

# WCS

## SECTION

### WARNING CHIME SYSTEM

## CONTENTS

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

Component Function Check .....	24	<b>SYMPTOM DIAGNOSIS .....</b>	<b>118</b>
Diagnosis Procedure .....	24	<b>THE PARKING BRAKE RELEASE WARNING</b>	
Component Inspection .....	25	<b>CONTINUES SOUNDING, OR DOES NOT</b>	
<b>WARNING CHIME SYSTEM .....</b>	<b>26</b>	<b>SOUND .....</b>	<b>118</b>
Wiring Diagram - WARNING CHIME - .....	26	Description .....	118
<b>ECU DIAGNOSIS INFORMATION .....</b>	<b>34</b>	Diagnosis Procedure .....	118
<b>COMBINATION METER .....</b>	<b>34</b>	<b>THE LIGHT REMINDER WARNING DOES</b>	
Reference Value .....	34	<b>NOT SOUND .....</b>	<b>119</b>
Wiring Diagram - METER - .....	37	Description .....	119
Fail-Safe .....	50	Diagnosis Procedure .....	119
DTC Index .....	51	<b>THE SEAT BELT WARNING CONTINUES</b>	
<b>UNIFIED METER AND A/C AMP. ....</b>	<b>52</b>	<b>SOUNDING, OR DOES NOT SOUND .....</b>	<b>120</b>
Reference Value .....	52	Description .....	120
Wiring Diagram - METER - .....	59	Diagnosis Procedure .....	120
Fail-Safe .....	72	<b>PRECAUTION .....</b>	<b>121</b>
DTC Index .....	73	<b>PRECAUTIONS .....</b>	<b>121</b>
<b>BCM (BODY CONTROL MODULE) .....</b>	<b>75</b>	Precaution for Supplemental Restraint System	
Reference Value .....	75	(SRS) "AIR BAG" and "SEAT BELT PRE-TEN-	
Wiring Diagram - BCM - .....	99	SIONER" .....	121
Fail-safe .....	113	Precautions for Removing Battery Terminal .....	121
DTC Inspection Priority Chart .....	114		
DTC Index .....	115		

# DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

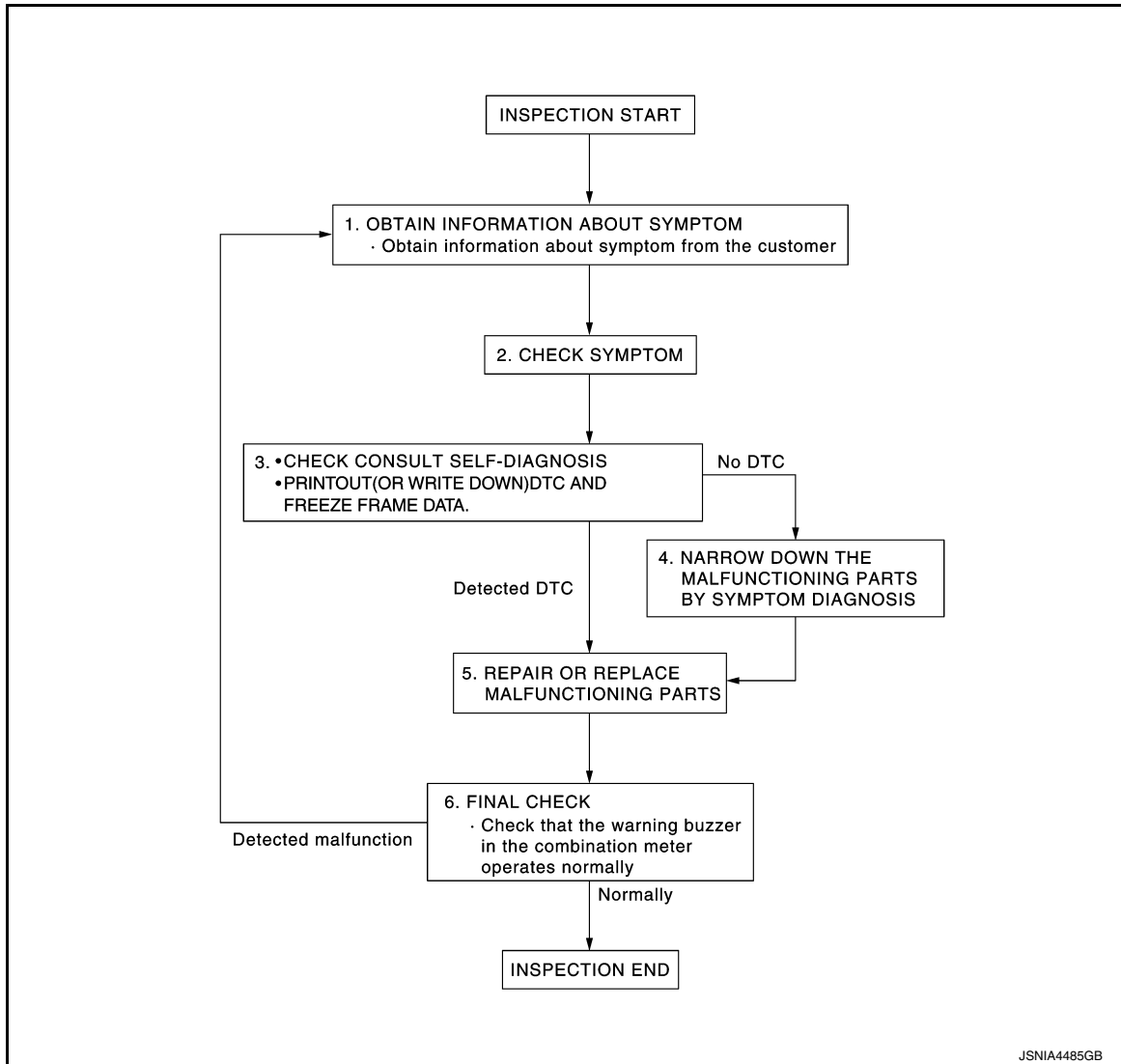
## BASIC INSPECTION

### DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:0000000012171532

#### OVERALL SEQUENCE



#### DETAILED FLOW

##### 1.OBTAIN INFORMATION ABOUT SYMPTOM

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

>> GO TO 2.

##### 2.CHECK SYMPTOM

- Check the symptom based on the information obtained from the customer.
- Check 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-108, "DTC Index"](#).

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

WCS

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 >

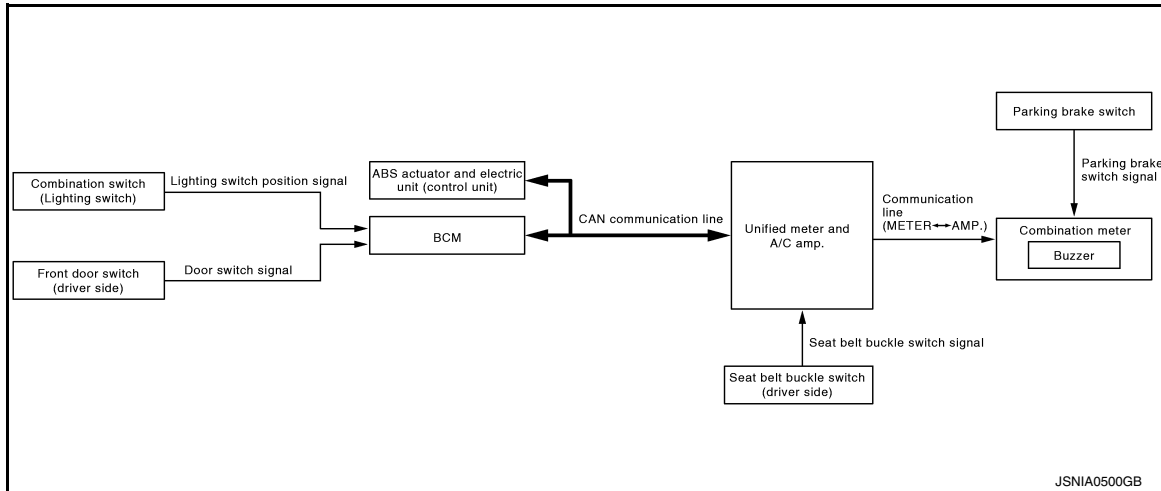
## SYSTEM DESCRIPTION

### WARNING CHIME SYSTEM

### WARNING CHIME SYSTEM

### WARNING CHIME SYSTEM : System Diagram

INFOID:0000000012171533



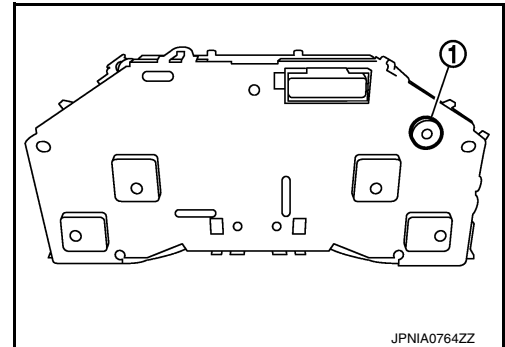
JSNIA0500GB

### WARNING CHIME SYSTEM : System Description

INFOID:0000000012171534

#### 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.



JPNIA0764ZZ

#### 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

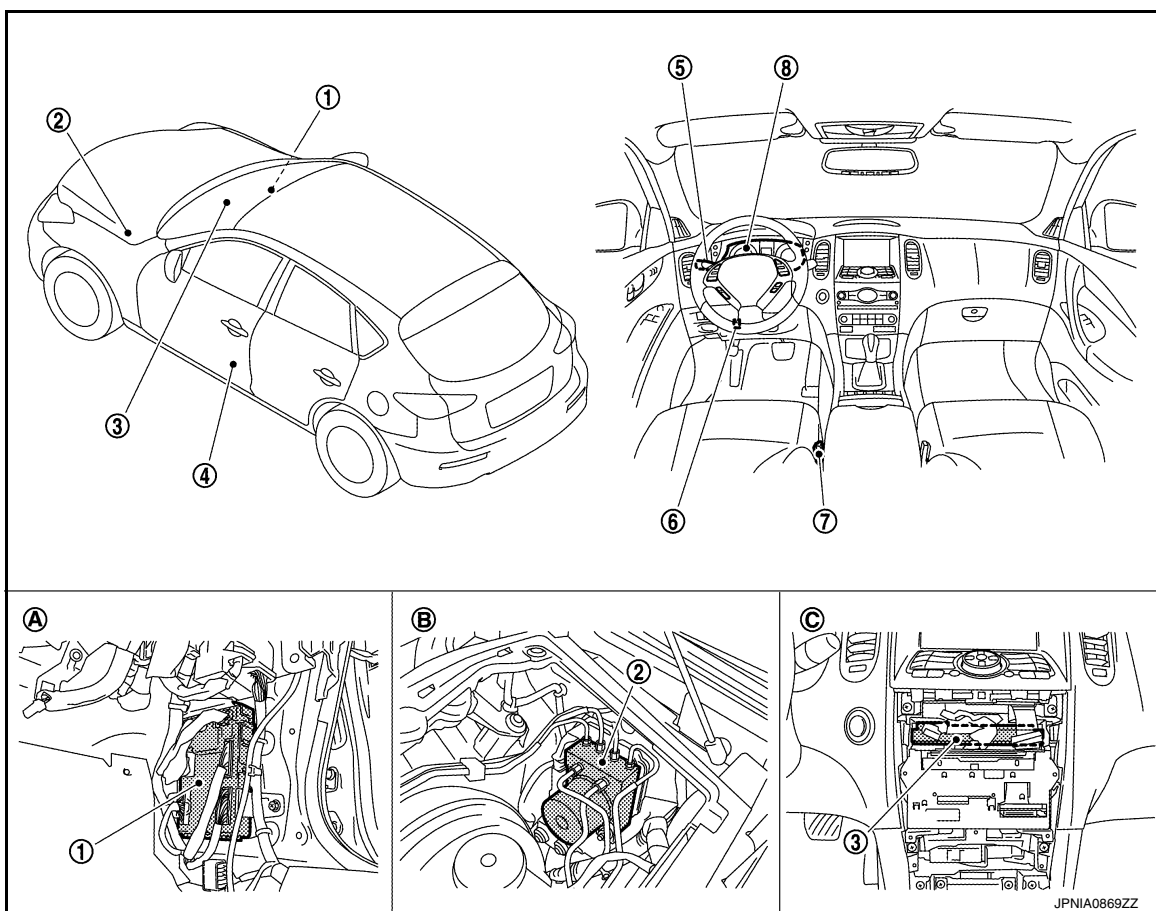
A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
O  
P

# WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

## WARNING CHIME SYSTEM : Component Parts Location

INFOID:000000012171535



- |  |  |                               |
|--|--|-------------------------------|
| 1. BCM                                   | 2. ABS actuator and electric unit (control unit) | 3. Unified meter and A/C amp. |
| 4. Front door switch (driver side)       | 5. Combination switch (lighting switch)          | 6. Parking brake switch       |
| 7. Seat belt buckle switch (driver side) | 8. Combination meter                             |                               |
| A. Dash side lower (passenger side)      | B. Hoodledge cover (LH)                          | C. Behind cluster lid C       |

## WARNING CHIME SYSTEM : Component Description

INFOID:000000012171536

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 unified meter and A/C amp. 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.

# WARNING CHIME SYSTEM

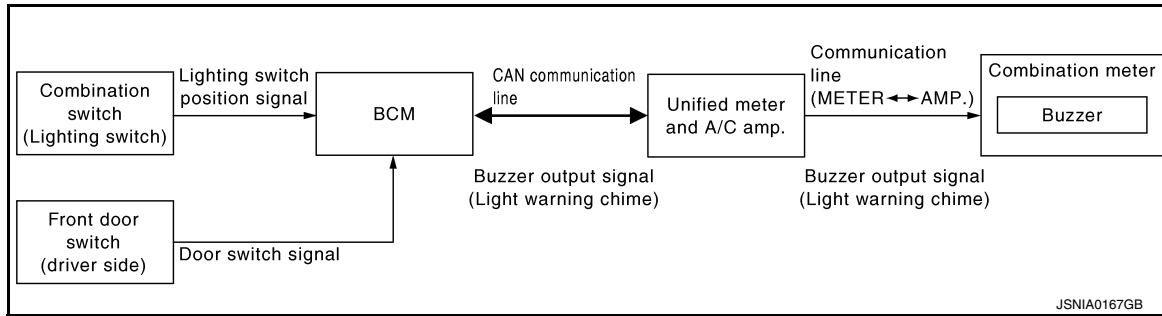
## < SYSTEM DESCRIPTION >

Unit	Description
Combination switch (lighting switch)	Transmits the lighting switch position signal to BCM.
Front door switch (driver side)	Transmits the door switch signal to BCM.
Parking brake switch	Refer to <a href="#">MWI-64. "Description"</a> .

## LIGHT REMINDER WARNING CHIME

### LIGHT REMINDER WARNING CHIME : System Diagram

INFOID:0000000012171537



### LIGHT REMINDER WARNING CHIME : System Description

INFOID:0000000012171538

#### 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

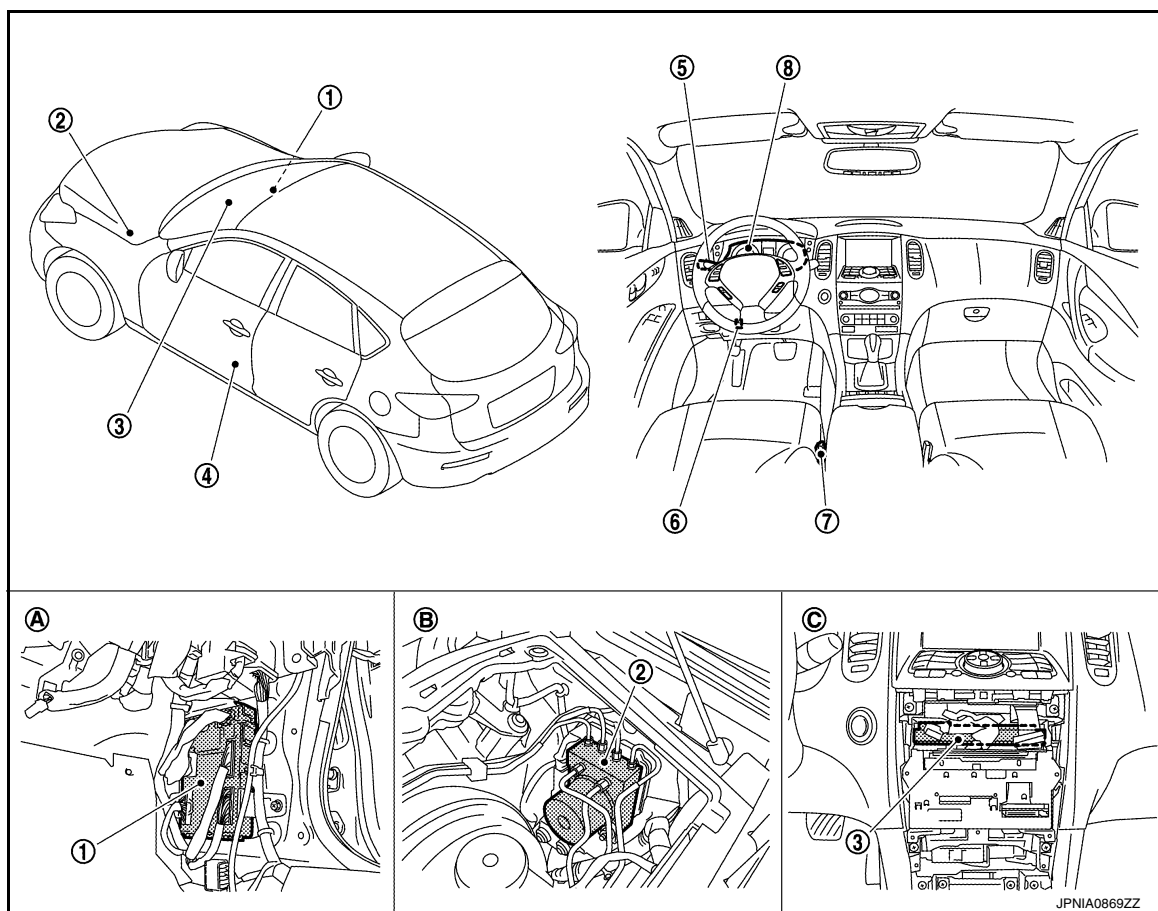
WCS

# WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

## LIGHT REMINDER WARNING CHIME : Component Parts Location

INFOID:000000012171539



- |  |  |                               |
|--|--|-------------------------------|
| 1. BCM                                   | 2. ABS actuator and electric unit (control unit) | 3. Unified meter and A/C amp. |
| 4. Front door switch (driver side)       | 5. Combination switch (lighting switch)          | 6. Parking brake switch       |
| 7. Seat belt buckle switch (driver side) | 8. Combination meter                             |                               |
| A. Dash side lower (passenger side)      | B. Hoodledge cover (LH)                          | C. Behind cluster lid C       |

## LIGHT REMINDER WARNING CHIME : Component Description

INFOID:000000012171540

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

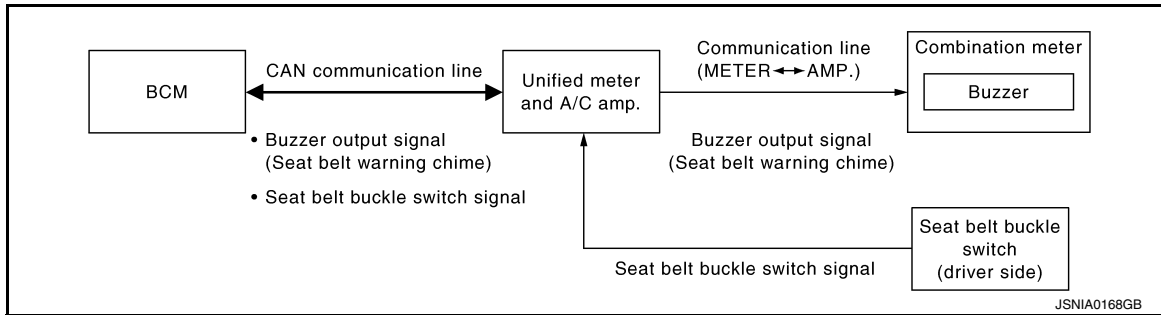


# WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

## SEAT BELT WARNING CHIME : System Diagram

INFOID:0000000012171541



## SEAT BELT WARNING CHIME : System Description

INFOID:0000000012171542

### 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 belt buckle switch (driver side) is ON (driver seat belt not fastened)

### WARNING CANCEL CONDITIONS

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

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

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

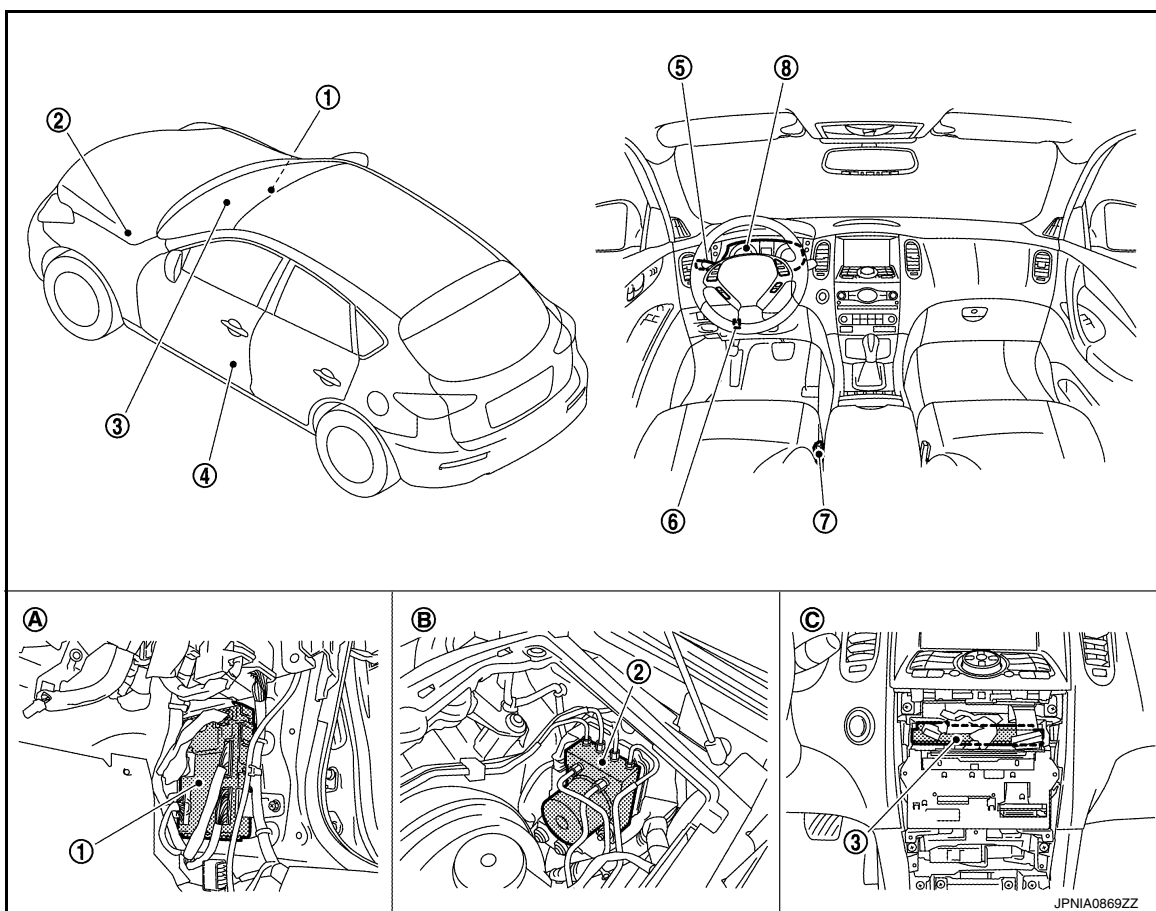
WCS

# WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

## SEAT BELT WARNING CHIME : Component Parts Location

INFOID:000000012171543



- |  |  |                               |
|--|--|-------------------------------|
| 1. BCM                                   | 2. ABS actuator and electric unit (control unit) | 3. Unified meter and A/C amp. |
| 4. Front door switch (driver side)       | 5. Combination switch (lighting switch)          | 6. Parking brake switch       |
| 7. Seat belt buckle switch (driver side) | 8. Combination meter                             |                               |
| A. Dash side lower (passenger side)      | B. Hoodledge cover (LH)                          | C. Behind cluster lid C       |

## SEAT BELT WARNING CHIME : Component Description

INFOID:000000012171544

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> .

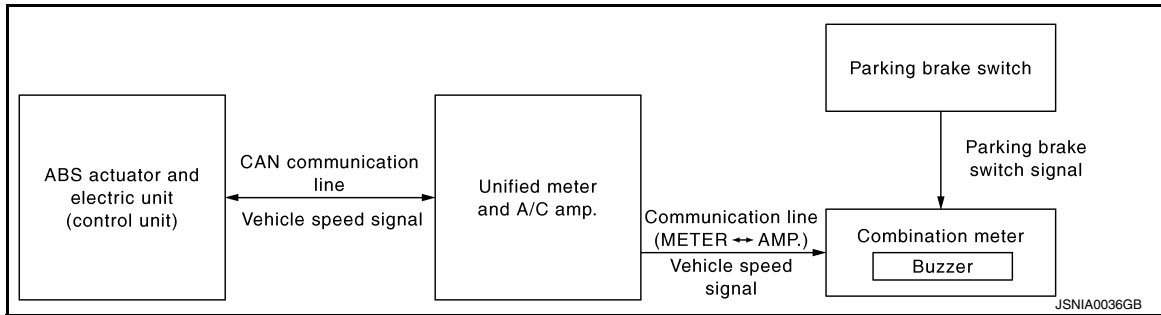
## PARKING BRAKE RELEASE WARNING CHIME

# WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

## PARKING BRAKE RELEASE WARNING CHIME : System Diagram

INFOID:0000000012171545



## PARKING BRAKE RELEASE WARNING CHIME : System Description

INFOID:0000000012171546

### 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

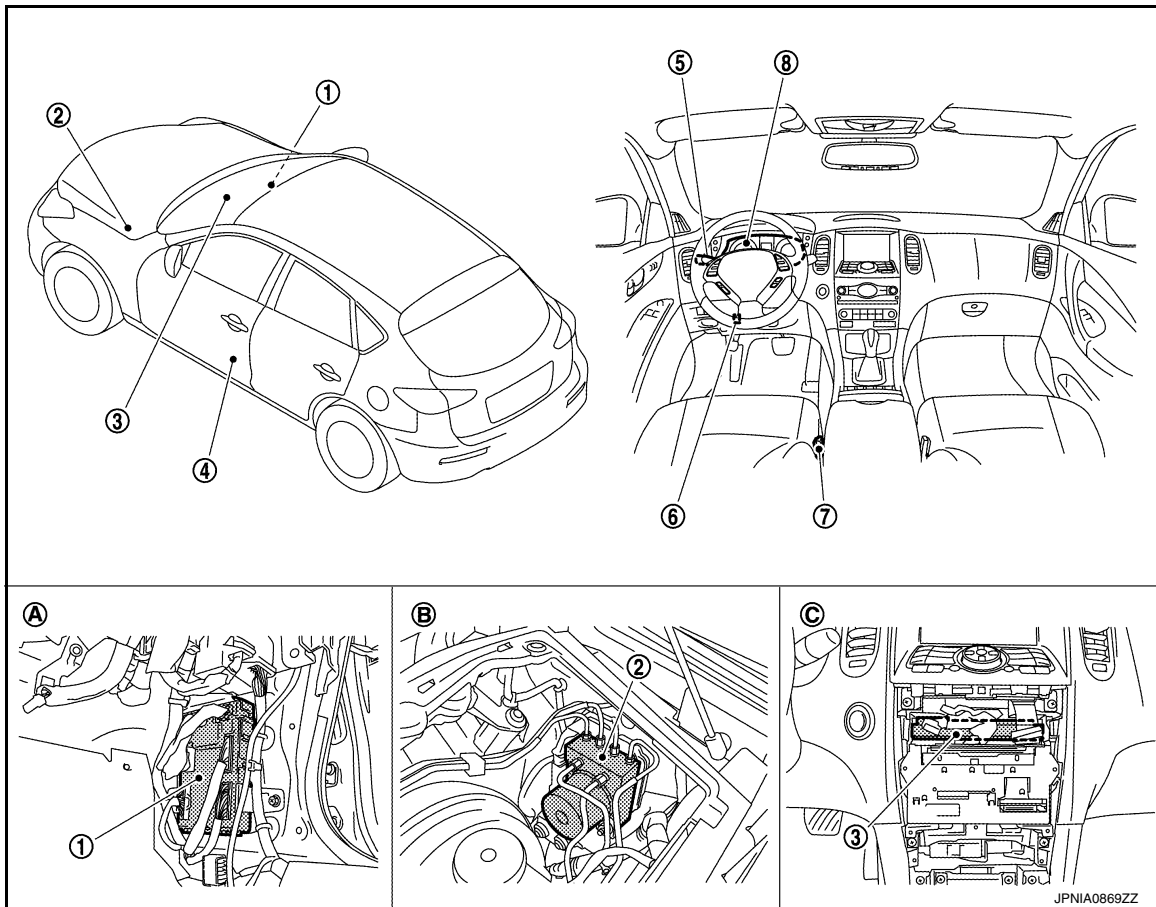
WCS

# WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

## PARKING BRAKE RELEASE WARNING CHIME : Component Parts Location

INFOID:0000000012171547



- |  |  |                               |
|--|--|-------------------------------|
| 1. BCM                                   | 2. ABS actuator and electric unit (control unit) | 3. Unified meter and A/C amp. |
| 4. Front door switch (driver side)       | 5. Combination switch (lighting switch)          | 6. Parking brake switch       |
| 7. Seat belt buckle switch (driver side) | 8. Combination meter                             |                               |
| A. Dash side lower (passenger side)      | B. Hoodledge cover (LH)                          | C. Behind cluster lid C       |

## PARKING BRAKE RELEASE WARNING CHIME : Component Description

INFOID:0000000012171548

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 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 unified meter and A/C amp. via CAN communication line.
Parking brake switch	Refer to <a href="#">MWI-64, "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:0000000012762361

#### 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 [WCS-73, "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] or [mph]	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] or [mph]	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 [L]	X	Fuel level indicated on combination meter.
W TEMP METER [°C] or [°F]	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.

