mode signal	Input	Ignition switch ON	Selector lever DS position	0 V
					Other than the above	12 V
11 (G)	Ground	Not manual mode signal	Input	Ignition switch ON	Selector lever DS position	12 V
					Other than the above	0 V
14 (BR)	Ground	Communication signal (LCD → AMP.)	Input	Ignition switch ON	—	 JSNIA0028GB
23 (Y)	Ground	A/T snow switch signal	Input	Ignition switch ON	Snow mode switch ON	12 V
					Snow mode switch OFF	0 V
25 (V)	Ground	Manual mode shift down signal	Input	Ignition switch ON	Selector lever down operation	0 V
					Other than the above	12 V
27 (LG)	Ground	Communication signal (METER → AMP.)	Input	Ignition switch ON	—	 SKIA3361E
28 (R)	Ground	Vehicle speed signal (8-pulse)	Output	Ignition switch ON	Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)]	<b>NOTE:</b> The maximum voltage varies depending on the specification (destination unit).  JSNIA0012GB

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

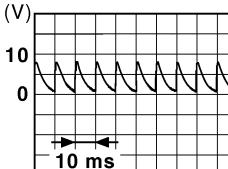
# UNIFIED METER AND A/C AMP.

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
30 (V)	Ground	Parking brake switch signal	Input	Ignition switch ON	Parking brake ON	0 V
					Parking brake OFF	 JSNIA0007GB
34 (Y)	Ground	Communication signal (AMP. → LCD)	Output	Ignition switch ON	—	 JSNIA0027GB
41 (L)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
42 (BR)	Ground	Fuel level sensor signal	Input	Ignition switch ON	—	 JSNIA0013GB
45 (V)	Ground	Ambient sensor signal	Input	—	—	 JSNIA0014GB
53 (W)	Ground	Ignition power supply	Input	Ignition switch ON	—	Battery voltage
54 (SB)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
55 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
56 (L)	Ground	CAN-H	—	—	—	—

# UNIFIED METER AND A/C AMP.

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
57 (LG)	Ground	Brake fluid level switch signal	Input	Ignition switch ON	Brake fluid level is normal.	 JSNIA0008GB
					The brake fluid level is lower than the low level	
58 (Y)	Ground	Fuel level sensor ground	—	Ignition switch ON	—	0 V
61 (B)	Ground	Ambient sensor ground	—	Ignition switch ON	—	0 V
71 (GR)	Ground	Ground	—	Ignition switch ON	—	0 V
72 (P)	Ground	CAN-L	—	—	—	—

A

B

C

D

E

F

G

H

I

J

K

L

M

WCS

O

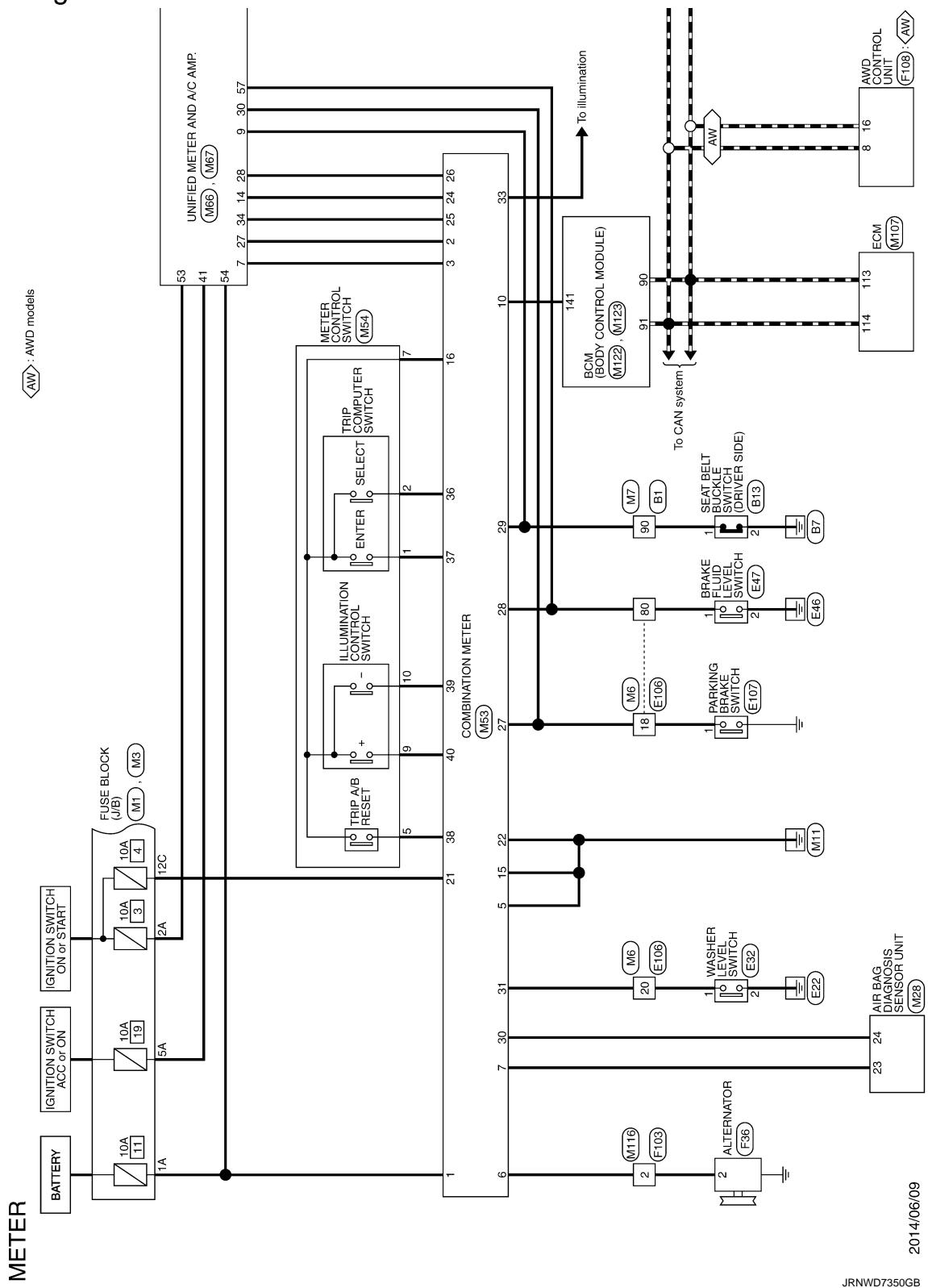
P

# UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

## Wiring Diagram - METER -

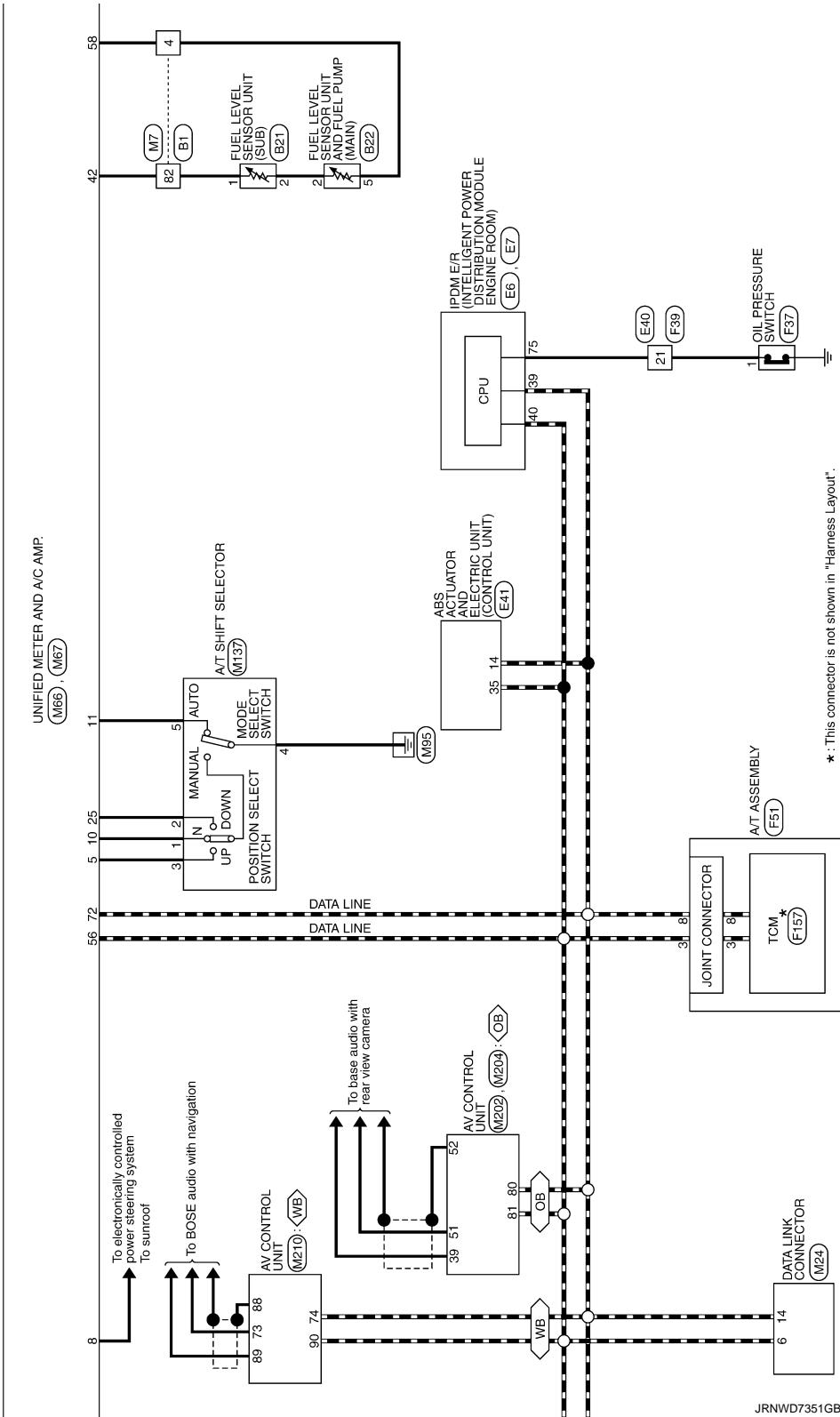
INFOID:000000011400256



# UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

WB : With BOSE system  
OB : Without BOSE system



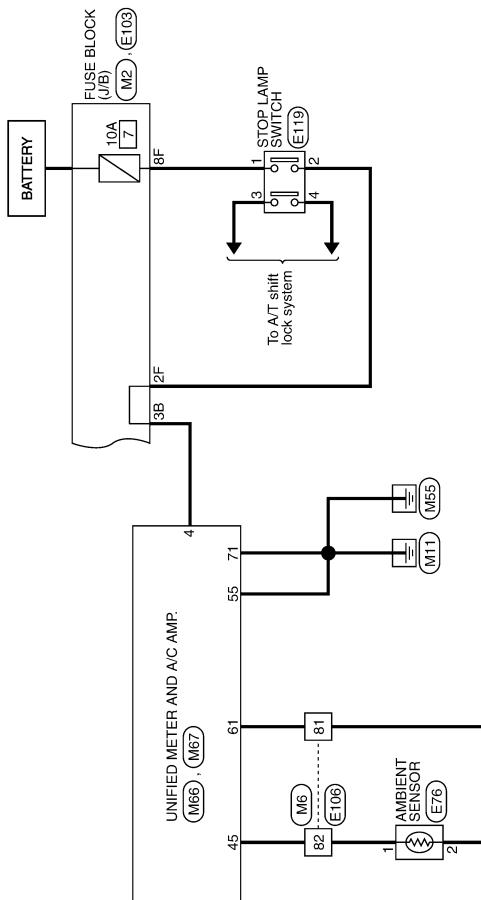
JRNWD7351GB

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

WCS

# UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >



JRNWD7352GB

# UNIFIED METER AND A/C AMP.

**< ECU DIAGNOSIS INFORMATION >**

METER		Connector No. B1		Connector No. E7	
Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
74	L	-	1	B	PWR & INTELLIGENT POWER DISTRIBUTION MODULE ENGINE
81	V	-	2	W	POWER SOURCE
82	B	-			
84	Y	-			
85	G	-			
86	W	-			
87	R	-			
88	BR	-			
89	Y	-			
90	SB	-			
92	BR	-			
93	P	-			
95	BG	-			

Connector No. B13		Connector No. B22		Connector No. E22	
Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-	1	GR	-
2	EG	-	2	Y	-
3	L	-	3	W	-
4	Y	-	4	P	-
6	R	-	5	SB	-
8	W	-	6	BR	-
9	LG	-	7	G	-
24	V	-	8	GR	-
25	SB	-	9	BR	-
26	G	-	10	BG	-
27	W	-	11	G	-
28	R	-	12	SB	-
31	V	-	13	GR	-
32	SB	-	14	BR	-
33	SHIELD	-	15	SB	-
34	W	-	16	Y	-
35	BR	-	17	R	-
36	Y	-	18	W	-
27	SHIELD	-			
39	Y	-			
39	SB	-			
40	P	-			
41	L	-			
42	SHIELD	-			
43	R	-			
44	G	-			
45	SHIELD	-			
46	SB	-			
55	BR	-			
56	R	-			
58	V	-			
59	SB	-			
71	BG	-			
72	GR	-			
73	P	-			

Connector No. B21		Connector No. E44		Connector No. E22	
Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-	42	GR	-
2	B	-	43	GR	-
39	SB	-	44	LG	-
40	P	-	45	V	-
41	L	-	46	SB	-

Connector No. E12		Connector No. E22		Connector No. E22	
Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
39	P	-	1	LG	-
40	L	-	2	B	-
41	B/W	-			
42	GR	-			
43	G	-			
44	LG	-			
45	V	-			
46	SB	-			

JRNWD7394GB

O

P

WCS

# UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

## METER

Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
1	L/Y	-	42	LG	-	41	GR	BRAKE FLUID LEVEL SWITCH
2	SHIELD	-	43	G	-	45	GR	CONNECTOR NAME SAAS6MB-RS8-5Hx3
3	IG	-	46	W	-	47	W	CONNECTOR TYPE YV02FGY
4	SHIELD	-	48	BR	-	49	G	CONNECTOR NO. E41
5	ERI	-	50	B	-	51	SB	CONNECTOR NAME BA44TEC-AHZ4-LH
7	G	-	52	R	-	53	GR	CONNECTOR TYPE RSU2FB
9	W	-						
10	Y	-						
11	P	-						
12	SB	-						
13	L	-						
14	G	-						
15	BS	-						
16	BR	-						
18	Y	-						
19	BG	-						
20	B	-						
21	SB	-						
22	W	-						
23	L	-						
24	OT	-						
25	Y	-						
27	OT	-						
28	V	-						
29	P	-						
30	R	-						
31	BR	-						
32	Y	-						
33	G	-						
34	BS	-						
35	L	-						
37	SHIELD	-						
38	L	-						
39	P	-						
40	R	-						
41	W	-						

JRNWD7395GB

# UNIFIED METER AND A/C AMP.

**< ECU DIAGNOSIS INFORMATION >**

METER			
Terminal No.	Color Of Wire	Signal Name [Specification]	
20	LG	-	
31	L	-	
32	RG	-	
36	SB	-	
37	Y	-	
38	R	-	
39	B	-	
41	R	-	
42	LG	-	
43	G	-	
44	GR	-	
45	BR	-	
46	LG	-	
47	V	-	
48	P	-	
49	L	-	
66	GR	-	
67	LG	-	
80	R	-	
81	P	-	
82	G	-	
83	V	-	
84	L	-	
85	W	-	
89	V	-	
91	W	-	
93	GR	-	
95	LG	-	
97	SB	-	
98	SHEILD	-	
99	L	-	
100	P	-	

PARKING BRAKE SWITCH			
Terminal No.	Color Of Wire	Signal Name [Specification]	
2	G	L	
3	V	S	
4	W	C	

F37			
Terminal No.	Color Of Wire	Signal Name [Specification]	
1	EG	OIL PRESSURE SWITCH	
		Connector Name	-
		Connector Type	E01FG7-RS-AF

E119			
Terminal No.	Color Of Wire	Signal Name [Specification]	
1	BR	STOP / LAMP SWITCH	
		Connector Name	MOFETV-LC
		Connector Type	

F39			
Terminal No.	Color Of Wire	Signal Name [Specification]	
1	L	WIRE TO WIRE	
2	W	-	
3	G	-	
4	V	-	

SA436FB-RS8-Shz2			
Terminal No.	Color Of Wire	Signal Name [Specification]	
1	BR	STOP / LAMP SWITCH	
2	LG	WIRE TO WIRE	
3	W	-	
4	GR	-	
5	LG	-	
6	GR	-	
7	SB	-	
8	V	-	
9	P	-	
10	Y	-	
11	LG	-	
12	GR	-	
13	SB	-	
14	LG	-	
15	R	-	
16	O	-	[AND models]
16	Y	-	[2WD models]
18	LG	-	
19	P	-	
20	LG	-	

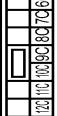
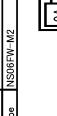
F51			
Terminal No.	Color Of Wire	Signal Name [Specification]	
1	LG	A/T ASSEMBLY	
2	W/L	-	
4	LG	REV(FG-DGT)	
5	BR	-	
7	G	-	

