

SECTION **WCS**

WARNING CHIME SYSTEM

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

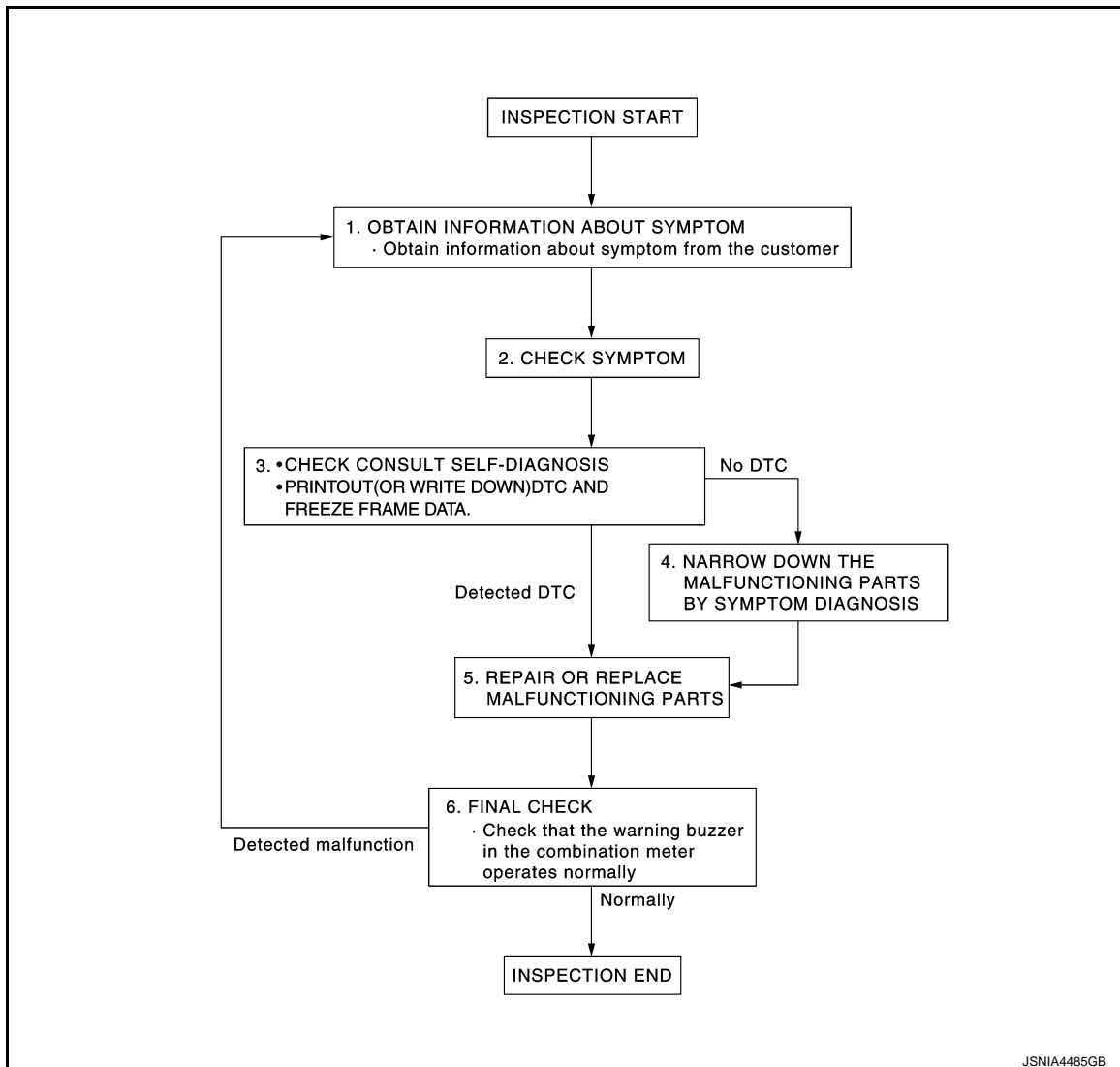
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000011488351

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 [WCS-53. "DTC Index"](#).