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

## < SYSTEM DESCRIPTION >

Display item [Unit]	MAIN SIGNALS	Description
BRAKE W/L [On/Off]		Status of brake warning lamp judged from brake warning lamp signal received from ABS actuator and electric unit (control unit) with CAN communication line. <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.
DOOR W/L [On/Off]		Status of door warning judged from door 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 [Off]		Status of front fog light indicator lamp detected from front fog light request signal is received from BCM via CAN communication.
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 [Off]		This item is displayed, but cannot be monitored.
C-ENG2 W/L [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]		<ul style="list-style-type: none"> <li>Status of SET indicator judged from ASCD status signal received from ECM with CAN communication line.</li> <li>Status of SET indicator judged from meter display signal received from ICC sensor integrated unit with CAN communication line.</li> </ul>
CRUISE W/L [On/Off]		Status of CRUISE warning lamp judged from ICC warning lamp signal received from ICC sensor integrated unit with CAN communication line.
BA W/L [Off]		Status of IBA OFF indicator lamp judged from IBA OFF indicator lamp signal received ICC sensor integrated unit with CAN communication line.
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 status judged by the identified fuel level.
WASHER W/L [On/Off]		Status of washer warning 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 [Off]		This item is displayed, but cannot be monitored.
LANE W/L [On/Off]		Status of lane departure warning lamp judged from lane departure warning lamp signal received from lane camera unit with CAN communication line.
LDP IND [On/Off]		Status of LDP ON indicator lamp judged from LDP ON indicator lamp signal received from lane camera unit with CAN communication line.
DCA IND [On/Off]		Status of DCA switch indicator judged from meter display signal received from ICC sensor integrated unit with CAN communication line.
BSW W/L [On/Off]		Status of BSW warning lamp judged from BSW warning lamp signal received from BSW control module with CAN communication line.
LCD [B&P N, B&P I, ID NG, ROTAT, SFT P, INSRT, BATT, NO KY, OUTKY, LK WN]		Displays status of Intelligent Key system warning judged from meter display signal received from BCM with CAN communication line.
ACC TARGET [On/Off]		Status of vehicle ahead detection indicator judged from meter display signal received from ICC sensor integrated unit with CAN communication line.
ACC DISTANCE [Off, SHORT, MID, LONG]		Status of set distance indicator judged from meter display signal received from ICC sensor integrated unit with CAN communication line.
ACC OWN VHL [On/Off]		Status of own vehicle indicator judged from meter display signal received from ICC sensor integrated unit with CAN communication line.
ACC SET SPEED		Status of set vehicle speed indicator judged from meter display signal received from ICC sensor integrated unit with CAN communication line.
ACC UNIT [On/Off]		Status of display unit judged from meter display signal received from ICC sensor integrated unit with CAN communication line.
SHIFT IND [P, R, N, D, L, 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.
O/D OFF SW [Off]		This item is displayed, but cannot be monitored.
AT S MODE SW [On/Off]		Status of snow mode switch.
AT P MODE SW [Off]		This item is displayed, but cannot be monitored.
M RANGE SW [On/Off]		Status of manual mode switch.
NM RANGE SW [On/Off]		Status of non-manual mode switch.
AT SFT UP SW [On/Off]		Status of manual mode shift up switch.
AT SFT DWN SW [On/Off]		Status of manual mode shift down switch.
ST SFT UP SW [Off]		This item is displayed, but cannot be monitored.
ST SFT DWN SW [Off]		This item is displayed, but cannot be monitored.
COMP F/B SIG [On/Off]		A/C compressor activation condition that ECM judges according to the water temperature and the acceleration degree.
4WD LOCK SW [Off]		This item is displayed, but cannot be monitored.
PKB SW [On/Off]		Status of parking brake switch.
BUCKLE SW [On/Off]		Status of seat belt buckle switch (driver side).

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 OIL SW [On/Off]		Status of brake fluid level switch.
DISTANCE [km]		Value of possible driving distance calculated by unified meter and A/C amp.
OUTSIDE TEMP [°C] or [°F]		Ambient air temperature value converted from ambient sensor signal received from ambient sensor. <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.)
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.



# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

## DIAGNOSIS SYSTEM (BCM)

### COMMON ITEM

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

INFOID:0000000012780032

### 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	<ul style="list-style-type: none"> <li>Read and save the vehicle specification.</li> <li>Write the vehicle specification when replacing BCM.</li> </ul>

### 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.

×: Applicable item

System	Sub system selection item	Diagnosis mode		
		Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp timer	INT LAMP	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
—	AIR CONDITONER*			
<ul style="list-style-type: none"> <li>Intelligent Key system</li> <li>Engine start system</li> </ul>	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
IVIS - NATS	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open system	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	AIR PRESSURE MONITOR	×	×	×

#### 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.

# 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	Power supply position status of the moment a particular DTC is detected*	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" (Except emergency stop operation)
	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	The number of times that ignition switch is turned ON after DTC is detected <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, 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:0000000012171551

### 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).

WCS

# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## DTC/CIRCUIT DIAGNOSIS

### POWER SUPPLY AND GROUND CIRCUIT COMBINATION METER

#### COMBINATION METER : Diagnosis Procedure

INFOID:0000000012762364

#### 1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	6
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 and ground.

Terminals			Ignition switch position	Value (Approx.)	
(+)		(-)			
Combination meter	Terminal		Signal name		
M53	1	Battery power supply	Ground	OFF	Battery voltage
	21	Ignition signal		ON	

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 and ground.

Combination meter		Ground	Continuity
Connector	Terminal		
M53	5		Existed
	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:0000000012762365

#### 1.CHECK FUSE

Check for blown fuses.

# POWER SUPPLY AND GROUND CIRCUIT

## < DTC/CIRCUIT DIAGNOSIS >

Power source	Fuse No.
Battery	6
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 and ground.

Terminals			Ignition switch position	Value (Approx.)
(+)		(-)		
Unified meter and A/C amp.	Terminal		Signal name	
M67	54	Battery power supply	OFF	Battery voltage
	41	ACC power supply	ACC	
	53	Ignition signal	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 and ground.

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

## BCM (BODY CONTROL MODULE)

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

INFOID:0000000012780096

## 1.CHECK FUSE AND FUSIBLE LINK

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

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

Is the fuse or fusible link is blown (open)?

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

NO >> GO TO 2.

## 2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connectors.

## POWER SUPPLY AND GROUND CIRCUIT

### < DTC/CIRCUIT DIAGNOSIS >

3. Check voltage between BCM harness connector and ground.

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

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:0000000012171555

- 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:0000000012171556

#### 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-97, "Removal and Installation"](#).

### Diagnosis Procedure

INFOID:0000000012171557

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

Check power supply of combination meter. Refer to [MWI-52, "COMBINATION METER : Diagnosis Procedure"](#).

Is the inspection result normal?

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

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

Check power supply of unified meter and A/C amp. Refer to [MWI-52, "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.

WCS

# SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

### Description

INFOID:0000000012171558

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

### Component Function Check

INFOID:0000000012171559

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

Select the "Data Monitor" for 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:0000000012171560

#### 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 and ground.

Terminals		Condition	Voltage (Approx.)	
(+)	(-)			
Unified meter and A/C amp.				Ground
Connector	Terminal			
M66	9	When driver seat belt is fastened	12 V	
		When driver 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 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 and seat belt buckle switch (driver side) harness connector.

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 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 GROUND CIRCUIT

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



# SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

## < DTC/CIRCUIT DIAGNOSIS >

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:000000012171561

### 1. CHECK SEAT BELT BUCKLE SWITCH UNIT

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

Terminal		Condition	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 seat belt buckle. Refer to [SB-8, "SEAT BELT BUCKLE : Removal and Installation"](#).

WCS

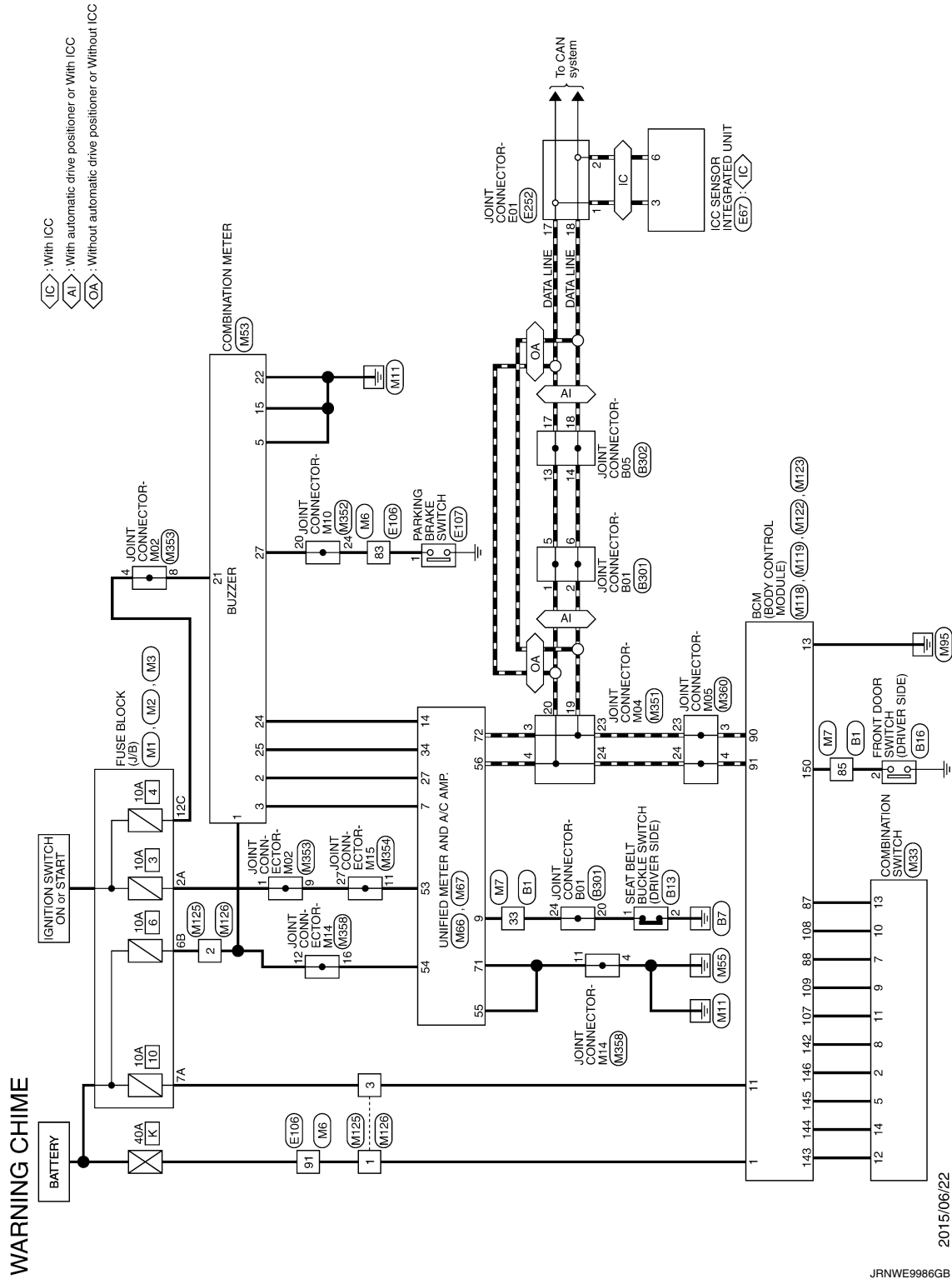
# WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

## WARNING CHIME SYSTEM

### Wiring Diagram - WARNING CHIME -

INFOID:0000000012171562

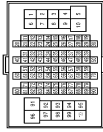


# WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

## WARNING CHIME

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	-
5	G	-
6	SB	-
7	V	-
8	L	-
11	V	-
12	SB	-
13	LG	-
14	GR	-
15	LG	-
16	R	-
17	W	-
18	SB	-
20	BR	-
21	SHIELD	-
22	Y	-
24	P	-
25	G	-
26	Y	-
27	B	- [With NAVI]
27	BR	- [Without NAVI]
28	R	- [With NAVI]
28	W	- [Without NAVI]
29	L	- [With NAVI]
29	W	- [Without NAVI]
30	SHIELD	- [With round data monitor]
31	LG	- [Without round data monitor]
32	P	- [With NAVI] [Without Blind Spot Warning]
32	W	- [Without NAVI] [Without Blind Spot Warning]
32	Y	- [With NAVI] [Without Blind Spot Warning]
33	SB	-
34	L	-
35	P	-

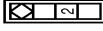
36	L	-
37	P	-
38	P	-
39	Y	-
40	SB	-
44	Y	-
45	GR	-
46	LG	-
47	SB	-
48	BG	-
49	R	-
50	L	-
60	P	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	W	-
67	V	-
68	SB	-
69	SHIELD	-
70	W	-
73	SB	-
74	L	-
75	W	-
76	BR	-
77	R	-
78	P	-
79	GR	-
83	BG	-
85	V	-
86	LG	-
87	Y	-
88	R	-
89	B	-
90	BG	-
91	G	-
92	BR	-
93	G	-
94	SB	-
95	G	-
96	Y	-
98	W	-
99	GR	-

Connector No.	B13
Connector Name	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
Connector Type	TH40FW-NH



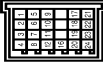
Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	B	-

Connector No.	B16
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	JA03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
2	V	-

Connector No.	B201
Connector Name	JOINT CONNECTOR-B01
Connector Type	NH24FE-J



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	P	-
3	SB	-
4	LG	-
5	L	-
6	P	-
7	SB	-
8	LG	-
9	L	-
10	P	-
11	SB	-
12	LG	-
13	SB	-
14	Y	-
18	Y	-
19	B	-
20	SB	-
21	R	-
22	Y	-
23	B	-
24	SB	-

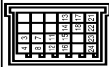
A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
WCS  
O  
P

# WARNING CHIME SYSTEM

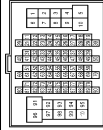
## < DTC/CIRCUIT DIAGNOSIS >

### WARNING CHIME

Connector No.	E602
Connector Name	JOINT CONNECTOR-B05
Connector Type	NH24FGY-J



Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



91	W	-
92	Y	-
93	V	-
94	LG	-
95	BG	-
96	P	-
97	R	-
98	SHIELD	-
99	L	-
100	P	-

Terminal No.	Color Of Wire	Signal Name [Specification]
3	Y	-
4	L	-
7	Y	-
8	L	-
11	Y	-
12	L	-
13	L	-
14	P	-
15	Y	-
16	L	-
17	L	-
18	L	-
19	L	-
20	L	-
21	P	-
22	Y	-
23	Y	-
24	L	-

Connector No.	E67
Connector Name	ICG SENSOR INTEGRATED UNIT
Connector Type	RS06FB-PR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	IGNITION
2	L	ITS COMM-H
3	L	CAN-H
4	B	GROUND

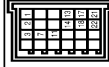
36	SHIELD	-
37	V	-
38	BR	-
39	BG	-
41	W	-
42	G	-
43	GR	-
45	W	-
49	L	-
50	P	-
51	L	-
54	BG	-
55	BR	-
57	W	-
60	LG	-
61	G	-
62	SB	-
63	W	-
64	B	-
65	G	-
66	R	-
67	SHIELD	-
68	Y	-
69	LG	-
70	W	-
71	R	-
72	Y	-
73	B	-
74	BR	- [With ICC] - [Without ICC]
74	L	- [With ICC] - [Without ICC]
75	G	- [With ICC] - [Without ICC]
75	W	- [With ICC] - [Without ICC]
76	W	- [With ICC] - [Without ICC]
76	P	- [With ICC] - [Without ICC]
77	R	- [With ICC] - [Without ICC]
78	BR	- [With ICC] - [Without ICC]
78	L	- [With ICC] - [Without ICC]
79	L	- [With ICC] - [Without ICC]
79	V	- [With ICC] - [Without ICC]
80	SB	- [With ICC] - [Without ICC]
82	SB	- [With ICC] - [Without ICC]
83	BG	- [With ICC] - [Without ICC]
84	G	- [With ICC] - [Without ICC]
85	L	- [With ICC] - [Without ICC]
86	P	- [With ICC] - [Without ICC]
87	V	- [With ICC] - [Without ICC]
89	GR	- [With ICC] - [Without ICC]
90	SHIELD	- [With ICC] - [Without ICC]

Connector No.	E107
Connector Name	PARKING BRAKE SWITCH
Connector Type	TB01FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	-

Connector No.	E252
Connector Name	JOINT CONNECTOR-E01
Connector Type	NH24FW-J



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	P	-
3	GR	-
7	GR	-
11	GR	-
13	L	-
14	P	-

# WARNING CHIME SYSTEM

## < DTC/CIRCUIT DIAGNOSIS >

### WARNING CHIME

17	L	-
18	P	-
21	L	-
22	P	-

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-M2



Terminal No.	Color Of Wire	Signal Name [Specification]
1A	Y	-
2A	G	-
3A	L	-
4A	R	-
5A	V	-
6A	Y	-
7A	R	-
8A	L	-

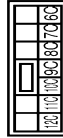
Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
3B	P	-
4B	G	-
5B	BG	-
6B	Y	-
7B	P	-
8B	R	-

9B	SB	-
----	----	---

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
10C	L	-
11C	R	-
12C	BG	-
6C	R	-
7C	B	-
8C	G	-
9C	BG	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	T1480MM-CSI16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	- [With NAVI]
2	B	- [Without NAVI]
3	B	- [With NAVI]
4	G	- [Without NAVI]
5	G	- [With NAVI]
6	R	- [Without NAVI]
7	W	-

71	LG	-
72	Y	-
73	SB	- [With ICC]
74	BR	- [Without ICC]
75	L	-
76	G	- [Without ICC]
77	P	- [With ICC]
78	R	- [Without ICC]
79	L	- [With ICC]
80	W	- [Without ICC]
81	SB	- [With ICC]
82	SB	-
83	V	-
84	G	-
85	L	-
86	P	-
87	W	-
89	GR	-
90	SHIELD	-
91	W	-
92	Y	-
93	BR	-
94	GR	-
95	GR	-
96	W	-
97	L	-
98	SHIELD	-
99	V	-
100	SB	-

8	Y	-
9	BR	-
10	R	-
11	BR	-
12	BG	-
13	L	-
14	R	-
15	P	-
16	V	-
17	SB	-
18	V	-
20	BG	-
21	L	-
22	W	-
24	BR	-
25	Y	-
26	V	-
27	G	-
28	G	-
31	L	-
32	G	-
33	B	-
34	W	-
35	R	-
36	SHIELD	-
37	V	-
38	BR	-
39	BR	-
41	W	-
42	BG	-
43	BG	-
45	W	-
49	L	-
50	P	-
51	BR	-
54	Y	-
57	G	-
59	W	-
60	L	-
61	G	-
62	SB	-
63	G	-
64	B	-
65	W	-
66	R	-
67	SHIELD	-
68	Y	-
69	GR	-
70	LG	-

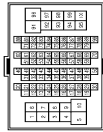
A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
WCS  
O  
P

# WARNING CHIME SYSTEM

## < DTC/CIRCUIT DIAGNOSIS >

### WARNING CHIME

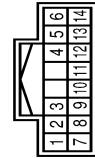
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH480MW-CS 16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
3	SB	- [With automatic drive positioner]
4	SB	- [Without automatic drive positioner]
5	G	-
6	BG	-
7	W	-
8	B	-
11	V	-
12	SB	-
13	LG	-
14	Y	-
15	G	-
16	R	-
17	GR	-
18	SB	-
19	LG	-
20	BR	-
21	SHIELD	-
22	Y	-
24	V	-
25	G	-
26	Y	-
27	B	- [With NAVI]
27	R	- [Without NAVI]
28	W	-
29	B	- [Without NAVI]
29	W	- [With NAVI]
30	SHIELD	-
31	L	-
32	P	- [Without Blind Spot Warning]
32	Y	- [With Blind Spot Warning]
33	SB	-
34	L	-
35	P	-
36	L	-
37	P	-
38	P	-

39	Y	-
40	SB	-
44	L	-
45	GR	-
46	LG	-
47	SB	-
48	BG	-
49	R	-
50	L	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	SB	-
67	V	-
68	LG	-
69	SHIELD	-
70	W	-
73	G	-
74	R	-
75	W	-
76	W	-
77	B	-
78	P	-
79	GR	-
83	BR	-
85	LG	-
86	R	-
87	Y	-
88	W	-
89	BR	-
90	BG	-
91	G	-
92	V	-
93	BR	-
94	V	-
95	G	-
96	V	-
98	W	-
99	R	-

Connector No.	M53
Connector Name	COMBINATION SWITCH
Connector Type	TH18FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	FR WASHER(-)
2	SB	OUTPUT 4
3	GR	FR WASHER(+)
4	G	IGN
5	L	OUTPUT 3
6	B	GROUND
7	V	INPUT 3
8	BG	OUTPUT 5
9	Y	INPUT 2
10	R	INPUT 4
11	LG	INPUT 1
12	P	OUTPUT 1
13	BR	OUTPUT 2
14	G	OUTPUT 2

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TH48PW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	BATTERY POWER SUPPLY
2	LG	COMMUNICATION SIGNAL (METER->AMP.)
3	GR	COMMUNICATION SIGNAL (AMP->METER)
5	B	GROUND
6	P	ALTERNATOR SIGNAL
7	BR	AIR BAG SIGNAL

10	G	SECURITY SIGNAL
15	B	GROUND
16	B	METER CONTROL SWITCH GROUND
19	B	ILL GND
20	R	IGNITION SIGNAL
21	BG	GROUND
22	B	ILL
24	BR	COMMUNICATION SIGNAL (LCD->AMP.)
25	Y	COMMUNICATION SIGNAL (AMP->LCD)
26	R	VEHICLE SPEED SIGNAL (8-PULSE)
27	V	PARKING BRAKE SWITCH SIGNAL
28	W	BRAKE FLUID LEVEL SWITCH SIGNAL
29	SB	SEA BELT LOCK SIGNAL (POWER SEAT)
30	G	SEA BELT LOCK SIGNAL (PASSENGER SEAT)
31	L	WASHER LEVEL SWITCH SIGNAL
33	B	ILLUMINATION CONTROL SWITCH SIGNAL
36	LG	SELECT SWITCH SIGNAL
37	SB	ENTER SWITCH SIGNAL
38	L	TRIP A/B RESET SWITCH SIGNAL
39	P	ILLUMINATION CONTROL SWITCH SIGNAL (-)
40	BG	ILLUMINATION CONTROL SWITCH SIGNAL (+)

Connector No.	M48
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH48PW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
5	L	MANUAL MODE SHIFT UP SIGNAL
7	GR	COMMUNICATION SIGNAL (AMP->METER)
8	L	VEHICLE SPEED SIGNAL (2-PULSE)
9	SB	SEA BELT LOCK SIGNAL (POWER SEAT)
10	W	MANUAL MODE SIGNAL
11	G	NON-MANUAL MODE SIGNAL
14	BR	COMMUNICATION SIGNAL (LCD->AMP.)
20	L	IGN ON/OFF SIGNAL
23	Y	AT SNOW SWITCH SIGNAL
25	V	MANUAL MODE SHIFT DOWN SIGNAL
27	LG	COMMUNICATION SIGNAL (METER->AMP.)
28	R	VEHICLE SPEED SIGNAL (8-PULSE)
30	V	PARKING BRAKE SWITCH SIGNAL

# WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

## WARNING CHIME

Pin	Wire	Signal Name
34	Y	COMMUNICATION SIGNAL (AMP → LCD)
38	P	BLOWER MOTOR CONTROL SIGNAL

Connector No.	Signal Name
M67	UNIFIED METER AND A/C AMP
Connector Name	Connector Type
TH432FW-NH	



41	44	45	46	47	53	54	55	56
57	58	59	60	61	62	63	65	68
69	70	71	72					

Terminal No.	Color Of Wire	Signal Name [Specification]
41	V	ACG POWER SUPPLY
42	Y	FUEL LEVEL SENSOR SIGNAL
43	R	INTAKE SENSOR SIGNAL
44	LG	IN-VEHICLE SENSOR SIGNAL
45	P	AMBIENT SENSOR SIGNAL
46	BG	SUNLOAD SENSOR SIGNAL
47	G	EXHAUST GAS / OUTSIDE COOL EFFECTING SENSOR SIGNAL
53	G	IGNITION POWER SUPPLY
54	V	BATTERY POWER SUPPLY
55	B	IGNITION SW ILL CONT
56	L	CAN-H
57	W	BRAKE FLUID LEVEL SWITCH SIGNAL
58	BR	FUEL LEVEL SENSOR GROUND
59	GR	INTAKE SENSOR GROUND
60	L	IN-VEHICLE SENSOR GROUND
61	BR	AMBIENT SENSOR GROUND
62	SB	SUNLOAD SENSOR GROUND
63	R	-
65	BG	ECV SIGNAL
69	L	A/C LAN SIGNAL
70	R	EACH DOOR MOTOR POWER SUPPLY
71	B	GROUND
72	P	CAN-L

Connector No.	Signal Name
M118	BCM (BODY CONTROL MODULE)
Connector Name	Connector Type
M03FB-LC	



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BAT (E/L)
2	W	POWER WINDOW POWER SUPPLY(BAT)
3	Y	POWER WINDOW POWER SUPPLY(BAP)

Connector No.	Signal Name
M119	BCM (BODY CONTROL MODULE)
Connector Name	Connector Type
NS1BFW-CS	



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

Terminal No.	Color Of Wire	Signal Name [Specification]
4	LG	INTERIOR ROOM LAMP POWER SUPPLY
5	L	PASSENGER DOOR UNLOCK OUTPUT
7	Y	STEP LAMP CONT
8	V	ALL DOOR FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR FUEL LID UNLOCK OUTPUT
10	BR	REAR DOOR UNLOCK OUTPUT
11	R	BAT (USE)
13	B	GROUND
14	W	PUSH-BUTTON LOCK SW ILL GND
15	V	ACG IND
17	W	TURN SIGNAL RH (FRONT)
18	BG	TURN SIGNAL LH (FRONT)
19	V	INT ROOM LAMP CONT

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



91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------

Terminal No.	Color Of Wire	Signal Name [Specification]
72	LG	ROOM ANT2 -
73	G	ROOM ANT2 +
74	SB	PASSENGER DOOR ANT-
75	GR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT1 -
79	BR	ROOM ANT1 +
80	GR	NATS ANT AMP
81	W	NATS ANT
82	R	IGN RELAY (7/B) CONT
83	Y	KEYLESS ENTRY RECEIVER COMM
87	BR	COMBI SW INPUT 5
88	P	COMBI SW INPUT 3
89	B	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL CONT
93	V	ON IND
94	Y	FUEL LAMP CONT
95	BG	ACC RELAY CONT
96	GR	A/T SHIFT SELECTOR POWER SUPPLY
99	R	SHIFT P
100	G	PASSENGER DOOR REQUEST SW
101	SB	DRIVER DOOR REQUEST SW
102	BG	BLOWER FAN MOTOR RELAY CONT
103	LG	KEYLESS ENTRY RECEIVER POWER SUPPLY
107	G	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	Y	COMBI SW INPUT 2
110	G	HAZARD SW

Connector No.	Signal Name
M123	BCM (BODY CONTROL MODULE)
Connector Name	Connector Type
TH40FC-NH	



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	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	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

# WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

## WARNING CHIME

Connector No.	M125
Connector Name	WIRE TO WIRE
Connector Type	M03FW-LC



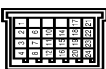
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	Y	-
3	R	-

Connector No.	M126
Connector Name	WIRE TO WIRE
Connector Type	M03MW-LC



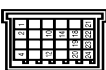
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	Y	-
3	R	-

Connector No.	M051
Connector Name	JOINT CONNECTOR-M04
Connector Type	NH24FW-J



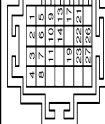
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	-
2	B	-
3	P	-
4	L	-
6	B	-
7	P	-
8	L	-
10	W	-
11	P	-
12	L	-
14	B	-
16	P	-
18	L	-
20	P	-
21	V	-
22	B	-
23	L	-
24	L	-