JRNWD7396GB

WCS

# UNIFIED METER AND A/C AMP.

**< ECU DIAGNOSIS INFORMATION >**

METER	
5 6 7 8 9 10	B G R P GR B
Connector No.	F108
Connector Name	AWD CONTROL UNIT
Connector Type	TH16FV-NHI
Connector No.	F103
Connector Name	WIRE TO WIRE:
Connector Type	TK3DFW-NS10
Terminal No.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
Color Of Wire	BP Y W G L O B P Y G L P L R Y
Signal Name [Specification]	AWD SOL (+) AWN SOL (-) FLUID TEMP (-) IGN CAN-H AWN SOL BAT GROUND B FLUID TEMP (+) BATTERY CAN-L
F157	
Connector No.	
Connector Name	TCM
Connector Type	SP10FG
Terminal No.	1 2 3 4 5 6 7 8 9 10
Color Of Wire	O Y B R B P Y B R B R
Signal Name [Specification]	—
F158	
Connector No.	F108
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS
	
Terminal No.	1 2 3 4 5 6 7 8 9 10
Color Of Wire	LG C SB G BG R Y SB GR
Signal Name [Specification]	—
M1	
Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS
	
Terminal No.	1 2 3 4 5 6 7 8 9 10
Color Of Wire	LG C SB G BG R Y SB GR
Signal Name [Specification]	—
M2	
Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS
	
Terminal No.	1 2 3 4 5 6 7 8 9 10
Color Of Wire	LG C SB G BG R Y SB GR
Signal Name [Specification]	—
M6	
Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	T180MM-CS16-TM4
	
Terminal No.	1 2 3 4 5 6 7 8 9 10
Color Of Wire	LG C SB G BG R Y SB GR
Signal Name [Specification]	—
M7	
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	T180MM-CS16-TM4
	
Terminal No.	1 2 3 4 5 6 7 8 9 10
Color Of Wire	LG C SB G BG R Y SB GR
Signal Name [Specification]	—

JRNWD7397GB

# UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

## METER

Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
18	P	-	2	SHIELD	-	22	SHIELD	-	1	LG	-	24	G	-	2	BD16P=	-	51	R	-
20	L	-	2	P	-	24	G	-	2	B	-	52	G	-	3	BD16P=	-	53	Y	-
31	L	-	3	P	-	54	BR	-	3	Y	-	59	L	-	37	Y	-	60	P	-
32	Y	-	4	Y	-	59	L	-	4	Y	-	60	P	-	38	R	-	60	P	-
36	R	-	6	L	-	53	Y	-	6	L	-	54	BR	-	39	SB	-	54	BR	-
37	Y	-	8	G	-	53	Y	-	9	Y	-	59	L	-	41	V	-	59	L	-
38	R	-	9	G	-	54	BR	-	24	V	-	60	P	-	42	LG	-	54	BR	-
39	SB	-	25	LG	-	59	L	-	25	LG	-	60	P	-	43	P	-	59	L	-
41	V	-	26	BR	-	59	L	-	27	BG	-	60	P	-	44	B	-	59	L	-
42	LG	-	28	LG	-	59	L	-	28	LG	-	60	P	-	45	BG	-	59	L	-
43	P	-	30	Y	-	59	L	-	31	Y	-	60	P	-	46	G	-	59	L	-
44	B	-	32	LG	-	59	L	-	32	LG	-	60	P	-	47	L	-	59	L	-
45	BG	-	33	SHIELD	-	59	L	-	33	SHIELD	-	60	P	-	48	P	-	59	L	-
46	G	-	34	GR	-	59	L	-	34	GR	-	60	P	-	49	L	-	59	L	-
47	L	-	35	BR	-	59	L	-	35	BR	-	60	P	-	67	G	-	59	L	-
48	P	-	36	Y	-	59	L	-	36	Y	-	60	P	-	80	SB	-	59	L	-
49	LG	-	37	SHIELD	-	59	L	-	37	SHIELD	-	60	P	-	81	B	-	59	L	-
50	BR	-	38	SB	-	59	L	-	38	SB	-	60	P	-	82	V	-	59	L	-
51	Y	-	39	LG	-	59	L	-	39	LG	-	60	P	-	83	W	-	59	L	-
52	W	-	40	O	-	59	L	-	40	O	-	60	P	-	84	L	-	59	L	-
53	GR	-	41	W	-	59	L	-	41	W	-	60	P	-	85	GR	-	59	L	-
54	LG	-	42	SHIELD	-	59	L	-	42	SHIELD	-	60	P	-	89	LG	-	59	L	-
55	W	-	43	R	-	59	L	-	43	R	-	60	P	-	91	Y	-	59	L	-
56	Y	-	44	G	-	59	L	-	44	G	-	60	P	-	93	Y	-	59	L	-
57	R	-	45	SHIELD	-	59	L	-	45	SHIELD	-	60	P	-	95	Y	-	59	L	-
58	G	-	46	SB	-	59	L	-	46	SB	-	60	P	-	97	GR	-	59	L	-
59	SB	-	55	W	-	59	L	-	55	W	-	60	P	-	98	SHIELD	-	59	L	-
60	SB	-	56	B	-	59	L	-	56	B	-	60	P	-	99	V	-	59	L	-
61	SB	-	59	Y	-	59	L	-	59	Y	-	60	P	-	100	SB	-	59	L	-
62	SB	-	71	Y	-	59	L	-	71	Y	-	60	P	-	72	P	-	59	L	-
63	SB	-	73	SB	-	59	L	-	73	SB	-	60	P	-	74	V	-	59	L	-
64	SB	-	81	W	-	59	L	-	81	W	-	60	P	-	82	BR	-	59	L	-
65	SB	-	84	LG	-	59	L	-	84	LG	-	60	P	-	85	BG	-	59	L	-
66	SB	-	86	SB	-	59	L	-	86	SB	-	60	P	-	87	G	-	59	L	-
67	GR	-	88	GR	-	59	L	-	88	GR	-	60	P	-	88	GR	-	59	L	-
68	GR	-	89	L	-	59	L	-	89	L	-	60	P	-	90	P	-	59	L	-
69	BR	-	90	P	-	59	L	-	90	P	-	60	P	-	92	L	-	59	L	-
70	P	-	93	P	-	59	L	-	93	P	-	60	P	-	93	P	-	59	L	-
71	P	-	95	BG	-	59	L	-	95	BG	-	60	P	-	95	BG	-	59	L	-

# UNIFIED METER AND A/C AMP.

**< ECU DIAGNOSIS INFORMATION >**

METER			
37	Y	ENTER SWITCH SIGNAL	
38	G	TRIP A/B RESET SWITCH SIGNAL	
39	P	ILLUMINATION CONTROL SWITCH SIGNAL (-)	
40	EC	ILLUMINATION CONTROL SWITCH SIGNAL (+)	
Connector No.	M64		
Connector Name	METER CONTROL SWITCH		
Connector Type	TH12FVN-NH		

UNIFIED METER AND A/C AMP.			
10	W	MANUAL MODE SIGNAL	
11	G	NON-MANUAL MODE SIGNAL	
14	BR	COMMUNICATION SIGNAL (A/C-AMP)	
23	Y	A/T SNOW MODE SHIFT UP SIGNAL	
25	V	MANUAL MODE SHIFT DOWN SIGNAL	
27	LG	COMMUNICATION SIGNAL (METER-AMP)	
28	R	VEHICLE SPEED SIGNAL (0-PULSE)	
30	V	PARKING BRAKE SWITCH SIGNAL	
34	Y	COMMUNICATION SIGNAL (AMP-LCD)	
38	P	BLOWER MOTOR CONTROL SIGNAL	

UNIFIED METER AND A/C AMP.			
Terminal	Color Of Wire	Signal Name [Specification]	Signal Name [Specification]
57	R	ACCELERATOR PEDAL POSITION SENSOR 1	-
58	P	ACCELERATOR PEDAL POSITION SENSOR 2	-
59	L	SENSOR POWER SUPPLY	-
60	W	SENSOR GROUND	-
61	SB	ASCO STEERING SWITCH	-
62	LG	EVAP CONTROL SYSTEM PRESSURE SENSOR	-
63	R	GR	-
64	GR	SENSOR POWER SUPPLY	-
65	V	SENSOR GROUND	-
66	Y	REFRIGERANT PRESSURE SENSOR	-
67	LG	FUEL TANK TEMPERATURE SENSOR	-
68	W	SENSOR POWER SUPPLY	-
69	Y	SENSOR GROUND	-
70	GR	PNP SWITCH	-
71	G	ENGINE SPEED OUTPUT SIGNAL	-
72	R	SENSOR GROUND	-
73	V	CAN COMMUNICATION LINE	-
74	P	CAN COMMUNICATION LINE	-
75	L	DATALINK CONNECTOR	-
76	Y	AMBNTD SENSOR SIGNAL	-
77	Y	SUNLOAD SENSOR SIGNAL	-
78	W	IGNITION POWER SUPPLY	-
79	SB	BATTERY POWER SUPPLY	-
80	Y	GROUND	-
81	B	ECM GROUND	-
82	EC	ECM GROUND	-
83	R	POWER SUPPLY FOR ECM	-
84	LG	ASD BRAKE SWITCH	-
85	R	ECM GROUND	-
86	EC	ECM GROUND	-
87	Y	FILE LEVEL SENSOR GROUND	-
88	GR	INTAKE SENSOR GROUND	-
89	W	IN-VEHICLE SENSOR GROUND	-
90	B	AMBIENT SENSOR GROUND	-
91	SB	SUNLOAD SENSOR GROUND	-
92	LG	ECV SIGNAL	-
93	R	A/C CLAN SIGNAL	-
94	Y	FILE DOOR MOTOR POWER SUPPLY GROUND	-
95	BR	ECM GROUND	-
96	B	ECM GROUND	-
97	P	CAN-L	-

UNIFIED METER AND A/C AMP.			
4	G	STOP LAMP SWITCH SIGNAL	
5	L	MANUAL MODE SHIFT UP SIGNAL	
7	GR	COMMUNICATION SIGNAL (AMP-METER)	
8	L	VEHICLE SPEED SIGNAL (0-PULSE)	
9	SB	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)	

JRNWD7399GB

# UNIFIED METER AND A/C AMP.

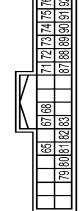
**< ECU DIAGNOSIS INFORMATION >**

METER		Connector No.	M122	Connector Name	BCM (BODY CONTROL MODULE)	Connector No.	M123	Connector Name	BCM (BODY CONTROL MODULE)	Connector Type	TH40FB-NH	Connector No.	M137	Connector Name	A/T SHIFT SELECTOR	Connector Type	TH2FN-HH		
																			
																			
																			
																			
Terminal No.	Color Of Wire	Signal Name [Specification]		Terminal No.	Color Of Wire	Signal Name [Specification]		Terminal No.	Color Of Wire	Signal Name [Specification]		Terminal No.	Color Of Wire	Signal Name [Specification]		Terminal No.	Color Of Wire	Signal Name [Specification]	
72	R	ROOM ANT +		112	BC	CRITICAL SENSOR		1	W	-		52	AV	AV CONTROL UNIT		76	LG	TH2SFN-NH	
73	G	ROOM ANT -		116	SB	STOP AND SW 1		2	Y	-		53	AV	AV CONTROL UNIT		77	SB	TH2SFN-NH	
74	SB	PASSENGER DOOR ANT+		118	BR	STOP AND SW 2		3	L	-		54	AV	AV CONTROL UNIT		78	BR	TH2SFN-NH	
75	BR	PASSENGER DOOR ANT-		119	SB	DR DOOR UNLOCK SENSOR		4	B	-		55	AV	AV CONTROL UNIT		79	BR	TH2SFN-NH	
76	V	DRIVER DOOR ANT+		121	SB	KEY SLOT SW		5	G	-		56	AV	AV CONTROL UNIT		80	BR	TH2SFN-NH	
77	LG	DRIVER DOOR ANT-		123	V	IGN F/B		6	Y	-		57	AV	AV CONTROL UNIT		81	BR	TH2SFN-NH	
78	Y	ROOM ANT +		124	R	PASSENGER DOOR SW		7	Y	-		58	AV	AV CONTROL UNIT		82	BR	TH2SFN-NH	
79	BR	ROOM ANT -		129	BG	TRUNK LID OPENER CANCEL SW		8	LG	-		59	AV	AV CONTROL UNIT		83	BR	TH2SFN-NH	
80	GR	NAT'S ANT AMP		132	V	POWER WINDOW SW COMM		9	B	-		60	AV	AV CONTROL UNIT		84	BR	TH2SFN-NH	
81	W	NAT'S ANT AMP		133	L	PUSH-BUTTON IGNITION SW/ILL POWER		10	GR	-		61	AV	AV CONTROL UNIT		85	BR	TH2SFN-NH	
82	SB	IGN RELAY (F/B) CONT		134	LG	LOCK IND		11	R	-		62	AV	AV CONTROL UNIT		86	BR	TH2SFN-NH	
83	Y	KEYLESS ENTRY RECEIVER COMM		137	BG	RECEIVER / SENSOR GND		12	SB	-		63	AV	AV CONTROL UNIT		87	BR	TH2SFN-NH	
87	Y	COMBI SW INPUT 5		138	V	RECEIVER / SENSOR POWER SUPPLY		13	SB	-		64	AV	AV CONTROL UNIT		88	BR	TH2SFN-NH	
88	BG	COMBI SW INPUT 3		139	L	TIRE PRESSURE RECEIVER COMM		14	SB	-		65	AV	AV CONTROL UNIT		89	BR	TH2SFN-NH	
90	P	CAN-L		140	B	SHIFT IN/P.		15	W	-		66	AV	AV CONTROL UNIT		90	P	CAN-L	
91	L	CAN-H		141	W	SECURITY AND LAMP CONT		16	LG	-		67	AV	AV CONTROL UNIT		91	LG	CAN-H	
92	LG	KEY SLOT ILL CONT		142	BR	COMBI SW OUTPUT 5		17	BR	-		68	AV	AV CONTROL UNIT		92	BR	CAN-H	
93	BR	ON/IND		143	P	COMBI SW OUTPUT 1		18	BR	-		69	AV	AV CONTROL UNIT		93	BR	CAN-H	
95	BR	ACC DELAY CONT		144	G	COMBI SW OUTPUT 2		19	BR	-		70	AV	AV CONTROL UNIT		94	BR	CAN-H	
96	BR	A/T SHIFT SELECTOR POWER SUPPLY		145	LG	COMBI SW OUTPUT 3		20	BR	-		71	AV	AV CONTROL UNIT		95	BR	CAN-H	
99	R	COMBI SW INPUT P		146	SB	COMBI SW OUTPUT 4		21	BR	-		72	AV	AV CONTROL UNIT		96	BR	CAN-H	
100	Y	PASSENGER DOOR REQUEST SW		150	GR	COMBI SW INPUT 1		22	BR	-		73	AV	AV CONTROL UNIT		97	BR	CAN-H	
101	P	DRIVER DOOR REQUEST SW		151	G	REAR WINDOW DEFOGGER RELAY/CONT		23	BR	-		74	AV	AV CONTROL UNIT		98	BR	CAN-H	
102	BG	BLOWER FAN MOTOR RELAY CONT		152	P	KEYLESS ENTRY RECEIVER POWER SUPPLY		24	BR	-		75	AV	AV CONTROL UNIT		99	BR	CAN-H	
103	P	KEYLESS ENTRY RECEIVER POWER SUPPLY		153	BR	COMBI SW INPUT 1		25	BR	-		100	AV	AV CONTROL UNIT		100	BR	CAN-H	
107	LG	COMBI SW INPUT 4		154	R	COMBI SW INPUT 2		26	BR	-		101	AV	AV CONTROL UNIT		101	BR	CAN-H	
108	R	COMBI SW INPUT 2		155	W	HAZARD SW		27	BR	-		102	AV	AV CONTROL UNIT		102	BR	CAN-H	
109	W	COMBI SW INPUT 2		156	G	-		28	BR	-		103	AV	AV CONTROL UNIT		103	BR	CAN-H	
110	G	-		157		-		29	BR	-		104	AV	AV CONTROL UNIT		104	BR	CAN-H	

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z  
WCS

# UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

METER	Connector No.	M210
	Connector Name	AV CONTROL UNIT
	Connector Type	T162FV-NH
		
Terminal No.	Color Of Wire	Signal Name [Specification]
65	SB	PARKING BRAKE
67	D	COMPOSITE IMAGE GND
68	L	COMPOSITE IMAGE SIGNAL
71	SHE.D	MICROPHONE GND
72	G	MICROPHONE VCC
73	P	COMM (CON-HDSP)
74	P	CAN-L
75	LG	AV COMM (L)
76	LG	AV COMM (L)
79	L	ILLUMINATION
80	G	IGNITION
81	BG	REVERSE
82	R	VEHICLE SPEED (8-PULSE)
83	SHEILD	SHEILD
87	R	MICROPHONE SIGNAL
88	SHEILD	SHEILD
89	L	COMM (DISP-CONT)
90	L	CAN-H
91	SB	AV COMM (4)
92	SB	AV COMM (4)

JRNWD7401GB

INFOID:0000000011400257

## Fail-safe

### FAIL-SAFE

Combination meter performs fail-safe operation when unified meter and A/C amp. communication is malfunction.

Solution for communication error between the unified meter and A/C amp. and combination meter.