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 >

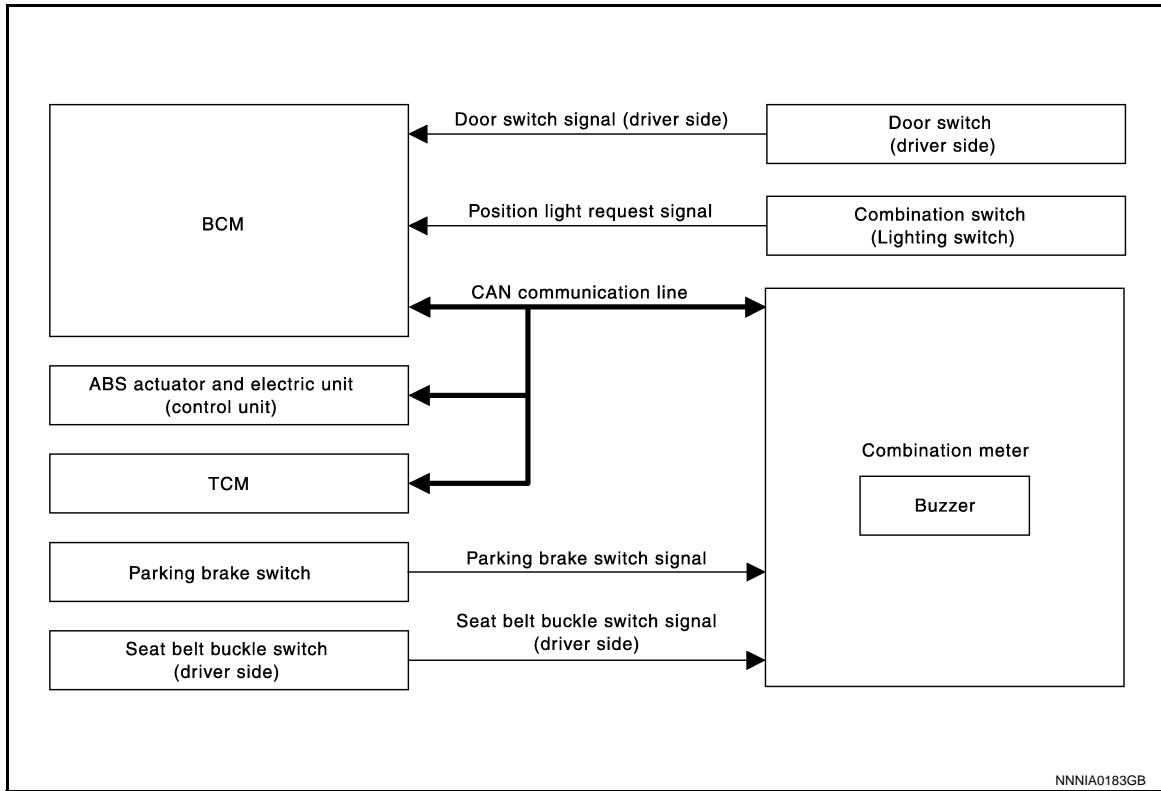
SYSTEM DESCRIPTION

WARNING CHIME SYSTEM

WARNING CHIME SYSTEM

WARNING CHIME SYSTEM : System Diagram

INFOID:000000011488352



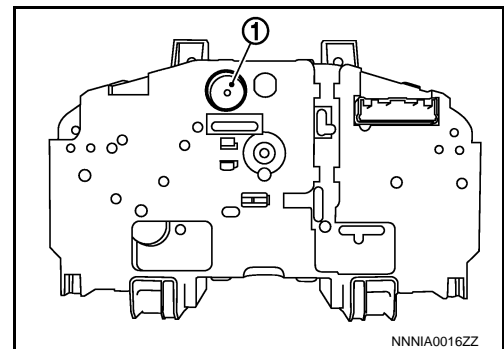
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WARNING CHIME SYSTEM : System Description

INFOID:000000011488353

COMBINATION METER

- The buzzer (1) for the warning chime system is integrated in the combination meter.
- The combination meter sounds the alarm buzzer installed in the combination meter when receiving the signal from various units and switches.