Connector No.	M052
Connector Name	JOINT CONNECTOR-M10
Connector Type	NH24FW-J



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	R	-
4	V	-
10	R	-
12	V	-
14	V	-
18	BR	-
19	V	-
20	V	-
21	R	-
22	R	-
23	V	-
24	V	-

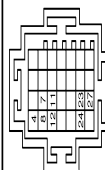
Connector No.	M053
Connector Name	JOINT CONNECTOR-M02
Connector Type	SGA28FDGY-J



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	R	-
3	V	-
4	BG	-
5	G	-
6	R	-

7	V	-
8	BG	-
9	G	-
10	R	-
11	V	-
13	W	-
14	R	-
17	W	-
19	V	-
21	W	-
22	R	-
23	V	-
25	R	-
27	G	-

Connector No.	M054
Connector Name	JOINT CONNECTOR-M15
Connector Type	SGA28FDGY-J



Terminal No.	Color Of Wire	Signal Name [Specification]
4	B	-
7	W	-
8	B	-
11	G	-
12	B	-
23	W	-
24	B	-
27	G	-

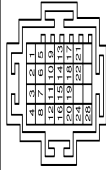


# WARNING CHIME SYSTEM

## < DTC/CIRCUIT DIAGNOSIS >

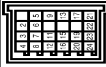
### WARNING CHIME

Connector No.	M35B
Connector Name	JOINT CONNECTOR-M14
Connector Type	SGA28FSB-J



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	- [Without BOSE system]
1	V	- [With BOSE system]
2	LG	- [Without BOSE system]
2	R	- [With BOSE system]
3	B	- [Without BOSE system]
4	B	- [With BOSE system]
5	BR	- [Without BOSE system]
5	V	- [With BOSE system]
6	LG	- [Without BOSE system]
6	R	- [With BOSE system]
7	B	- [Without BOSE system]
8	B	- [With BOSE system]
9	L	- [Without BOSE system]
10	W	- [With BOSE system]
11	B	- [Without BOSE system]
12	Y	- [With BOSE system]
13	L	- [Without BOSE system]
14	W	- [With BOSE system]
15	BR	- [Without BOSE system]
16	Y	- [With BOSE system]
17	L	- [Without BOSE system]
18	W	- [With BOSE system]
19	BR	- [Without BOSE system]
20	BR	- [With BOSE system]
21	L	- [Without BOSE system]
22	W	- [With BOSE system]
24	BR	- [Without BOSE system]
24	BR	- [With BOSE system]

Connector No.	M36D
Connector Name	JOINT CONNECTOR-M05
Connector Type	NH24FW-J



Terminal No.	Color Of Wire	Signal Name [Specification]
2	GR	- [Without BOSE system]
3	P	- [With BOSE system]
4	L	- [Without BOSE system]
5	R	- [With BOSE system]
6	GR	- [Without BOSE system]
7	P	- [With BOSE system]
8	L	- [Without BOSE system]
9	BR	- [With BOSE system]
11	P	- [Without BOSE system]
12	L	- [With BOSE system]
13	BR	- [Without BOSE system]
15	P	- [With BOSE system]
16	L	- [Without BOSE system]
17	V	- [With BOSE system]
18	P	- [Without BOSE system]
20	L	- [With BOSE system]
21	V	- [Without BOSE system]
22	G	- [With BOSE system]
23	P	- [Without BOSE system]
24	L	- [With BOSE system]

# COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

## ECU DIAGNOSIS INFORMATION

### COMBINATION METER

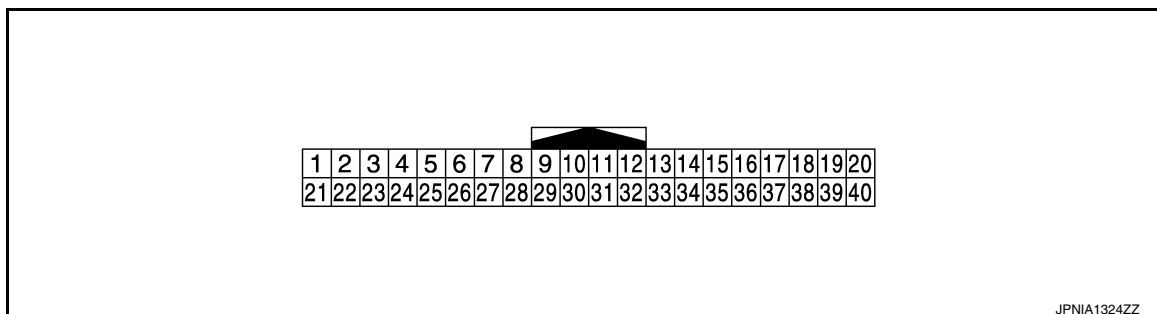
#### Reference Value

INFOID:0000000012762366

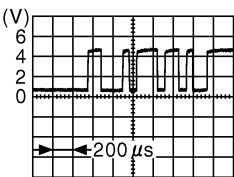
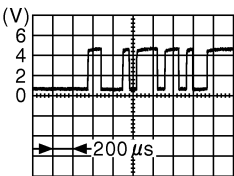
#### VALUES ON THE DIAGNOSIS TOOL

Refer to [WCS-52. "Reference Value"](#).

#### TERMINAL LAYOUT

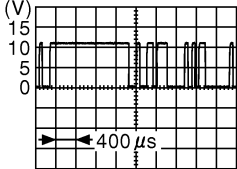
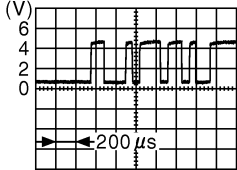
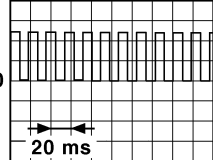
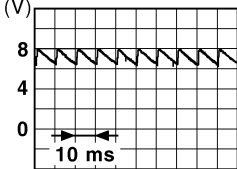


#### PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	—	Signal name	Input/ Output			
1 (GR)	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 (P)	Ground	Alternator signal	Input	Ignition switch ON	Charge warning lamp ON	0 V
					Charge warning lamp OFF	Battery voltage
7 (BR)	Ground	Air bag signal	Input	Ignition switch ON	Air bag warning lamp ON	4 V
					Air bag warning lamp OFF	0 V
10 (G)	Ground	Security signal	Input	Ignition switch OFF	Security warning lamp ON	0 V
					Security warning lamp OFF	12 V

# COMBINATION METER

## < ECU DIAGNOSIS INFORMATION >

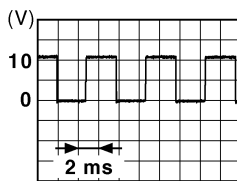
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
15 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
16 (B)	Ground	Meter control switch ground	—	Ignition switch ON	—	0 V
21 (BG)	Ground	Ignition signal	Input	Ignition switch ON	—	Battery voltage
22 (B)	Ground	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 ap- prox. 40 km/h (25 MPH)]	<b>NOTE:</b> The maximum voltage varies de- pending on the specification (destination unit).  JSNIA0012GB
27 (V)	Ground	Parking brake switch signal	Input	Ignition switch ON	Parking brake is applied	0 V
					Parking brake is released	 JSNIA0007GB
28 (W)	Ground	Brake fluid level switch sig- nal	Input	Ignition switch ON	Brake fluid level is normal.	5 V
					The brake fluid level is low- er than the low level	0 V

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

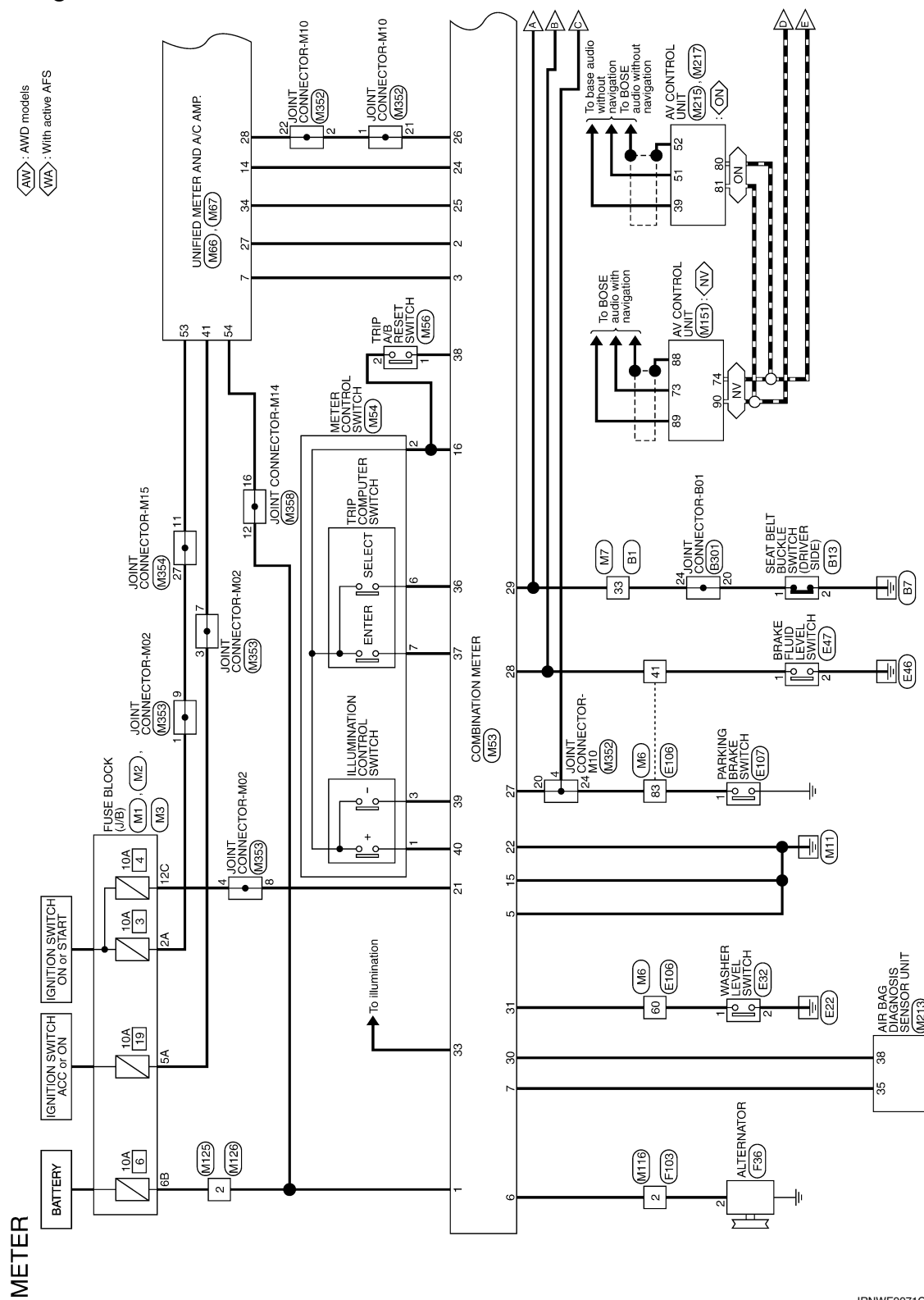
WCS

# COMBINATION METER

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
29 (SB)	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	0 V
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>	0 V
31 (L)	Ground	Washer level switch signal	Input	Ignition switch ON	Washer level switch ON	0 V
					Washer level switch OFF	5 V
33 (B)	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 
36 (LG)	16 (B)	Select switch signal	Input	Ignition switch ON	When ● is pressed	0 V
					Other than the above	5 V
37 (SB)	16 (B)	Enter switch signal	Input	Ignition switch ON	When □ is pressed	0 V
					Other than the above	5 V
38 (L)	16 (B)	Trip A/B reset switch signal	Input	Ignition switch ON	When trip A/B reset switch is pressed	0 V
					Other than the above	5 V
39 (P)	16 (B)	Illumination control switch signal (–)	Input	Ignition switch ON	When ⚙️– switch is pressed	0 V
					Other than the above	5 V
40 (BG)	16 (B)	Illumination control switch signal (+)	Input	Ignition switch ON	When ⚙️+ switch is pressed	0 V
					Other than the above	5 V

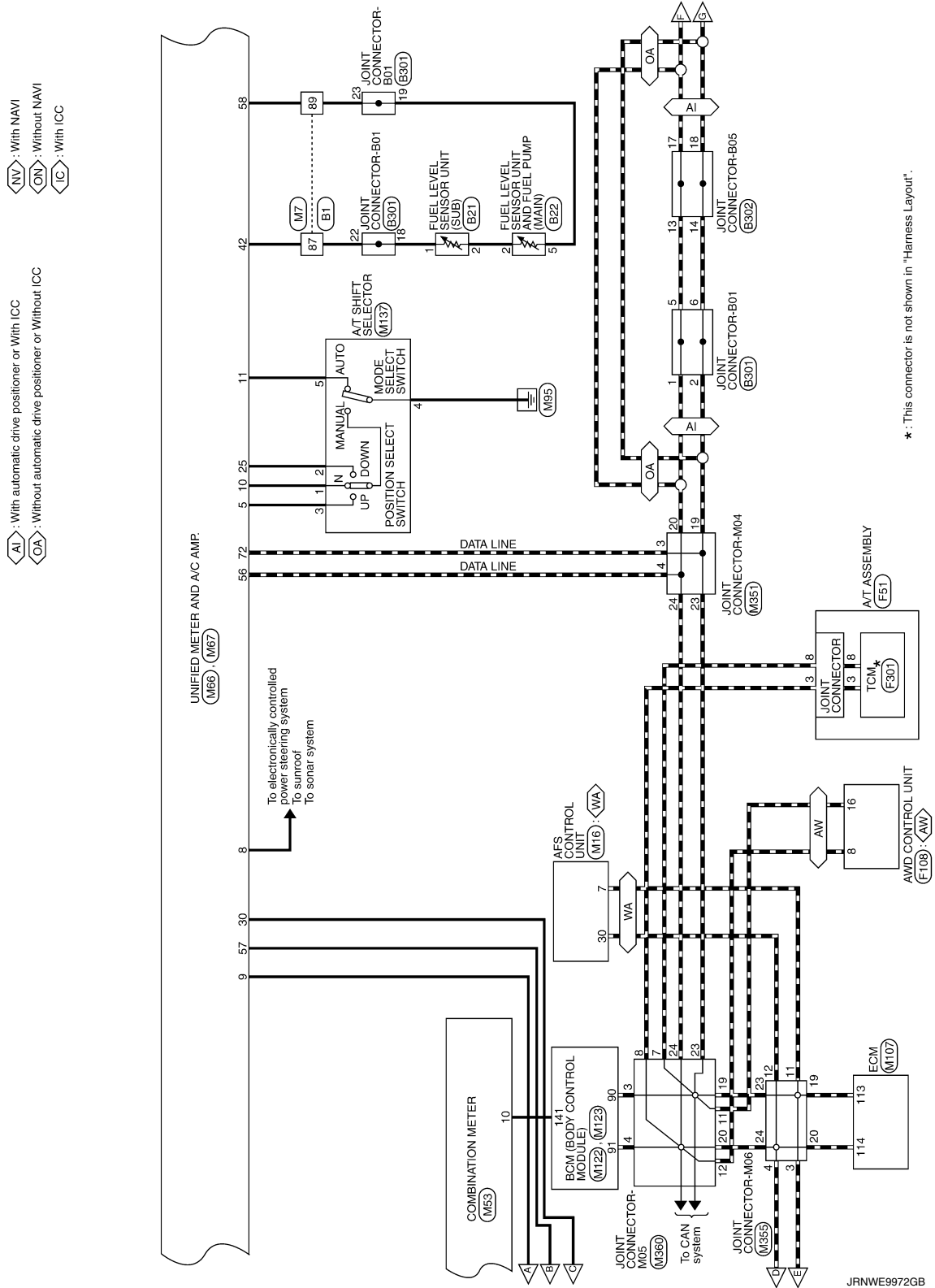
JSNIA0010GB



JRNWE9971GB

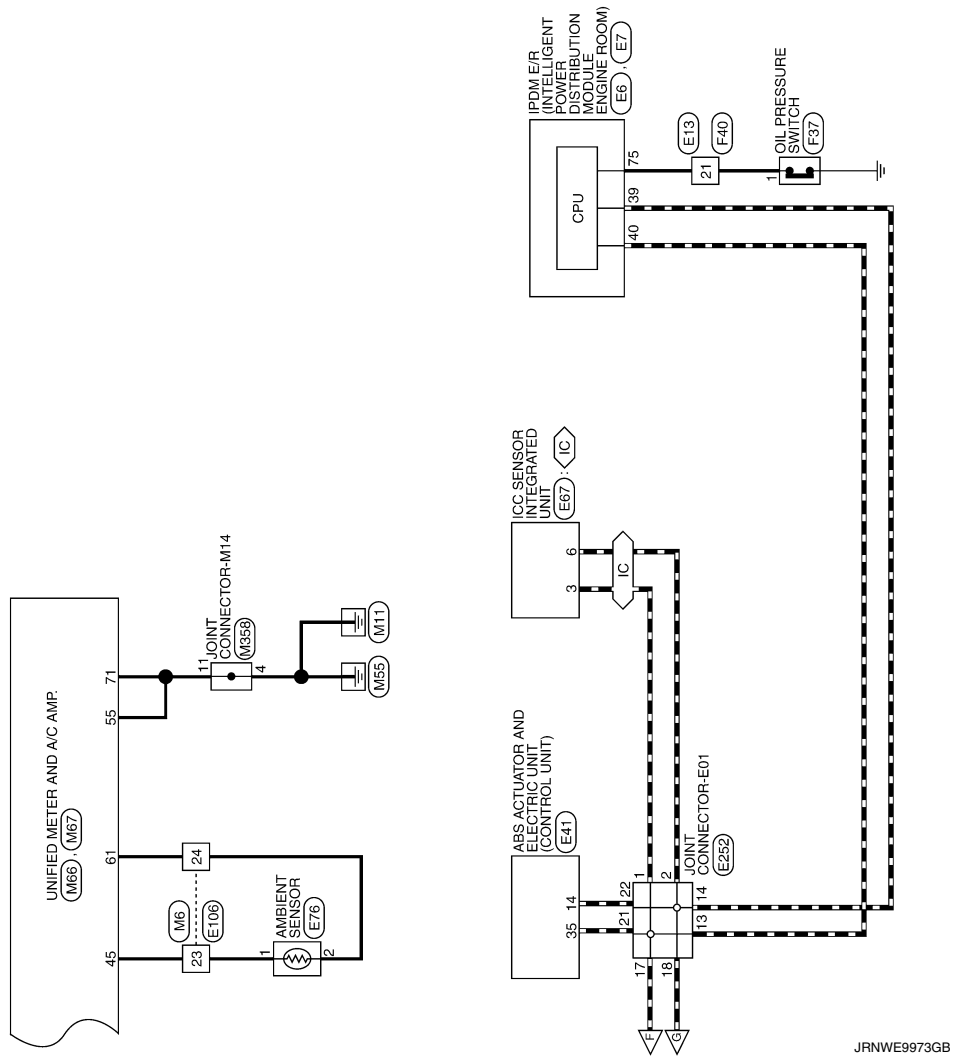
# COMBINATION METER

< ECU DIAGNOSIS INFORMATION >



# COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

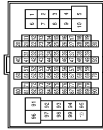


# COMBINATION METER

## < ECU DIAGNOSIS INFORMATION >

### METER

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH480FW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	-
5	G	-
6	SB	-
7	V	-
8	L	-
11	V	-
12	SB	-
13	LG	-
14	GR	-
15	LG	-
16	R	-
17	W	-
18	G	-
19	LG	-
20	BR	-
21	SHIELD	-
22	Y	-
24	P	-
25	G	-
26	Y	-
27	B	- [With NAV]
27	BR	- [Without NAV]
28	R	- [With NAV]
28	W	- [Without NAV]
29	L	- [With NAV]
29	Y	- [Without NAV]
30	SHIELD	- [With NAV]
31	L	- [With around view monitor]
31	SHIELD	- [Without around view monitor]
32	P	- [With NAV] [Without Blind Spot Warning]
32	W	- [Without NAV] [Without Blind Spot Warning]
32	Y	- [With NAV] [Without Blind Spot Warning]
33	SB	-
34	L	-
35	P	-

36	L	-
37	P	-
38	P	-
39	Y	-
40	SB	-
44	Y	-
45	GR	-
46	LG	-
47	SB	-
48	BG	-
49	R	-
50	L	-
60	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	W	-
67	V	-
68	SB	-
69	SHIELD	-
70	W	-
73	SB	-
74	L	-
75	W	-
76	GR	-
77	R	-
78	P	-
79	GR	-
83	BG	-
85	V	-
86	LG	-
87	Y	-
88	R	-
89	B	-
90	BG	-
91	G	-
92	BR	-
93	G	-
94	SB	-
95	G	-
96	Y	-
98	W	-
99	GR	-

Connector No.	B13
Connector Name	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
Connector Type	TH48FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	B	-

Connector No.	B21
Connector Name	FUEL LEVEL SENSOR UNIT (SUB)
Connector Type	E02FGY-RS



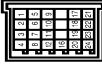
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	W	-

Connector No.	B22
Connector Name	FUEL LEVEL SENSOR UNIT AND FUEL PUMP MARE
Connector Type	E05FGY-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	W	-
3	B	-
4	R	-
5	B	-

Connector No.	B301
Connector Name	JOINT CONNECTOR-B01
Connector Type	MH24FE-J



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	P	-
3	SB	-
4	LG	-
5	L	-
6	R	-
7	SB	-
8	LG	-
9	L	-
10	P	-
11	SB	-
12	LG	-
16	SB	-
17	R	-

JRNWE9974GB



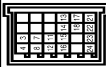
# COMBINATION METER

## < ECU DIAGNOSIS INFORMATION >

### METER

18	Y	-
19	B	-
20	SB	-
21	R	-
22	Y	-
23	B	-
24	SB	-

Connector No.	B302
Connector Name	JOINT CONNECTOR-B05
Connector Type	W424F57-J



Terminal No.	Color Of Wire	Signal Name [Specification]
3	Y	-
4	L	-
7	Y	-
8	L	-
12	Y	-
13	L	-
14	P	-
15	Y	-
16	L	-
17	L	-
18	P	-
21	L	-
22	P	-
23	Y	-
24	L	-

Connector No.	E6
Connector Name	IPDM 4R INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	T1406FW-N4



Terminal No.	Color Of Wire	Signal Name [Specification]
38	P	-
40	L	-
41	B/W	-
43	SB	-
44	BR	-
45	G	-
46	R	-

Connector No.	E7
Connector Name	IPDM 4R INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	T1420FW-CS12-M4



Terminal No.	Color Of Wire	Signal Name [Specification]
48	L	-
49	BG	-
51	Y	-
53	W	-
55	SB	-
56	LG	-
57	G	-
58	V	-
69	BR	-
70	BG	-
74	P	-
75	SB	-

76	Y	-
77	R	-
80	W	-

Connector No.	E13
Connector Name	WIRE TO WIRE
Connector Type	ISAA38MB-R58-SH28



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L/Y	-
2	SHIELD	-
3	L/B	-
4	SHIELD	-
5	BR	-
7	G	-
8	W	-
9	W	-
10	Y	-
11	P	-
12	SB	-
13	L	-
14	G	-
15	R	-
16	LG	-
18	Y	-
19	BG	-
20	B	-
21	SB	-
22	W	-
23	L	-
24	G	-
25	LG	-
27	GR	-
28	V	-
29	P	-
30	R	-
31	BR	-
32	Y	-
33	G	-
34	BG	-

37	SHIELD	-
38	L	-
39	P	-
40	R	-
41	W	-
42	LG	-
43	G	-
45	BG	-
46	SHIELD	-
47	W	-
48	BR	-
49	G	-
50	B	-
51	SB	-
52	R	-

Connector No.	E32
Connector Name	WASHER LEVEL SWITCH
Connector Type	Z02FBR



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

Connector No.	E41
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	BAA427B-AH24-LH



JRNWE9975GB

# COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

## METER

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	G	UBMR
3	R	UBVR
4	B	GROUND
5	Y	DS FL
6	BG	DP RL
7	BR	DP RR
8	B	DP FR
9	W	DS FR
10	W	DS FL
11	L	VAC
12	P	GROUND
13	SHIELD	GROUND
14	P	UBMR
15	Y	BUS-L
16	LG	DS FL
17	GR	DS RL
18	G	UZ
19	LG	DS RR
20	SB	BLS
21	R	VDC OFF SW
22	L	CAN-H
23	B	BUS-H

Connector No.	E47
Connector Name	BRAKE FLUID LEVEL SWITCH
Connector Type	YU02FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	—
2	B	—

Connector No.	E67
Connector Name	ICC SENSOR INTEGRATED UNIT
Connector Type	RS02FFB-PR



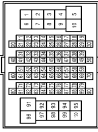
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	IGNITION
2	L	ITS COMM-H
3	B	CAN-H
4	B	GROUND
5	P	ITS COMM-L
6	P	CAN-L

Connector No.	E76
Connector Name	AMBIENT SENSOR
Connector Type	RS02FFB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	—
2	P	—

Connector No.	E108
Connector Name	WIRE TO WIRE
Connector Type	TH89FW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	—
2	W	—
3	B	—
4	GR	—
5	GR	—
6	G	—
7	L	—
8	Y	—
9	BR	—
10	BG	—
11	SB	—
12	BG	—
13	S	—
14	B	—
15	P	—
16	V	—
17	SB	—
18	V	—
19	B	—
20	BG	—
21	L	—
22	V	—
23	G	—
24	P	—
25	Y	—
26	V	—
27	W	—
28	G	—
29	BG	—
30	L	—
31	W	—
32	B	—
33	R	—
34	R	—
35	G	—
36	SHIELD	—
37	V	—
38	BR	—
39	BG	—

41	W	—
42	G	—
43	BR	—
44	W	—
45	L	—
46	P	—
47	L	—
48	BG	—
49	BR	—
50	W	—
51	LG	—
52	G	—
53	W	—
54	B	—
55	G	—
56	R	—
57	SHIELD	—
58	Y	—
59	W	—
60	R	—
61	Y	—
62	B	—
63	Y	—
64	W	—
65	LG	—
66	Y	—
67	B	—
68	L	—
69	G	—
70	W	—
71	R	—
72	Y	—
73	B	—
74	L	—
75	G	—
76	W	—
77	Y	—
78	P	—
79	R	—
80	BR	—
81	L	—
82	Y	—
83	SB	—
84	BG	—
85	L	—
86	P	—
87	V	—
88	GR	—
89	SHIELD	—
90	W	—
91	Y	—
92	V	—
93	BR	—
94	LG	—

JRNWE9976GB

# COMBINATION METER

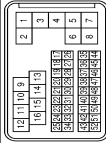
< ECU DIAGNOSIS INFORMATION >

## METER

Connector No.	F36
Connector Name	ALTERNATOR
Connector Type	HS03FB



Connector No.	F40
Connector Name	WIRE TO WIRE
Connector Type	SAA38FB-RS8-SH28



42	GR	-
43	R	-
45	O	-
46	SHIELD	-
47	W/L	-
48	LG	-
49	O/L	-
50	L/Y	-
51	W	-
52	L/G	-

Connector No.	E107
Connector Name	PARKING BRAKE SWITCH
Connector Type	TB01FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	L
2	V	S
3	P	G

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L/V	-
2	SHIELD	-
3	L/B	-
4	SHIELD	-
5	BR	-
7	G	-
8	W	-
9	W	-
10	G	-
11	R	-
12	P	-
13	L	-
14	LG	-
15	BR	-
16	Y	-
18	LG	-
19	P	-
20	O	-
21	Y	-
22	G	-
23	Y	-
24	LG	-
25	V	-
27	GR	-
28	BR	-
29	L	-
30	R	-
32	W	-
33	SB	-
34	O	-
37	SHIELD	-
38	W	-
39	Y	-
40	G	-
41	B	-

Connector No.	F37
Connector Name	OIL PRESSURE SWITCH
Connector Type	ED1EGY-RS-AR

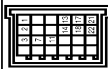


Terminal No.	Color Of Wire	Signal Name [Specification]
1	BQ	-

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK1UFG-DGY



Connector No.	E252
Connector Name	JOINT CONNECTOR-E01
Connector Type	NI424FW-J



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	IGNITION POWER SUPPLY
2	BR	BATTERY POWER SUPPLY
3	O	CAN-L
4	V	K-LINE
5	B	GROUND
6	Y	IGNITION POWER SUPPLY
7	R	BACK-UP LAMP RELAY
8	LG	CAN-L
9	GR	STARTER RELAY
10	B	GROUND

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	GR	-
7	GR	-
11	GR	-
13	L	-
14	P	-
17	L	-
18	P	-
21	L	-
22	P	-

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

# COMBINATION METER

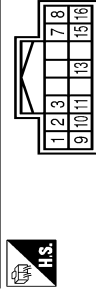
## < ECU DIAGNOSIS INFORMATION >

### METER

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TTQ3FW-NS10

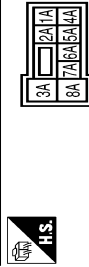


Connector No.	F108
Connector Name	AMD CONTROL UNIT
Connector Type	TH1EFW-NH



10	-	GROUND
----	---	--------

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-M2



Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
2	G	-
3	W	-
4	R	-
5	B	-
9	Y	-
10	GR	-
19	O	- [Without LCC]
20	Y	- [With LCC]
28	B	-
29	LG	-
31	LG	-
32	R	-
34	B	-
35	L	-
36	P	-
37	Y	-
38	G	-
43	LG	-
44	O	-
45	Y	-
46	V	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	AMD SOL (+)
2	Y	AMD SOL (-)
3	W	FLUID TEMP (-)
7	G	IGN
8	L	CAN-H
9	O	AMD SOL BATT
10	B	GROUND
11	GR	GROUND
13	LG	FLUID TEMP (+)
15	Y	BATTERY
16	P	CAN-L