# UNIFIED METER AND A/C AMP.

## < ECU DIAGNOSIS INFORMATION >

	Function	Specifications	
Speedometer		Reset to zero by suspending communication.	A
Tachometer			B
Fuel gauge			C
Engine coolant temperature gauge			D
Information display	Door open warning	The display turns off by suspending communication.	E
	Parking brake release warning		F
	Low tire pressure warning		G
	Fuel filler cap warning		H
	Instantaneous fuel warning	<ul style="list-style-type: none"> <li>When reception time of an abnormal signal is 2 seconds or less, the last received datum is used for calculation to indicate the result.</li> <li>When reception time of an abnormal signal is more than two seconds, the last result calculated during normal condition is indicated.</li> </ul>	I
	Average fuel consumption		J
	Average vehicle speed		K
	Travel distance		L
Illumination control		When suspending communication, change to nighttime mode.	M
Buzzer		The buzzer turns off by suspending communication.	
Warning lamp/indicator lamp	ABS warning lamp	The lamp turns on by suspending communication.	O
	Brake warning lamp		P
	CRUISE warning lamp		
	Malfunction indicator lamp		
	High beam indicator	The lamp turns off by suspending communication.	
	Turn signal indicator lamp		
	Oil pressure warning lamp		
	A/T CHECK warning lamp		
	VDC warning lamp		
	VDC OFF indicator lamp		
	AWD warning lamp		
	Low tire pressure warning lamp		
	Key warning lamp		
	AFS OFF indicator lamp		
	Master warning lamp		
	Tail lamp indicator lamp		
	Front fog lamp indicator lamp		

## DTC Index

INFOID:0000000011400258

WCS

Display contents of CONSULT	Time	Diagnostic item is detected when ...	Refer to
CAN COMM CIRCUIT [U1000]	CRNT, 1 - 39	When unified meter and A/C amp. is not transmitting or receiving CAN communication signal for 2 seconds or more.	<a href="#">MWI-42, "Diagnosis Procedure"</a>
CONTROL UNIT (CAN) [U1010]	CRNT, 1 - 39	When detecting error during the initial diagnosis of CAN controller of unified meter and A/C amp.	<a href="#">MWI-43, "Diagnosis Procedure"</a>
COMM ERROR 1 [B2201]	CRNT, 1 - 39	If a communication error is present in the communication line between unified meter and A/C amp. and combination meter for 2 seconds or more.	<a href="#">MWI-44, "Diagnosis Procedure"</a>

## UNIFIED METER AND A/C AMP.

### < ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Time	Diagnostic item is detected when ...	Refer to
COMM ERROR 2 [B2202]	CRNT, 1 - 39	If a communication error is present in the communication line between unified meter and A/C amp. and combination meter for 2 seconds or more.	<a href="#">MWI-46. "Diagnosis Procedure"</a>
VEHICLE SPEED [B2205]	CRNT, 1 - 39	The abnormal vehicle speed signal is input from ABS actuator and electric unit (control unit) for 2 seconds or more.	<a href="#">MWI-48. "Diagnosis Procedure"</a>
ENGINE SPEED [B2267]	CRNT, 1 - 39	If ECM continuously transmits abnormal engine speed signals for 2 seconds or more.	<a href="#">MWI-49. "Diagnosis Procedure"</a>
WATER TEMP [B2268]	CRNT, 1 - 39	If ECM continuously transmits abnormal engine coolant temperature signals for 60 seconds or more.	<a href="#">MWI-50. "Diagnosis Procedure"</a>

# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

## BCM (BODY CONTROL MODULE)

### Reference Value

INFOID:0000000011400259

### VALUES ON THE DIAGNOSIS TOOL

#### NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

#### CONSULT MONITOR ITEM

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/AUTO	Off
	Front wiper switch INT/AUTO	On
FR WIPER STOP	Front wiper is not in STOP position	Off
	Front wiper is in STOP position	On
INT VOLUME	Wiper volume dial is in a dial position 1 - 7	Wiper volume 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
RR FOG SW	<b>NOTE:</b> The item is indicated, but not monitored.	Off
DOOR SW-DR	Driver door closed	Off
	Driver door opened	On
DOOR SW-AS	Passenger door closed	Off
	Passenger door opened	On
DOOR SW-RR	Rear RH door closed	Off
	Rear LH door opened	On

A

B

C

D

E

F

G

H

I

J

K

L

M

WCS

O

P

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
DOOR SW-RL	Rear LH door closed	Off
	Rear LH door opened	On
DOOR SW-BK	<b>NOTE:</b> The item is indicated, but not monitored.	Off
CDL LOCK SW	Other than power door lock switch LOCK	Off
	Power door lock switch LOCK	On
CDL UNLOCK SW	Other than power door lock switch UNLOCK	Off
	Power door lock switch UNLOCK	On
KEY CYL LK-SW	Other than driver door key cylinder LOCK	Off
	Driver door key cylinder LOCK	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK	Off
	Driver door key cylinder LOCK	On
KEY CYL SW-TR	<b>NOTE:</b> The item is indicated, but not monitored.	Off
HAZARD SW	Hazard switch is OFF	Off
	Hazard switch is ON	On
REAR DEF SW	<b>NOTE:</b> The item is indicated, but not monitored.	Off
TR CANCEL SW	Trunk lid opener cancel switch OFF	Off
	Trunk lid opener cancel switch ON	On
TR/BD OPEN SW	Trunk lid opener switch OFF	Off
	While the trunk lid opener switch is turned ON	On
TRNK/HAT MNTR	Trunk lid closed	Off
	Trunk lid opened	On
REVERSE SW	<b>NOTE:</b> The item is indicated, but not monitored.	Off
RKE-LOCK	LOCK button of the Intelligent Key is not pressed	Off
	LOCK button of the Intelligent Key is pressed	On
RKE-UNLOCK	UNLOCK button of the Intelligent Key is not pressed	Off
	UNLOCK button of the Intelligent Key is pressed	On
RKE-TR/BD	TRUNK OPEN button of the Intelligent Key is not pressed	Off
	TRUNK OPEN button of the Intelligent Key is pressed	On
RKE-PANIC	PANIC button of the Intelligent Key is not pressed	Off
	PANIC button of the Intelligent Key is pressed	On
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is not pressed	Off
	UNLOCK button of the Intelligent Key is pressed and held	On
RKE-MODE CHG	LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously	Off
	LOCK/UNLOCK button of the Intelligent Key is pressed and held simultaneously	On
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V
	Dark outside of the vehicle	Close to 0 V
REQ SW -DR	Driver door request switch is not pressed	Off
	Driver door request switch is pressed	On
REQ SW -AS	Passenger door request switch is not pressed	Off
	Passenger door request switch is pressed	On

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
REQ SW -RR	<b>NOTE:</b> The item is indicated, but not monitored.	Off
REQ SW -RL	<b>NOTE:</b> The item is indicated, but not monitored.	Off
REQ SW -BD/TR	Trunk lid opener request switch is not pressed	Off
	Trunk lid opener request switch is pressed	On
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
	Push-button ignition switch (push switch) is pressed	On
IGN RLY2 -F/B	<b>NOTE:</b> The item is indicated, but not monitored.	Off
ACC RLY -F/B	<b>NOTE:</b> The item is indicated, but not monitored.	Off
CLUCH SW	<b>NOTE:</b> The item is indicated, but not monitored.	Off
BRAKE SW 1	The brake pedal is depressed when No. 7 fuse is blown	Off
	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
BRAKE SW 2	The brake pedal is not depressed	Off
	The brake pedal is depressed	On
DETE/CANCL SW	Selector lever in P position	Off
	Selector lever in any position other than P	On
SFT PN/N SW	Selector lever in any position other than P and N	Off
	Selector lever in P or N position	On
S/L -LOCK	<b>NOTE:</b> The item is indicated, but not monitored.	Off
S/L -UNLOCK	<b>NOTE:</b> The item is indicated, but not monitored.	Off
S/L RELAY-F/B	<b>NOTE:</b> The item is indicated, but not monitored.	Off
UNLK SEN -DR	Driver door is unlocked	Off
	Driver door is locked	On
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off
	Push-button ignition switch (push-switch) is pressed	On
IGN RLY1 -F/B	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
DETE SW -IPDM	Selector lever in any position other than P	Off
	Selector lever in P position	On
SFT PN -IPDM	Selector lever in any position other than P and N	Off
	Selector lever in P or N position	On
SFT P -MET	Selector lever in any position other than P	Off
	Selector lever in P position	On
SFT N -MET	Selector lever in any position other than N	Off
	Selector lever in N position	On
ENGINE STATE	Engine stopped	Stop
	While the engine stalls	Stall
	At engine cranking	Crank
	Engine running	Run

A

B

C

D

E

F

G

H

I

J

K

L

M

WCS

O

P

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
S/L LOCK-IPDM	<b>NOTE:</b> The item is indicated, but not monitored.	Off
S/L UNLK-IPDM	<b>NOTE:</b> The item is indicated, but not monitored.	Off
S/L RELAY-REQ	<b>NOTE:</b> The item is indicated, but not monitored.	Off
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading
DOOR STAT-DR	Driver door is locked	LOCK
	Wait with selective UNLOCK operation (60 seconds)	READY
	Driver door is unlocked	UNLOCK
DOOR STAT-AS	Passenger door is locked	LOCK
	Wait with selective UNLOCK operation (60 seconds)	READY
	Passenger door is unlocked	UNLOCK
ID OK FLAG	Driver side door is open after ignition switch is turned OFF (Shift position is in the P position)	Reset
	Ignition switch ON	Set
PRMT ENG STRT	The engine start is prohibited	Reset
	The engine start is permitted	Set
PRMT RKE STRT	<b>NOTE:</b> The item is indicated, but not monitored.	Reset
KEY SW -SLOT	The Intelligent Key is not inserted into key slot	Off
	The Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key
RKE OPE COUN2	<b>NOTE:</b> The item is indicated, but not monitored.	—
CONFIRM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done
CONFIRM ID4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done
CONFIRM ID3	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done
CONFIRM ID1	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
TP 4	The ID of fourth Intelligent Key is not registered to BCM	Yet
	The ID of fourth Intelligent Key is registered to BCM	Done
TP 3	The ID of third Intelligent Key is not registered to BCM	Yet
	The ID of third Intelligent Key is registered to BCM	Done
TP 2	The ID of second Intelligent Key is not registered to BCM	Yet
	The ID of second Intelligent Key is registered to BCM	Done
TP 1	The ID of first Intelligent Key is not registered to BCM	Yet
	The ID of first Intelligent Key is registered to BCM	Done
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	ID of front LH tire transmitter is registered	Done
	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
	Tire pressure warning alarm is sounding	On

A

B

C

D

E

F

G

H

I

J

K

L

M

WCS

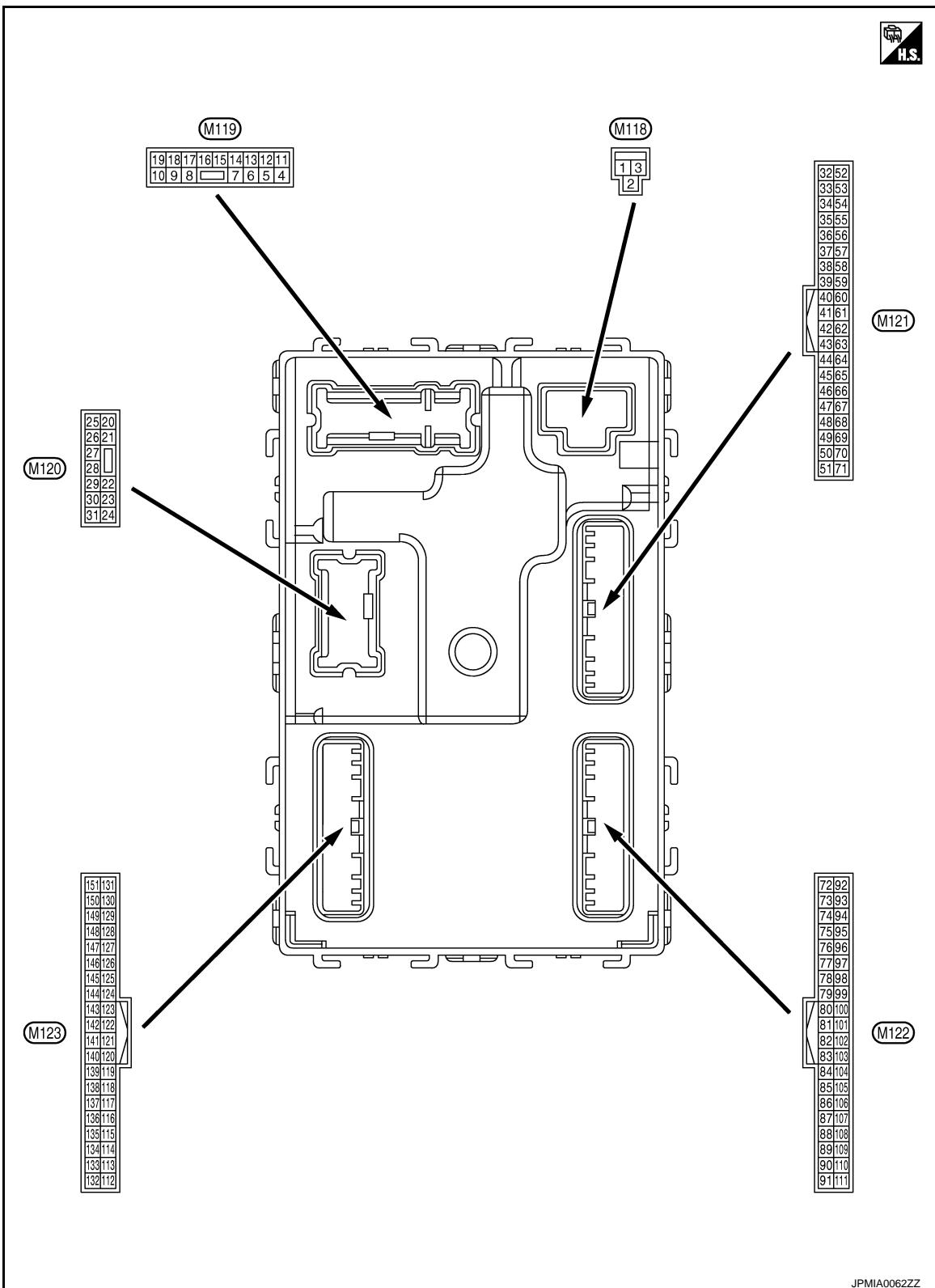
O

P

# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT



PHYSICAL VALUES

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
+	-			
1 (W)	Ground	Battery power supply	Input	Ignition switch OFF
2 (Y)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF
3 (BG)	Ground	P/W power supply (RAP)	Output	Ignition switch ON
4 (LG)	Ground	Interior room lamp power supply	Output	Interior room lamp battery saver is activated. (Cuts the interior room lamp power supply)
				Interior room lamp battery saver is not activated. (Outputs the interior room lamp power supply)
5 (P)	Ground	Passenger door UN- LOCK	Output	UNLOCK (Actuator is activated)
				Other than UNLOCK) Actuator is not activated
7 (SB)	Ground	Step lamp	Output	ON
				OFF
8 (V)	Ground	All doors, fuel lid LOCK	Output	LOCK (Actuator is activated)
				Other than LOCK (Actuator is not activated)
9 (G)	Ground	Driver door, fuel lid UNLOCK	Output	UNLOCK (Actuator is activated)
				Other than UNLOCK (Actuator is not activated)
10 (P)	Ground	Rear RH door and rear LH door UN- LOCK	Output	UNLOCK (Actuator is activated)
				Other than UNLOCK (Actuator is not activated)
11 (R)	Ground	Battery power supply	Input	Ignition switch OFF
13 (B)	Ground	Ground	—	Ignition switch ON
14 (W)	Ground	Push-button ignition switch illumination ground	Output	OFF
				ON
15 (BG)	Ground	ACC indicator lamp	Output	OFF (LOCK indicator is not illuminated)
				ACC

A

B

C

D

E

F

G

H

I

J

K

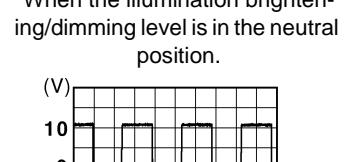
L

M

WCS

O

P

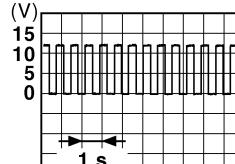


JSNIA0010GB

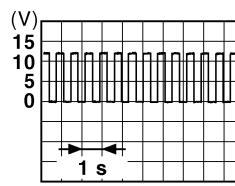
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

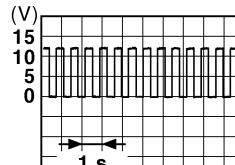
Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
+	-			
17 (W)	Ground	Turn signal RH (Front)	Output	Turn signal switch OFF  Ignition switch ON  Turn signal switch RH
18 (BG)	Ground	Turn signal LH (Front)	Output	Turn signal switch OFF  Ignition switch ON  Turn signal switch LH
19 (V)	Ground	Interior room lamp control	Output	Interior room lamp  OFF  ON
20 (V)	Ground	Turn signal RH (Rear)	Output	Turn signal switch OFF  Ignition switch ON  Turn signal switch RH
23 (LG)	Ground	Trunk lid open	Output	Trunk lid  OPEN (Trunk lid opener actuator is activated)  Other than OPEN (Trunk lid opener actuator is not activated)
25 (Y)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON  Turn signal switch OFF  Turn signal switch LH
30 (P)	Ground	Trunk room lamp	Output	Trunk room lamp  ON  OFF



PKID0926E

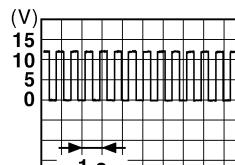


PKID0926E



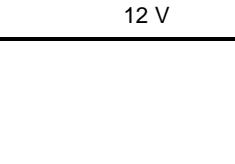
PKID0926E

6.5 V



PKID0926E

6.5 V



PKID0926E

0 V

12 V

0 V

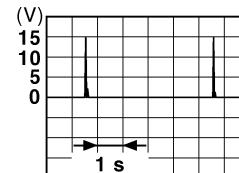
0 V

12 V

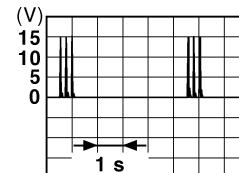
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