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BCM

BCM receives signals from various units and switches, and transmits the buzzer output signal to the combination meter via CAN communication 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"> • Position light request signal • Door switch signal (driver side)
Seat belt warning chime	Seat belt buckle switch signal (driver side)
Reverse warning chime	Shift position signal

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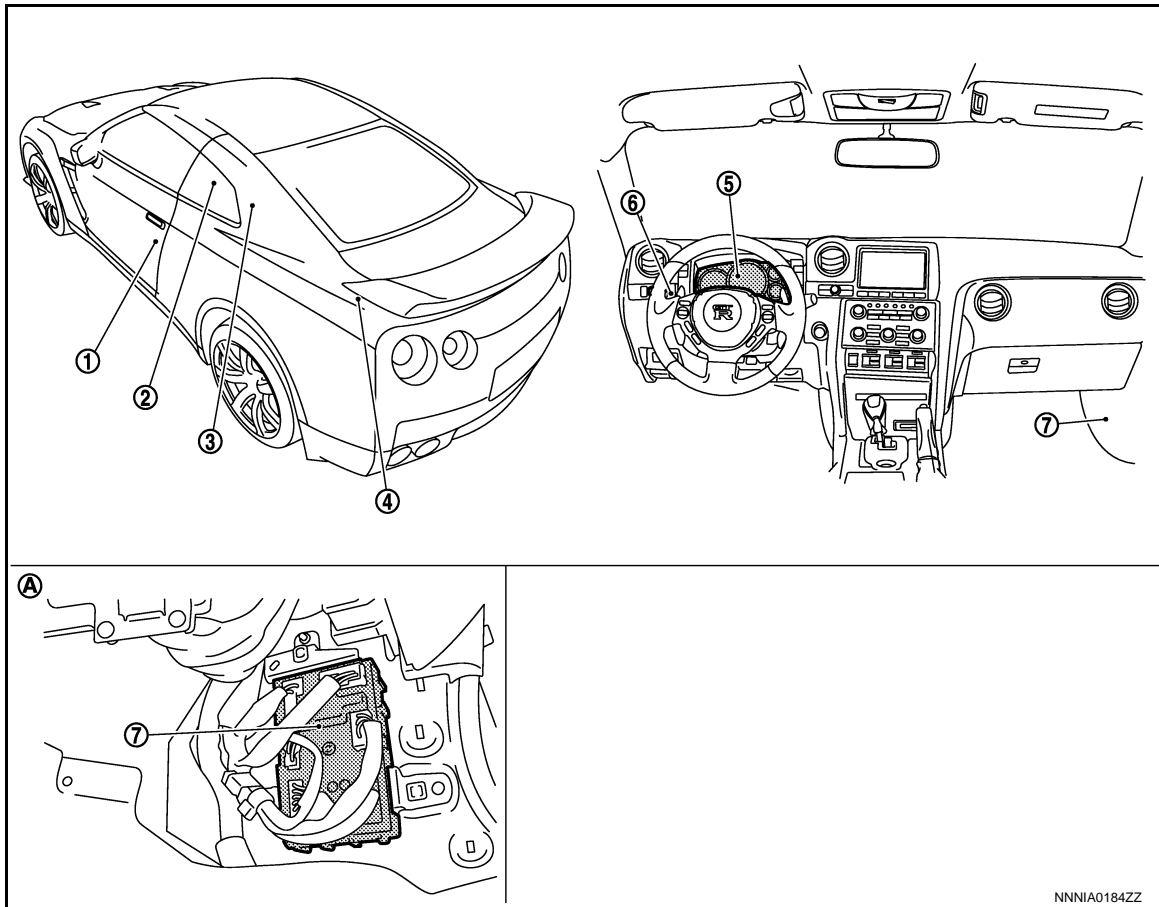
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WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