Terminal No.	Color Of Wire	Signal Name [Specification]
10C	R	-
11C	R	-
12C	EG	-
6C	R	-
7C	B	-
8C	G	-
9C	EG	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH60MH-CS16-TM4



Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



Connector No.	F301
Connector Name	TCM
Connector Type	SP10FG



Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	IGNITION POWER SUPPLY
2	-	BATTERY POWER SUPPLY
3	-	CAN-H
4	-	K-LINE
5	-	GROUND
6	-	IGNITION POWER SUPPLY
7	-	BACK-UP LAMP RELAY
8	-	CAN-L
9	-	STARTER RELAY

Terminal No.	Color Of Wire	Signal Name [Specification]
3B	EG	-
4B	G	-
5B	BG	-
6B	Y	-
7B	P	-
8B	R	-
9B	SB	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	- [With NAVI]
1	Y	- [Without NAVI]
2	B	- [Without NAVI]
2	B	- [With NAVI]
3	G	- [Without NAVI]
4	SHIELD	-
5	G	-
6	R	-
7	W	-
8	Y	-
9	BR	-
10	R	-

# COMBINATION METER

## < ECU DIAGNOSIS INFORMATION >

### METER

11	BR	-
12	BG	-
13	L	-
14	R	-
15	P	-
16	V	-
17	SB	-
18	V	-
20	BG	-
21	L	-
22	W	-
23	P	-
24	BR	-
25	V	-
26	V	-
27	G	-
28	G	-
31	L	-
32	G	-
33	B	-
34	W	-
35	R	-
36	SHIELD	-
37	V	-
38	BG	-
39	BR	-
41	W	-
42	BG	-
43	BG	-
44	W	-
49	L	-
50	P	-
51	BR	-
54	Y	-
57	G	-
59	W	-
60	L	-
61	G	-
62	SB	-
63	G	-
64	B	-
65	R	-
66	R	-
67	SHIELD	-
68	Y	-
69	GR	-
70	LG	-
71	LG	-
72	Y	-
73	SB	-

74	BR	- [With ICC]
74	L	- [Without ICC]
75	G	-
76	GR	- [With ICC]
76	W	- [Without ICC]
77	P	- [With ICC]
77	R	- [Without ICC]
78	L	- [With ICC]
78	R	- [Without ICC]
79	W	- [With ICC]
79	Y	- [Without ICC]
80	SB	-
81	SB	-
82	SB	-
83	V	-
84	G	-
85	L	-
86	P	-
87	W	-
89	GR	-
90	SHIELD	-
91	W	-
92	Y	-
93	BR	-
94	P	-
95	GR	-
96	W	-
97	W	-
98	SHIELD	-
99	V	-
100	SB	-



Connector No. M7  
Connector Name WIRE TO WIPE  
Connector Type TH80MM-CS10-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
3	SB	- [With automatic drive positioner]
3	W	- [Without automatic drive positioner]
5	G	-

6	BG	-
7	W	-
8	B	-
11	V	-
12	SB	-
13	LG	-
14	Y	-
15	G	-
16	R	-
17	W	-
18	SB	-
19	LG	-
20	BR	-
21	SHIELD	-
22	V	-
24	V	-
25	G	-
26	Y	-
27	B	- [With NAVI]
27	R	- [Without NAVI]
28	W	-
29	B	-
29	R	- [With NAVI]
30	SHIELD	-
31	L	-
32	P	-
32	Y	-
33	SB	-
34	B	-
35	P	-
36	L	-
37	P	-
38	P	-
39	Y	-
40	SB	-
44	L	-
45	GR	-
46	LG	-
47	SB	-
48	BG	-
49	R	-
50	L	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	SB	-
67	V	-



Connector No. M1E  
Connector Name AFS CONTROL UNIT  
Connector Type TH40FY-NH



68	LG	-
69	SHIELD	-
70	W	-
73	G	-
74	R	-
75	W	-
77	B	-
78	P	-
79	GR	-
83	BG	-
85	LG	-
86	R	-
87	V	-
88	W	-
89	BR	-
90	BG	-
91	G	-
92	V	-
93	BR	-
94	V	-
95	G	-
96	Y	-
98	W	-
99	R	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	IGN
2	LG	PS2-R
4	V	PSV-R
6	W	HSV-R
7	P	CAA-L
8	B	HSG-R
9	GR	PS-R
11	R	SMR-1 (C)
13	B	SMR-2 (C)

# COMBINATION METER

## < ECU DIAGNOSIS INFORMATION >

### METER

15	G	SMF-1 (+)
17	W	SMF-2 (+)
19	SB	AMDS-R
24	V	PSV-L
25	B	GROUND
27	BR	PSG-L
28	EG	HS-R
29	BG	PS-L
30	L	CAN-H
32	G	SMF-2 (+)
34	W	SMF-1 (+)
36	R	SMF-2 (-)
38	B	SMF-1 (-)
40	L	AMDS-L

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH



1	2	3		5	6	7		10				15	16			19	20
21	22		24	25	26	27	28	29	30	31	33		36	37	38	39	40

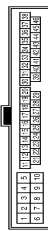
# COMBINATION METER

## < ECU DIAGNOSIS INFORMATION >

### METER

110	G	PMP SIGNAL
111	R	ENGINE SPEED OUTPUT SIGNAL
112	R	SENSOR GROUND
113	P	CAN COMMUNICATION LINE
114	L	CAN COMMUNICATION LINE
117	V	DATA LINK CONNECTOR
121	LG	EVAP CANISTER VENT CONTROL VALVE
122	P	STOP LAMP SWITCH
123	B	ECM GROUND
124	B	ECM GROUND
125	R	POWER SUPPLY FOR ECM
126	BR	ASD/IGC BRAKE SWITCH
127	B	ECM GROUND
128	B	ECM GROUND

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TKC6MMH-NS10



Terminal No.	Color Of Wire	Signal Name [Specification]
2	P	-
3	L	-
4	R	-
5	B	-
9	R	-
10	R	-
19	BG	-
20	Y	-
28	B	-
29	LG	-
31	W	-
32	W	-
34	B	-
35	L	-
36	P	-
37	Y	-
38	G	-
43	P	-
44	L	-
45	BR	-

46	BG	-
----	----	---

Connector No.	M122
Connector Name	SOM (BODY CONTROL MODULE)
Connector Type	TH40FEB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
72	R	ROOM ANT2 -
73	G	ROOM ANT2 +
74	SB	PASSENGER DOOR ANT-
75	GR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT1-
79	BR	ROOM ANT1+
80	GR	NATS ANT AMP
81	W	NATS ANT AMP
82	R	IGN RELAY REQUEST
83	X	KEYLESS ENTRY RECEIVER COMM
87	BR	COMBI SW INPUT 5
88	V	CAN-L
90	P	CAN-H
91	L	CAN-H
92	LG	KEY SLOT ILL CONT
93	V	ON IND
94	Y	PUDDLE LAMP CONT
95	BG	ACC RELAY CONT
96	GR	A/T SHIFT SELECTOR POWER SUPPLY
99	R	SHIFT P
100	G	PASSENGER DOOR REQUEST SW
101	SB	DRIVER DOOR REQUEST SW
102	GR	BLUETOOTH REQUEST SW
103	LG	KEYLESS ENTRY RECEIVER POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 2
109	Y	COMBI SW INPUT 3
110	G	HAZARD SW

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FEC-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
112	SB	OPTICAL SENSOR
116	SB	STOP LAMP SW 1
118	P	STOP LAMP SW 2
119	SB	DR DOOR UNLOCK SENSOR
121	BR	KEY SLOT SW
123	W	IGN F/B
124	LG	PASSENGER DOOR SW
132	BR	POWER WINDOW SW COMM
133	W	PUSH-BUTTON IGNITION SW ILL POWER
134	GR	LOCK IND
137	BG	RECEIVER SENSOR GND
138	Y	RECEIVER SENSOR POWER SUPPLY
139	L	TIRE PRESSURE RECEIVER COMM
140	GR	SECURITY ILL LAMP CONT
141	G	COMBI SW OUTPUT 5
142	BG	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
150	LG	DRIVER DOOR SW
151	G	REAR WINDOW DEFOGGER RELAY CONT

Connector No.	M125
Connector Name	WIRE TO WIRE
Connector Type	M03FW-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	Y	-
3	R	-

Connector No.	M126
Connector Name	WIRE TO WIRE
Connector Type	M03MMF-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	Y	-
3	R	-

# COMBINATION METER

## < ECU DIAGNOSIS INFORMATION >

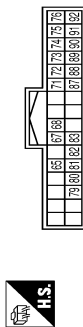
### METER

Connector No.	M137
Connector Name	A/T SHIFT SELECTOR
Connector Type	TH12FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	V	-
3	L	-
4	B	-
5	G	-
7	R	-
8	SB	-
9	B	-
10	GR	-
11	R	-

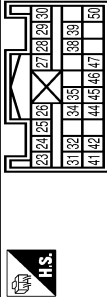
Connector No.	M131
Connector Name	AV CONTROL UNIT
Connector Type	TH12FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
67	G	PARKING BRAKE SIGNAL
68	R	COMPOSITE IMAGE SIGNAL GND
71	SHIELD	COMPOSITE IMAGE SIGNAL
72	R	SHIELD
73	R	MICROPHONE VCC
74	P	CAMERA POWER SUPPLY
75	LG	CAN-L
76	LG	AV COMM (L)
79	R	ILLUMINATION

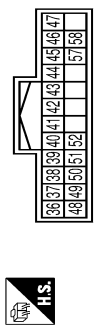
80	G	IGNITION SIGNAL
81	BG	REVERSE SIGNAL
82	R	VEHICLE SPEED SIGNAL (8-PULSE)
83	SHIELD	SHIELD
87	G	MICROPHONE SIGNAL
88	SHIELD	SHIELD
89	G	COM (DISP->CONT)
90	L	CAN-H
91	SB	AV COMM (H)
92	SB	AV COMM (H)

Connector No.	M213
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH28FY-EX



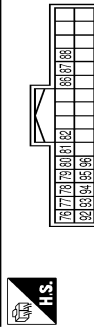
Terminal No.	Color Of Wire	Signal Name [Specification]
23	Y	AS2(A)
24	Y	AS2(A)
25	Y	AS1(-)
26	Y	AS1(+)
27	B	GND
28	Y	DR2(+)
29	Y	DR1(-)DR2(-)
30	Y	DR1(+)
31	V	EC2S(-)
32	BR	DOOR SATELLITE RH2(-)
34	G	DOOR SATELLITE LH2(-)
35	BR	A/B OFF IND
38	G	SEATBELT W/L
39	SHIELD	GND
40	SB	EC2(A)
42	Y	DOOR SATELLITE RH2(+)
44	R	DOOR SATELLITE LH2(+)
45	P	CAN-L
46	L	CAN-H
47	R	A/B CUTOFF TELLTALE
50	R	IGN

Connector No.	M215
Connector Name	AV CONTROL UNIT
Connector Type	TH24FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
36	BG	SIGNAL VCC
37	LG	SIGNAL GND
38	R	HP
39	BR	COMM (DISP->CONT)
40	B	RGB AREA (VS) SIGNAL
41	SHIELD	SHIELD
42	W	RGB SYNCHRONIZING SIGNAL
43	G	RGB SIGNAL (R-RED)
44	L	RGB SIGNAL (G-GREEN)
45	P	RGB SIGNAL (B-BLUE)
46	V	COMPOSITE IMAGE SIGNAL GND
47	SB	COMPOSITE IMAGE SIGNAL
48	BR	INVERTER VCC
49	BR	INVERTER GND
50	G	VP
51	Y	COMM (CONT->DISP)
52	SHIELD	SHIELD
57	SHIELD	SHIELD
58	SHIELD	SHIELD

Connector No.	M217
Connector Name	AV CONTROL UNIT
Connector Type	TH25FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
76	LG	AV COMM (L)
77	SB	AV COMM (H)
78	LG	AV COMM (L)
79	SB	AV COMM (H)
80	P	CAN-L
81	L	CAN-H
82	B	SW GND
86	SHIELD	SHIELD
87	L	TEL VOICE SIGNAL (+)
88	P	TEL VOICE SIGNAL (-) (PULSE)
89	V	REVERSE SIGNAL
92	V	PARKING BRAKE SIGNAL
94	BG	REVERSE SIGNAL
95	G	IGNITION SIGNAL
96	Y	DISK EJECT SIGNAL

Connector No.	M331
Connector Name	JOINT CONNECTOR-M04
Connector Type	NH24FW-J



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	-
2	B	-
3	P	-
4	L	-
6	B	-
7	P	-
8	L	-
10	W	-
11	P	-
12	L	-
14	B	-
15	P	-
16	L	-
17	V	-
18	B	-
19	P	-
20	L	-



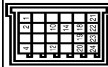
# COMBINATION METER

## < ECU DIAGNOSIS INFORMATION >

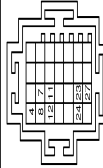
### METER

Terminal No.	Color Of Wire	Signal Name [Specification]
21	V	-
22	B	-
23	P	-
24	L	-

Connector No.	M352
Connector Name	JOINT CONNECTOR-M10
Connector Type	NH24FW-J

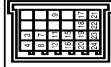


Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	R	-
4	V	-
10	R	-
12	V	-
14	V	-
16	BR	-
18	V	-
20	V	-
21	R	-
22	R	-
23	V	-
24	V	-



Connector No.	M354
Connector Name	JOINT CONNECTOR-M15
Connector Type	SCA28FDGY-J

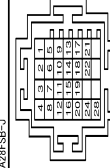
Connector No.	M355
Connector Name	JOINT CONNECTOR-M06
Connector Type	NH24FW-J



Terminal No.	Color Of Wire	Signal Name [Specification]
2	R	-
4	P	-
8	L	-
9	P	-
11	P	-
12	L	-
15	P	-
16	L	-
17	P	-
18	V	-
19	P	-
20	L	-
22	V	-
23	P	-
24	L	-



Connector No.	M358
Connector Name	JOINT CONNECTOR-M14
Connector Type	SCA28FSB-J

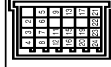


Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
1	V	-
2	LG	-

2	R	-	[Without BOSE system]
3	B	-	-
4	B	-	-
5	BR	-	-
5	V	-	-
6	LG	-	-
6	R	-	-
7	B	-	-
8	B	-	-
9	L	-	-
10	W	-	-
11	B	-	-
12	Y	-	-
13	L	-	-
14	W	-	-
15	BR	-	-
16	Y	-	-
17	L	-	-
18	W	-	-
19	BR	-	-
20	BR	-	-
21	L	-	-
22	W	-	-
24	BR	-	-
28	BR	-	-



Connector No.	M380
Connector Name	JOINT CONNECTOR-M05
Connector Type	NH24FW-J



Terminal No.	Color Of Wire	Signal Name [Specification]
2	GR	-
3	GR	-
4	L	-
5	R	-
6	GR	-
7	P	-
8	L	-
9	BR	-
11	P	-

JRNWE9983GB

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

< ECU DIAGNOSIS INFORMATION >

JRNWE9984GB

INFOID:0000000012762368

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

# COMBINATION METER

## < ECU DIAGNOSIS INFORMATION >

Function		Specifications	
Speedometer		Reset to zero by suspending communication.	A
Tachometer			B
Fuel gauge			
Water temperature gauge			
Illumination control		When suspending communication, change to nighttime mode.	
Information display		The display turns off by suspending communication.	
Buzzer		The buzzer turns off by suspending communication.	
Warning lamp/indicator lamp	ABS warning lamp	The lamp turns on by suspending communication.	D
	VDC warning lamp		
	Brake warning lamp		E
	CRUISE warning lamp		
	IBA OFF indicator lamp		
	Malfunction indicator lamp		F
	High beam indicator	The lamp turns off by suspending communication.	
	Turn signal indicator lamp		G
	Tail lamp indicator lamp		
	Oil pressure warning lamp		H
	A/T CHECK warning lamp		
	AWD warning lamp		
	Low tire pressure warning lamp		I
	Key warning lamp		
	VDC OFF indicator lamp		J
	BSW warning lamp		
	AFS OFF indicator lamp		
	Lane departure warning lamp		K
	LDP ON indicator lamp		
	Master warning lamp		

## DTC Index

INFOID:0000000012762369

Refer to [WCS-73, "DTC Index"](#).

WCS

# UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

## UNIFIED METER AND A/C AMP.

### Reference Value

INFOID:0000000012762370

### 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] or [mph]	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] or [mph]	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 [L]	Ignition switch ON	—	Values according to fuel level
W TEMP METER [°C] or [°F]	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
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 light indicator lamp ON	On
		Front fog light indicator lamp OFF	Off
RR FOG IND	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	
LIGHT IND	Ignition switch ON	Tail lamp indicator lamp ON	On	A
		Tail lamp indicator lamp OFF	Off	
OIL W/L	Ignition switch ON	Oil pressure warning lamp ON	On	B
		Oil pressure warning lamp OFF	Off	
MIL	Ignition switch ON	Malfunction warning lamp ON	On	C
		Malfunction warning lamp OFF	Off	
GLOW IND	Ignition switch ON	<b>NOTE:</b> This item is displayed, but cannot be monitored.	Off	D
C-ENG2 W/L	Ignition switch ON	<b>NOTE:</b> This item is displayed, but cannot be monitored.	Off	E
CRUISE IND	Ignition switch ON	CRUISE indicator displayed	On	F
		CRUISE indicator not displayed	Off	
SET IND	Ignition switch ON	SET indicator lamp ON	On	G
		SET indicator lamp OFF	Off	
CRUISE W/L	Ignition switch ON	CRUISE warning lamp ON	On	H
		CRUISE warning lamp OFF	Off	
BA W/L	Ignition switch ON	IBA OFF indicator lamp ON	On	I
		IBA OFF indicator lamp ON	Off	
ATC/T-AMT W/L	Ignition switch ON	A/T check warning lamp ON	On	J
		A/T check warning lamp OFF	Off	
4WD W/L	Ignition switch ON	AWD warning lamp ON	On	K
		AWD warning lamp OFF	Off	
4WD LOCK IND	Ignition switch ON	<b>NOTE:</b> This item is displayed, but cannot be monitored.	Off	L
FUEL W/L	Ignition switch ON	Low-fuel warning lamp displayed	On	M
		Low-fuel warning lamp not displayed	Off	
WASHER W/L	Ignition switch ON	Washer warning displayed	On	O
		Washer warning not displayed	Off	
AIR PRES W/L	Ignition switch ON	Low tire pressure warning lamp ON	On	P
		Low tire pressure warning lamp OFF	Off	
KEY G/Y W/L	Ignition switch ON	Key warning lamp ON	On	WCS
		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	
LANE W/L	Ignition switch ON	Lane departure warning lamp ON	On	
		Lane departure warning lamp OFF	Off	
LDP IND	Ignition switch ON	LDP ON indicator lamp ON	On	
		LDP ON indicator lamp OFF	Off	

# UNIFIED METER AND A/C AMP.

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition		Value/Status
DCA IND	Ignition switch ON	DCA switch indicator displayed	On
		DCA switch indicator not displayed	Off
BSW W/L	Ignition switch ON	BSW warning lamp ON	On
		BSW warning lamp OFF	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	Vehicle ahead detection indicator displayed	On
		Vehicle ahead detection indicator not displayed	Off
ACC DISTANCE	Ignition switch ON	When following distance set to "LONG"	LONG
		When following distance set to "MIDDLE"	MID
		When following distance set to "SHORT"	SHORT
		Set distance indicator not displayed	Off
ACC OWN VHL	Ignition switch ON	Own vehicle indicator displayed	On
		Own vehicle indicator not displayed	Off
ACC SET SPEED	Ignition switch ON	Set vehicle speed indicator not displayed	Off
		Set vehicle speed indicator displayed	Indicates the set vehicle speed
ACC UNIT	Ignition switch ON	Set vehicle speed indicator unit display ON	On
		Set vehicle speed indicator unit display OFF	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
		Shift position indicator R display	R
		Shift position indicator N display	N
		Shift position indicator D display	D
		Shift position indicator DS display	L
		Shift position indicator M1 display	M1
		Shift position indicator M2 display	M2
		Shift position indicator M3 display	M3
		Shift position indicator M4 display	M4
		Shift position indicator M5 display	M5
		Shift position indicator M6 display	M6
		Shift position indicator M7 display	M7
O/D OFF SW	Ignition switch ON	<b>NOTE:</b> This item is displayed, but cannot be monitored.	Off
AT S MODE SW	Ignition switch ON	Snow mode switch ON	On
		Snow mode switch OFF	Off
AT P MODE SW	Ignition switch ON	<b>NOTE:</b> This item is displayed, but cannot be monitored.	Off
M RANGE SW	Ignition switch ON	Selector lever manual mode position	On
		Other than the above	Off
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	Driver seat belt not fastened	On
		Driver 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.

A

B

C

D

E

F

G

H

I

J

K

L

M

WCS

O

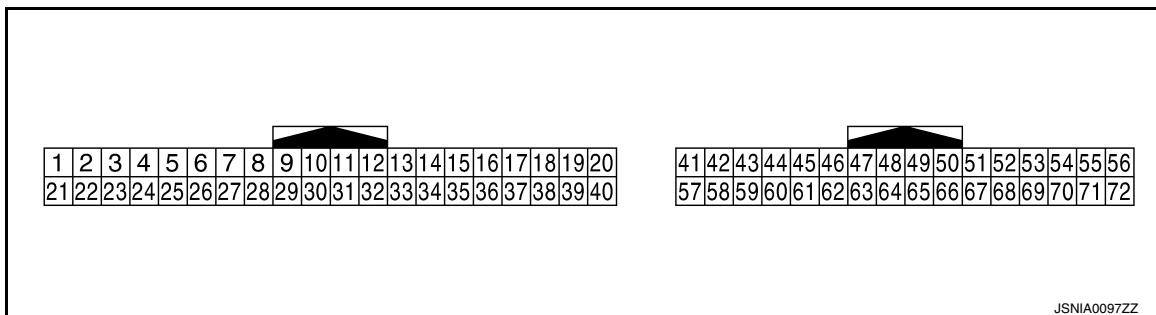
P

# UNIFIED METER AND A/C AMP.

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition		Value/Status
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.
FUEL LOW SIG	Ignition switch ON	Low-fuel warning signal output	On
		Low-fuel warning signal not output	Off
BUZZER	Ignition switch ON	Buzzer ON	On
		Buzzer OFF	Off

## TERMINAL LAYOUT



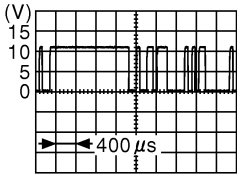
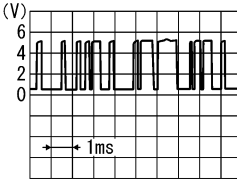
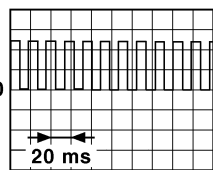
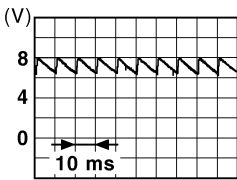
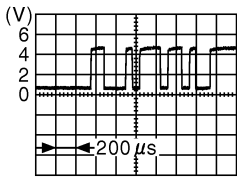
## PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	—	Signal name	Input/ Output			
5 (L)	Ground	Manual mode shift up signal	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	—	
8 (L)	Ground	Vehicle speed signal (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). 
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



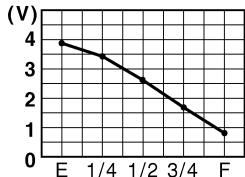
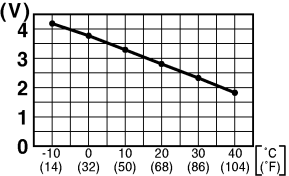
# UNIFIED METER AND A/C AMP.

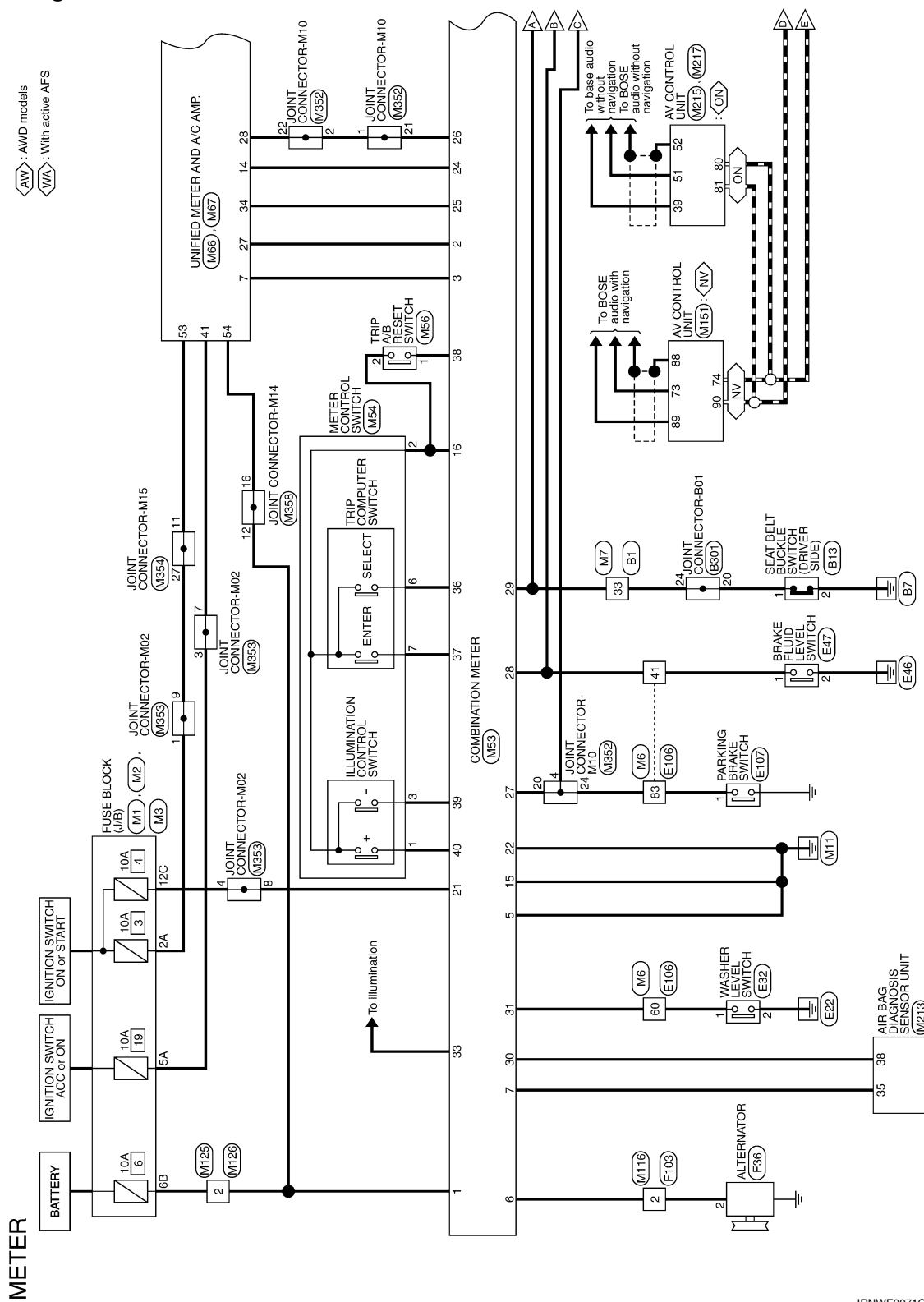
## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
11 (G)	Ground	Non-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
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 ap- prox. 40 km/h (25 MPH)]	<b>NOTE:</b> The maximum voltage varies de- pending on the specification (destination unit).  JSNIA0012GB
30 (V)	Ground	Parking brake switch signal	Input	Ignition switch ON	Parking brake is applied	0 V
					Parking brake is released	 JSNIA0007GB
34 (Y)	Ground	Communication signal (AMP. → LCD)	Output	Ignition switch ON	—	 JSNIA0027GB
41 (V)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage