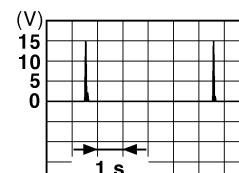
Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
+	-			
34 (SB)	Ground	Trunk room antenna (-)	Output Ignition switch OFF	When Intelligent Key is in the passenger compart- ment
				When Intelligent Key is not in the passenger compart- ment
35 (V)	Ground	Trunk room antenna (+)	Output Ignition switch OFF	When Intelligent Key is in the passenger compart- ment
				When Intelligent Key is not in the passenger compart- ment
38 (B)	Ground	Rear bumper anten- na (-)	Output When the trunk lid opener re- quest switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area
				When Intelligent Key is not in the antenna detection area



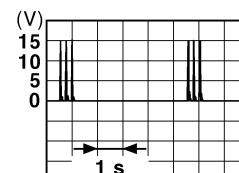
JMKIA0062GB



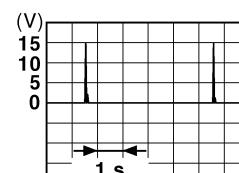
JMKIA0063GB



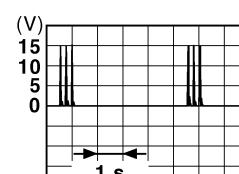
JMKIA0062GB



JMKIA0063GB



JMKIA0062GB



JMKIA0063GB

A

B

C

D

E

F

G

H

I

J

K

L

M

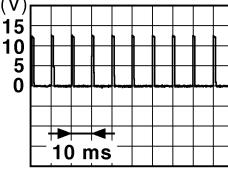
WCS

O

P

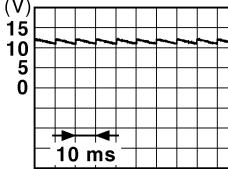
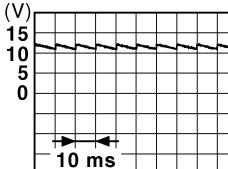
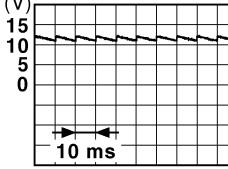
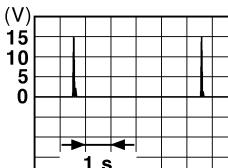
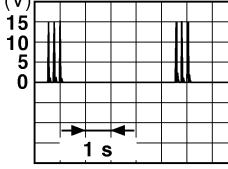
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
+	-			
39 (W)	Ground	Rear bumper antenna (+)	Output	When Intelligent Key is in the antenna detection area
				When the trunk lid opener request switch is operated with ignition switch OFF
47 (Y)	Ground	Ignition relay (IPDM E/R) control	Output	OFF or ACC
				ON
50 (BG)	Ground	Trunk room lamp switch	Input	OFF (Trunk lid is closed)
				ON (Trunk lid is opened)
52 (R)	Ground	Starter relay control	Output	When selector lever is in P or N position
				When selector lever is not in P or N position
60 (BR)	Ground	Push-button ignition switch (Push switch)	Input	Pressed
				Not pressed
61 (SB)	Ground	Trunk lid opener request switch	Input	ON (Pressed)
				OFF (Not pressed)
64 (G)	Ground	Intelligent Key warning buzzer (Engine room)	Output	 1.0 V
				0 V
				12 V
				0 V

# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)	
	Signal name	Input/ Output			
+	-				
67 (GR)	Ground	Trunk lid opener switch	Input	Trunk lid opener switch	Pressed
					0 V
68 (BG)	Ground	Rear RH door switch	Input	Rear RH door switch	Not pressed
					 11.8 V
				Rear RH door switch	OFF (When rear RH door closes)
					 11.8 V
69 (L)	Ground	Rear LH door switch	Input	Rear LH door switch	ON (When rear RH door opens)
					0 V
				Rear LH door switch	OFF (When rear LH door closes)
					 11.8 V
72 (R)	Ground	Room antenna 2 (-) (Center console)	Output	Ignition switch OFF	ON (When rear LH door opens)
					0 V
				Ignition switch OFF	When Intelligent Key is in the passenger compartment
					 1 s
					When Intelligent Key is not in the passenger compartment
					 1 s

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

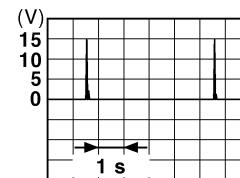
WCS

O  
P

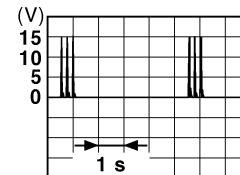
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

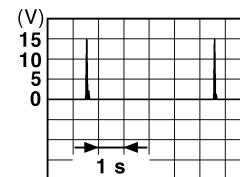
Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
+	-			
73 (G)	Ground	Room antenna 2 (+) (Center console)	Output	When Intelligent Key is in the passenger compart- ment
				Ignition switch OFF
74 (SB)	Ground	Passenger door an- tenna (-)	Output	When Intelligent Key is not in the passenger compart- ment
				When the pas- senger door re- quest switch is operated with ignition switch OFF
75 (BR)	Ground	Passenger door an- tenna (+)	Output	When Intelligent Key is in the antenna detection area
				When the pas- senger door re- quest switch is operated with ignition switch OFF



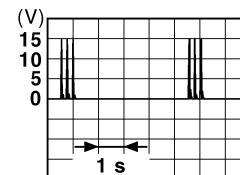
JMKIA0062GB



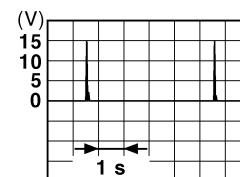
JMKIA0063GB



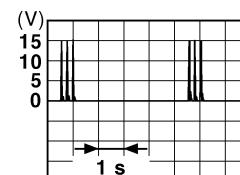
JMKIA0062GB



JMKIA0063GB



JMKIA0062GB

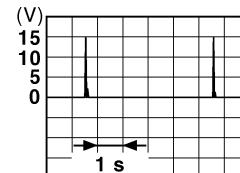


JMKIA0063GB

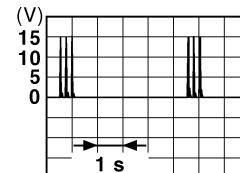
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

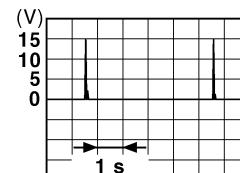
Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
+	-			
76 (V)	Ground	Driver door antenna (-)	Output	When Intelligent Key is in the antenna detection area
				When the driver door request switch is operated with ignition switch OFF
77 (LG)	Ground	Driver door antenna (+)	Output	When Intelligent Key is in the antenna detection area
				When the driver door request switch is operated with ignition switch OFF
78 (Y)	Ground	Room antenna 1 (-) (Instrument panel)	Output	When Intelligent Key is in the passenger compartment
				Ignition switch OFF



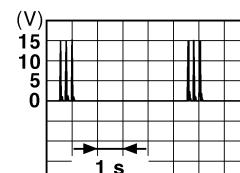
JMKIA0062GB



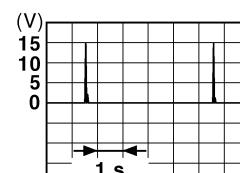
JMKIA0063GB



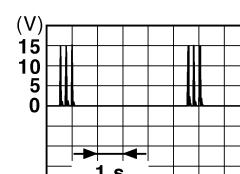
JMKIA0062GB



JMKIA0063GB



JMKIA0062GB



JMKIA0063GB

A

B

C

D

E

F

G

H

I

J

K

L

M

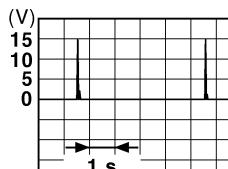
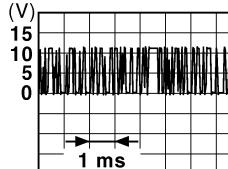
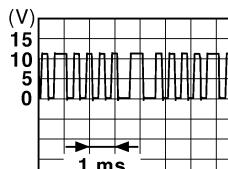
WCS

O

P

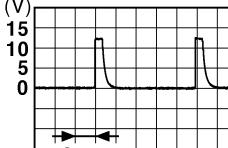
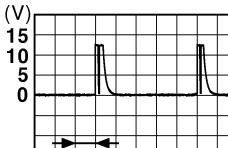
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
+	-			
79 (BR)	Ground	Room antenna 1 (+) (Instrument panel)	Output	When Intelligent Key is in the passenger compart- ment
				 (V) 15 10 5 0 1 s JMKA0062GB
80 (GR)	Ground	NATS antenna amp.	Input/ Output	Ignition switch OFF
				When Intelligent Key is not in the passenger compart- ment
81 (W)	Ground	NATS antenna amp.	Input/ Output	During waiting
				Ignition switch is pressed while inserting the Intelli- gent Key into the key slot.
82 (SB)	Ground	Ignition relay [Fuse block (J/B)] control	Output	During waiting
				Ignition switch OFF or ACC
				ON
83 (Y)	Ground	Remote keyless entry receiver communica- tion	Input/ Output	During waiting
				 (V) 15 10 5 0 1 ms JMKA0064GB
				When operating either button on the Intelli- gent Key
				 (V) 15 10 5 0 1 ms JMKA0065GB

# BCM (BODY CONTROL MODULE)

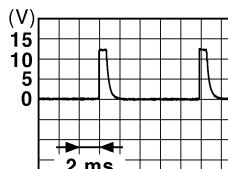
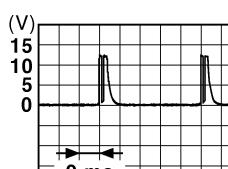
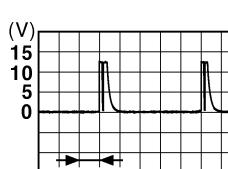
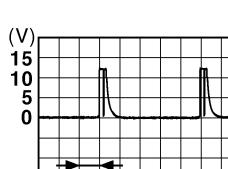
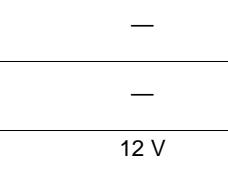
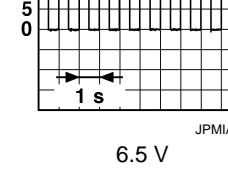
## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
+	-			
87 (Y)	Ground	Combination switch INPUT 5	Input	All switches OFF (Wiper volume dial 4)
				 JPMIA0041GB 1.4 V
				Front fog lamp switch ON (Wiper volume dial 4)
				 JPMIA0037GB 1.3 V
				Any of the conditions below with all switches OFF <ul style="list-style-type: none"> <li>• Wiper volume dial 1</li> <li>• Wiper volume dial 2</li> <li>• Wiper volume dial 6</li> <li>• Wiper volume dial 7</li> </ul>

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
  
WCS

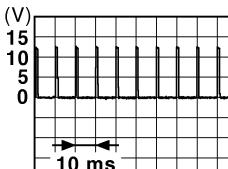
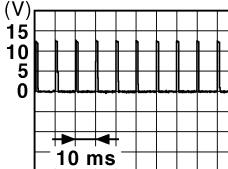
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
+	-			
88 (BG)	Ground	Combination switch INPUT 3	Input	 <p>All switches OFF (Wiper volume dial 4)</p> <p>JPMIA0041GB</p> <p>1.4 V</p>
90 (P)	Ground	CAN-L	Input/ Output	 <p>Lighting switch HI (Wiper volume dial 4)</p> <p>JPMIA0036GB</p> <p>1.3 V</p>
91 (L)	Ground	CAN-H	Input/ Output	 <p>Lighting switch 2ND (Wiper volume dial 4)</p> <p>JPMIA0037GB</p> <p>1.3 V</p>
92 (LG)	Ground	Key slot illumination	Output	 <p>Any of the conditions below with all switches OFF</p> <ul style="list-style-type: none"> <li>• Wiper volume dial 1</li> <li>• Wiper volume dial 2</li> <li>• Wiper volume dial 3</li> </ul> <p>JPMIA0040GB</p> <p>1.3 V</p>
93 (GR)	Ground	ON indicator lamp	Output	 <p>OFF (LOCK indicator is not illuminated)</p> <p>JPMIA0015GB</p> <p>6.5 V</p>
93 (GR)	Ground	ON indicator lamp	Output	 <p>ON</p> <p>0 V</p>

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
95 (BG)	Ground	ACC relay control	Output Ignition switch	OFF 12 V
96 (GR)	Ground	A/T shift selector (Detention switch) power supply		— 12 V
99 (R)	Ground	Selector lever P position switch	Input Selector lever	P position 12 V
				Any position other than P
100 (Y)	Ground	Passenger door request switch	Input Passenger door request switch	ON (Pressed) 0 V
				OFF (Not pressed)  1.0 V
101 (P)	Ground	Driver door request switch	Input Driver door request switch	ON (Pressed) 0 V
				OFF (Not pressed)  1.0 V
102 (BG)	Ground	Blower fan motor relay control	Output Ignition switch	OFF or ACC 12 V
103 (P)	Ground	Remote keyless entry receiver power supply		ON 12 V
			Ignition switch OFF	

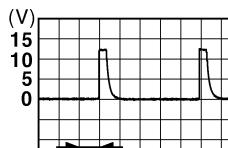
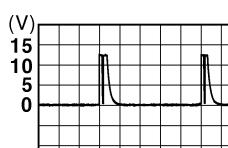
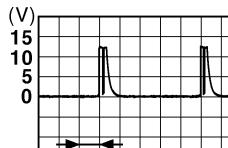
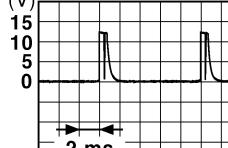
A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M

WCS

O  
P

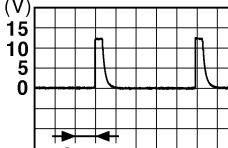
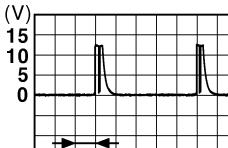
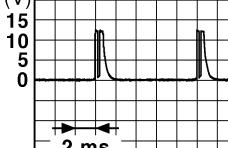
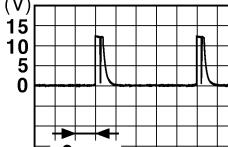
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
+	-			
107 (LG)	Ground	Combination switch INPUT 1	Combination switch (Wiper volume dial 4)	All switches OFF
				 JPMIA0041GB 1.4 V
				 JPMIA0037GB 1.3 V
				 JPMIA0036GB 1.3 V
				 JPMIA0038GB 1.3 V
				 JPMIA0039GB 1.3 V

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
+	-			
108 (R)	Ground	Combination switch INPUT 4	Input	All switches OFF (Wiper volume dial 4)
				 JPMIA0041GB 1.4 V
				 JPMIA0038GB 1.3 V
				 JPMIA0036GB 1.3 V
				 JPMIA0039GB 1.3 V
				Any of the conditions below with all switches OFF <ul style="list-style-type: none"> <li>• Wiper volume dial 1</li> <li>• Wiper volume dial 5</li> <li>• Wiper volume dial 6</li> </ul>

A

B

C

D

E

F

G

H

I

J

K

L

M

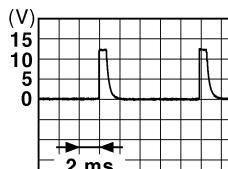
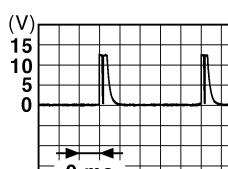
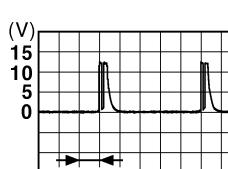
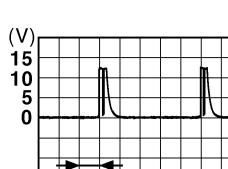
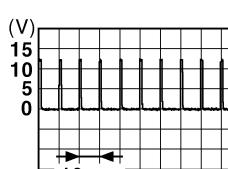
WCS

O

P

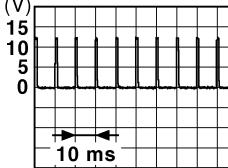
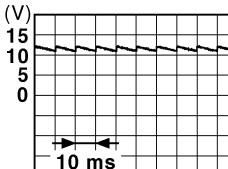
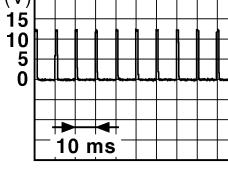
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
+	-			
109 (W)	Ground	Combination switch INPUT 2	Combination switch (Wiper volume dial 4)	All switches OFF
				 JPMIA0041GB 1.4 V
				 JPMIA0037GB 1.3 V
				 JPMIA0036GB 1.3 V
				 JPMIA0038GB 1.3 V
110 (G)	Ground	Hazard switch	Hazard switch	ON
				0 V
			OFF	 JPMIA0012GB 1.1 V