WARNING CHIME SYSTEM : Component Parts Location

INFOID:000000011488354



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|--------------------------------------------|------------------------------------------|-----------------------------------------|
| 1. Door switch (driver side) | 2. Seat belt buckle switch (driver side) | 3. Parking brake switch |
| 4. TCM | 5. Combination meter | 6. Combination switch (lighting switch) |
| 7. BCM | | |
| A. Lower part of passenger side dash-board | | |

WARNING CHIME SYSTEM : Component Description

INFOID:000000011488355

Unit	Description
Combination meter	<ul style="list-style-type: none"> • Receives the buzzer output signal from BCM via the CAN communication and sounds the buzzer. • Judges that the parking brake is still applied according to the vehicle speed signal received from the ABS actuator and electric unit (control unit) via CAN communication and the parking brake switch signal from the parking brake switch and sounds the warning buzzer. • Receives the vehicle speed signal from the ABS actuator and electric unit (control unit) and the seat belt buckle switch signal (driver side) from the seat belt buckle switch (driver side) and transmits them to BCM via CAN communication.
BCM	Based on the signals received from various units and switches, transmits the buzzer output signal to the combination meter via CAN communication.
TCM	Transmits the shift position signal to the BCM via CAN communication.
ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal to the combination meter via CAN communication.
Seat belt buckle switch (driver side)	Transmits the seat belt buckle switch signal (driver side) to the combination meter.
Combination switch (lighting switch)	Transmits the position light request signal to BCM.

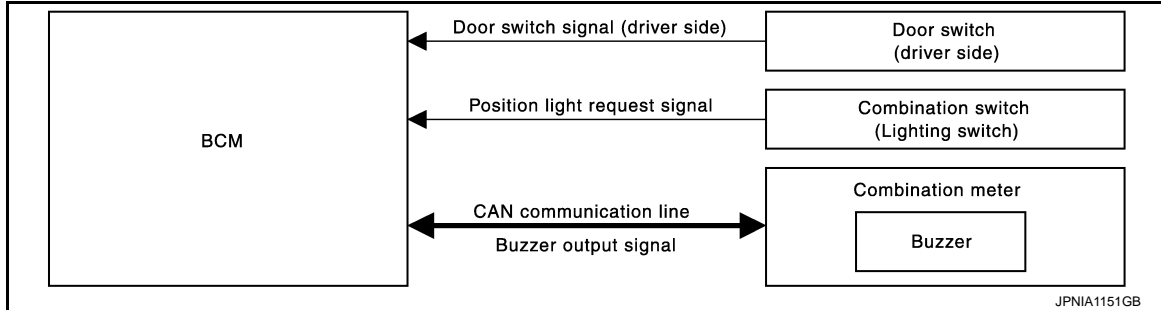
WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

Unit	Description
Door switch (driver side)	Transmits the door switch signal (driver side) to BCM.
Parking brake switch	Transmits the parking brake switch signal to the combination meter.

LIGHT REMINDER WARNING CHIME

LIGHT REMINDER WARNING CHIME : System Diagram



LIGHT REMINDER WARNING CHIME : System Description

INFOID:000000011488357

DESCRIPTION

With ignition switch in the OFF or ACC position, when the driver door is open and the lighting switch is the 1st or 2nd position, the light warning chime will sound.

- BCM detects ignition switch in the OFF or ACC position, door switch (driver side) ON, and lighting switch in 1st or 2nd position. Then the BCM transmits the buzzer output signal (light reminder warning chime) to combination meter with CAN communication line.
- When combination meter receives buzzer output signal (light reminder warning chime), it sounds the buzzer.

WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled.