# UNIFIED METER AND A/C AMP.

## < ECU DIAGNOSIS INFORMATION >

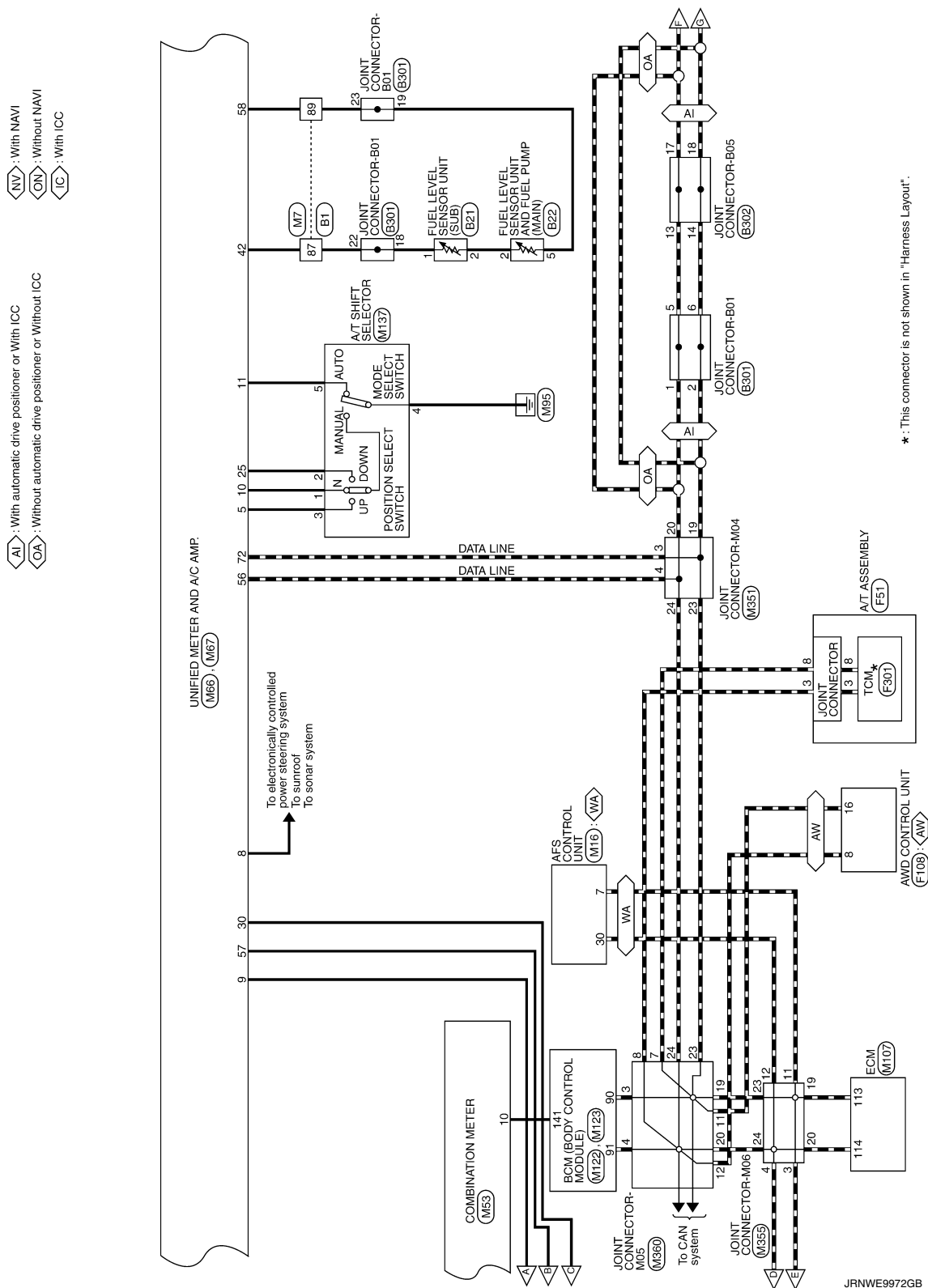
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	—	Signal name	Input/ Output			
42 (Y)	Ground	Fuel level sensor signal	Input	Ignition switch ON	—	 JSNIA0013GB
45 (P)	Ground	Ambient sensor signal	Input	—	—	 JSNIA0014GB
53 (G)	Ground	Ignition power supply	Input	Ignition switch ON	—	Battery voltage
54 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
55 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
56 (L)	Ground	CAN-H	—	—	—	—
57 (W)	Ground	Brake fluid level switch signal	Input	Ignition switch ON	Brake fluid level is normal.	5 V
					The brake fluid level is lower than the low level	0 V
58 (BR)	Ground	Fuel level sensor ground	—	Ignition switch ON	—	0 V
61 (BR)	Ground	Ambient sensor ground	—	Ignition switch ON	—	0 V
71 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
72 (P)	Ground	CAN-L	—	—	—	—



JRNWE9971GB

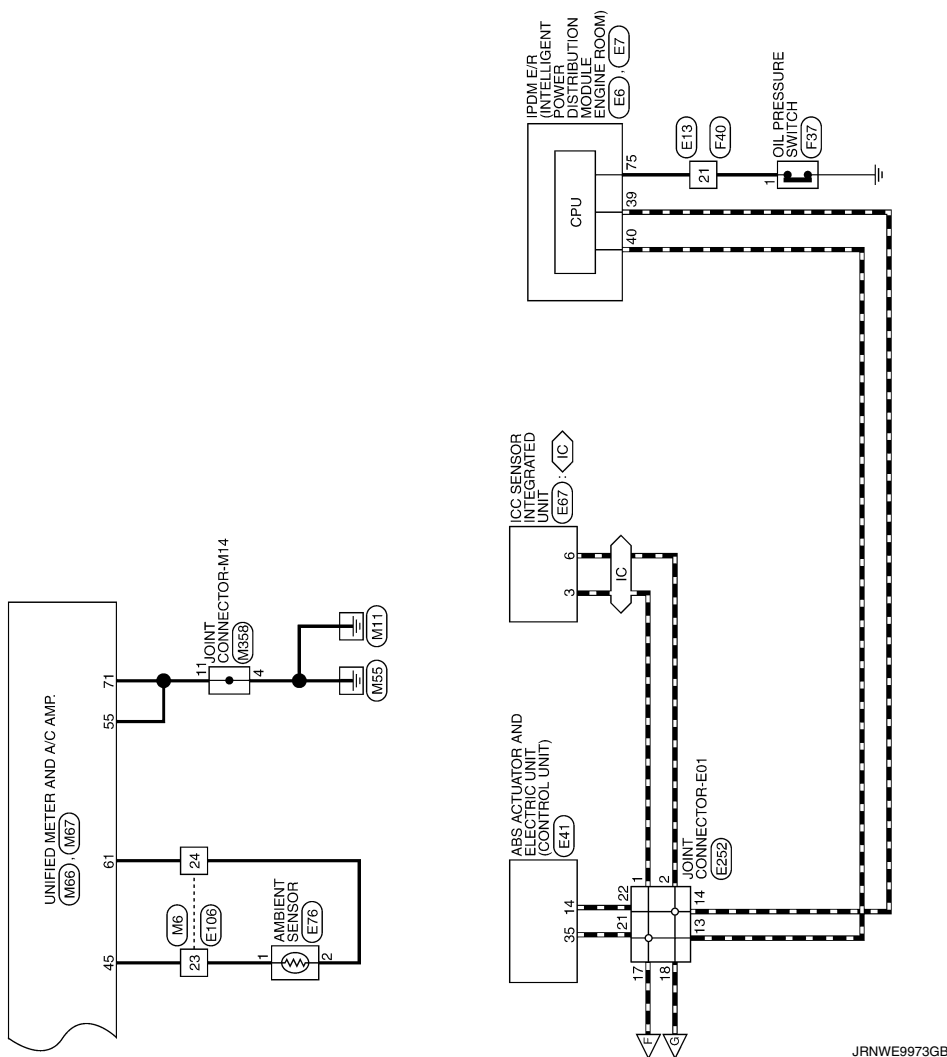
# UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >



UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >



JRNWE9973GB

WCS

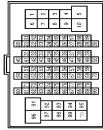
A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
O  
P

# UNIFIED METER AND A/C AMP.

## < ECU DIAGNOSIS INFORMATION >

### METER

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH480FW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	-
5	G	-
6	SB	-
7	V	-
8	L	-
11	V	-
12	SB	-
13	LG	-
14	GR	-
15	LG	-
16	R	-
17	W	-
18	G	-
19	LG	-
20	BR	-
21	SHIELD	-
22	Y	-
24	P	-
25	G	-
26	Y	-
27	B	- [With NAV]
27	BR	- [Without NAV]
28	R	- [With NAV]
28	W	- [Without NAV]
29	L	- [With NAV]
29	Y	- [Without NAV]
30	SHIELD	- [With NAV]
31	L	- [With around view monitor]
31	SHIELD	- [Without around view monitor]
32	P	- [With NAV] [Without Blind Spot Warning]
32	W	- [Without NAV] [Without Blind Spot Warning]
32	Y	- [With NAV] [With Blind Spot Warning]
33	SB	-
34	L	-
35	P	-

36	L	-
37	P	-
38	P	-
39	Y	-
40	SB	-
44	Y	-
45	GR	-
46	LG	-
47	SB	-
48	BG	-
49	R	-
50	L	-
60	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	W	-
67	V	-
68	SB	-
69	SHIELD	-
70	W	-
73	SB	-
74	L	-
75	W	-
76	GR	-
77	R	-
78	P	-
79	GR	-
83	BG	-
85	V	-
86	LG	-
87	Y	-
88	R	-
89	B	-
90	BG	-
91	G	-
92	BR	-
93	G	-
94	SB	-
95	G	-
96	Y	-
98	W	-
99	GR	-

Connector No.	B13
Connector Name	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
Connector Type	TH48FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	B	-

Connector No.	B21
Connector Name	FUEL LEVEL SENSOR UNIT (SUB)
Connector Type	E02FGY-RS



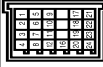
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	W	-

Connector No.	B22
Connector Name	FUEL LEVEL SENSOR UNIT AND FUEL PUMP (MAIN)
Connector Type	E05FGY-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	W	-
3	B	-
4	R	-
5	B	-

Connector No.	B301
Connector Name	JOINT CONNECTOR-B01
Connector Type	MH24FE-J



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	P	-
3	SB	-
4	LG	-
5	L	-
6	R	-
7	SB	-
8	LG	-
9	L	-
10	P	-
11	SB	-
12	LG	-
16	SB	-
17	R	-

JRNWE9974GB

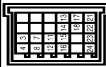
# UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

## METER

18	Y	-
19	B	-
20	SB	-
21	R	-
22	Y	-
23	B	-
24	SB	-

Connector No.	B302
Connector Name	JOINT CONNECTOR-B05
Connector Type	W424F57-J



Terminal No.	Color Of Wire	Signal Name [Specification]
3	Y	-
4	L	-
7	Y	-
8	L	-
12	Y	-
13	L	-
14	P	-
15	Y	-
16	L	-
17	L	-
18	P	-
21	L	-
22	P	-
23	Y	-
24	L	-

Connector No.	E6
Connector Name	FROM A/R INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	T1405FW-N4



Terminal No.	Color Of Wire	Signal Name [Specification]
38	P	-
40	L	-
41	B/W	-
43	SB	-
44	BR	-
45	G	-
46	R	-

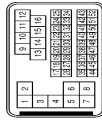
Connector No.	E7
Connector Name	FROM A/R INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	T1420FW-CS12-M4



Terminal No.	Color Of Wire	Signal Name [Specification]
48	L	-
49	BG	-
51	Y	-
53	W	-
55	SB	-
56	LG	-
57	G	-
58	V	-
69	BR	-
70	BG	-
74	P	-
75	SB	-

76	Y	-
77	R	-
80	W	-

Connector No.	E13
Connector Name	WIRE TO WIRE
Connector Type	ISAA38MB-R58-SH28



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L/Y	-
2	SHIELD	-
3	L/B	-
4	SHIELD	-
5	BR	-
7	G	-
8	W	-
9	W	-
10	Y	-
11	P	-
12	SB	-
13	L	-
14	G	-
15	R	-
16	LG	-
18	Y	-
19	BG	-
20	B	-
21	SB	-
22	W	-
23	L	-
24	G	-
27	GR	-
28	V	-
29	P	-
30	R	-
31	BR	-
32	Y	-
33	G	-
34	BG	-

37	SHIELD	-
38	L	-
39	P	-
40	R	-
41	W	-
42	LG	-
43	G	-
45	BG	-
46	SHIELD	-
47	W	-
48	BR	-
49	G	-
50	B	-
51	SB	-
52	R	-

Connector No.	E32
Connector Name	WASHER LEVEL SWITCH
Connector Type	Z02FBR



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

Connector No.	E41
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	BAA427B-AH24-LH



# UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

## METER

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	G	UBMR
3	R	UBVR
4	B	GROUND
5	Y	DS FL
6	BG	DP RL
7	BR	DP RR
8	B	DP FR
9	W	DS FR
10	W	DS FL
11	L	VAC
12	P	GROUND
13	SHIELD	GROUND
14	P	UST
15	Y	BUS-L
16	LG	DS FL
17	GR	DS RL
18	G	UZ
19	LG	DS RR
20	SB	BLS
21	R	VDC OFF SW
22	L	CAN-H
23	B	BUS-H

Connector No.	E47
Connector Name	BRAKE FLUID LEVEL SWITCH
Connector Type	YY02FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	—
2	B	—

Connector No.	E67
Connector Name	ICC SENSOR INTEGRATED UNIT
Connector Type	RS02FFB-PR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	IGNITION
2	L	ITS COMM-H
3	B	CAN-H
4	L	GROUND
5	P	ITS COMM-L
6	P	CAN-L

Connector No.	E76
Connector Name	AMBIENT SENSOR
Connector Type	RS02FFB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	—
2	P	—

Connector No.	E108
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	—
2	W	—
3	B	—
4	GR	—
5	GR	—
6	G	—
7	L	—
8	Y	—
9	BR	—
10	BG	—
11	SB	—
12	BG	—
13	S	—
14	B	—
15	P	—
16	V	—
17	SB	—
18	V	—
19	BR	—
20	BG	—
21	L	—
22	V	—
23	G	—
24	P	—
25	Y	—
26	V	—
27	W	—
28	G	—
29	BG	—
30	L	—
31	W	—
32	B	—
33	R	—
34	R	—
35	G	—
36	SHIELD	—
37	V	—
38	BR	—
39	BG	—

41	W	—
42	G	—
43	BR	—
44	W	—
45	L	—
46	P	—
47	L	—
48	BG	—
49	BR	—
50	W	—
51	LG	—
52	G	—
53	SB	—
54	B	—
55	R	—
56	SHIELD	—
57	Y	—
58	LG	—
59	W	—
60	W	—
61	G	—
62	SB	—
63	W	—
64	B	—
65	G	—
66	R	—
67	SHIELD	—
68	Y	—
69	LG	—
70	W	—
71	R	—
72	Y	—
73	B	—
74	L	—
75	G	—
76	W	—
77	P	—
78	R	—
79	L	—
80	SB	—
81	R	—
82	SB	—
83	BG	—
84	G	—
85	L	—
86	P	—
87	V	—
88	GR	—
89	SHIELD	—
90	W	—
91	Y	—
92	Y	—
93	V	—
94	LG	—



# UNIFIED METER AND A/C AMP.

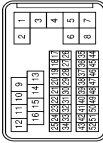
< ECU DIAGNOSIS INFORMATION >

## METER

Connector No.	F36
Connector Name	ALTERNATOR
Connector Type	HS03FB



Connector No.	F40
Connector Name	WIRE TO WIRE
Connector Type	SAA38FB-RS8-SH28



42	GR	-
43	R	-
45	O	-
46	SHIELD	-
47	W/L	-
48	LG	-
49	O/L	-
50	L/Y	-
51	W	-
52	L/G	-

Connector No. E107

Connector Name PARKING BRAKE SWITCH

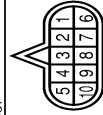
Connector Type T801FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	L
2	V	S
3	P	G

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L/V	-
2	SHIELD	-
3	L/B	-
4	SHIELD	-
5	BR	-
7	G	-
8	W	-
9	W	-
10	G	-
11	R	-
12	P	-
13	L	-
14	LG	-
15	BR	-
16	Y	-
18	LG	-
19	P	-
20	O	-
21	Y	-
22	G	-
23	Y	-
24	LG	-
25	V	-
27	GR	-
28	BR	-
29	L	-
30	R	-
31	P	-
32	W	-
33	SB	-
34	O	-
37	SHIELD	-
38	W	-
39	Y	-
40	G	-
41	B	-

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FC-DGY

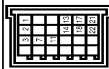


Connector No.	F37
Connector Name	OIL PRESSURE SWITCH
Connector Type	ED1GY-RS-AR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-

Connector No.	F52
Connector Name	JOINT CONNECTOR-E01
Connector Type	NI42FW-J



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	IGNITION POWER SUPPLY
2	BR	BATTERY POWER SUPPLY
3	O	CAN-L
4	V	K-LINE
5	B	GROUND
6	Y	IGNITION POWER SUPPLY
7	R	BACK-UP LAMP RELAY
8	LG	CAN-L
9	GR	STARTER RELAY
10	B	GROUND

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	GR	-
7	GR	-
11	GR	-
13	L	-
14	P	-
17	L	-
18	P	-
21	L	-
22	P	-

JRNWE9977GB

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 >

### METER

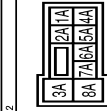
Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TTQ3FW-NS10



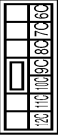
Connector No.	F108
Connector Name	AMD CONTROL UNIT
Connector Type	TH1EFW-NH



Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
2	G	-
3	W	-
4	R	-
5	B	-
9	Y	-
10	GR	-
19	O	- [Without LCC]
19	O	- [With LCC]
20	Y	-
28	B	-
29	LG	-
31	LG	-
31	R	-
34	B	-
35	L	-
36	P	-
37	Y	-
38	G	-
43	LG	-
44	O	-
45	Y	-
46	V	-

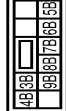
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	AMD SOL (+)
2	Y	AMD SOL (-)
3	W	FLUID TEMP (-)
7	G	IGN
8	L	CAN-H
9	O	AMD SOL BATT
10	B	GROUND
11	GR	GROUND
13	LG	FLUID TEMP (+)
15	Y	BATTERY
16	P	CAN-L

Terminal No.	Color Of Wire	Signal Name [Specification]
1A	Y	-
2A	G	-
3A	L	-
4A	R	-
5A	V	-
6A	Y	-
7A	R	-
8A	L	-

Connector No.	F301
Connector Name	TCM
Connector Type	SP10FG



Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH60MH-CS (P-TM)



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	- [With NAVI]
1	Y	- [Without NAVI]
2	B	- [Without NAVI]
2	B	- [With NAVI]
3	G	- [Without NAVI]
4	SHIELD	- [Without NAVI]
5	G	-
6	R	-
7	W	-
8	Y	-
9	BR	-
10	R	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	IGNITION POWER SUPPLY
2	W	BATTERY POWER SUPPLY
3	W	CAN-H
4	W	K-LINE
5	W	GROUND
6	W	IGNITION POWER SUPPLY
7	W	BACK-UP LAMP RELAY
8	W	CAN-L
9	W	STARTER RELAY

Terminal No.	Color Of Wire	Signal Name [Specification]
3B	W	-
4B	G	-
5B	BG	-
6B	Y	-
7B	P	-
8B	R	-
9B	SB	-

# UNIFIED METER AND A/C AMP.

## < ECU DIAGNOSIS INFORMATION >

### METER

11	BR	-	-
12	BG	-	-
13	L	-	-
14	R	-	-
15	P	-	-
16	V	-	-
17	SB	-	-
18	V	-	-
20	BG	-	-
21	L	-	-
22	W	-	-
23	P	-	-
24	BR	-	-
25	V	-	-
26	V	-	-
27	G	-	-
28	G	-	-
31	L	-	-
32	G	-	-
33	B	-	-
34	W	-	-
35	R	-	-
36	SHIELD	-	-
37	V	-	-
38	BG	-	-
39	BR	-	-
41	W	-	-
42	BG	-	-
43	BG	-	-
44	W	-	-
49	L	-	-
50	P	-	-
51	BR	-	-
54	Y	-	-
57	G	-	-
59	W	-	-
60	L	-	-
61	G	-	-
62	SB	-	-
63	G	-	-
64	B	-	-
65	R	-	-
66	R	-	-
67	SHIELD	-	-
68	Y	-	-
69	GR	-	-
70	LG	-	-
71	LG	-	-
72	Y	-	-
73	SB	-	-

74	BR	- [With ICC]	-
74	L	- [Without ICC]	-
75	G	-	-
76	GR	- [With ICC]	-
76	W	- [Without ICC]	-
77	P	- [With ICC]	-
77	R	- [Without ICC]	-
78	L	- [With ICC]	-
78	R	- [Without ICC]	-
79	W	- [With ICC]	-
79	Y	- [Without ICC]	-
80	SB	-	-
81	SB	-	-
82	SB	-	-
83	V	-	-
84	G	-	-
85	L	-	-
86	P	-	-
87	W	-	-
89	GR	-	-
90	SHIELD	-	-
91	W	-	-
92	Y	-	-
93	BR	-	-
94	P	-	-
95	GR	-	-
96	W	-	-
97	W	-	-
98	SHIELD	-	-
99	V	-	-
100	SB	-	-



Connector No.	M7
Connector Name	WIRE TO WIPE
Connector Type	TH80MM-CS10-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
3	SB	- [With automatic drive positioner]
3	W	- [Without automatic drive positioner]
5	G	-

6	BG	-	-
7	W	-	-
8	B	-	-
11	V	-	-
12	SB	-	-
13	LG	-	-
14	Y	-	-
15	G	-	-
16	R	-	-
17	W	-	-
18	SB	-	-
19	LG	-	-
20	BR	-	-
21	SHIELD	-	-
22	V	-	-
24	V	-	-
25	G	-	-
26	Y	-	-
27	B	- [With NAVI]	-
27	R	- [Without NAVI]	-
28	W	-	-
29	B	-	-
29	R	- [With NAVI]	-
30	SHIELD	-	-
31	L	-	-
32	P	-	-
32	Y	- [Without Blind Spot Warning]	-
32	SB	- [With Blind Spot Warning]	-
33	B	-	-
35	P	-	-
36	L	-	-
37	P	-	-
38	P	-	-
39	Y	-	-
40	SB	-	-
44	L	-	-
45	GR	-	-
46	LG	-	-
47	SB	-	-
48	BG	-	-
49	R	-	-
50	L	-	-
60	P	-	-
61	L	-	-
62	SHIELD	-	-
63	R	-	-
64	G	-	-
65	SHIELD	-	-
66	SB	-	-
67	V	-	-



Connector No.	M16
Connector Name	A/S CONTROL UNIT
Connector Type	TH40FK-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	IGN
2	LG	PS2-R
4	V	PSV-R
6	W	HSV-R
7	P	CAAF-L
8	B	HSG-R
9	GR	PS-R
11	R	SMR-1 (C)
13	B	SMR-2 (C)

# UNIFIED METER AND A/C AMP.

## < ECU DIAGNOSIS INFORMATION >

### METER

Terminal No.	Color Of Wire	Signal Name [Specification]
15	G	SIM-1 (+)
17	W	SIM-2 (+)
19	SB	AMDS-R
24	V	PSV-L
25	BR	GROUND
27	BR	PSG-L
28	EG	HS-R
29	EG	PS-L
30	L	CAN-H
32	G	SIMF-2 (+)
34	W	SIMF-1 (+)
36	R	SIML-2 (-)
38	B	SIML-1 (-)
40	L	AMDS-L

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH



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

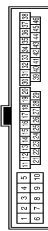
# UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

## METER

109	G	PMP SIGNAL
110	R	ENGINE SPEED OUTPUT SIGNAL
112	R	SENSOR GROUND
113	P	CAN COMMUNICATION LINE
114	L	CAN COMMUNICATION LINE
117	V	DATA LINK CONNECTOR
121	LG	EVAP CANISTER VENT CONTROL VALVE
122	P	STOP LAMP SWITCH
123	B	ECM GROUND
124	B	ECM GROUND
125	R	POWER SUPPLY FOR ECM
126	BR	ASD/ECG BRAKE SWITCH
127	B	ECM GROUND
128	B	ECM GROUND

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TKC6MM-NS10



Terminal No.	Color Of Wire	Signal Name [Specification]
2	P	-
3	L	-
4	R	-
5	B	-
9	R	-
10	R	-
19	BG	-
20	Y	-
28	B	-
29	LG	-
31	W	-
32	W	-
34	B	-
35	L	-
36	P	-
37	Y	-
38	G	-
43	P	-
44	L	-
45	BR	-

46	BG	-
----	----	---

Connector No.	M122
Connector Name	SOM (BODY CONTROL MODULE)
Connector Type	TH40FC-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
72	R	ROOM ANT2 -
73	G	ROOM ANT2 +
74	SB	PASSENGER DOOR ANT-
75	GR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT1 -
79	BR	ROOM ANT1 +
80	GR	NATS ANT AMP
81	W	NATS ANT AMP
82	R	IGN RELAY REQUEST
83	X	KEYLESS ENTRY RECEIVER COMM
87	BR	COMBI SW INPUT 5
88	V	CAN-L
90	P	CAN-H
91	L	CAN-H
92	LG	KEY SLOT ILL CONT
93	V	ON IND
94	Y	PUDDLE LAMP CONT
95	BG	ACC RELAY CONT
96	GR	A/T SHIFT SELECTOR POWER SUPPLY
99	R	SHIFT P
100	G	PASSENGER DOOR REQUEST SW
101	SB	DRIVER DOOR REQUEST SW
102	GR	BLUETOOTH REQUEST SW
103	LG	KEYLESS ENTRY RECEIVER POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 2
109	Y	HAZARD SW
110	G	-

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FC-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
112	SB	OPTICAL SENSOR
116	SB	STOP LAMP SW 1
118	P	DR DOOR UNLOCK SENSOR
119	SB	KEY SLOT SW
121	BR	ION F/B
123	W	PASSENGER DOOR SW
124	LG	POWER WINDOW SW COMM
132	BR	PUSH-BUTTON IGNITION SW ILL POWER
133	W	LOCK IND
134	GR	RECEIVER SENSOR GND
137	BG	RECEIVER SENSOR POWER SUPPLY
138	Y	TIRE PRESSURE RECEIVER COMM
139	LG	SECURITY IND LAMP CONT
140	G	COMBI SW OUTPUT 5
142	BG	COMBI SW OUTPUT 1
143	P	COMBI SW OUTPUT 2
144	G	COMBI SW OUTPUT 3
145	L	COMBI SW OUTPUT 4
146	SB	DRIVER DOOR SW
150	LG	REAR WINDOW DEFOGGER RELAY CONT
151	G	-

Connector No.	M126
Connector Name	WIRE TO WIRE
Connector Type	M03MM-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	Y	-
3	R	-

Connector No.	M125
Connector Name	WIRE TO WIRE
Connector Type	M03FW-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	Y	-
3	R	-

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

WCS

# UNIFIED METER AND A/C AMP.

## < ECU DIAGNOSIS INFORMATION >

### METER

Connector No.	M137
Connector Name	A/T SHIFT SELECTOR
Connector Type	TH12FW-NH



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	V	-
3	L	-
4	B	-
5	G	-
7	R	-
8	SB	-
9	B	-
10	GR	-
11	R	-

Connector No.	M131
Connector Name	AV CONTROL UNIT
Connector Type	TH12FW-NH



16	17	18	19	20
21	22	23	24	25
26	27	28	29	30

Terminal No.	Color Of Wire	Signal Name [Specification]
67	G	PARKING BRAKE SIGNAL
68	R	COMPOSITE IMAGE SIGNAL GND
71	SHIELD	SHIELD
72	R	MICROPHONE VCC
73	R	CAMERA POWER SUPPLY
74	P	CAN-L
75	LG	AV COMM (L)
76	LG	AV COMM (L)
79	R	ILLUMINATION

80	G	IGNITION SIGNAL
81	BG	REVERSE SIGNAL
82	R	VEHICLE SPEED SIGNAL (8-PULSE)
83	SHIELD	SHIELD
87	G	MICROPHONE SIGNAL
88	SHIELD	SHIELD
89	G	COMM (DSP->CONT)
90	L	CAN-H
91	SB	AV COMM (H)
92	SB	AV COMM (H)

Connector No.	M213
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH28FY-EX



22	23	24	25	26
27	28	29	30	31
32	33	34	35	36
37	38	39	40	41

Terminal No.	Color Of Wire	Signal Name [Specification]
23	Y	AS2(A)
24	Y	AS2(A)
25	Y	AS1(-)
26	Y	AS1(+)
27	B	GND
28	Y	DR2(+)
29	Y	DR1(-)DR2(-)
30	Y	DR1(+)
31	V	EC2S(-)
32	BR	DOOR SATELLITE RH2(-)
34	G	DOOR SATELLITE LH2(-)
35	BR	A/B OFF IND
38	G	SEATBELT W/L
39	SHIELD	GND
40	SB	EC2(A)
42	Y	DOOR SATELLITE RH2(+)
44	R	DOOR SATELLITE LH2(+)
45	P	CAN-L
46	L	CAN-H
47	R	A/B CUTOFF TELLTALE
50	R	IGN

Connector No.	M215
Connector Name	AV CONTROL UNIT
Connector Type	TH24FW-NH



36	37	38	39	40
41	42	43	44	45
46	47	48	49	50
51	52	53	54	55

Terminal No.	Color Of Wire	Signal Name [Specification]
36	BG	SIGNAL VCC
37	LG	SIGNAL GND
38	R	HP
39	BR	COMM (DSP->CONT)
40	B	RGB AREA (VS) SIGNAL
41	SHIELD	SHIELD
42	W	RGB SYNCHRONIZING SIGNAL
43	G	RGB SIGNAL (R-RED)
44	L	RGB SIGNAL (G-GREEN)
45	P	RGB SIGNAL (B-BLUE)
46	V	COMPOSITE IMAGE SIGNAL GND
47	SB	INVERTER VCC
48	BR	INVERTER GND
49	G	VP
50	G	COMM (CONT->DSP)
51	Y	SHIELD
52	SHIELD	SHIELD
57	SHIELD	SHIELD
58	SHIELD	SHIELD

Connector No.	M217
Connector Name	AV CONTROL UNIT
Connector Type	TH25FW-NH



76	77	78	79	80
81	82	83	84	85
86	87	88	89	90
91	92	93	94	95

Terminal No.	Color Of Wire	Signal Name [Specification]
76	LG	AV COMM (L)
77	SB	AV COMM (H)
78	LG	AV COMM (L)
79	SB	AV COMM (H)
80	P	CAN-L
81	L	CAN-H
82	B	SW GND
86	SHIELD	SHIELD
87	L	TEL VOICE SIGNAL (+)
88	P	TEL VOICE SIGNAL (-) (PULSE)
89	V	REVERSE SIGNAL
92	V	PARKING BRAKE SIGNAL
94	BG	REVERSE SIGNAL
95	G	IGNITION SIGNAL
96	Y	DISK EJECT SIGNAL

Connector No.	M331
Connector Name	JOINT CONNECTOR-M04
Connector Type	NH24FW-J



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	-
2	B	-
3	P	-
4	L	-
6	B	-
7	P	-
8	L	-
10	W	-
11	P	-
12	L	-
14	B	-
15	P	-
16	L	-
17	V	-
18	B	-
19	P	-
20	L	-

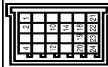
# UNIFIED METER AND A/C AMP.