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)		
	Signal name	Input/ Output				
113 (BG)	Ground	Optical sensor	Input Ignition switch ON	When bright outside of the vehicle		
				Close to 5 V		
				When dark outside of the vehicle		
				Close to 0 V		
116 (SB)	Ground	Stop lamp switch 1	Input	—		Battery voltage
118 (BR)	Ground	Stop lamp switch 2 (Without ICC)	Input Stop lamp switch	OFF (Brake pedal is not depressed)	0 V	
				ON (Brake pedal is depressed)	Battery voltage	
		Stop lamp switch 2 (With ICC)		Stop lamp switch OFF (Brake pedal is not depressed) and ICC brake hold relay OFF	0 V	
				Stop lamp switch ON (Brake pedal is depressed) or ICC brake hold relay ON	Battery voltage	
119 (SB)	Ground	Front door lock assembly driver side (Unlock sensor)	Input Driver door	LOCK status (Unlock sensor switch OFF)	 (V) 15 10 5 0 1.1 V <small>JPMIA0012GB</small>	
				UNLOCK status (Unlock switch sensor ON)		
121 (SB)	Ground	Key slot switch	Input	When the Intelligent Key is inserted into key slot	12 V	
				When the Intelligent Key is not inserted into key slot	0 V	
123 (V)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
124 (R)	Ground	Passenger door switch	Input Passenger door switch	OFF (Door close)	 (V) 15 10 5 0 11.8 V <small>JPMIA0011GB</small>	
				ON (Door open)		
129 (BG)	Ground	Trunk lid opener cancel switch	Input Trunk lid open- er cancel switch	CANCEL	 (V) 15 10 5 0 1.1 V <small>JPMIA0012GB</small>	
				ON		

A

B

C

D

E

F

G

H

I

J

K

L

M

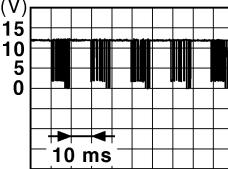
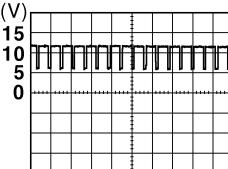
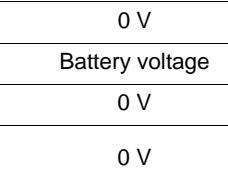
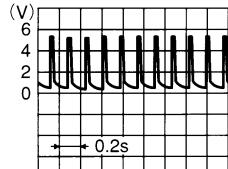
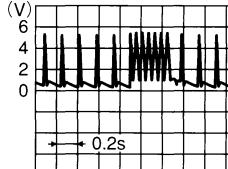
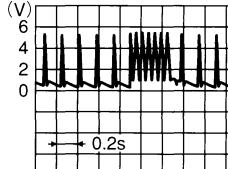
WCS

O

P

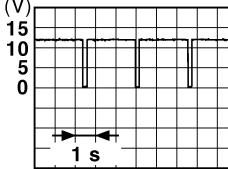
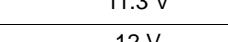
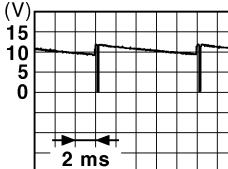
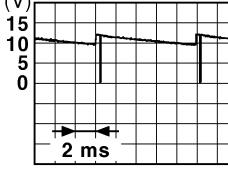
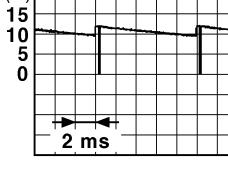
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
+	-			
132 (V)	Ground	Power window switch communication	Input/ Output	Ignition switch ON
				 JPMIA0013GB 10.2 V
133 (L)	Ground	Push-button ignition switch illumination	Output	ON (Tail lamps OFF)
				 JPMIA0159GB 9.5 V
				<b>NOTE:</b> The pulse width of this wave is varied by the illumination brightening/dimming level.
134 (LG)	Ground	LOCK indicator lamp	Output	Push-button ignition switch illumination
				ON (Tail lamps ON)  JPMIA0159GB 0 V
137 (BG)	Ground	Receiver and sensor ground	Input	Ignition switch ON
138 (V)	Ground	Receiver and sensor power supply	Output	LOCK indicator lamp
				OFF  OCC3881D 0 V
139 (L)	Ground	Tire pressure receiver communication	Input/ Output	Ignition switch ON
140 (B)	Ground	Selector lever P/N position	Input	Standby state
				 OCC3880D 0.2s 0 V
140 (B)	Ground	Selector lever P/N position	Input	When receiving the signal from the transmitter
				 OCC3880D 0.2s 12 V
140 (B)	Ground	Selector lever P/N position	Input	Selector lever
140 (B)	Ground	Selector lever P/N position	Input	P or N position
140 (B)	Ground	Selector lever P/N position	Input	Except P and N positions

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
+	-			
141 (W)	Ground	Security indicator lamp	Output	ON  Security indicator lamp  JPMIA0014GB 11.3 V
				Blinking
				OFF   12 V
142 (BR)	Ground	Combination switch OUTPUT 5	Output	All switches OFF Lighting switch 1ST Lighting switch HI Lighting switch 2ND  Turn signal switch RH JPMIA0031GB 10.7 V
				All switches OFF
				Lighting switch 1ST
				Lighting switch HI
				Lighting switch 2ND
143 (P)	Ground	Combination switch OUTPUT 1	Output	All switches OFF (Wiper volume dial 4)  Front wiper switch HI (Wiper volume dial 4)
				All switches OFF (Wiper volume dial 4)
				Front wiper switch HI (Wiper volume dial 4)
				Any of the conditions below with all switches OFF <ul style="list-style-type: none"> <li>• Wiper volume dial 1</li> <li>• Wiper volume dial 2</li> <li>• Wiper volume dial 3</li> <li>• Wiper volume dial 6</li> <li>• Wiper volume dial 7</li> </ul> JPMIA0032GB 10.7 V
144 (G)	Ground	Combination switch OUTPUT 2	Output	All switches OFF (Wiper volume dial 4)  Front washer switch ON (Wiper volume dial 4)
				All switches OFF (Wiper volume dial 4)
				Front washer switch ON (Wiper volume dial 4)
145 (L)	Ground	Combination switch OUTPUT 3	Output	 All switches OFF  Front wiper switch INT/AUTO  Front wiper switch LO  Lighting switch AUTO JPMIA0034GB 10.7 V
				All switches OFF
				Front wiper switch INT/AUTO
				Front wiper switch LO
				Lighting switch AUTO

A

B

C

D

E

F

G

H

I

J

K

L

M

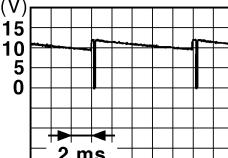
WCS

O

P

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

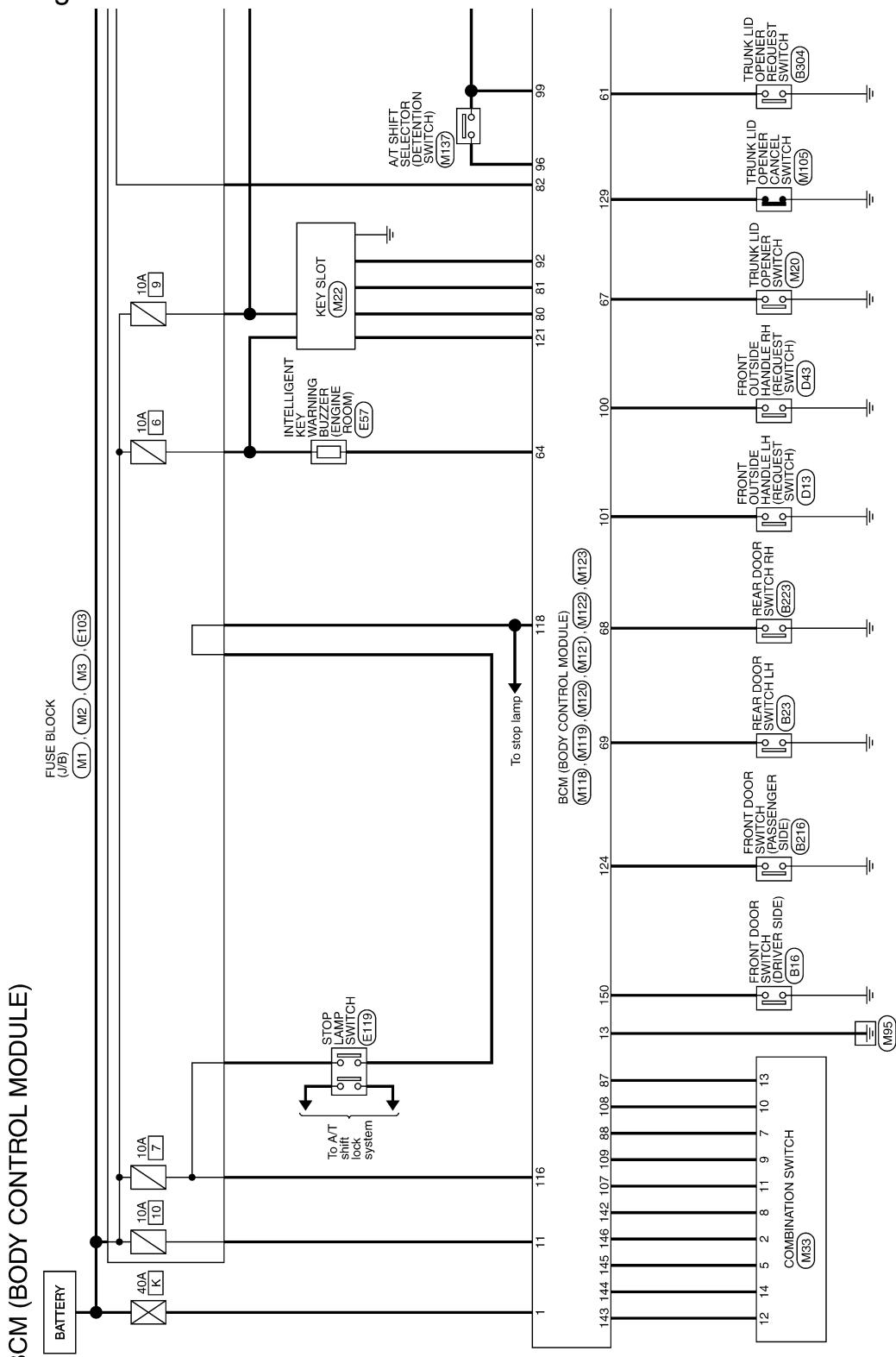
Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
+	-			
146 (SB)	Ground	Combination switch OUTPUT 4	Combination switch (Wiper volume dial 4)	All switches OFF
				Front fog lamp switch ON
				Lighting switch 2ND
				Lighting switch PASS
				Turn signal switch LH
150 (GR)	Ground	Driver door switch	Driver door switch	 JPMIA0035GB 10.7 V
				OFF (Door close)
				ON (Door open)
151 (G)	Ground	Rear window defog- ger relay control	Output	Active
				Battery voltage
151 (G)	Ground	Rear window defog- ger relay control	Output	Not activated
				0 V

# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

## Wiring Diagram - BCM -

INFOID:000000011400260



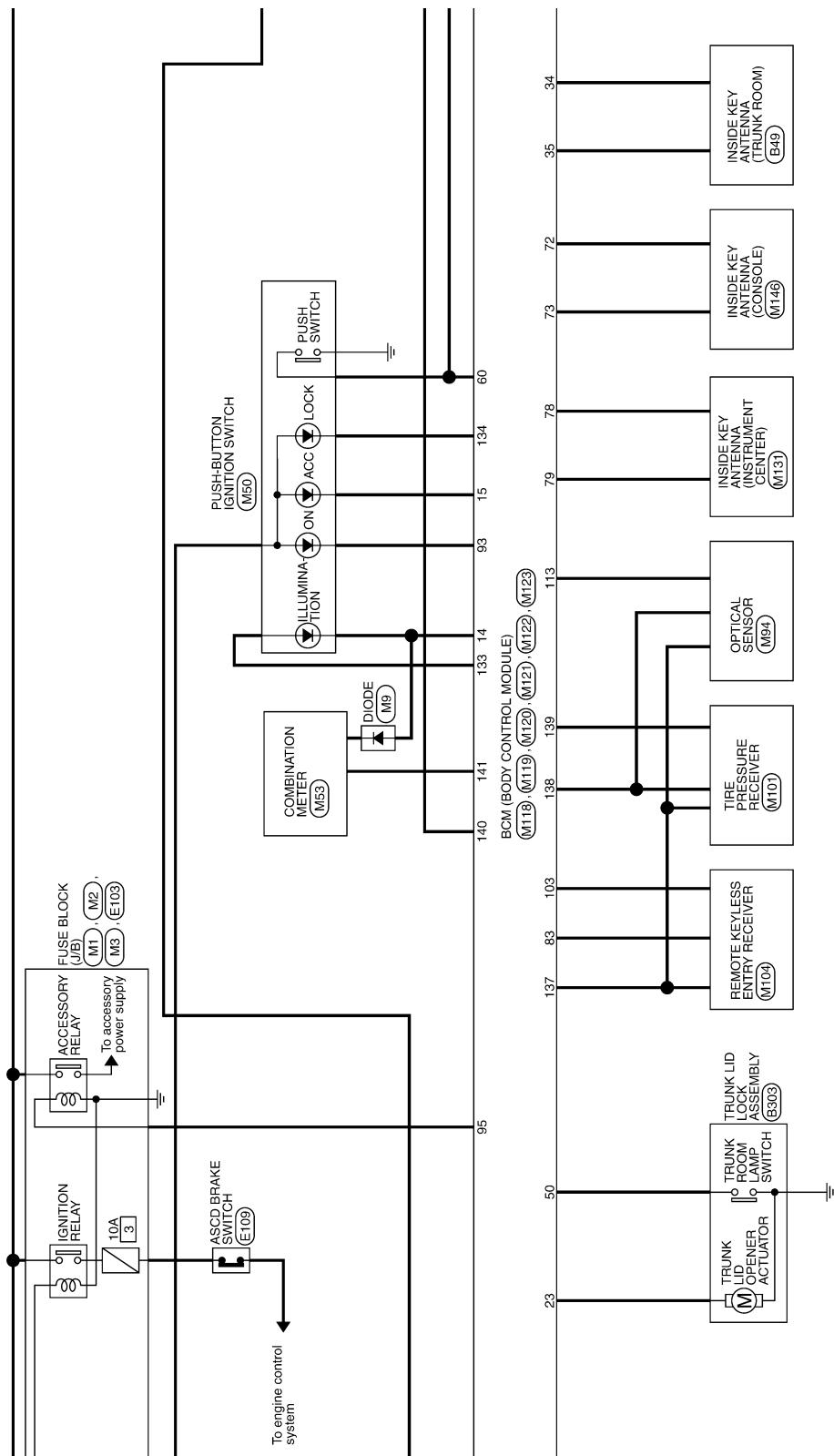
2014/06/09

JRMWF9358GB

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

# BCM (BODY CONTROL MODULE)

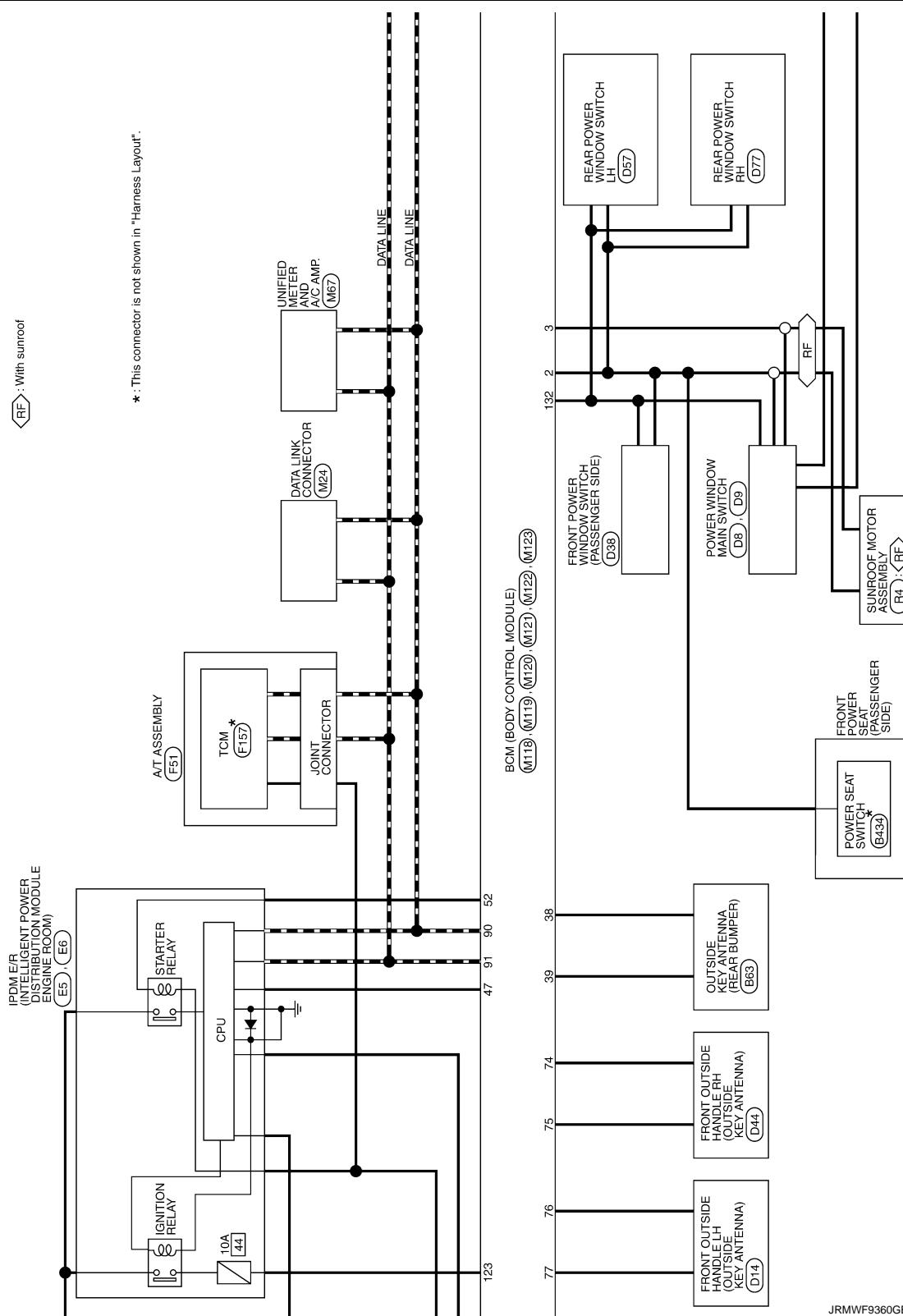
< ECU DIAGNOSIS INFORMATION >



JRMWF9359GB

# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

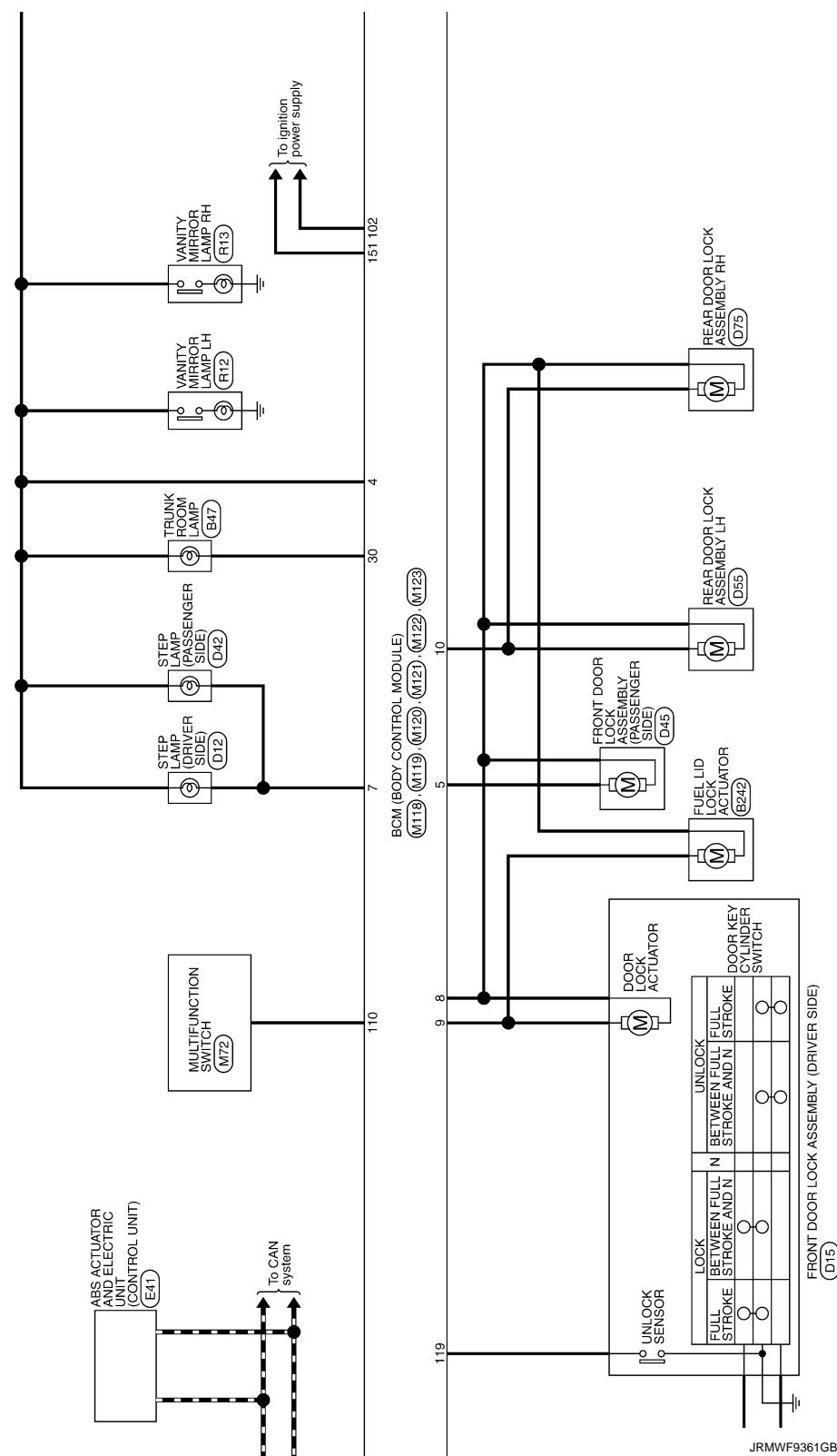


JRMWF9360GB

WCS

# BCM (BODY CONTROL MODULE)

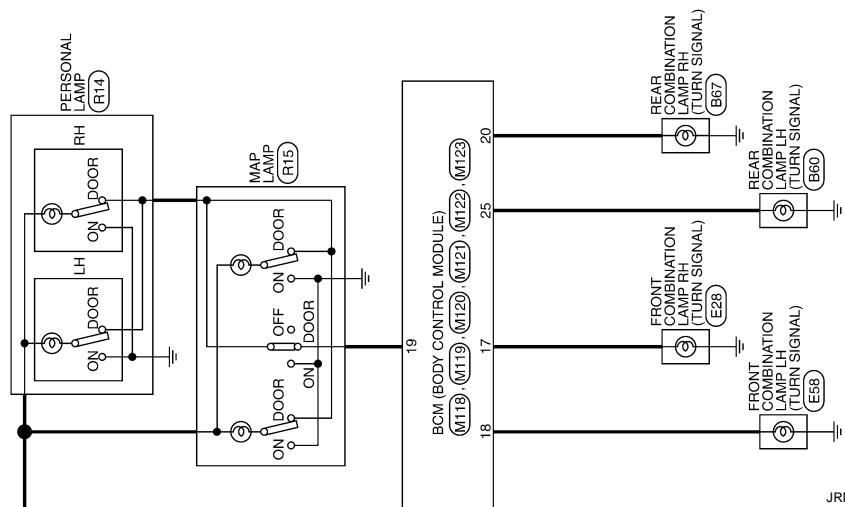
< ECU DIAGNOSIS INFORMATION >



JRMWF9361GB

# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >



JRMWF9362GB

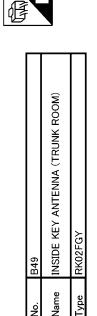
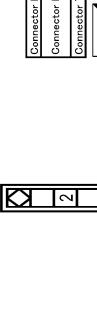
WCS

# BCM (BODY CONTROL MODULE)

**< ECU DIAGNOSIS INFORMATION >**

---

## BCM (BODY CONTROL MODULE)

<table border="1"> <thead> <tr> <th>Connector No.</th> <th>Color Of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr> <td>B16</td> <td>BG</td> <td>FRONT DOOR SWITCH (DRIVER SIDE)</td> </tr> <tr> <td></td> <td>GR</td> <td></td> </tr> <tr> <td>Connector Type</td> <td>A03FW</td> <td></td> </tr> </tbody> </table> 	Connector No.	Color Of Wire	Signal Name [Specification]	B16	BG	FRONT DOOR SWITCH (DRIVER SIDE)		GR		Connector Type	A03FW		<table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Color Of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>BG</td> <td>OUTSIDE KEY ANTENNA (REAR BUMPER)</td> </tr> <tr> <td>2</td> <td>GR</td> <td></td> </tr> <tr> <td>Connector Type</td> <td>FRK02GY</td> <td></td> </tr> </tbody> </table> 	Terminal No.	Color Of Wire	Signal Name [Specification]	1	BG	OUTSIDE KEY ANTENNA (REAR BUMPER)	2	GR		Connector Type	FRK02GY		<table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Color Of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>RR</td> <td>INSIDE KEY ANTENNA (TRUNK ROOM)</td> </tr> <tr> <td>2</td> <td>R</td> <td></td> </tr> <tr> <td>Connector Type</td> <td>FRK02GY</td> <td></td> </tr> </tbody> </table> 	Terminal No.	Color Of Wire	Signal Name [Specification]	1	RR	INSIDE KEY ANTENNA (TRUNK ROOM)	2	R		Connector Type	FRK02GY		<table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Color Of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>RR</td> <td>REAR COMBINATION LAMP RH</td> </tr> <tr> <td>2</td> <td>R</td> <td></td> </tr> <tr> <td>Connector Type</td> <td>NSM4FV-CS</td> <td></td> </tr> </tbody> </table> 	Terminal No.	Color Of Wire	Signal Name [Specification]	1	RR	REAR COMBINATION LAMP RH	2	R		Connector Type	NSM4FV-CS		<table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Color Of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>R</td> <td>REAR COMBINATION LAMP LH</td> </tr> <tr> <td>2</td> <td>P</td> <td></td> </tr> <tr> <td>Connector Type</td> <td>NSM4FV-CS</td> <td></td> </tr> </tbody> </table> 	Terminal No.	Color Of Wire	Signal Name [Specification]	1	R	REAR COMBINATION LAMP LH	2	P		Connector Type	NSM4FV-CS		<table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Color Of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>BR</td> <td>REAR DOOR SWITCH LH</td> </tr> <tr> <td>2</td> <td>-</td> <td></td> </tr> <tr> <td>Connector Type</td> <td>A03FW</td> <td></td> </tr> </tbody> </table> 	Terminal No.	Color Of Wire	Signal Name [Specification]	1	BR	REAR DOOR SWITCH LH	2	-		Connector Type	A03FW	
Connector No.	Color Of Wire	Signal Name [Specification]																																																																											
B16	BG	FRONT DOOR SWITCH (DRIVER SIDE)																																																																											
	GR																																																																												
Connector Type	A03FW																																																																												
Terminal No.	Color Of Wire	Signal Name [Specification]																																																																											
1	BG	OUTSIDE KEY ANTENNA (REAR BUMPER)																																																																											
2	GR																																																																												
Connector Type	FRK02GY																																																																												
Terminal No.	Color Of Wire	Signal Name [Specification]																																																																											
1	RR	INSIDE KEY ANTENNA (TRUNK ROOM)																																																																											
2	R																																																																												
Connector Type	FRK02GY																																																																												
Terminal No.	Color Of Wire	Signal Name [Specification]																																																																											
1	RR	REAR COMBINATION LAMP RH																																																																											
2	R																																																																												
Connector Type	NSM4FV-CS																																																																												
Terminal No.	Color Of Wire	Signal Name [Specification]																																																																											
1	R	REAR COMBINATION LAMP LH																																																																											
2	P																																																																												
Connector Type	NSM4FV-CS																																																																												
Terminal No.	Color Of Wire	Signal Name [Specification]																																																																											
1	BR	REAR DOOR SWITCH LH																																																																											
2	-																																																																												
Connector Type	A03FW																																																																												

JRMWF9505GB

# BCM (BODY CONTROL MODULE)

**< ECU DIAGNOSIS INFORMATION >**

## BCM (BODY CONTROL MODULE)

Connector No. B314			Connector No. D9			Connector No. D13		
Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-	17	B	-	1	W	-
2	V	-	19	Y	-	2	B	-
Connector No. B303			Connector No. D12			Connector No. D14		
Connector Name TRUNK LD LOCK ASSEMBLY			5	G/W	-	Connector Name FRONT OUTSIDE HANDLE LH (REQUEST SWITCH)	Connector Type RGDZFL	Connector Name FRONT OUTSIDE HANDLE LH (REQUEST SWITCH)
Connector Type TB03FW			6	SB	-	Connector Name OUTSIDE KEY ANTENNA	Connector Type RGDZMV	Connector Name OUTSIDE KEY ANTENNA
			8	W	-			
			9	L/R	-			
			10	L	-			
Connector No. B304			Connector No. D8			Connector No. D12		
Connector Name TRUNK LD OPENER REQUEST SWITCH			Connector Name POWER WINDOW MAIN SWITCH	Connector Type NS16FW-CS	Connector Name POWER WINDOW MAIN SWITCH	Connector Type NS16FW-CS	Connector Type NS16FW-CS	Connector Name POWER WINDOW MAIN SWITCH
Connector Type TKG02MBR-P								
								
			Terminal No. 2			Terminal No. 1		
			4	LG	-	2	P	-
			6	Y	-	2	V	-
			8	L	-			
			9	BG	-			
			10	SB	-			
			11	G	-			
			13	P	-			
			14	V	-			
			15	B	-			

JRMWF9506GB

O

P

A

B

C

D

E

G

H

K

M

WCS

# BCM (BODY CONTROL MODULE)

**< ECU DIAGNOSIS INFORMATION >**

---

## BCM (BODY CONTROL MODULE E)

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>D15</td></tr> <tr><td>Connector Name</td><td>FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)</td></tr> <tr><td>Connector Type</td><td>E06FGT-RS</td></tr> </table>  <b>H.S.</b>	Connector No.	D15	Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)	Connector Type	E06FGT-RS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>D42</td></tr> <tr><td>Connector Name</td><td>STEP LAMP (PASSENGER SIDE)</td></tr> <tr><td>Connector Type</td><td>TB027W</td></tr> </table>  <b>H.S.</b>	Connector No.	D42	Connector Name	STEP LAMP (PASSENGER SIDE)	Connector Type	TB027W	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Terminal No.</td><td>Color Of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>B</td><td>-</td></tr> <tr><td>2</td><td>SB</td><td>-</td></tr> </table>  <b>H.S.</b>	Terminal No.	Color Of Wire	Signal Name [Specification]	1	B	-	2	SB	-	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Terminal No.</td><td>Color Of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>P</td><td>-</td></tr> <tr><td>2</td><td>V</td><td>-</td></tr> </table>  <b>H.S.</b>	Terminal No.	Color Of Wire	Signal Name [Specification]	1	P	-	2	V	-	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Terminal No.</td><td>Color Of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>P</td><td>-</td></tr> <tr><td>2</td><td>G</td><td>-</td></tr> </table>  <b>H.S.</b>	Terminal No.	Color Of Wire	Signal Name [Specification]	1	P	-	2	G	-
Connector No.	D15																																										
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)																																										
Connector Type	E06FGT-RS																																										
Connector No.	D42																																										
Connector Name	STEP LAMP (PASSENGER SIDE)																																										
Connector Type	TB027W																																										
Terminal No.	Color Of Wire	Signal Name [Specification]																																									
1	B	-																																									
2	SB	-																																									
Terminal No.	Color Of Wire	Signal Name [Specification]																																									
1	P	-																																									
2	V	-																																									
Terminal No.	Color Of Wire	Signal Name [Specification]																																									
1	P	-																																									
2	G	-																																									

JRMWF9507GB

# BCM (BODY CONTROL MODULE)

**< ECU DIAGNOSIS INFORMATION >**

## BCM (BODY CONTROL MODULE)

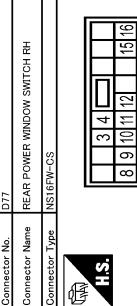
Connector No.	<b>E5</b>	Power ECU INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Name	REAR DOOR LOCK ASSEMBLY RH	
Connector Type	EDNEY-FRS	



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	LG	-
4	Y	-
5	L	-
6	SB	-
7	P	-
12	B/W	-
13	Y	-
16	LG	-
19	R	-
25	BG	-
26	L	-
30	GR	-
36	G	-

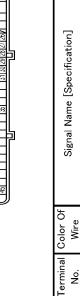
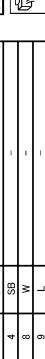
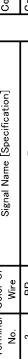
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	LG	-
4	Y	-
5	L	-
6	SB	-
7	P	-
12	B/W	-
13	Y	-
16	LG	-
19	R	-
25	BG	-
26	L	-
30	GR	-
36	G	-

Connector No.	<b>E5</b>	Power ECU INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Name	REAR DOOR LOCK ASSEMBLY RH	
Connector Type	EDNEY-FRS	



Terminal No.	Color Of Wire	Signal Name [Specification]
39	P	-
40	L	-
41	B/W	-
42	GR	-
43	G	-
44	LG	-
45	Y	-

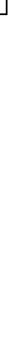
Connector No.	<b>E28</b>	FRONT COMBINATION LAMP RH
Connector Name	FRONT COMBINATION LAMP RH	
Connector Type	RSOUEER-FR	



Connector No.	<b>E87</b>	INTELLIGENT KEY WASHING BLAZER ENGINE ROOM
Connector Name	RSOUEER-BR	



Connector No.	<b>E88</b>	FRONT COMBINATION LAMP LH
Connector Name	RSOUEER-PR	



Connector No.	<b>E88</b>	FRONT COMBINATION LAMP LH
Connector Name	RSOUEER-PR	



Connector No.	<b>E88</b>	FRONT COMBINATION LAMP LH
Connector Name	RSOUEER-PR	



JRMWF9508GB

WCS

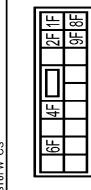
# BCM (BODY CONTROL MODULE)

**< ECU DIAGNOSIS INFORMATION >**

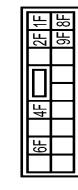
---

**BCM (BODY CONTROL MODULE E)**

Connector No.	E103	Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
Connector Name	FUSE BLOCK (J/B)	1F	SB	-	1	SHIELD	VIGN
Connector Type	NS10FW-CS	2F	W	-	2	SHIELD	BATT
		4F	G	-	3	SHIELD	CAN-H
		6F	BR	-	4	SHIELD	K-LINE
		8F	L	-	5	SHIELD	GROUND
		9F	P	-	6	SHIELD	VIGN
					7	SHIELD	REV LAMP RLY
					8	SHIELD	CAN-L
					9	SHIELD	STARTERLY
					10	SHIELD	GROUND



Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-	1	SHIELD	VIGN
2	R	-	2	SHIELD	BATT
3	L	-	3	SHIELD	CAN-H
4	V	-	4	SHIELD	K-LINE
5	B	-	5	SHIELD	GROUND
6	G	-	6	SHIELD	VIGN
7	R	-	7	SHIELD	REV LAMP RLY
8	P	-	8	SHIELD	CAN-L
9	GR	-	9	SHIELD	STARTERLY
10	B	-	10	SHIELD	GROUND



Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
1A	TA	-	1A	TA	-
2A	TA	-	2A	TA	-
3A	TA	-	3A	TA	-
4A	TA	-	4A	TA	-
5A	TA	-	5A	TA	-
6A	TA	-	6A	TA	-
7A	TA	-	7A	TA	-
8A	TA	-	8A	TA	-



Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-	1	SHIELD	VIGN
2	R	-	2	SHIELD	BATT
3	L	-	3	SHIELD	CAN-H
4	V	-	4	SHIELD	K-LINE
5	B	-	5	SHIELD	GROUND
6	G	-	6	SHIELD	VIGN
7	R	-	7	SHIELD	REV LAMP RLY
8	P	-	8	SHIELD	CAN-L
9	GR	-	9	SHIELD	STARTERLY
10	B	-	10	SHIELD	GROUND



JRMWF9509GB

# BCM (BODY CONTROL MODULE)

**< ECU DIAGNOSIS INFORMATION >**

## BCM (BODY CONTROL MODULE)

Connector No.	M9
Connector Name	DIODE
Connector Type	24335.C5900



## KEY SLOT

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	BAT
2	R	-
3	GR	CLOCK
4	W	DATA
5	Y	ILL.BAT
6	LG	ILL
7	B	GROUND
11	SB	KEY SWITCH SIGNAL

## DATA LINK CONNECTOR

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD161W-P



## TRUNK LID OPENER SWITCH

Connector No.	TG04FW
Connector Name	



## PUSH-BUTTON IGNITION SWITCH

Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	B	-
3	LG	-
4	R	-

## TKEOFER



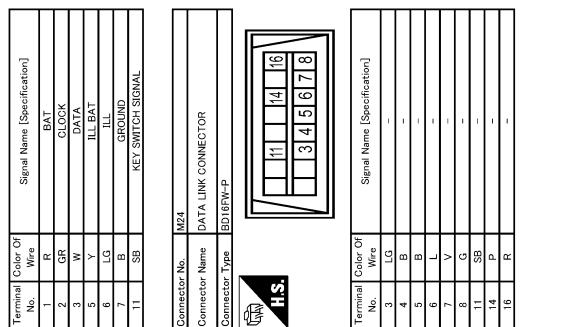
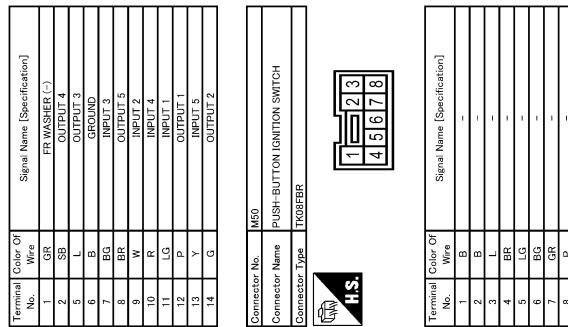
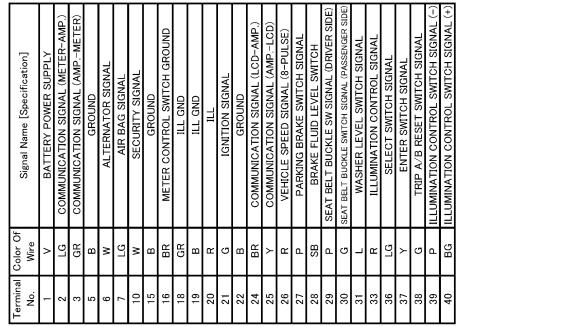
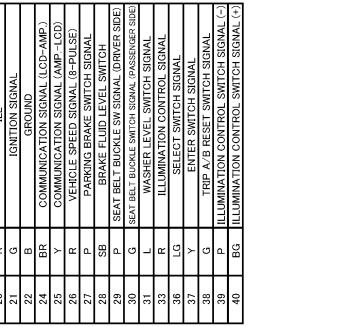
## COMBINATION METER

Connector No.	M33
Connector Name	COMBINATION METER
Connector Type	SAB10FW



## COMBINATION METER

Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	BATTERY POWER SUPPLY
2	LG	COMMUNICATION SIGNAL (AMP-AND)
3	GR	COMMUNICATION SIGNAL (AMP-M-E/EU)
4	W	GROUND
5	E	ALERTATOR SIGNAL
6	W	AIR BAG SIGNAL
7	LG	SECURITY SIGNAL
10	B	GROUND
11	BR	METER CONTROL SWITCH GROUND
12	GR	ILL.GND
13	B	ILL.GND
14	G	IGNITION SIGNAL
15	B	GROUND
16	Y	COMMUNICATION SIGNAL (LCD-AMP)
17	P	VEHICLE SPEED SIGNAL (PULSE)
27	P	PARKING BRAKE SWITCH SIGNAL
28	SB	Brake Fluid Level Switch
29	D	SEAT BELT BUCKLE SIGNAL (DRIVER SIDE)
30	G	SEAT BELT BUCKLE SIGNAL (PASSENGER SIDE)
31	L	WASHER LEVEL CONTROL SIGNAL
33	R	ILLUMINATION CONTROL SIGNAL
36	LG	SELECT SWITCH SIGNAL
37	Y	ENTER SWITCH SIGNAL
38	G	TRIP A/B RESET SWITCH SIGNAL
39	P	ILLUMINATION CONTROL SWITCH SIGNAL (-)
40	BG	ILLUMINATION CONTROL SWITCH SIGNAL (+)



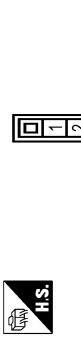
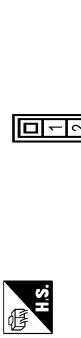
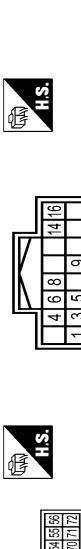
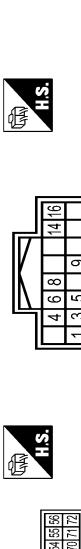
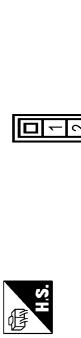
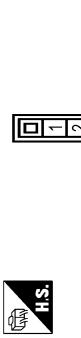
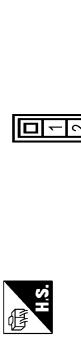
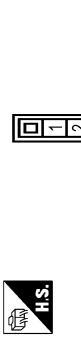
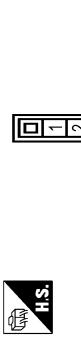
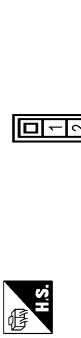
WCS

JRMWF9510GB

# BCM (BODY CONTROL MODULE)

**< ECU DIAGNOSIS INFORMATION >**

## BCM (BODY CONTROL MODULE)

<table border="1"> <tr> <td>Connector No.</td> <td>M67</td> </tr> <tr> <td>Connector Name</td> <td>UNIFIED METER AND A/C AMP.</td> </tr> <tr> <td>Connector Type</td> <td>TR52FW-NH</td> </tr> </table>  <b>H.S.</b>	Connector No.	M67	Connector Name	UNIFIED METER AND A/C AMP.	Connector Type	TR52FW-NH	<table border="1"> <tr> <td>Terminal No.</td> <td>Color Of Wire</td> <td>Signal Name [Specification]</td> </tr> <tr> <td>41</td> <td>L</td> <td>ACCO POWER SUPPLY</td> </tr> <tr> <td>42</td> <td>BR</td> <td>FUEL LEVEL SENSOR SIGNAL</td> </tr> <tr> <td>43</td> <td>BR</td> <td>INTAKE SENSOR SIGNAL</td> </tr> <tr> <td>44</td> <td>G</td> <td>IN-VEHICLE SENSOR SIGNAL</td> </tr> <tr> <td>45</td> <td>V</td> <td>AMBIENT SENSOR SIGNAL</td> </tr> <tr> <td>46</td> <td>Y</td> <td>SUN LOAD SENSOR SIGNAL</td> </tr> <tr> <td>53</td> <td>W</td> <td>IGNITION POWER SUPPLY</td> </tr> <tr> <td>54</td> <td>SB</td> <td>BATTERY POWER SUPPLY</td> </tr> <tr> <td>55</td> <td>B</td> <td>GROUND</td> </tr> <tr> <td>56</td> <td>L</td> <td>CAN-H</td> </tr> <tr> <td>57</td> <td>LG</td> <td>BRAKE FLUID LEVEL SWITCH</td> </tr> <tr> <td>58</td> <td>Y</td> <td>FUEL LEVEL SENSOR GROUND</td> </tr> <tr> <td>59</td> <td>GR</td> <td>INTAKE SENSOR GROUND</td> </tr> <tr> <td>60</td> <td>W</td> <td>IN-VEHICLE SENSOR GROUND</td> </tr> <tr> <td>61</td> <td>B</td> <td>AMBIENT SENSOR GROUND</td> </tr> <tr> <td>62</td> <td>SB</td> <td>SUN LOAD SENSOR GROUND</td> </tr> <tr> <td>65</td> <td>BD</td> <td>EVG SIGNAL</td> </tr> <tr> <td>69</td> <td>P</td> <td>A/C LAN SIGNAL</td> </tr> <tr> <td>70</td> <td>R</td> <td>EACH DOOR MOTOR POWER SUPPLY</td> </tr> <tr> <td>71</td> <td>GR</td> <td>GROUND</td> </tr> <tr> <td>72</td> <td>P</td> <td>CAN-L</td> </tr> </table>  <b>H.S.</b>	Terminal No.	Color Of Wire	Signal Name [Specification]	41	L	ACCO POWER SUPPLY	42	BR	FUEL LEVEL SENSOR SIGNAL	43	BR	INTAKE SENSOR SIGNAL	44	G	IN-VEHICLE SENSOR SIGNAL	45	V	AMBIENT SENSOR SIGNAL	46	Y	SUN LOAD SENSOR SIGNAL	53	W	IGNITION POWER SUPPLY	54	SB	BATTERY POWER SUPPLY	55	B	GROUND	56	L	CAN-H	57	LG	BRAKE FLUID LEVEL SWITCH	58	Y	FUEL LEVEL SENSOR GROUND	59	GR	INTAKE SENSOR GROUND	60	W	IN-VEHICLE SENSOR GROUND	61	B	AMBIENT SENSOR GROUND	62	SB	SUN LOAD SENSOR GROUND	65	BD	EVG SIGNAL	69	P	A/C LAN SIGNAL	70	R	EACH DOOR MOTOR POWER SUPPLY	71	GR	GROUND	72	P	CAN-L
Connector No.	M67																																																																								
Connector Name	UNIFIED METER AND A/C AMP.																																																																								
Connector Type	TR52FW-NH																																																																								
Terminal No.	Color Of Wire	Signal Name [Specification]																																																																							
41	L	ACCO POWER SUPPLY																																																																							
42	BR	FUEL LEVEL SENSOR SIGNAL																																																																							
43	BR	INTAKE SENSOR SIGNAL																																																																							
44	G	IN-VEHICLE SENSOR SIGNAL																																																																							
45	V	AMBIENT SENSOR SIGNAL																																																																							
46	Y	SUN LOAD SENSOR SIGNAL																																																																							
53	W	IGNITION POWER SUPPLY																																																																							
54	SB	BATTERY POWER SUPPLY																																																																							
55	B	GROUND																																																																							
56	L	CAN-H																																																																							
57	LG	BRAKE FLUID LEVEL SWITCH																																																																							
58	Y	FUEL LEVEL SENSOR GROUND																																																																							
59	GR	INTAKE SENSOR GROUND																																																																							
60	W	IN-VEHICLE SENSOR GROUND																																																																							
61	B	AMBIENT SENSOR GROUND																																																																							
62	SB	SUN LOAD SENSOR GROUND																																																																							
65	BD	EVG SIGNAL																																																																							
69	P	A/C LAN SIGNAL																																																																							
70	R	EACH DOOR MOTOR POWER SUPPLY																																																																							
71	GR	GROUND																																																																							
72	P	CAN-L																																																																							
<table border="1"> <tr> <td>Connector No.</td> <td>M72</td> </tr> <tr> <td>Connector Name</td> <td>MULTIFUNCTION SWITCH</td> </tr> <tr> <td>Connector Type</td> <td>TH167W-NH</td> </tr> </table>  <b>H.S.</b>	Connector No.	M72	Connector Name	MULTIFUNCTION SWITCH	Connector Type	TH167W-NH	<table border="1"> <tr> <td>Terminal No.</td> <td>Color Of Wire</td> <td>Signal Name [Specification]</td> </tr> <tr> <td>1</td> <td>B</td> <td>GROUND</td> </tr> <tr> <td>2</td> <td>D</td> <td>ACC</td> </tr> <tr> <td>4</td> <td>LG</td> <td>ILL CONT</td> </tr> <tr> <td>5</td> <td>BR</td> <td>AV COMM (H)</td> </tr> <tr> <td>6</td> <td>SB</td> <td>AV COMM (L)</td> </tr> <tr> <td>8</td> <td>LS</td> <td>SW END</td> </tr> <tr> <td>9</td> <td>BR</td> <td>DISK EJECT SIGNAL</td> </tr> <tr> <td>14</td> <td>V</td> <td>HAZARD ON</td> </tr> <tr> <td>16</td> <td>G</td> <td>IGNITION POWER SUPPLY</td> </tr> </table>  <b>H.S.</b>	Terminal No.	Color Of Wire	Signal Name [Specification]	1	B	GROUND	2	D	ACC	4	LG	ILL CONT	5	BR	AV COMM (H)	6	SB	AV COMM (L)	8	LS	SW END	9	BR	DISK EJECT SIGNAL	14	V	HAZARD ON	16	G	IGNITION POWER SUPPLY																																				
Connector No.	M72																																																																								
Connector Name	MULTIFUNCTION SWITCH																																																																								
Connector Type	TH167W-NH																																																																								
Terminal No.	Color Of Wire	Signal Name [Specification]																																																																							
1	B	GROUND																																																																							
2	D	ACC																																																																							
4	LG	ILL CONT																																																																							
5	BR	AV COMM (H)																																																																							
6	SB	AV COMM (L)																																																																							
8	LS	SW END																																																																							
9	BR	DISK EJECT SIGNAL																																																																							
14	V	HAZARD ON																																																																							
16	G	IGNITION POWER SUPPLY																																																																							
<table border="1"> <tr> <td>Connector No.</td> <td>M101</td> </tr> <tr> <td>Connector Name</td> <td>TIRE PRESSURE RECEIVER</td> </tr> <tr> <td>Connector Type</td> <td>TK05FW</td> </tr> </table>  <b>H.S.</b>	Connector No.	M101	Connector Name	TIRE PRESSURE RECEIVER	Connector Type	TK05FW	<table border="1"> <tr> <td>Terminal No.</td> <td>Color Of Wire</td> <td>Signal Name [Specification]</td> </tr> <tr> <td>1</td> <td>P</td> <td>GROUND</td> </tr> <tr> <td>2</td> <td>L</td> <td>SIGNAL</td> </tr> <tr> <td>4</td> <td>V</td> <td>BATTERY</td> </tr> </table>  <b>H.S.</b>	Terminal No.	Color Of Wire	Signal Name [Specification]	1	P	GROUND	2	L	SIGNAL	4	V	BATTERY																																																						
Connector No.	M101																																																																								
Connector Name	TIRE PRESSURE RECEIVER																																																																								
Connector Type	TK05FW																																																																								
Terminal No.	Color Of Wire	Signal Name [Specification]																																																																							
1	P	GROUND																																																																							
2	L	SIGNAL																																																																							
4	V	BATTERY																																																																							
<table border="1"> <tr> <td>Connector No.</td> <td>M104</td> </tr> <tr> <td>Connector Name</td> <td>REMOTE KEYLESS ENTRY RECEIVER</td> </tr> <tr> <td>Connector Type</td> <td>JAB04FB</td> </tr> </table>  <b>H.S.</b>	Connector No.	M104	Connector Name	REMOTE KEYLESS ENTRY RECEIVER	Connector Type	JAB04FB	<table border="1"> <tr> <td>Terminal No.</td> <td>Color Of Wire</td> <td>Signal Name [Specification]</td> </tr> <tr> <td>1</td> <td>3</td> <td>GROUND</td> </tr> <tr> <td>2</td> <td>2</td> <td>SIGNAL</td> </tr> </table>  <b>H.S.</b>	Terminal No.	Color Of Wire	Signal Name [Specification]	1	3	GROUND	2	2	SIGNAL																																																									
Connector No.	M104																																																																								
Connector Name	REMOTE KEYLESS ENTRY RECEIVER																																																																								
Connector Type	JAB04FB																																																																								
Terminal No.	Color Of Wire	Signal Name [Specification]																																																																							
1	3	GROUND																																																																							
2	2	SIGNAL																																																																							
<table border="1"> <tr> <td>Connector No.</td> <td>M105</td> </tr> <tr> <td>Connector Name</td> <td>TRUNK LID OPENER CANCEL SWITCH</td> </tr> <tr> <td>Connector Type</td> <td>SD2FW</td> </tr> </table>  <b>H.S.</b>	Connector No.	M105	Connector Name	TRUNK LID OPENER CANCEL SWITCH	Connector Type	SD2FW	<table border="1"> <tr> <td>Terminal No.</td> <td>Color Of Wire</td> <td>Signal Name [Specification]</td> </tr> <tr> <td>1</td> <td>W</td> <td>GROUND</td> </tr> <tr> <td>2</td> <td>B</td> <td>SIGNAL</td> </tr> </table>  <b>H.S.</b>	Terminal No.	Color Of Wire	Signal Name [Specification]	1	W	GROUND	2	B	SIGNAL																																																									
Connector No.	M105																																																																								
Connector Name	TRUNK LID OPENER CANCEL SWITCH																																																																								
Connector Type	SD2FW																																																																								
Terminal No.	Color Of Wire	Signal Name [Specification]																																																																							
1	W	GROUND																																																																							
2	B	SIGNAL																																																																							
<table border="1"> <tr> <td>Connector No.</td> <td>M118</td> </tr> <tr> <td>Connector Name</td> <td>BCM (BODY CONTROL MODULE)</td> </tr> <tr> <td>Connector Type</td> <td>MO3FB-LC</td> </tr> </table>  <b>H.S.</b>	Connector No.	M118	Connector Name	BCM (BODY CONTROL MODULE)	Connector Type	MO3FB-LC	<table border="1"> <tr> <td>Terminal No.</td> <td>Color Of Wire</td> <td>Signal Name [Specification]</td> </tr> <tr> <td>1</td> <td>3</td> <td>GROUND</td> </tr> <tr> <td>2</td> <td>2</td> <td>SIGNAL</td> </tr> </table>  <b>H.S.</b>	Terminal No.	Color Of Wire	Signal Name [Specification]	1	3	GROUND	2	2	SIGNAL																																																									
Connector No.	M118																																																																								
Connector Name	BCM (BODY CONTROL MODULE)																																																																								
Connector Type	MO3FB-LC																																																																								
Terminal No.	Color Of Wire	Signal Name [Specification]																																																																							
1	3	GROUND																																																																							
2	2	SIGNAL																																																																							
<table border="1"> <tr> <td>Connector No.</td> <td>M119</td> </tr> <tr> <td>Connector Name</td> <td>POWER WINDOW POWER SUPPLY (RWD)</td> </tr> <tr> <td>Connector Type</td> <td>TK03FW</td> </tr> </table>  <b>H.S.</b>	Connector No.	M119	Connector Name	POWER WINDOW POWER SUPPLY (RWD)	Connector Type	TK03FW	<table border="1"> <tr> <td>Terminal No.</td> <td>Color Of Wire</td> <td>Signal Name [Specification]</td> </tr> <tr> <td>1</td> <td>BG</td> <td>GROUND</td> </tr> <tr> <td>2</td> <td>Y</td> <td>SIGNAL OUTPUT</td> </tr> <tr> <td>4</td> <td>P</td> <td>BATTERY</td> </tr> </table>  <b>H.S.</b>	Terminal No.	Color Of Wire	Signal Name [Specification]	1	BG	GROUND	2	Y	SIGNAL OUTPUT	4	P	BATTERY																																																						
Connector No.	M119																																																																								
Connector Name	POWER WINDOW POWER SUPPLY (RWD)																																																																								
Connector Type	TK03FW																																																																								
Terminal No.	Color Of Wire	Signal Name [Specification]																																																																							
1	BG	GROUND																																																																							
2	Y	SIGNAL OUTPUT																																																																							
4	P	BATTERY																																																																							