- Ignition switch is in the OFF or ACC
- Lighting switch is in the 1st or 2nd position
- 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
- Door switch (driver side) is OFF

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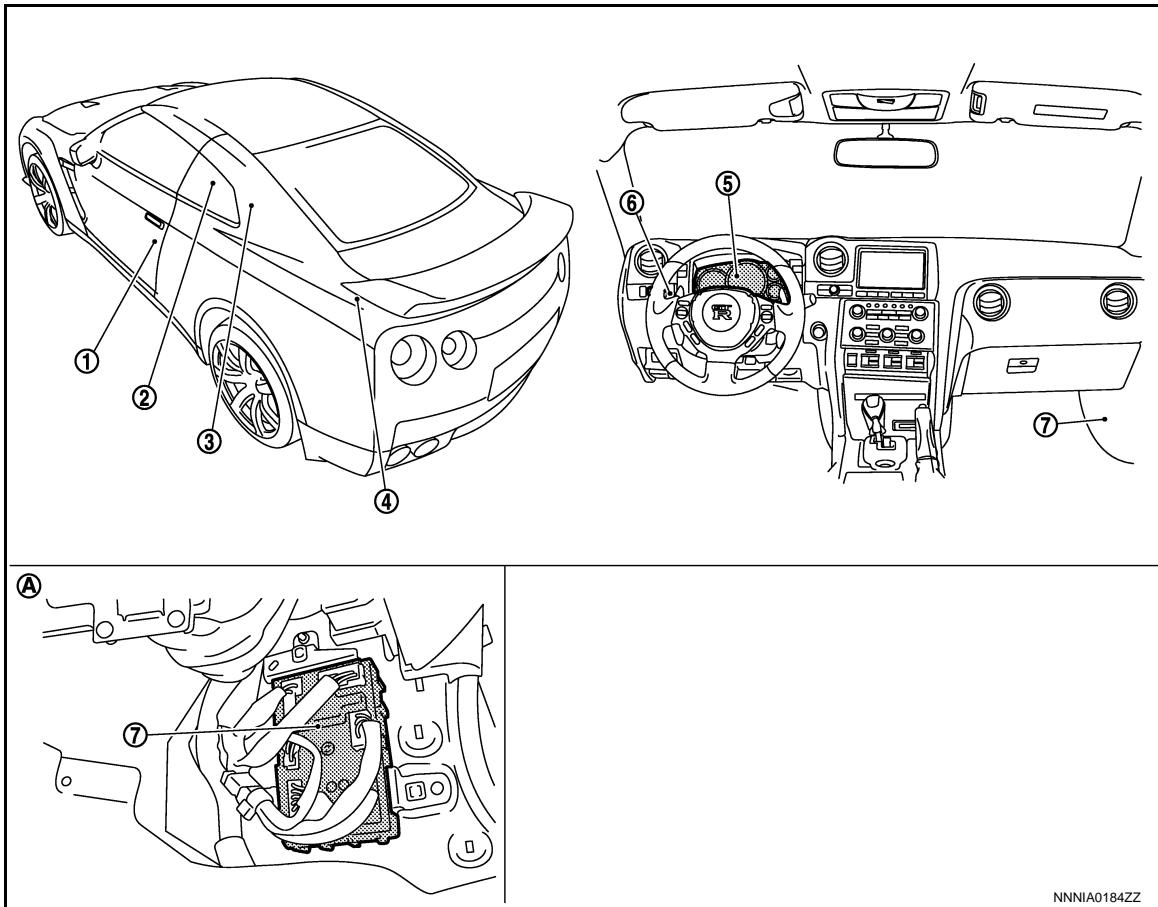
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WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

LIGHT REMINDER WARNING CHIME : Component Parts Location

INFOID:000000011488358



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|-------------------------------------------|------------------------------------------|-----------------------------------------|
| 1. Door switch (driver side) | 2. Seat belt buckle switch (driver side) | 3. Parking brake switch |
| 4. TCM | 5. Combination meter | 6. Combination switch (lighting switch) |
| 7. BCM | | |
| A. Lower part of passenger side dashboard | | |