< ECU DIAGNOSIS INFORMATION >

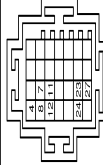
## METER

Terminal No.	Color Of Wire	Signal Name [Specification]
21	V	-
22	B	-
23	P	-
24	L	-

Connector No.	M352
Connector Name	JOINT CONNECTOR-M10
Connector Type	NH24FW-J



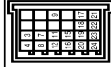
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	R	-
4	V	-
10	R	-
12	V	-
14	V	-
16	BR	-
18	V	-
20	V	-
21	R	-
22	R	-
23	V	-
24	V	-



Connector No.	M354
Connector Name	JOINT CONNECTOR-M15
Connector Type	SCA38FDGY-J

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	R	-
3	V	-
4	BG	-
5	G	-
6	R	-
7	V	-
8	BG	-
9	G	-
10	R	-
11	V	-
12	W	-
13	W	-
14	R	-
17	W	-
19	V	-
21	W	-
22	R	-
23	V	-
26	R	-
27	G	-

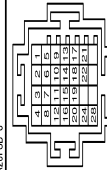
Connector No.	M355
Connector Name	JOINT CONNECTOR-M06
Connector Type	NH24FW-J



Terminal No.	Color Of Wire	Signal Name [Specification]
2	R	-
4	P	-
7	P	-
8	L	-
9	P	-
11	P	-
12	L	-
15	P	-
16	L	-
17	P	-
18	V	-
19	P	-
20	L	-
22	V	-
23	P	-
24	L	-



Connector No.	M358
Connector Name	JOINT CONNECTOR-M14
Connector Type	SCA28FSB-J

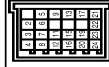


Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	V	-
2	LG	-

Terminal No.	Color Of Wire	Signal Name [Specification]
2	R	-
3	B	-
4	B	-
5	BR	-
6	LG	-
7	B	-
8	B	-
9	L	-
10	W	-
11	B	-
12	Y	-
13	L	-
14	W	-
15	BR	-
16	Y	-
17	L	-
18	W	-
19	BR	-
20	BR	-
21	L	-
22	W	-
24	BR	-
28	BR	-



Connector No.	M380
Connector Name	JOINT CONNECTOR-M05
Connector Type	NH24FW-J



Terminal No.	Color Of Wire	Signal Name [Specification]
2	GR	-
3	P	-
4	L	-
5	R	-
6	GR	-
7	P	-
8	L	-
9	BR	-
11	P	-

JRNWE9983GB

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 >

METER	12	L	-
	13	BR	-
	15	P	-
	16	L	-
	17	V	-
	19	P	-
	20	L	-
	21	V	-
	22	G	-
	23	P	-
	24	L	-

JRNWE9984GB

Fail-Safe

INFOID:0000000012762372

FAIL-SAFE

The unified meter and A/C amp. activates the fail-safe control if CAN communication with each unit is malfunctioning.



# UNIFIED METER AND A/C AMP.

## < ECU DIAGNOSIS INFORMATION >

Function		Specifications
Speedometer		Reset to zero by suspending communication.
Tachometer		
Fuel gauge		
Water temperature gauge		
Illumination control		When suspending communication, change to nighttime mode.
Information display		The display turns off by suspending communication.
Buzzer		The buzzer turns off by suspending communication.
Warning lamp/indicator lamp	ABS warning lamp	The lamp turns on by suspending communication.
	VDC warning lamp	
	Brake warning lamp	
	CRUISE warning lamp	
	IBA OFF indicator lamp	
	AWD warning lamp	
	Low tire pressure warning lamp	
	Master warning lamp	
	AFS OFF indicator lamp	The lamp blinking caused by communication malfunction
	High beam indicator	The lamp turns off by suspending communication.
	Turn signal indicator lamp	
	Tail lamp indicator lamp	
	Oil pressure warning lamp	
	VDC OFF indicator lamp	
	BSW warning lamp	
	Malfunction indicator lamp	
	A/T CHECK warning lamp	
	Key warning lamp	
	Lane departure warning lamp	
	LDP ON indicator lamp	

## DTC Index

INFOID:0000000012762373

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-43</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-44</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-45</a>
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-47</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-49</a>

## UNIFIED METER AND A/C AMP.

### < ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Time	Diagnostic item is detected when ...	Refer to
ENGINE SPEED [B2267]	CRNT, 1 - 39	If ECM continuously transmits abnormal engine speed signals for 2 seconds or more.	<a href="#">MWI-50</a>
WATER TEMP [B2268]	CRNT, 1 - 39	If ECM continuously transmits abnormal engine coolant temperature signals for 60 seconds or more.	<a href="#">MWI-51</a>

# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

## BCM (BODY CONTROL MODULE)

### Reference Value

INFOID:0000000012780098

### 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	Off
	Front wiper switch INT	On
FR WIPER STOP	Front wiper is not in STOP position	Off
	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
RR WIPER ON	Other than rear wiper switch ON	Off
	Rear wiper switch ON	On
RR WIPER INT	Other than rear wiper switch INT	Off
	Rear wiper switch INT	On
RR WASHER SW	Rear washer switch OFF	Off
	Rear washer switch ON	On
RR WIPER STOP	Rear wiper is in STOP position	Off
	Rear wiper is not in STOP position	On
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

## BCM (BODY CONTROL MODULE)

### < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
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 RH door opened	On
DOOR SW-RL	Rear LH door closed	Off
	Rear LH door opened	On
DOOR SW-BK	Back door closed	Off
	Back door opened	On
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 position	Off
	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
	Driver door key cylinder UNLOCK position	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	<b>NOTE:</b> The item is indicated, but not monitored.	Off
TR/BD OPEN SW	Back door opener switch OFF	Off
	While the back door opener switch is turned ON	On
TRNK/HAT MNTR	<b>NOTE:</b> The item is indicated, but not monitored.	Off
REVERSE SW	<b>NOTE:</b> The item is indicated, but not monitored.	Off
RKE-LOCK	LOCK button of the key is not pressed	Off
	LOCK button of the key is pressed	On
RKE-UNLOCK	UNLOCK button of the key is not pressed	Off
	UNLOCK button of the key is pressed	On
RKE-TR/BD	<b>NOTE:</b> The item is indicated, but not monitored.	Off
RKE-PANIC	PANIC button of the key is not pressed	Off
	PANIC button of the key is pressed	On
RKE-P/W OPEN	UNLOCK button of the key is not pressed	Off
	UNLOCK button of the key is pressed and held	On

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
RKE-MODE CHG	LOCK/UNLOCK button of the key is not pressed and held simultaneously	Off
	LOCK/UNLOCK button of the 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
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	Back door request switch is not pressed	Off
	Back door 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

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
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
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 speed-ometer reading
VEH SPEED 2	While driving	Equivalent to speed-ometer reading
DOOR STAT-DR	Driver door is locked	LOCK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door is unlocked	UNLOCK
DOOR STAT-AS	Passenger door is locked	LOCK
	Wait with selective UNLOCK operation (5 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 key is not inserted into key slot	Off
	The key is inserted into key slot	On
RKE OPE COUN1	During the operation of the key	Operation frequency of the 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 does not accord with any key ID registered to BCM.	Yet
	The key ID that the key slot receives accords with any key ID registered to BCM.	Done
CONFIRM ID4	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	Yet
	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	Done
CONFIRM ID3	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	Yet
	The key ID that the key slot receives accords with the third key ID registered to BCM.	Done

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
CONFIRM ID2	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	Yet
	The key ID that the key slot receives accords with the second key ID registered to BCM.	Done
CONFIRM ID1	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	Yet
	The key ID that the key slot receives accords with the first key ID registered to BCM.	Done
TP 4	The ID of fourth key is not registered to BCM	Yet
	The ID of fourth key is registered to BCM	Done
TP 3	The ID of third key is not registered to BCM	Yet
	The ID of third key is registered to BCM	Done
TP 2	The ID of second key is not registered to BCM	Yet
	The ID of second key is registered to BCM	Done
TP 1	The ID of first key is not registered to BCM	Yet
	The ID of first 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

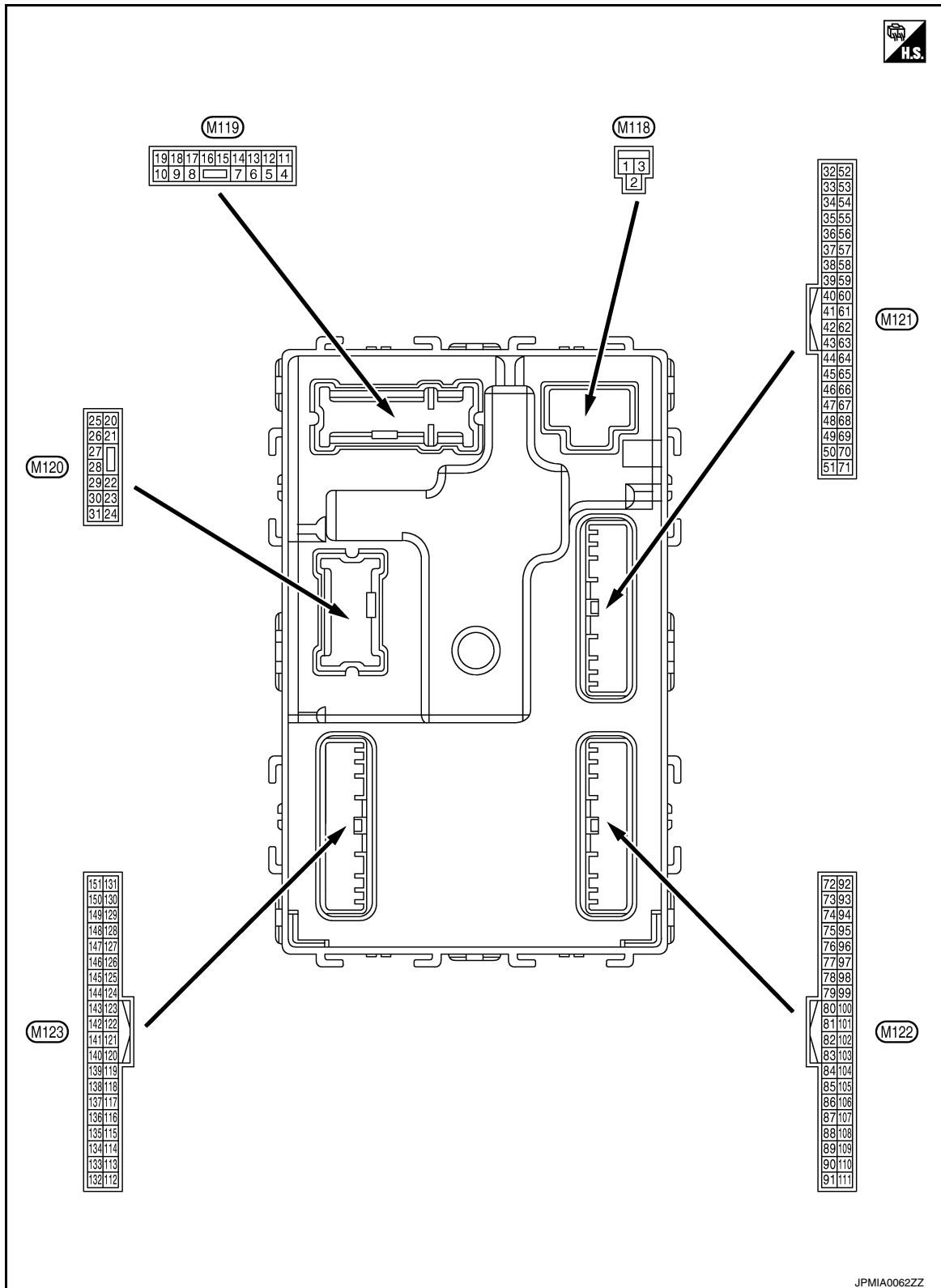
O

P

# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

## TERMINAL LAYOUT

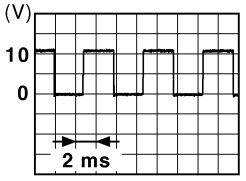


## PHYSICAL VALUES



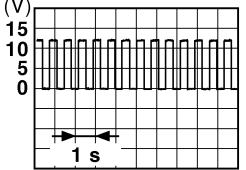
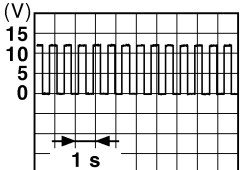
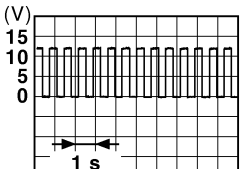
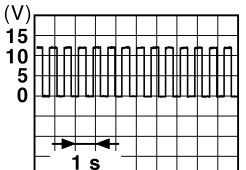
# BCM (BODY CONTROL MODULE)

## < 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		Battery voltage
2 (W)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		Battery voltage
3 (Y)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		Battery voltage
4 (LG)	Ground	Interior room lamp power supply	Output	Interior room lamp battery saver is activated. (Cuts the interior room lamp power supply)		0 V
				Interior room lamp battery saver is not activated. (Outputs the interior room lamp power supply)		Battery voltage
5 (L)	Ground	Passenger door UN- LOCK	Output	Passenger door	UNLOCK (Actuator is activated)	Battery voltage
					Other than UNLOCK (Actuator is not activated)	0 V
7 (Y)	Ground	Step lamp	Output	Step lamp	ON	0 V
					OFF	Battery voltage
8 (V)	Ground	All doors, fuel lid LOCK	Output	All doors	LOCK (Actuator is activated)	Battery voltage
					Other than LOCK (Actuator is not activated)	0 V
9 (G)	Ground	Driver door, fuel lid UNLOCK	Output	Driver door	UNLOCK (Actuator is activated)	Battery voltage
					Other than UNLOCK (Actuator is not activated)	0 V
10 (BR)	Ground	Rear RH door and rear LH door UN- LOCK	Output	Rear RH door and rear LH door	UNLOCK (Actuator is activated)	Battery voltage
					Other than UNLOCK (Actuator is not activated)	0 V
11 (R)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
13 (B)	Ground	Ground	—	Ignition switch ON		0 V
14 (W)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	OFF	0 V
					ON	<b>NOTE:</b> When the illumination brightening/dimming level is in the neutral position  <small>JSNIA0010GB</small>
15 (Y)	Ground	ACC indicator lamp	Output	Ignition switch	OFF or ON	Battery voltage
					ACC	0 V

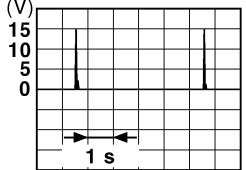
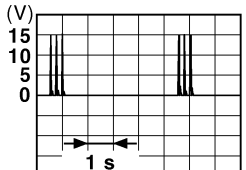
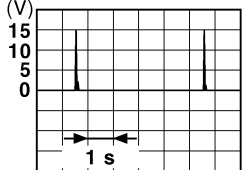
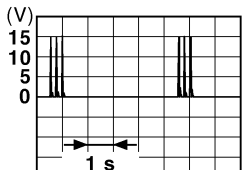
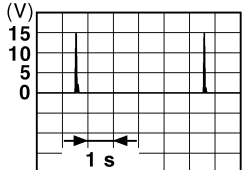
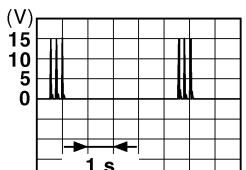
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
17 (W)	Ground	Turn signal RH (Front, side)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 6.5 V
18 (BG)	Ground	Turn signal LH (Front, side)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 6.5 V
19 (V)	Ground	Room lamp timer control	Output	Interior room lamp	OFF	Battery voltage
					ON	0 V
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 6.5 V
23 (G)	Ground	Back door open	Output	Back door	OPEN (Back door opener actuator is activated)	Battery voltage
					Other than OPEN (Back door opener actuator is not activated)	0 V
25 (G)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 6.5 V
26 (G)	Ground	Rear wiper	Output	Rear wiper	OFF (Stopped)	0 V
					ON (Operated)	Battery voltage

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
34 (SB)	Ground	Luggage room antenna (-)	Output	Ignition switch OFF	 JMKIA0062GB
				When Intelligent Key is not in the passenger compartment	 JMKIA0063GB
35 (V)	Ground	Luggage room antenna (+)	Output	Ignition switch OFF	 JMKIA0062GB
				When Intelligent Key is not in the passenger compartment	 JMKIA0063GB
38 (B)	Ground	Back door antenna (-)	Output	When the back door opener request switch is operated with ignition switch OFF	 JMKIA0062GB
				When Intelligent Key is not in the antenna detection area	 JMKIA0063GB

A

B

C

D

E

F

G

H

I

J

K

L

M

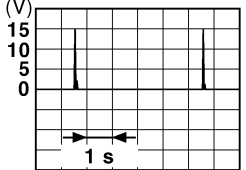
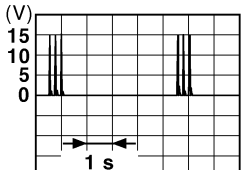
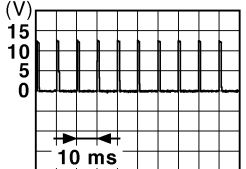
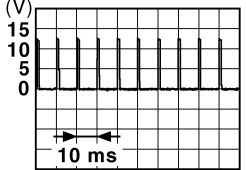
WCS

O

P

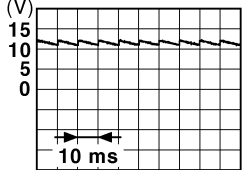
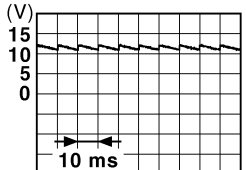
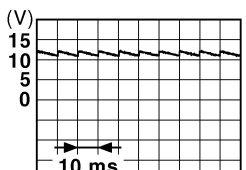
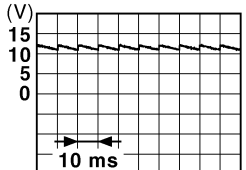
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
39 (W)	Ground	Back door antenna (+)	Output	When the back door opener request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
				When the back door opener request switch is operated with ignition switch ON	When Intelligent Key is not in the antenna detection area	 JMKIA0063GB
47 (Y)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC	Battery voltage
					ON	0 V
52 (SB)	Ground	Starter relay control	Output	Ignition switch ON	When selector lever is in P or N position	Battery voltage
					When selector lever is not in P or N position	0 V
60 (BR)	Ground	Push-button ignition switch (Push switch)	Input	Push-button ignition switch (push switch)	Pressed	0 V
					Not pressed	Battery voltage
61 (W)	Ground	Back door opener request switch	Input	Back door opener request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 1.0 V JPMIA0016GB
64 (V)	Ground	Intelligent Key warning buzzer (Engine room)	Output	Intelligent Key warning buzzer (Engine room)	Sounding	0 V
					Not sounding	Battery voltage
65 (BG)	Ground	Rear wiper stop position	Input	Rear wiper	In stop position	 1.0 V JPMIA0016GB
					Not in stop position	0 V

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
66 (R)	Ground	Back door switch	Input	Back door switch	OFF (Door close)	 11.8 V
					ON (Door open)	0 V
67 (GR)	Ground	Back door opener switch	Input	Back door opener switch	Pressed	0 V
					Not pressed	 11.8 V
68 (BR)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (Door close)	 11.8 V
					ON (Door open)	0 V
69 (R)	Ground	Rear LH door switch	Input	Rear LH door switch	OFF (Door close)	 11.8 V
					ON (Door open)	0 V

A

B

C

D

E

F

G

H

I

J

K

L

M

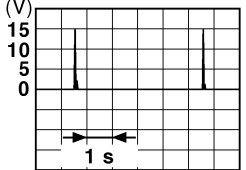
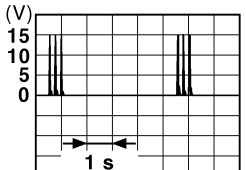
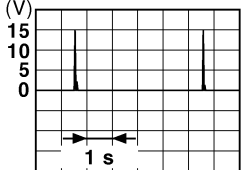
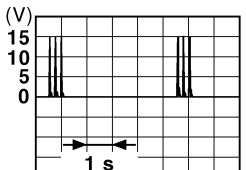
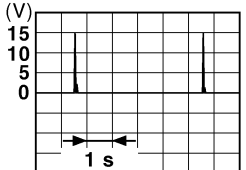
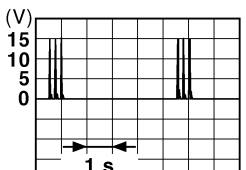
WCS

O

P

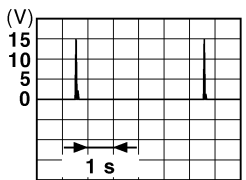
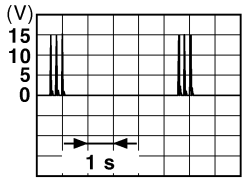
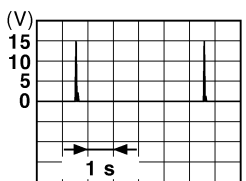
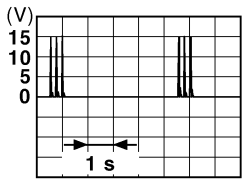
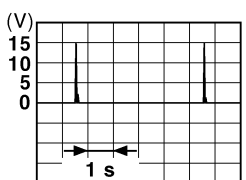
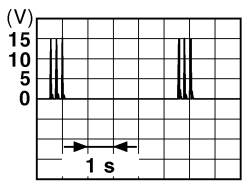
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
72 (R)	Ground	Room antenna 2 (-) (Console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compart- ment	 JMKIA0063GB
73 (G)	Ground	Room antenna 2 (+) (Console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compart- ment	 JMKIA0063GB
74 (SB)	Ground	Passenger door an- tenna (-)	Output	When the pas- senger door re- quest switch is operated with ig- nition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB

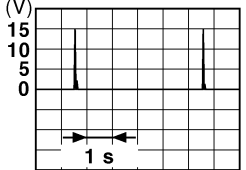
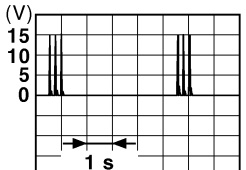
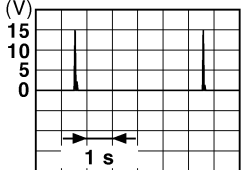
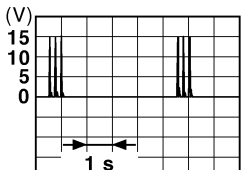
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
75 (GR)	Ground	Passenger door antenna (+)	Output	When the passenger door request switch is operated with ignition switch OFF	 <p>JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	 <p>JMKIA0063GB</p>
76 (V)	Ground	Driver door antenna (-)	Output	When the driver door request switch is operated with ignition switch OFF	 <p>JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	 <p>JMKIA0063GB</p>
77 (LG)	Ground	Driver door antenna (+)	Output	When the driver door request switch is operated with ignition switch OFF	 <p>JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	 <p>JMKIA0063GB</p>

# BCM (BODY CONTROL MODULE)

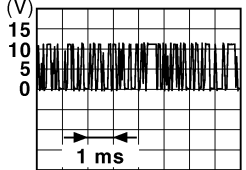
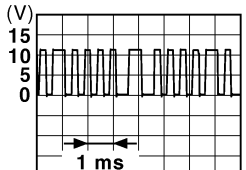
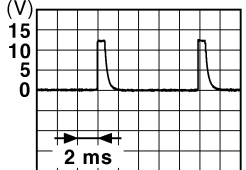
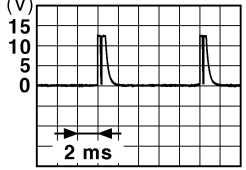

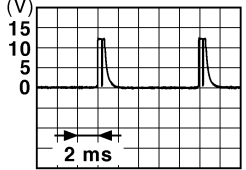
## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
78 (Y)	Ground	Room antenna 1 (-) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compart- ment	 JMKIA0063GB
79 (BR)	Ground	Room antenna 1 (+) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compart- ment	 JMKIA0063GB
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
81 (W)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
82 (R)	Ground	Ignition relay [Fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage



# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

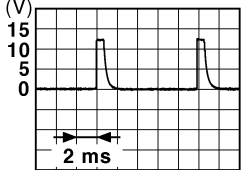
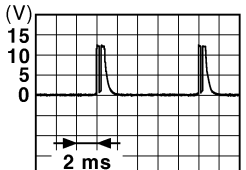

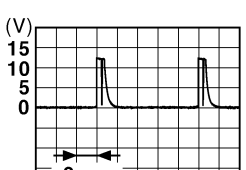
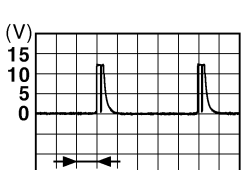
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
83 (Y)	Ground	Remote keyless entry receiver communica- tion	Input/ Output	During waiting	 JMKIA0064GB
				When operating either button on the key	 JMKIA0065GB
87 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch	
				All switches OFF (Wiper intermittent dial 4)	 JPMIA0041GB 1.4 V
				Front fog lamp switch ON (Wiper intermittent dial 4)	 JPMIA0037GB 1.3 V
				Rear wiper switch ON (Wiper intermittent dial 4)	 JPMIA0039GB 1.3 V
				Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	 JPMIA0040GB 1.3 V

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

WCS

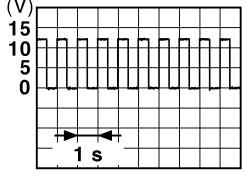
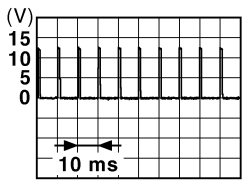
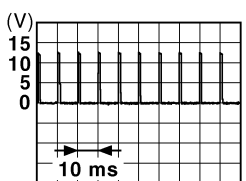
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
88 (V)	Ground	Combination switch INPUT 3	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	 1.4 V
					Lighting switch HI (Wiper intermittent dial 4)	 1.3 V
					Lighting switch 2ND (Wiper intermittent dial 4)	 1.3 V
					Rear washer switch ON (Wiper intermittent dial 4)	 1.3 V
					Any of the conditions below with all switches OFF <ul style="list-style-type: none"> <li>• Wiper intermittent dial 1</li> <li>• Wiper intermittent dial 2</li> <li>• Wiper intermittent dial 3</li> </ul>	 1.3 V
90 (P)	Ground	CAN-L	Input/ Output	—		—
91 (L)	Ground	CAN-H	Input/ Output	—		—

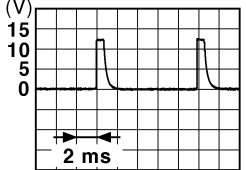

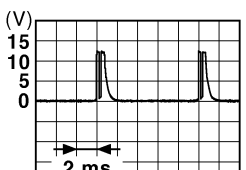
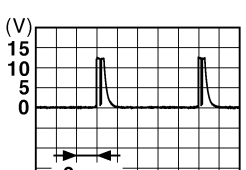
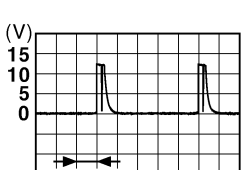
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
92 (LG)	Ground	Key slot illumination	Output	Key slot illumination	OFF	Battery voltage
					Blinking	 6.5 V
					ON	0 V
93 (V)	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC	Battery voltage
					ON	0 V
94 (Y)	Ground	Puddle lamp control	Output	Puddle lamp	OFF	Battery voltage
					ON	0 V
95 (BG)	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
					ACC or ON	Battery voltage
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output	—		Battery voltage
99 (R)	Ground	Selector lever P position switch	Input	Selector lever	P position	0 V
					Any position other than P	Battery voltage
100 (G)	Ground	Passenger door request switch	Input	Passenger door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 1.0 V
101 (SB)	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	0 V
					ON	Battery voltage
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		Battery voltage

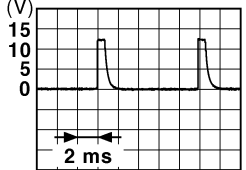
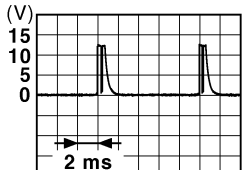