JRMWF9511GB

# BCM (BODY CONTROL MODULE)

**< ECU DIAGNOSIS INFORMATION >**

## BCM (BODY CONTROL MODULE)

Terminal No.	Wire	Signal Name [Specification]	Color Of Wire	Connector No.	Color Of Wire	Signal Name [Specification]
4	LG	INTERIOR DOME POWER SUPPLY	SB	M119	Y	PASSENGER DOOR REQUEST SW
5	D	PASSENGER DOOR IN COUPERTAIN	Y		D	DRIVER DOOR REQUEST SW
7	SB	ALL STEP LAMP CONT	S		BG	BLADE FAN MOTOR RELAY A. CONT
8	V	ALL DOOR FUEL LD LOCK OUTPUT	S		P	KEYLESS ENTRY RECEIVER POWER SUPPLY
9	G	DRIVER DOOR FUEL LD UNLOCK OUTPUT	W		G	COMBI SW INPUT 1
10	P	REAR DOOR UNLOCK OUTPUT	Y		R	COMBI SW INPUT 4
11	R	BAT FUSE	R		W	COMBI SW INPUT 2
13	B	GROUND	BR		W	HAZARD SW
14	W	PUSH-BUTTON IGNITION SWILL GRID	SB		BR	TRUNK LD OPENER REQUEST SW
15	BG	ACC IND	G		-	I-KEY WARM BUZZER (ENC ROOM)
17	W	TURN SIGNAL RH (FRONT)	GR		-	TRUNK LD OPENER SW
18	BG	INT ROOM LAMP (FRONT)	BG		-	REAR RH DOOR SW
19	V	INT ROOM LAMP CONT	L		-	REAR LH DOOR SW
Terminal No.	Wire	Signal Name [Specification]	Color Of Wire	Connector No.	Color Of Wire	Signal Name [Specification]
20	V	TURN SIGNAL RH (REAR)	R	M120	Y	ROOM ANT 2-
23	LG	TRUNK LD OPEN OUTPUT	S		V	ROOM ANT 2+
25	Y	TURN SIGNAL LH (REAR)	SB		R	PASSENGER DOOR ANTI-
30	P	TRUNK ROOM LAMP CONT	BR		BR	PASSENGER DOOR CANCEL SW
						TRUNK LD OPENER CANCEL SW
72	R	ROOM ANT 2-	SB		BR	POWER WINDOW SW COMM
73	G	ROOM ANT 2+	SB		W	PUSH-BUTTON IGNITION SWL POWER
74	SB	PASSENGER DOOR ANTI-	SB		V	LOCK ND
75	BR	PASSENGER DOOR ANTI-	SB			RECEIVER / SENSOR GND
76	V	DRIVER DOOR ANTI-	SB			
77	LG	DRIVER DOOR ANTI-	SB			
78	Y	ROOM ANT 1-	SB			

JRMWF9512GB

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z  
WCS

# BCM (BODY CONTROL MODULE)

**< ECU DIAGNOSIS INFORMATION >**

---

BCM (BODY CONTROL MODULE)		
Connector No.	R12	Connector No. R14
Connector Name	VANITY MIRROR LAMP LH	Connector Name PERSONAL LAMP
Connector Type	MCA02FW	Connector Type TH04FN-HH
		
Connector No.	M146	
Connector Name	INSIDE KEY ANTENNA (CONSOLE)	
Connector Type	RG02FGY	
		
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	R	-
Connector No.	R13	Connector No. R15
Connector Name	VANITY MIRROR LAMP RH	Connector Name MAP LAMP
Connector Type	MCA02FW	Connector Type TH04FGY
		
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	G	-
Connector No.	R4	
Connector Name	SUNROOF MOTOR ASSEMBLY	
Connector Type	YE10FGY	
		
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	R	-
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	SW-BIT 1
5	P	SW-BIT 2
7	BR	-
8	L	*B SPEED SENSOR (2P)
9	Y	TIMER (+IGN)
10	G	GROUND

JRMWF9513GB

INFOID:0000000011400261

## Fail-safe

### FAIL-SAFE CONTROL BY DTC

BCM performs fail-safe control when any DTC are detected.

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent <ul style="list-style-type: none"> <li>• Starter control relay signal</li> <li>• Starter relay status signal</li> </ul>
B2608: STARTER RELAY	Inhibit engine 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>
B260A: IGNITION RELAY	Inhibit engine cranking	500 ms after the following conditions are fulfilled <ul style="list-style-type: none"> <li>• IGN relay (IPDM E/R) control signal: OFF (12 V)</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 are fulfilled <ul style="list-style-type: none"> <li>• Power position changes to ACC</li> <li>• Receives engine status signal (CAN)</li> </ul>
B2617: BCM	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization

## DTC Inspection Priority Chart

INFOID:0000000011400262

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

Priority	DTC
1	B2562: LOW VOLTAGE
2	<ul style="list-style-type: none"> <li>• U1000: CAN COMM</li> <li>• U1010: CONTROL UNIT(CAN)</li> </ul>
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> <li>• B2195: ANTI-SCANNING</li> </ul>

WCS

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Priority	DTC
4	<ul style="list-style-type: none"> <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/CLUTCH SW</li> <li>• B2605: PNP/CLUTCH SW</li> <li>• B2608: STARTER RELAY</li> <li>• B260A: IGNITION RELAY</li> <li>• B260F: ENG STATE SIG LOST</li> <li>• B2614: BCM</li> <li>• B2615: BCM</li> <li>• B2616: BCM</li> <li>• B2617: BCM</li> <li>• B2618: BCM</li> <li>• B261A: PUSH-BTN IGN SW</li> <li>• B261E: VEHICLE TYPE</li> <li>• B26EA: KEY REGISTRATION</li> <li>• C1729: VHCL SPEED SIG ERR</li> <li>• U0415: VEHICLE SPEED</li> </ul>
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>• C1716: [PRESSDATA ERR] FL</li> <li>• C1717: [PRESSDATA ERR] FR</li> <li>• C1718: [PRESSDATA ERR] RR</li> <li>• C1719: [PRESSDATA ERR] 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:000000011400263

### NOTE:

The details of time display are as follows.

- CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past.

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to [BCS-16, "COMMON ITEM : CONSULT Function \(BCM - COMMON ITEM\)"](#).

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference
No DTC is detected. further testing may be required.	—	—	—	—	—
U1000: CAN COMM	—	—	—	—	<a href="#">BCS-36</a>
U1010: CONTROL UNIT(CAN)	—	—	—	—	<a href="#">BCS-37</a>
U0415: VEHICLE SPEED	—	—	—	—	<a href="#">BCS-38</a>
B2190: NATS ANTENNA AMP	×	—	—	—	<a href="#">SEC-43</a>

# BCM (BODY CONTROL MODULE)

**< ECU DIAGNOSIS INFORMATION >**

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference
B2191: DIFFERENCE OF KEY	×	—	—	—	<a href="#">SEC-46</a>
B2192: ID DISCORD BCM-ECM	×	—	—	—	<a href="#">SEC-47</a>
B2193: CHAIN OF BCM-ECM	×	—	—	—	<a href="#">SEC-49</a>
B2195: ANTI-SCANNING	×	—	—	—	<a href="#">SEC-50</a>
B2553: IGNITION RELAY	—	×	—	—	<a href="#">PCS-49</a>
B2555: STOP LAMP	—	×	—	—	<a href="#">SEC-51</a>
B2556: PUSH-BTN IGN SW	—	×	×	—	<a href="#">SEC-53</a>
B2557: VEHICLE SPEED	×	×	×	—	<a href="#">SEC-55</a>
B2560: STARTER CONT RELAY	×	×	×	—	<a href="#">SEC-56</a>
B2562: LOW VOLTAGE	—	×	—	—	<a href="#">BCS-39</a>
B2601: SHIFT POSITION	×	×	×	—	<a href="#">SEC-57</a>
B2602: SHIFT POSITION	×	×	×	—	<a href="#">SEC-60</a>
B2603: SHIFT POSI STATUS	×	×	×	—	<a href="#">SEC-63</a>
B2604: PNP/CLUTCH SW	×	×	×	—	<a href="#">SEC-66</a>
B2605: PNP/CLUTCH SW	×	×	×	—	<a href="#">SEC-68</a>
B2608: STARTER RELAY	×	×	×	—	<a href="#">SEC-70</a>
B260A: IGNITION RELAY	×	×	×	—	<a href="#">PCS-51</a>
B260F: ENG STATE SIG LOST	×	×	×	—	<a href="#">SEC-72</a>
B2614: BCM	—	×	×	—	<a href="#">PCS-53</a>
B2615: BCM	—	×	×	—	<a href="#">PCS-55</a>
B2616: BCM	—	×	×	—	<a href="#">PCS-57</a>
B2617: BCM	×	×	×	—	<a href="#">SEC-74</a>
B2618: BCM	×	×	×	—	<a href="#">PCS-59</a>
B261A: PUSH-BTN IGN SW	—	×	×	—	<a href="#">PCS-60</a>
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	—	<a href="#">SEC-76</a>
B2621: INSIDE ANTENNA	—	×	—	—	<a href="#">DLK-59</a>
B2622: INSIDE ANTENNA	—	×	—	—	<a href="#">DLK-61</a>
B2623: INSIDE ANTENNA	—	×	—	—	<a href="#">DLK-63</a>
B26EA: KEY REGISTRATION	—	×	× (Turn ON for 15 seconds)	—	<a href="#">SEC-73</a>
C1704: LOW PRESSURE FL	—	—	—	×	<a href="#">WT-25</a>
C1705: LOW PRESSURE FR	—	—	—	×	
C1706: LOW PRESSURE RR	—	—	—	×	
C1707: LOW PRESSURE RL	—	—	—	×	
C1708: [NO DATA] FL	—	—	—	×	<a href="#">WT-27</a>
C1709: [NO DATA] FR	—	—	—	×	
C1710: [NO DATA] RR	—	—	—	×	
C1711: [NO DATA] RL	—	—	—	×	
C1716: [PRESSDATA ERR] FL	—	—	—	×	<a href="#">WT-30</a>
C1717: [PRESSDATA ERR] FR	—	—	—	×	
C1718: [PRESSDATA ERR] RR	—	—	—	×	
C1719: [PRESSDATA ERR] RL	—	—	—	×	

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

WCS

WT-25

WT-27

WT-30

## BCM (BODY CONTROL MODULE)

### < ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference
C1729: VHCL SPEED SIG ERR	—	—	—	×	<a href="#">WT-31</a>
C1734: CONTROL UNIT	—	—	—	×	<a href="#">WT-32</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:000000010990728

- 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:000000010990729

##### 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.  
NO    >> GO TO 2.

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

Perform a check for the parking brake switch signal circuit. Refer to [MWI-62, "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 check for the parking brake switch. Refer to [MWI-63, "Component Inspection"](#).

###### Is the inspection result normal?

- YES    >> Replace the combination meter.  
NO    >> Replace the parking brake switch. Refer to [PB-6, "Exploded View"](#).

A

B

C

D

E

F

G

H

I

J

K

L

M

WCS

O

P

# THE LIGHT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

## THE LIGHT REMINDER WARNING DOES NOT SOUND

### Description

INFOID:0000000010990730

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

### Diagnosis Procedure

INFOID:0000000010990731

#### 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-145, "Diagnosis Procedure"](#).

#### 2.CHECK FRONT DOOR SWITCH (DRIVER SIDE) SIGNAL CIRCUIT

Perform the check for the front door switch (driver side) signal circuit. Refer to [DLK-66, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

#### 3.CHECK FRONT DOOR SWITCH (DRIVER SIDE) UNIT

Perform a unit check for the front door switch (driver side). Refer to [DLK-68, "Component Inspection"](#).

Is the inspection result normal?

YES >> Replace the BCM. Refer to [BCS-90, "Removal and Installation"](#).

NO >> Replace the front door switch (driver side). Refer to [DLK-257, "Removal and Installation"](#).

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

< SYMPTOM DIAGNOSIS >

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

### Description

INFOID:0000000010990732

- 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:0000000010990733

#### 1. 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 >> GO TO 2.  
NO >> GO TO 4.

#### 2. CHECK UNIFIED METER AND A/C AMP. INPUT SIGNAL

Check the buckle switch input signal with the "Data Monitor". Refer to [WCS-24, "Component Function Check"](#).

Is the inspection result normal?

- YES >> Replace the unified meter and A/C amp.  
NO >> GO TO 3.

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

Perform the check for the seat belt buckle switch circuit. Refer to [WCS-24, "Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> Replace the unified meter and A/C amp.  
NO >> Repair harness or connector.

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

Perform a unit check for the seat belt buckle switch (driver side). Refer to [WCS-25, "Component Inspection"](#).

Is the inspection result normal?

- YES >> Replace the combination meter.  
NO >> Replace the seat belt buckle. Refer to [SB-8, "SEAT BELT BUCKLE : Removal and Installation"](#).

A

B

C

D

E

F

G

H

I

J

K

L

M

WCS

O

P

## PRECAUTIONS

< PRECAUTION >

# PRECAUTION

## PRECAUTIONS

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

INFOID:0000000010990734

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 "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

#### **WARNING:**

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

#### **WARNING:**

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

### Precautions for Removing Battery Terminal

INFOID:0000000011400365

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

#### **NOTE:**

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

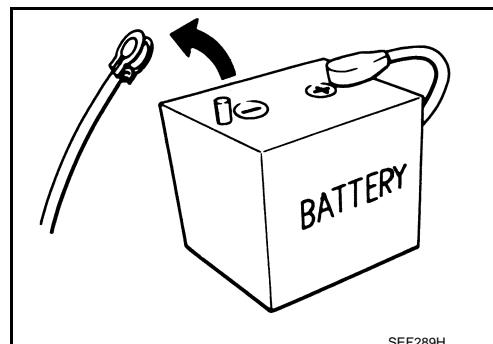
#### **NOTE:**

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

#### **NOTE:**

The removal of 12V battery may cause a DTC detection error.



SEF289H