LIGHT REMINDER WARNING CHIME : Component Description

INFOID:000000011488359

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

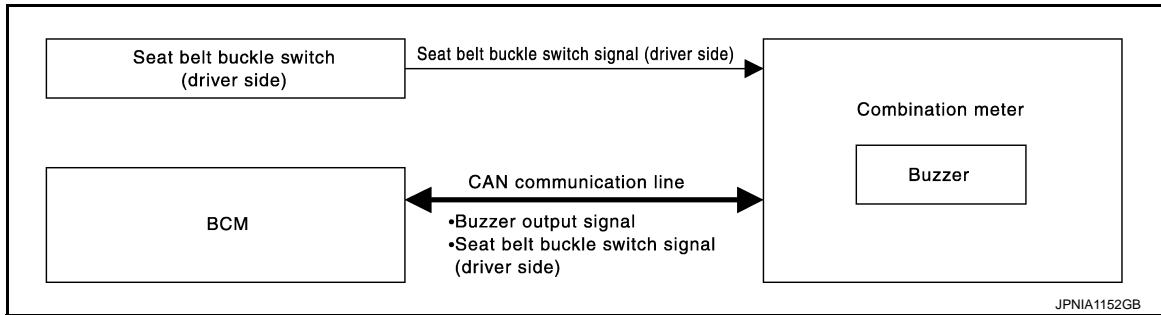
SEAT BELT WARNING CHIME

WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

SEAT BELT WARNING CHIME : System Diagram

INFOID:000000011488361



SEAT BELT WARNING CHIME : System Description

INFOID:000000011488361

DESCRIPTION

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

- The combination meter receives the seat belt buckle switch signal from seat belt buckle switch (driver side) and transmits it to the BCM via CAN communication.
- The BCM receives seat belt buckle switch signal from combination meter via CAN communication.
- The BCM detects seat belt reminder warning based on the received signal and transmits the buzzer output signal to combination meter via CAN communication.
- The combination meter receives the buzzer output signal from BCM via CAN communication and sounds the warning buzzer.

WARNING OPERATION CONDITIONS

If all of the following conditions are fulfilled, the warning buzzer will sound.

- 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 are fulfilled.

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

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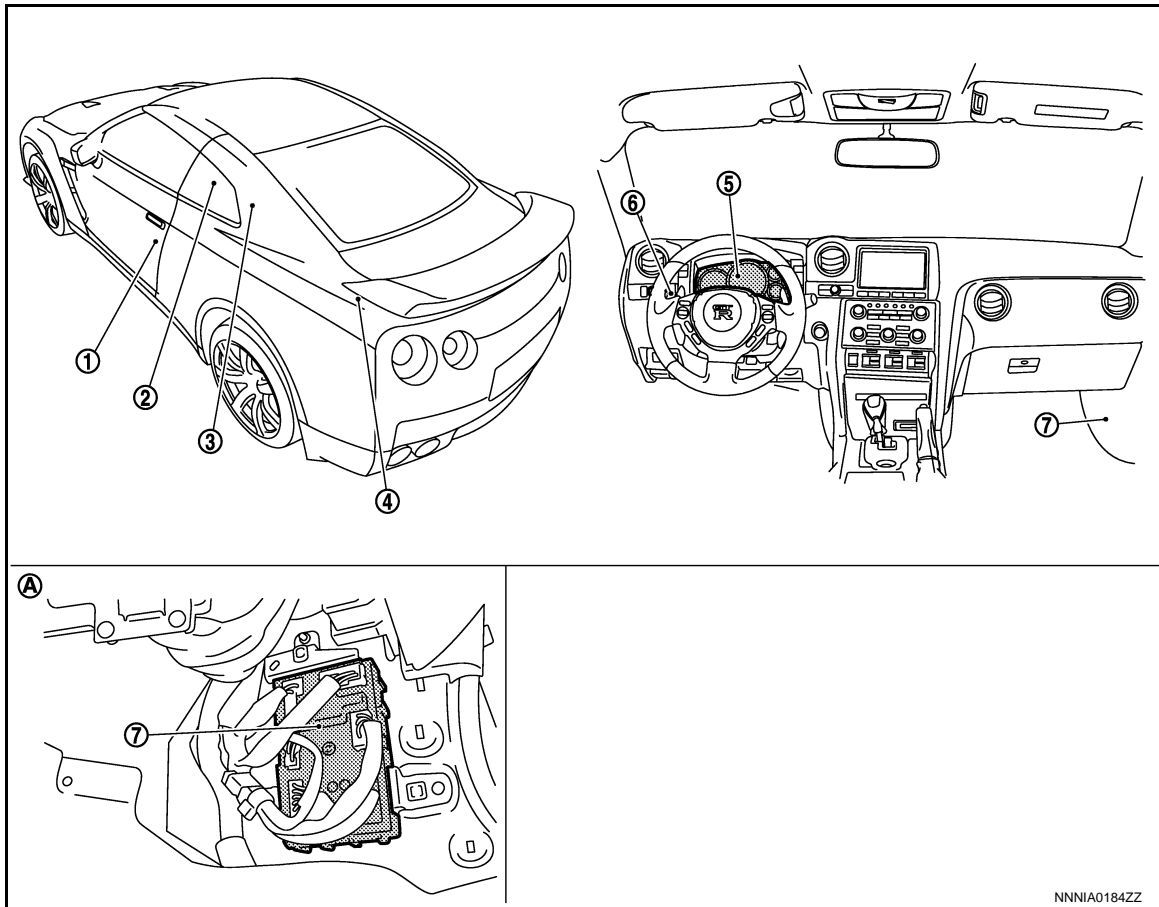
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WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