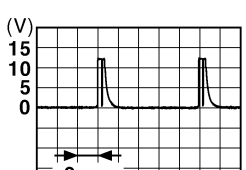

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	<p>All switches OFF</p>  <p>JPMIA0041GB</p> <p>1.4 V</p>
					<p>Turn signal switch LH</p>  <p>JPMIA0037GB</p> <p>1.3 V</p>
					<p>Turn signal switch RH</p>  <p>JPMIA0036GB</p> <p>1.3 V</p>
					<p>Front wiper switch LO</p>  <p>JPMIA0038GB</p> <p>1.3 V</p>
					<p>Front washer switch ON</p>  <p>JPMIA0039GB</p> <p>1.3 V</p>

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

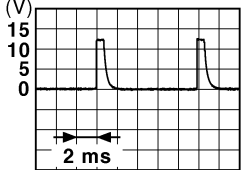

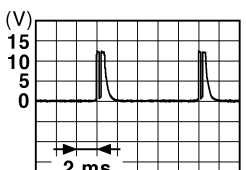
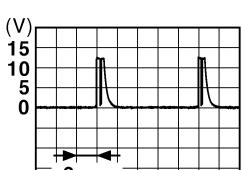
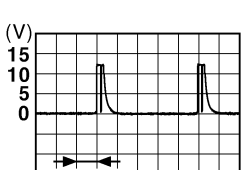
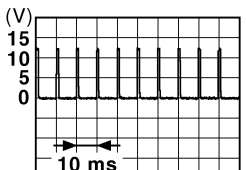
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
108 (R)	Ground	Combination switch INPUT 4	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)  1.4 V
					Lighting switch AUTO (Wiper intermittent dial 4)  1.3 V
					Lighting switch 1ST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

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

WCS

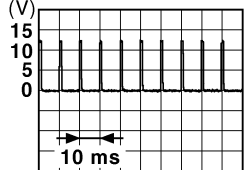
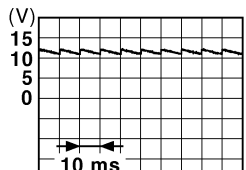
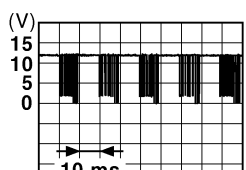
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
109 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	All switches OFF	 <p>JPMIA0041GB</p> <p>1.4 V</p>
					Lighting switch PASS	 <p>JPMIA0037GB</p> <p>1.3 V</p>
					Lighting switch 2ND	 <p>JPMIA0036GB</p> <p>1.3 V</p>
					Front wiper switch INT	 <p>JPMIA0038GB</p> <p>1.3 V</p>
					Front wiper switch HI	 <p>JPMIA0040GB</p> <p>1.3 V</p>
110 (G)	Ground	Hazard switch	Input	Hazard switch	ON	0 V
					OFF	 <p>JPMIA0012GB</p> <p>1.1 V</p>

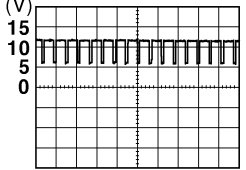
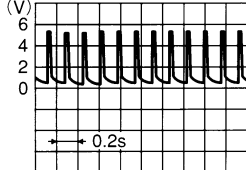

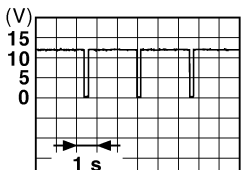
# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
113 (P)	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 (P)	Ground	Stop lamp switch 2 (Without ICC)	Input	Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
					ON (Brake pedal is de- pressed)	Battery voltage
		Stop lamp switch 2 (With ICC)		Stop lamp switch OFF (Brake pedal is not de- pressed) and ICC brake hold relay OFF		0 V
				Stop lamp switch ON (Brake pedal is de- pressed) or ICC brake hold relay ON		Battery voltage
119 (SB)	Ground	Front door lock as- sembly driver side (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	 JPMIA0012GB 1.1 V
					UNLOCK status (Unlock switch sensor ON)	0 V
121 (BR)	Ground	Key slot switch	Input	When the key is inserted into key slot		Battery voltage
				When the key is not inserted into key slot		0 V
123 (W)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	 JPMIA0011GB 11.8 V
					ON (Door open)	0 V
132 (BR)	Ground	Power window switch communication	Input/ Output	Ignition switch ON		 JPMIA0013GB 10.2 V
				Ignition switch OFF or ACC		Battery voltage

# BCM (BODY CONTROL MODULE)



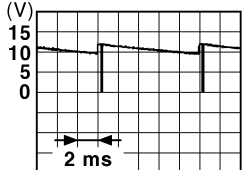
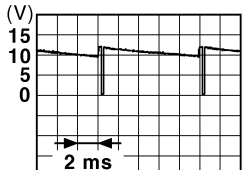
## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
133 (W)	Ground	Push-button ignition switch illumination	Output	Push-button igni- tion switch illumi- nation	ON (Tail lamps OFF)	9.5 V
					ON (Tail lamps ON)	<b>NOTE:</b> The pulse width of this wave is varied by the illumination bright- ening/dimming level.  <small>JPMIA0159GB</small>
					OFF	0 V
134 (GR)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF	Battery voltage
					ON	0 V
137 (BG)	Ground	Receiver and sensor ground	Input	Ignition switch ON		0 V
138 (Y)	Ground	Receiver and sensor power supply	Output	Ignition switch	OFF	0 V
					ACC or ON	5.0 V
139 (L)	Ground	Tire pressure receiv- er communication	Input/ Output	Ignition switch ON	Standby state	 <small>OCC3881D</small>
					When receiving the signal from the transmitter	 <small>OCC3880D</small>
140 (GR)	Ground	Selector lever P/N position	Input	Selector lever	P or N position	Battery voltage
					Except P and N positions	0 V
141 (G)	Ground	Security indicator	Output	Security indicator	ON	0 V
					Blinking	 <small>JPMIA0014GB</small> 11.3 V
					OFF	Battery voltage



# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

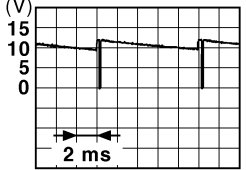
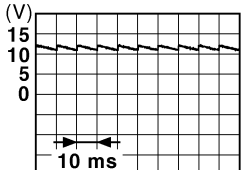
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
142 (BG)	Ground	Combination switch OUTPUT 5	Output	All switches OFF	0 V
				Lighting switch 1ST	
				Lighting switch HI	
				Lighting switch 2ND	
				Turn signal switch RH	
143 (P)	Ground	Combination switch OUTPUT 1	Output	All switches OFF (Wiper intermittent dial 4)	0 V
				Front wiper switch HI (Wiper intermittent dial 4)	
				Rear wiper switch INT (Wiper intermittent dial 4)	
				Any of the conditions below with all switches OFF	
				<ul style="list-style-type: none"> <li>• Wiper intermittent dial 1</li> <li>• Wiper intermittent dial 2</li> <li>• Wiper intermittent dial 3</li> <li>• Wiper intermittent dial 6</li> <li>• Wiper intermittent dial 7</li> </ul>	
144 (G)	Ground	Combination switch OUTPUT 2	Output	All switches OFF (Wiper intermittent dial 4)	0 V
				Front washer switch ON (Wiper intermittent dial 4)	
				Rear wiper switch ON (Wiper intermittent dial 4)	
				Rear washer switch ON (Wiper intermittent dial 4)	
				Any of the conditions below with all switches OFF	
145 (L)	Ground	Combination switch OUTPUT 3	Output	All switches OFF	0 V
				Front wiper switch INT	
				Front wiper switch LO	
				Lighting switch AUTO	

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

WCS

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

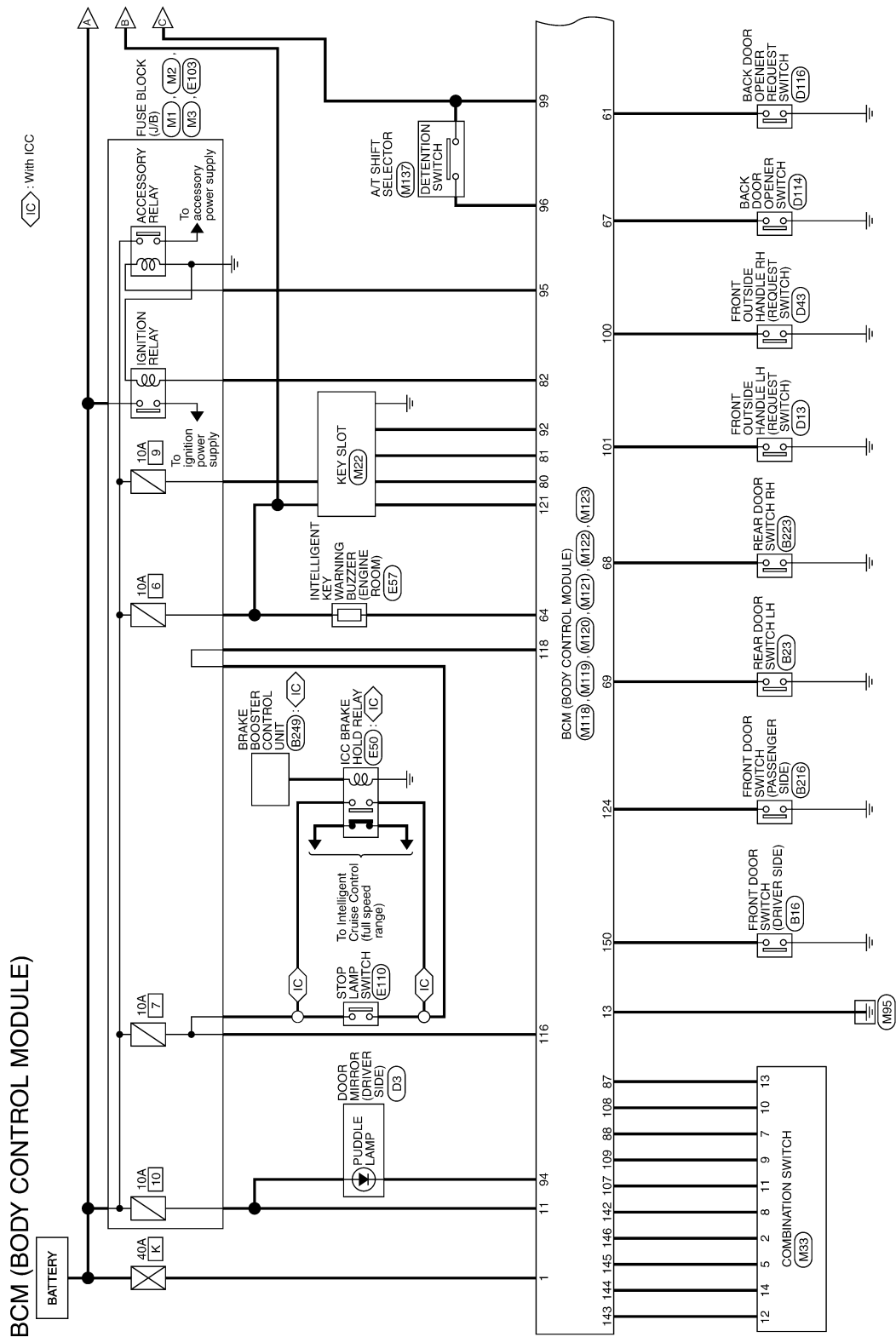
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
146 (SB)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermit- tent dial 4)	All switches OFF	0 V
					Front fog lamp switch ON	 <p>JPMIA0035GB</p>
					Lighting switch 2ND	
					Lighting switch PASS	
					Turn signal switch LH	10.7 V
150 (LG)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	 <p>JPMIA0011GB</p> <p>11.8 V</p>
					ON (Door open)	0 V
151 (G)	Ground	Rear window defog- ger relay control	Output	Rear window de- fogger	Active	0 V
					Not activated	Battery voltage

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Wiring Diagram - BCM -

INFOID:000000012780099



2015/06/22

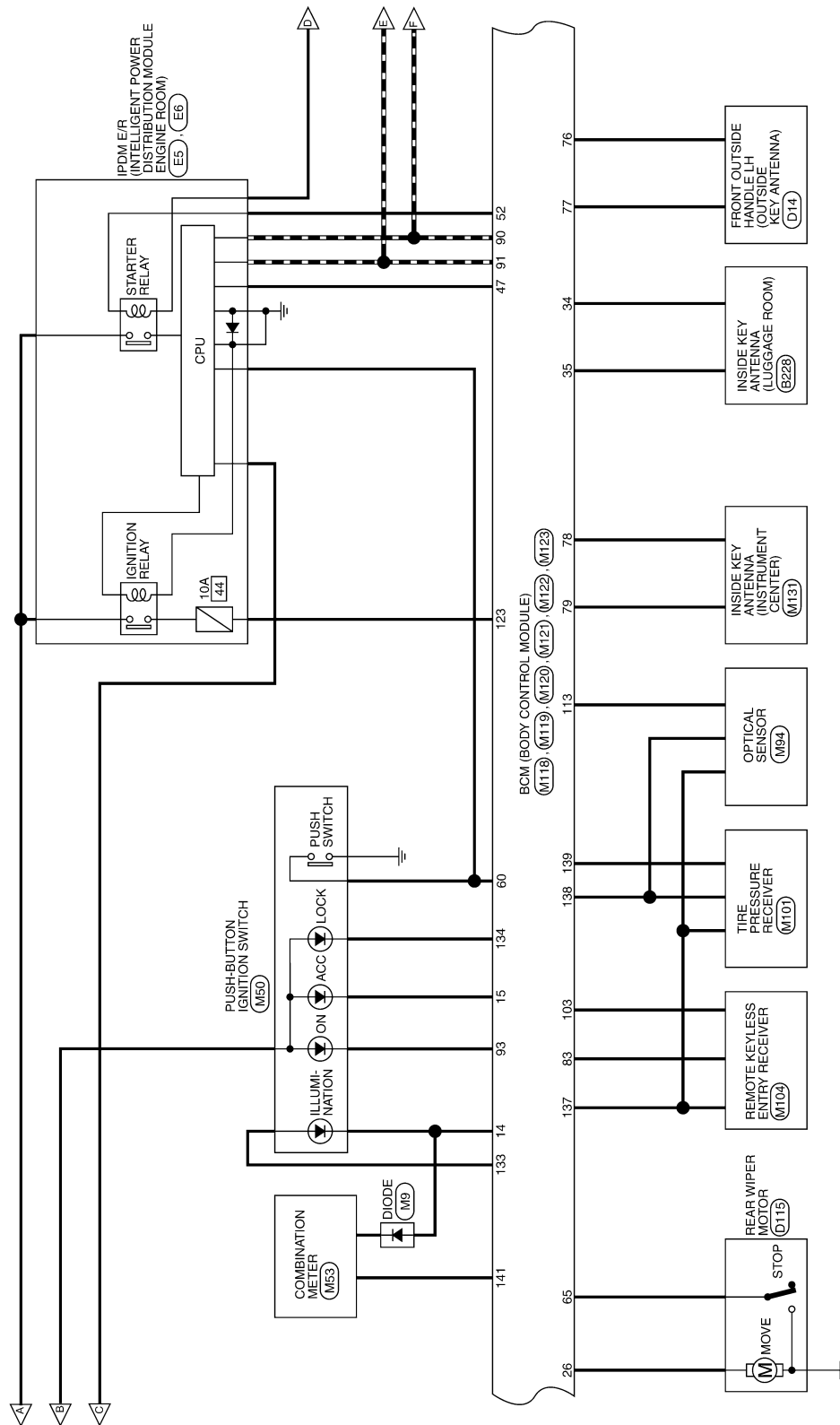
JRMW13746GB

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

WCS

# BCM (BODY CONTROL MODULE)

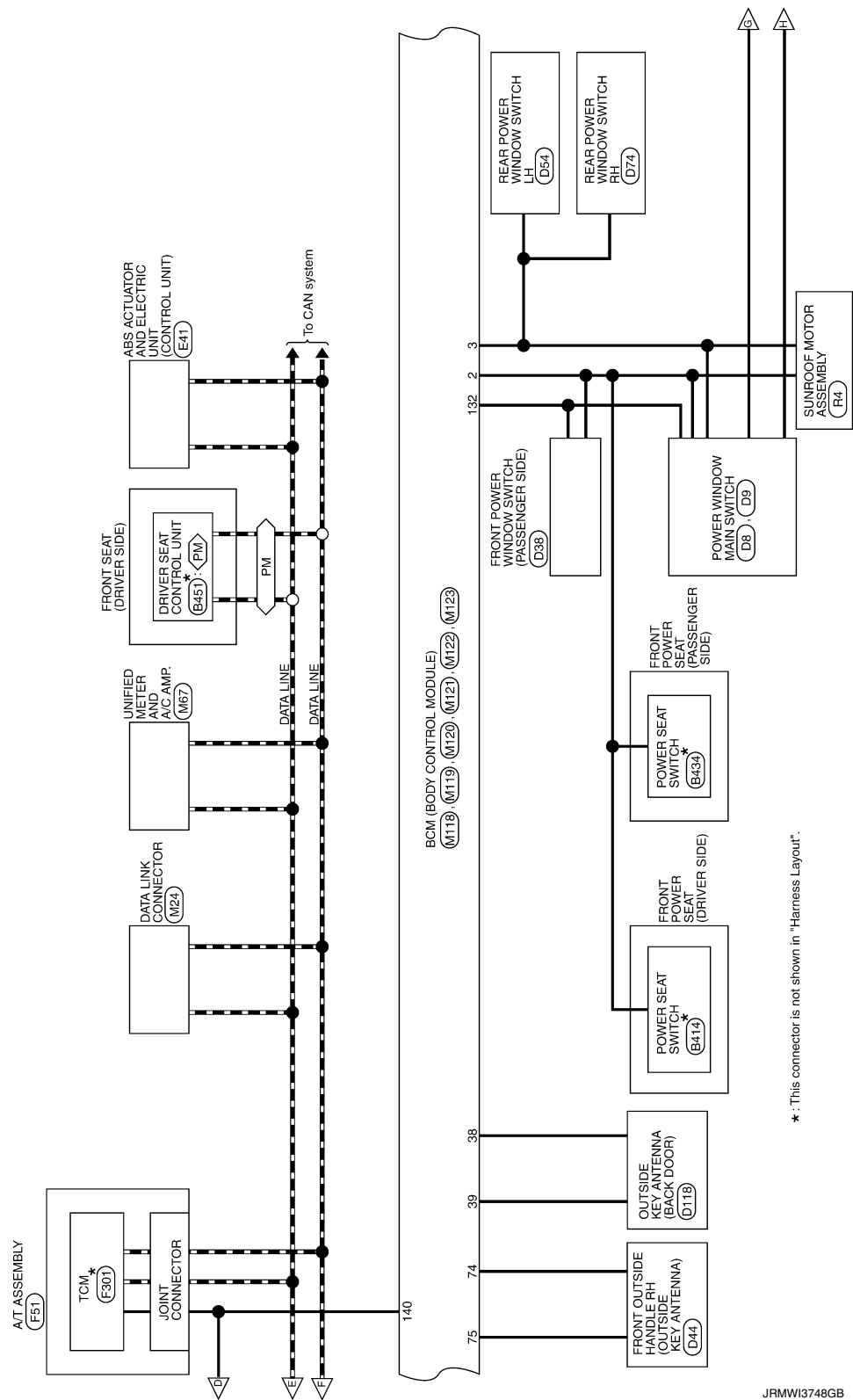
< ECU DIAGNOSIS INFORMATION >



JRMW13747GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >



★ : This connector is not shown in "Harness Layout".

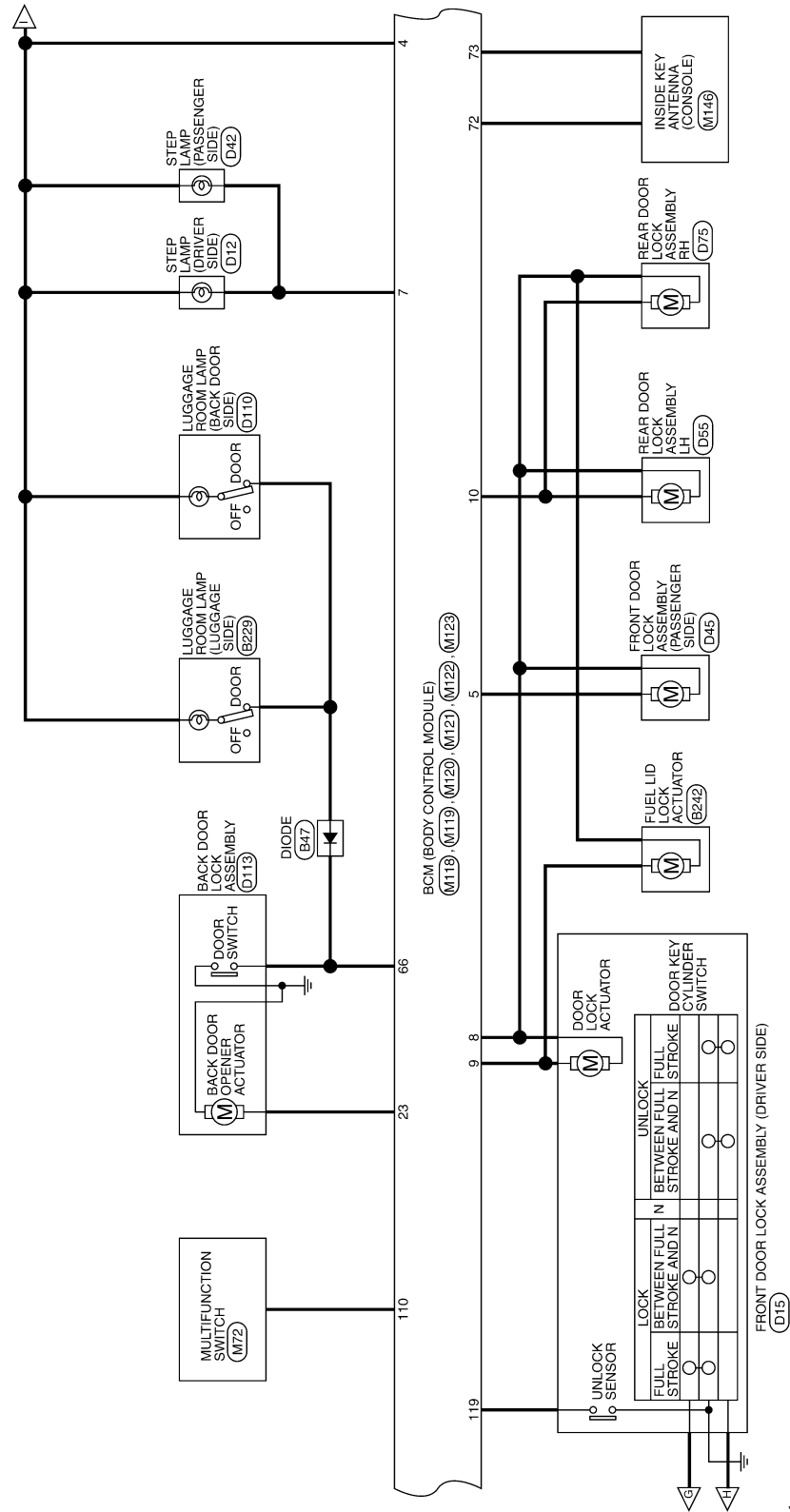
JRMW13748GB

WCS

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

# BCM (BODY CONTROL MODULE)

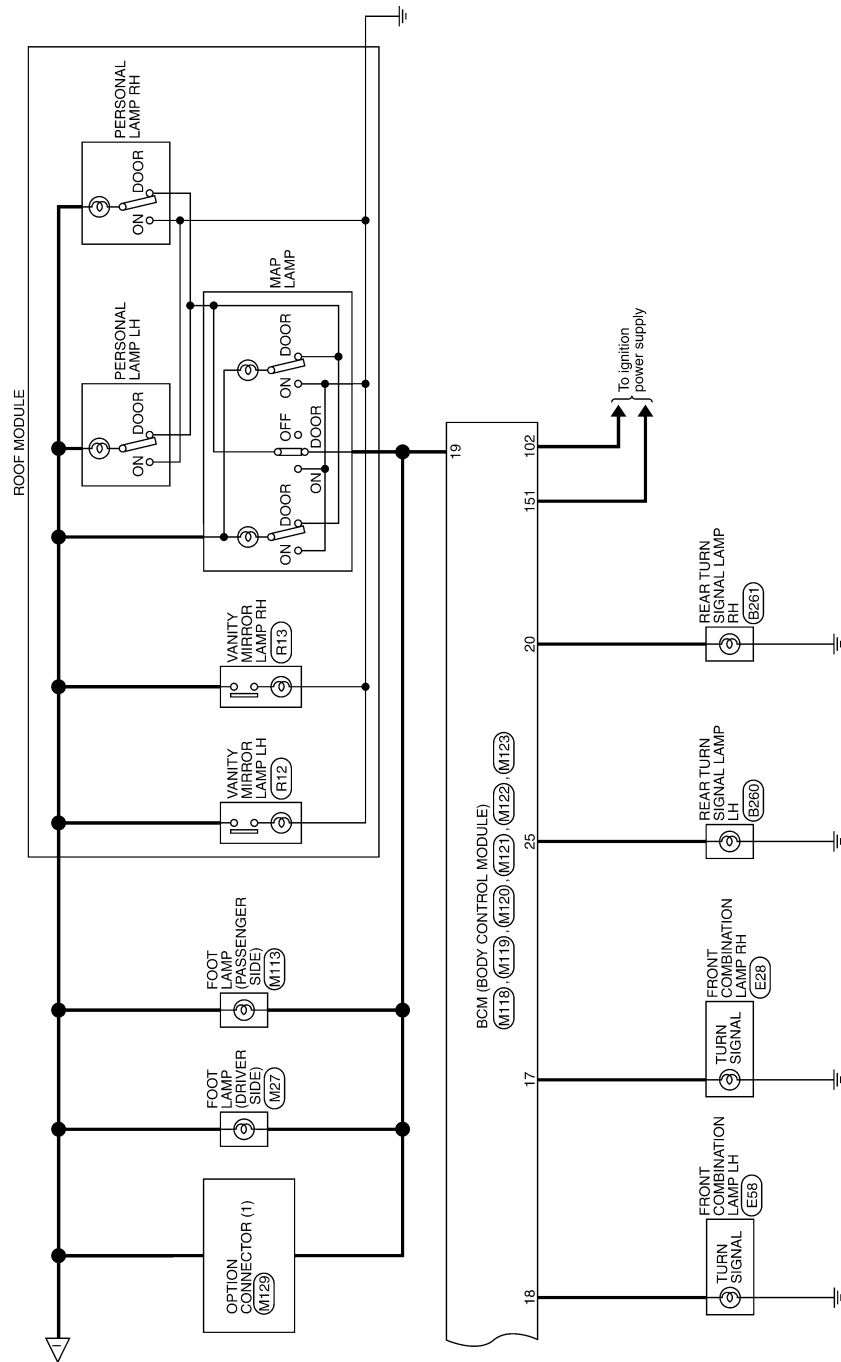
< ECU DIAGNOSIS INFORMATION >



JRMW13749GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >



JRMWI3750GB

WCS

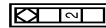
A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
O  
P

# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

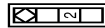
## BCM (BODY CONTROL MODULE)

Connector No.	B16
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW



Terminal No.	2
Color Of Wire	V
Signal Name [Specification]	-

Connector No.	B23
Connector Name	REAR DOOR SWITCH LH
Connector Type	A03FW



Terminal No.	2
Color Of Wire	LG
Signal Name [Specification]	-

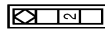
Connector No.	B47
Connector Name	DIODE
Connector Type	Z1335_C9900



Terminal No.	1
Color Of Wire	B
Signal Name [Specification]	-

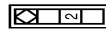


Connector No.	B21B
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW



Terminal No.	2
Color Of Wire	L
Signal Name [Specification]	-

Connector No.	B223
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW



Terminal No.	2
Color Of Wire	BR
Signal Name [Specification]	-

Connector No.	B22B
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	RK02FCY



Terminal No.	1
Color Of Wire	V
Signal Name [Specification]	-

Connector No.	B229
Connector Name	LUGGAGE ROOM LAMP (LUGGAGE SIDE)
Connector Type	TN03FW



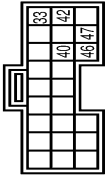
Terminal No.	1
Color Of Wire	GR
Signal Name [Specification]	-

Connector No.	B242
Connector Name	FUEL LID LOCK ACTUATOR
Connector Type	M04FW-LC



Terminal No.	1
Color Of Wire	R
Signal Name [Specification]	-

Connector No.	B249
Connector Name	EBRAKE BOOSTER CONTROL UNIT
Connector Type	TK24FCY



Terminal No.	33
Color Of Wire	BR
Signal Name [Specification]	IGNITION
40	SB
Signal Name [Specification]	IBA OFF SW
42	G
Signal Name [Specification]	IGNITION
46	B
Signal Name [Specification]	GROUND
47	V
Signal Name [Specification]	BRAKE HOLD RLY DRIVE SIGNAL

JRMW13751GB



# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

## BCM (BODY CONTROL MODULE)

Connector No.	B260
Connector Name	REAR TURN SIGNAL LAMP LH
Connector Type	HS02FG-W



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-

Connector No.	B261
Connector Name	REAR TURN SIGNAL LAMP RH
Connector Type	HS02FG-W



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	B	-

Connector No.	B414
Connector Name	POWER SEAT SWITCH
Connector Type	NS10FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	B	-
3	G/Y	-
4	P	-
5	W	-
6	V	-
7	L/Y	-
8	L	-
9	L/R	-
10	G/W	-

Connector No.	B414
Connector Name	POWER SEAT SWITCH
Connector Type	NS10FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	B	-
3	G/Y	-
4	P	-
5	W	-
6	V	-
7	L/Y	-
8	L	-
9	L/R	-
10	G/W	-

Connector No.	B451
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	TH32FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	CAN-H
2	O	LIART (TX/RX)
3	BR	-
4	P	PULSE (RECLINER)
5	SB	PULSE/TELESCOPIC
6	W	ADDRESS 2
7	G	IND 2
8	-	SLIDE SW (BACKWARD)
9	-	RECLINER SW (BACKWARD)
10	-	FRONT LIFTER SW (DOWNWARD)
11	-	REAR LIFTER SW (DOWNWARD)
12	-	POWER SUPPLY (ENCODER)
13	-	PULSE (RECLINER)
14	-	PULSE (FRONT LIFTER)
15	-	PULSE (REAR LIFTER)
16	-	PULSE (SET SW)
17	-	ADDRESS 1
18	-	IND 1
19	-	SLIDE SW (FORWARD)
20	-	RECLINER SW (FORWARD)
21	-	FRONT LIFTER SW (UPWARD)
22	-	REAR LIFTER SW (UPWARD)
23	-	SET SW

Connector No.	B3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH24MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	O	-
3	BR	COMP
4	P	COMP
5	SB	ON
6	W	-
7	G	-
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-
21	-	-
22	-	-
23	-	-
24	-	-

Connector No.	B8
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS18FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	REAR POWER WINDOW MOTOR LH UP SIGNAL
2	BR	ENCODER GROUND
3	GR	REAR POWER WINDOW MOTOR LH DOWN SIGNAL

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

### BCM (BODY CONTROL MODULE)

4	V	DOOR KEY CYLINDER SWITCH LH LOCK SIGNAL
5	O	REAR POWER WINDOW MOTOR RH DOWN SIGNAL
6	Y	DOOR KEY CYLINDER SWITCH LH UNLOCK SIGNAL
7	BR	REAR POWER WINDOW MOTOR RH UP SIGNAL
8	L	FRONT POWER WINDOW MOTOR DRIVER SIDE UP SIGNAL
9	O	ENCODER PULSE 2
10	Y	RETAINED POWER SIGNAL
11	G	FRONT POWER WINDOW MOTOR DRIVER SIDE DOWN SIGNAL
13	P	ENCODER PULSE 1
14	V	POWER WINDOW SERIAL LINK
15	B	ENCODER POWER SUPPLY

Connector No.	D9
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS03FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
17	B	GROUND
19	W	BATTERY POWER SUPPLY

Connector No.	D12
Connector Name	STEP LAMP (DRIVER SIDE)
Connector Type	TB02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	SB	-

Connector No.	D13
Connector Name	FRONT OUTSIDE HANDLE LH (REQUEST SWITCH)
Connector Type	RK02FL



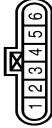
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	B	-

Connector No.	D14
Connector Name	FRONT OUTSIDE HANDLE LH (OUTSIDE KEY ANTENNA)
Connector Type	RK02MGY



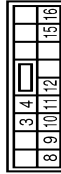
Terminal No.	Color Of Wire	Signal Name [Specification]
1	O	-
2	SB	-

Connector No.	D15
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	ED05GY-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	P	-
3	L	-
4	B	-
5	Y	-
6	V	-

Connector No.	D38
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS15PW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
3	L	ENCODER GROUND
4	O	ENCODER POWER SUPPLY
8	W	POWER WINDOW MOTOR UP SIGNAL
9	G	POWER WINDOW MOTOR DOWN SIGNAL
10	W	BATTERY POWER SUPPLY
11	B	GROUND
12	R	ENCODER PULSE 1
15	O	ENCODER PULSE 2
16	V	POWER WINDOW SERIAL LINK

Connector No.	D42
Connector Name	STEP LAMP (PASSENGER SIDE)
Connector Type	TB02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	SB	-

Connector No.	D43
Connector Name	FRONT OUTSIDE HANDLE RH (REQUEST SWITCH)
Connector Type	RK02FL



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	B	-

JRMW13753GB

# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

## BCM (BODY CONTROL MODULE)

Connector No.	D44
Connector Name	FRONT OUTSIDE HANDLE RH (OUTSIDE KEY ANTENNA)
Connector Type	RM02ZMGY



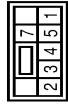
Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	V	-

Connector No.	D45
Connector Name	FRONT DOOR LOCK ASSEMBLY PASSENGER SIDE
Connector Type	E06FGY-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	LG	-

Connector No.	D54
Connector Name	REAR POWER WINDOW SWITCH LH
Connector Type	NS08FW-CS



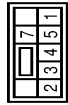
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	V	-
3	G	-
4	L	-
5	W	-
7	B	-

Connector No.	D55
Connector Name	REAR DOOR LOCK ASSEMBLY LH
Connector Type	E06FGY-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	G	-

Connector No.	D74
Connector Name	REAR POWER WINDOW SWITCH RH
Connector Type	NS08FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	V	-
3	G	-
4	P	-
5	O	-
7	B	-

Connector No.	D75
Connector Name	REAR DOOR LOCK ASSEMBLY RH
Connector Type	E06FGY-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	V	-

Connector No.	D110
Connector Name	LUGGAGE ROOM LAMP (BACK DOOR SIDE)
Connector Type	TK03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	P	-

Connector No.	D113
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	B	-
3	V	-
4	B	-

JRMW13754GB

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

WCS

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

### BCM (BODY CONTROL MODULE)

Connector No.	DT14
Connector Name	BACK DOOR OPENER SWITCH
Connector Type	TH02MBR-P



Connector No.	DT16
Connector Name	BACK DOOR OPENER REQUEST SWITCH
Connector Type	TH02MBR-P



Connector No.	E5
Connector Name	SPM L R INTELLIGENT POWER DISTRIBUTION MODULE ENGINE (ROOM)
Connector Type	TH20FW-CS12-M4-IV



46	R	-
----	---	---



Connector No.	E28
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	RS08FE-PR

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

Connector No.	DT15
Connector Name	REAR WIPER MOTOR
Connector Type	CJ04FW-IV



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	B	-

Connector No.	DT18
Connector Name	OUTSIDE KEY ANTENNA (BACK DOOR)
Connector Type	RM02FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
4	V	-
5	L	-
6	R	-
7	R	-
12	B/W	-
13	Y	-
16	LG	-
19	W	-
25	G	-
26	R	-
27	BG	-
28	LG	-
30	GR	-
38	G	-

Terminal No.	Color Of Wire	Signal Name [Specification]
2	G	-
3	O	-
4	B	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	R	-

Connector No.	E6
Connector Name	SPM L R INTELLIGENT POWER DISTRIBUTION MODULE ENGINE (ROOM)
Connector Type	TH06PW-NH



Connector No.	E41
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	BA442FB-AH24-LH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	G	UBVR
3	R	UBVR
4	B	GROUND
5	Y	DS FL
6	BG	DP RL
7	BR	DP RL
9	B	DP FR
10	W	DS FR
12	L	VAC

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

JRMW13755GB

# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

## BCM (BODY CONTROL MODULE)

Connector No.	ES7
Connector Name	INTELLIGENT KEY WARNING BUZZER ENGINE ROOM
Connector Type	RM03FBR



Connector No.	ES9
Connector Name	IGCC BRAKE HOLD RELAY
Connector Type	M00FGV-R-US



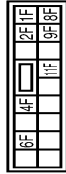
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
3	V	-

Connector No.	ES8
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	RS08FB-PR



Terminal No.	Color Of Wire	Signal Name [Specification]
2	B	-
3	B/Y	-
4	B/W	-
5	V	-
6	G	-
7	P	-
8	B/G	-

Connector No.	E103
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS18FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
11F	W	-
1F	SB	-
2F	W	-
4F	G	-
6F	BR	-
8F	L	-
9F	R	-

Connector No.	E110
Connector Name	STOP LAMP SWITCH
Connector Type	M04FW-LG



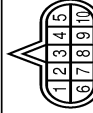
Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	Y	-
4	SB	-

Connector No.	ES1
Connector Name	A/T ASSEMBLY
Connector Type	FK10FC-DGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	IGNITION POWER SUPPLY
2	BR	BATTERY POWER SUPPLY
3	O	CAN-H
4	V	K-LINE
5	B	GROUND
6	Y	IGNITION POWER SUPPLY
7	R	BACK-UP LAMP RELAY
8	LG	CAN-L
9	GR	STARTER RELAY
10	B	GROUND

Connector No.	E301
Connector Name	TCM
Connector Type	SP10FG



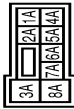
Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	IGNITION POWER SUPPLY
2	-	BATTERY POWER SUPPLY
3	-	CAN-H
4	-	K-LINE
5	-	GROUND
6	-	IGNITION POWER SUPPLY
7	-	BACK-UP LAMP RELAY
8	-	CAN-L
9	-	STARTER RELAY
10	-	GROUND

# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

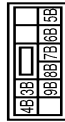
## BCM (BODY CONTROL MODULE)

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2



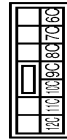
Terminal No.	Color Of Wire	Signal Name [Specification]
1A	Y	-
2A	G	-
3A	L	-
4A	R	-
5A	V	-
6A	Y	-
7A	R	-
8A	L	-

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
3B	P	-
4B	G	-
5B	Y	-
6B	Y	-
7B	P	-
8B	R	-
9B	SB	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



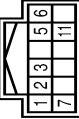
Terminal No.	Color Of Wire	Signal Name [Specification]
10C	L	-
11C	R	-
12C	BG	-
6C	R	-
7C	B	-
8C	G	-
9C	BG	-

Connector No.	M9
Connector Name	DIODE
Connector Type	2435 G3600



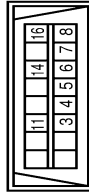
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	W	-

Connector No.	M22
Connector Name	KEY SLOT
Connector Type	TH12FW-NH



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

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD18FW



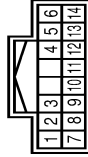
Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	-
4	B	-
5	Y	-
6	B	-
7	V	-
8	B	-
9	Y	-
10	V	-
11	G	-
16	Y	-

Connector No.	M27
Connector Name	FOOT LAMP (DRIVER SIDE)
Connector Type	A02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	BR	-

Connector No.	M33
Connector Name	COMBINATION SWITCH
Connector Type	TH18FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	FR WASHER(-)
2	SB	OUTPUT 4
3	GR	FR WASHER(+)
4	G	IGN
5	L	OUTPUT 3
6	B	GROUND
7	V	INPUT 3
8	BG	OUTPUT 5
9	Y	INPUT 2
10	R	INPUT 4
11	LG	INPUT 1
12	P	OUTPUT 1
13	BR	INPUT 5
14	G	OUTPUT 2

# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

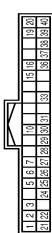
## BCM (BODY CONTROL MODULE)

Connector No.	M50
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK08FBR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	W	-
3	W	-
4	BR	-
5	GR	-
6	Y	-
7	V	-
8	P	-

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TK40FPH-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	BATTERY POWER SUPPLY
2	LG	COMMUNICATION SIGNAL (METER->AMP)
3	GR	COMMUNICATION SIGNAL (AMP->METER)
4	P	ALTERNATOR SIGNAL
5	W	AIR BAG SIGNAL
6	BR	SECURITY SIGNAL
7	GR	GROUND
8	B	METER CONTROL SWITCH GROUND
9	B	ILL GND
10	R	ILL
11	BG	IGNITION SIGNAL

22	B	GROUND
23	BR	COMMUNICATION SIGNAL (GDP->AMP)
24	Y	COMMUNICATION SIGNAL (AMP->LCD)
25	R	VEHICLE SPEED SIGNAL (8-PULSE)
26	V	PARKING BRAKE SWITCH SIGNAL
27	W	BRAKE FLUID LEVEL SWITCH SIGNAL
28	SB	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
29	G	SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)
30	L	WASHER LEVEL SWITCH SIGNAL
31	B	ILLUMINATION CONTROL SIGNAL
32	LG	SELECT SWITCH SIGNAL
33	W	ENTER SWITCH SIGNAL
34	C	TRIP A/B RESET SWITCH SIGNAL
35	P	ILLUMINATION CONTROL SWITCH SIGNAL (C)
36	BG	ILLUMINATION CONTROL SWITCH SIGNAL (C)

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TK32FPH-NH

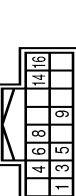


Terminal No.	Color Of Wire	Signal Name [Specification]
41	V	ACC POWER SUPPLY
42	Y	FUEL LEVEL SENSOR SIGNAL
43	R	INTAKE SENSOR SIGNAL
44	LG	IN-VEHICLE SENSOR SIGNAL
45	P	AMBIENT SENSOR SIGNAL
46	BG	SUNLOAD SENSOR SIGNAL
47	G	EXHAUST GAS / OUTSIDE COORDINATING SENSOR SIGNAL
53	G	IGNITION POWER SUPPLY
54	Y	BATTERY POWER SUPPLY
55	B	GROUND
56	W	BRAKE FLUID LEVEL SWITCH SIGNAL
57	BR	FUEL LEVEL SENSOR GROUND
58	GR	INTAKE SENSOR GROUND
59	L	IN-VEHICLE SENSOR GROUND
60	BR	AMBIENT SENSOR GROUND
61	SB	SUNLOAD SENSOR GROUND
62	R	-
63	BG	ECV SIGNAL

68	L	A/C CLAN SIGNAL
70	R	EACH DOOR MOTOR POWER SUPPLY
71	B	GROUND
72	P	CAN-L



Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TK10FPH-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
3	V	ACC
4	R	ILL
5	Y	ILL CONT
6	SB	AV COMM (H)
8	LG	AV COMM (L)
9	B	SV GND
14	Y	DISK MOTOR SIGNAL
16	G	HAZARD ON

Connector No.	M84
Connector Name	OPTICAL SENSOR
Connector Type	TK03FPH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	POWER
2	P	OUTPUT
3	B	GROUND

Connector No.	M101
Connector Name	TIRE PRESSURE RECEIVER
Connector Type	TK04FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	GROUND
2	L	SIGNAL
4	Y	BATTERY

Connector No.	M104
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	JAB04FB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	GROUND
2	Y	SIGNAL OUTPUT
4	LG	BATTERY

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

### BCM (BODY CONTROL MODULE)

Connector No.	M113
Connector Name	FOOT LAMP (PASSENGER SIDE)
Connector Type	A02FW



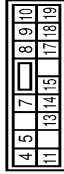
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	BR	-

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BAT (F/L)
2	W	POWER WINDOW POWER SUPPLY (BAT)
3	Y	POWER WINDOW POWER SUPPLY (VAP)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS1EFW-CS



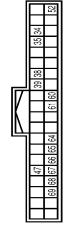
Terminal No.	Color Of Wire	Signal Name [Specification]
4	LG	INTERIOR ROOM LAMP POWER SUPPLY
5	LG	PASSENGER DOOR UNLOCK OUTPUT
7	Y	STEP LAMP CONT
8	V	ALL DOOR FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR FUEL LID UNLOCK OUTPUT
10	BR	REAR DOOR UNLOCK OUTPUT
11	R	BAT (FUSE)
13	B	GROUND
14	W	PUSH-BUTTON IGNITION SW ILL GND
15	Y	ACC IND
17	W	TURN SIGNAL RH (FRONT)
18	BG	TURN SIGNAL LH (FRONT)
19	V	INT ROOM LAMP CONT

Connector No.	M120
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS12FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
20	V	TURN SIGNAL RH (REAR)
23	G	BACK DOOR OPEN OUTPUT
25	G	TURN SIGNAL LH (REAR)
26	G	REAR WIPER OUTPUT

Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FCY-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
34	SB	LUGGAGE ROOM ANT-
35	V	LUGGAGE ROOM ANT+
38	B	BACK DOOR ANT-
39	W	BACK DOOR ANT+
47	Y	IGN RELAY (PDM E/R) CONT
52	SB	STARTER RELAY CONT
60	BR	PUSH SW
61	W	BACK DOOR OPENER REQUEST SW
64	V	I-KEY WARN BUZZER (ENG ROOM)
65	BG	REAR WIPER STOP POSITION
66	R	BACK DOOR SW
67	GR	BACK DOOR OPENER SW
68	BR	REAR LAMP SW
69	R	REAR LH DOOR SW

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FE-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
72	R	ROOM ANT2 -
73	G	ROOM ANT2 +
74	SB	PASSENGER DOOR ANT-
75	GR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+

78	Y	ROOM ANT1-
79	BR	ROOM ANT1+
80	GR	NATS ANT AMP
81	W	NATS ANT AMP
82	R	IGN RELAY (F/B) CONT
83	Y	KEYLESS ENTRY RECEIVER COMM
87	BR	COMBI SW INPUT 5
88	V	COMBI SW INPUT 3
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL CONT
93	V	IGN IND
94	Y	PURGE RELAY CONT
95	BG	ACC RELAY CONT
96	GR	A/T SHIFT SELECTOR POWER SUPPLY
99	R	SHIFT P
100	G	PASSENGER DOOR REQUEST SW
101	SB	DRIVER DOOR REQUEST SW
102	BG	BLOWER FAN MOTOR RELAY CONT
103	LG	KEYLESS ENTRY RECEIVER POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	Y	COMBI SW INPUT 2
110	G	HAZARD SW

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FC-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
116	SB	OPTICAL SENSOR
118	P	STOP LAMP SW 1
119	SB	STOP LAMP SW 2
121	SB	DR DOOR UNLOCK SENSOR
123	W	IGN F/B
124	LG	PASSENGER DOOR SW
132	BR	POWER WINDOW SW COMM
133	W	PUSH-BUTTON IGNITION SW ILL POWER
134	GR	LOCK IND



# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

### BCM (BODY CONTROL MODULE)

137	BG	RECEIVER SENSOR GND
138	Y	RECEIVER SENSOR POWER SUPPLY
139	L	TIRE PRESSURE RECEIVER COMM
140	GR	SHIFT N/P
141	G	SECURITY IND LAMP GND
142	BG	COMBI SW OUTPUT 5
143	P	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
150	LG	DRIVER DOOR SW
151	G	REAR WINDOW DEFOGGER RELAY GND

Connector No.	M129
Connector Name	OPTION CONNECTOR (1)
Connector Type	TH408MW-NH



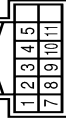
Terminal No.	Color Of Wire	Signal Name [Specification]
3	G	-
6	R	-

Connector No.	M131
Connector Name	INSIDE KEY ANTENNA INSTRUMENT CENTER
Connector Type	RK02FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	Y	-

Connector No.	M137
Connector Name	A/T SHIFT SELECTOR
Connector Type	TH12FW-NH



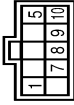
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	V	-
3	L	-
4	B	-
5	G	-
7	R	-
8	SB	-
9	B	-
10	GR	-
11	R	-

Connector No.	M146
Connector Name	INSIDE KEY ANTENNA (CONSOLE)
Connector Type	RK02FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	R4
Connector Name	SUNROOF MOTOR ASSEMBLY
Connector Type	YEA10FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	SUNROOF CLOSE SWITCH (RTD) SIGNAL
5	P	SUNROOF OPEN SWITCH (RTD) SIGNAL
7	BR	SUNROOF POWER SUPPLY
8	L	VEHICLE SPEED SENSOR (2PULSE)
9	Y	RAP SIGNAL
10	G	GROUND

Connector No.	R12
Connector Name	VANITY MIRROR LAMP LH
Connector Type	MCA02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	-
2	-	-

Connector No.	R13
Connector Name	VANITY MIRROR LAMP RH
Connector Type	MCA02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	-
2	-	-

## Fail-safe

### FAIL-SAFE CONTROL BY DTC

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

JRMWI3760GB

INFOID:0000000012780100

## 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 (Battery voltage)</li> <li>Ignition ON signal (CAN to IPDM E/R): OFF (Request signal)</li> <li>Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)</li> </ul>
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions are fulfilled <ul style="list-style-type: none"> <li>Power position changes to ACC</li> <li>Receives engine status signal (CAN)</li> </ul>
B2617: STARTER RELAY CIRC	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

### REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper stop position signal.

When the rear wiper stop position signal does not change for more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation

1. More than 1 minute is passed after the rear wiper stops.
2. Turn rear wiper switch OFF.
3. Operate the rear wiper switch or rear washer switch.

### DTC Inspection Priority Chart

INFOID:0000000012780101

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 CIRCUIT</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>

# BCM (BODY CONTROL MODULE)

## < ECU DIAGNOSIS INFORMATION >

Priority	DTC	
4	• B2553: IGNITION RELAY	A
	• B2555: STOP LAMP	
	• B2556: PUSH-BTN IGN SW	
	• B2557: VEHICLE SPEED	B
	• B2560: STARTER CONT RELAY	
	• B2601: SHIFT POSITION	
	• B2602: SHIFT POSITION	
	• B2603: SHIFT POSI STATUS	C
	• B2604: PNP SW	
	• B2605: PNP SW	
	• B2608: STARTER RELAY	
	• B260A: IGNITION RELAY	D
	• B260F: ENG STATE SIG LOST	
	• B2614: ACC RELAY CIRC	
	• B2615: BLOWER RELAY CIRC	
	• B2616: IGN RELAY CIRC	E
	• B2617: STARTER RELAY CIRC	
	• B2618: BCM	
	• B261A: PUSH-BTN IGN SW	F
	• B261E: VEHICLE TYPE	
	• B26EA: KEY REGISTRATION	
	• C1729: VHCL SPEED SIG ERR	
	• U0415: VEHICLE SPEED SIG	G
5	• C1704: LOW PRESSURE FL	
	• C1705: LOW PRESSURE FR	
	• C1706: LOW PRESSURE RR	
	• C1707: LOW PRESSURE RL	H
	• C1708: [NO DATA] FL	
	• C1709: [NO DATA] FR	
	• C1710: [NO DATA] RR	
	• C1711: [NO DATA] RL	I
	• C1716: [PRESSDATA ERR] FL	
	• C1717: [PRESSDATA ERR] FR	
	• C1718: [PRESSDATA ERR] RR	J
	• C1719: [PRESSDATA ERR] RL	
	• C1734: CONTROL UNIT	
6	• B2621: INSIDE ANTENNA	K
	• B2622: INSIDE ANTENNA	
	• B2623: INSIDE ANTENNA	

## DTC Index

INFOID:0000000012780102

### 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-18. "COMMON ITEM : CONSULT Function \(BCM - COMMON ITEM\)"](#).

WCS

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 CIRCUIT	—	—	—	—	<a href="#">BCS-41</a>
U1010: CONTROL UNIT (CAN)	—	—	—	—	<a href="#">BCS-42</a>
U0415: VEHICLE SPEED SIG	—	—	—	—	<a href="#">BCS-43</a>
B2190: NATS ANTENNA AMP	×	—	—	—	<a href="#">SEC-40</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-43</a>
B2192: ID DISCORD BCM-ECM	×	—	—	—	<a href="#">SEC-44</a>
B2193: CHAIN OF BCM-ECM	×	—	—	—	<a href="#">SEC-45</a>
B2195: ANTI SCANNING	×	—	—	—	<a href="#">SEC-46</a>
B2553: IGNITION RELAY	—	×	—	—	<a href="#">PCS-52</a>
B2555: STOP LAMP	—	×	—	—	<a href="#">SEC-47</a>
B2556: PUSH-BTN IGN SW	—	×	×	—	<a href="#">SEC-49</a>
B2557: VEHICLE SPEED	×	×	×	—	<a href="#">SEC-51</a>
B2560: STARTER CONT RELAY	×	×	×	—	<a href="#">SEC-52</a>
B2562: LOW VOLTAGE	—	×	—	—	<a href="#">BCS-44</a>
B2601: SHIFT POSITION	×	×	×	—	<a href="#">SEC-53</a>
B2602: SHIFT POSITION	×	×	×	—	<a href="#">SEC-56</a>
B2603: SHIFT POSI STATUS	×	×	×	—	<a href="#">SEC-59</a>
B2604: PNP SW	×	×	×	—	<a href="#">SEC-62</a>
B2605: PNP SW	×	×	×	—	<a href="#">SEC-64</a>
B2608: STARTER RELAY	×	×	×	—	<a href="#">SEC-66</a>
B260A: IGNITION RELAY	×	×	×	—	<a href="#">PCS-54</a>
B260F: ENG STATE SIG LOST	×	×	×	—	<a href="#">SEC-68</a>
B2614: ACC RELAY CIRC	—	×	×	—	<a href="#">PCS-56</a>
B2615: BLOWER RELAY CIRC	—	×	×	—	<a href="#">PCS-59</a>
B2616: IGN RELAY CIRC	—	×	×	—	<a href="#">PCS-62</a>
B2617: STARTER RELAY CIRC	×	×	×	—	<a href="#">SEC-71</a>
B2618: BCM	×	×	×	—	<a href="#">PCS-65</a>
B261A: PUSH-BTN IGN SW	—	×	×	—	<a href="#">SEC-73</a>
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	—	<a href="#">SEC-76</a>
B2621: INSIDE ANTENNA	—	×	—	—	<a href="#">DLK-58</a>
B2622: INSIDE ANTENNA	—	×	—	—	<a href="#">DLK-60</a>
B2623: INSIDE ANTENNA	—	×	—	—	<a href="#">DLK-62</a>
B26E1: ENG STATE NO RES	×	×	×	—	<a href="#">SEC-69</a>
B26EA: KEY REGISTRATION	—	×	× (Turn ON for 15 seconds)	—	<a href="#">SEC-70</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	—	—	—	×	

# 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
C1716: [PRESSDATA ERR] FL	—	—	—	×	<a href="#">WT-30</a>
C1717: [PRESSDATA ERR] FR	—	—	—	×	
C1718: [PRESSDATA ERR] RR	—	—	—	×	
C1719: [PRESSDATA ERR] RL	—	—	—	×	
C1729: VHCL SPEED SIG ERR	—	—	—	×	<a href="#">WT-32</a>
C1734: CONTROL UNIT	—	—	—	×	<a href="#">WT-34</a>

A

B

C

D

E

F

G

H

I

J

K

L

M

WCS

O

P

# 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:0000000012171576

- 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 is applied.

#### Diagnosis Procedure

INFOID:0000000012171577

#### 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 is applied	: ON
Parking brake is released	: OFF

##### Is the inspection result normal?

- YES >> Replace 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-64, "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-64, "Component Inspection"](#).

##### Is the inspection result normal?

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

# THE LIGHT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

## THE LIGHT REMINDER WARNING DOES NOT SOUND

### Description

INFOID:0000000012171578

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

### Diagnosis Procedure

INFOID:0000000012171579

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

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

Do they operate normally?

YES >> GO TO 2.

NO >> Refer to [EXL-220, "Symptom Table"](#) (xenon type) or [EXL-419, "Symptom Table"](#) (halogen type).

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

Perform the check for the front door switch (driver side) signal circuit. Refer to [DLK-65, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-97, "Removal and Installation"](#).

NO >> Repair or replace malfunctioning parts.

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

WCS

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

< SYMPTOM DIAGNOSIS >

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

### Description

INFOID:0000000012171580

- 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:0000000012171581

#### 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 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 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. Refer to [WCS-25, "Component Inspection"](#).

Is the inspection result normal?

YES >> Replace combination meter.

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



# PRECAUTIONS

< PRECAUTION >

## PRECAUTION

### PRECAUTIONS

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

INFOID:000000012171582

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, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.
- Improper repair, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "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 or batteries, and wait at least 3 minutes before performing any service.

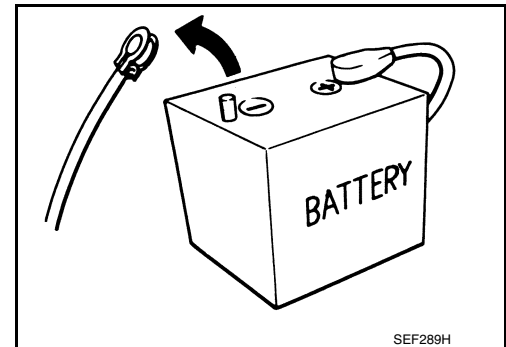
#### Precautions for Removing Battery Terminal

INFOID:000000012762375

When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.
- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:

BR08DE	: 4 minutes	YD25DDTi	: 2 minutes
D4D engine	: 20 minutes	YS23DDT	: 4 minutes
HRA2DDT	: 12 minutes	YS23DDTT	: 4 minutes
K9K engine	: 4 minutes	ZD30DDTi	: 60 seconds
M9R engine	: 4 minutes	ZD30DDTT	: 60 seconds
R9M engine	: 4 minutes		
V9X engine	: 4 minutes		



WCS

O

P

A

B

C

D

E

F

G

H

I

J

K

L

M

WCS

O

P

#### **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.

- After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.

#### **NOTE:**

## PRECAUTIONS

### < PRECAUTION >

---

- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
  - Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
  - Driving for 30 minutes or more on a steep slope.
- 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.