SEAT BELT WARNING CHIME : Component Parts Location

INFOID:000000011488362



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|-------------------------------------------|------------------------------------------|-----------------------------------------|
| 1. Door switch (driver side) | 2. Seat belt buckle switch (driver side) | 3. Parking brake switch |
| 4. TCM | 5. Combination meter | 6. Combination switch (lighting switch) |
| 7. BCM | | |
| A. Lower part of passenger side dashboard | | |

SEAT BELT WARNING CHIME : Component Description

INFOID:000000011488363

Unit	Description
Combination meter	<ul style="list-style-type: none"> Receives the seat belt buckle switch signal from the seat belt buckle switch and transmits it to BCM via CAN communication line. Receives a buzzer output signal from the BCM and sounds the buzzer.
BCM	Judges the seat belt warning condition according to the seat belt buckle switch signal received from the combination meter via CAN communication and transmits a buzzer output signal to the combination meter via CAN communication line if necessary.
Seat belt buckle switch (driver side)	Transmits the seat belt buckle switch signal to the combination meter.

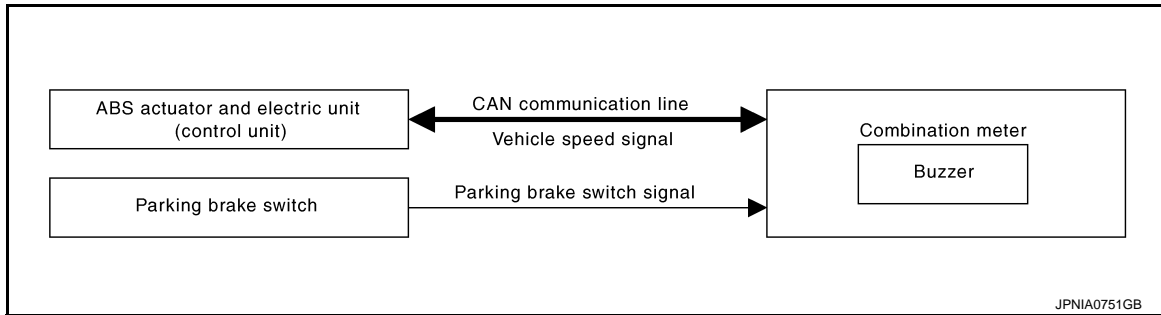
PARKING BRAKE RELEASE WARNING CHIME

WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

PARKING BRAKE RELEASE WARNING CHIME : System Diagram

INFOID:000000011488364



PARKING BRAKE RELEASE WARNING CHIME : System Description

INFOID:000000011488365

DESCRIPTION

Parking brake release warning chime judges the remaining parking brake according to the vehicle speed signal received from the ABS actuator and electric unit (control unit) via CAN communication and the parking brake switch signal from parking brake switch to sound the warning buzzer.

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 are fulfilled.

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

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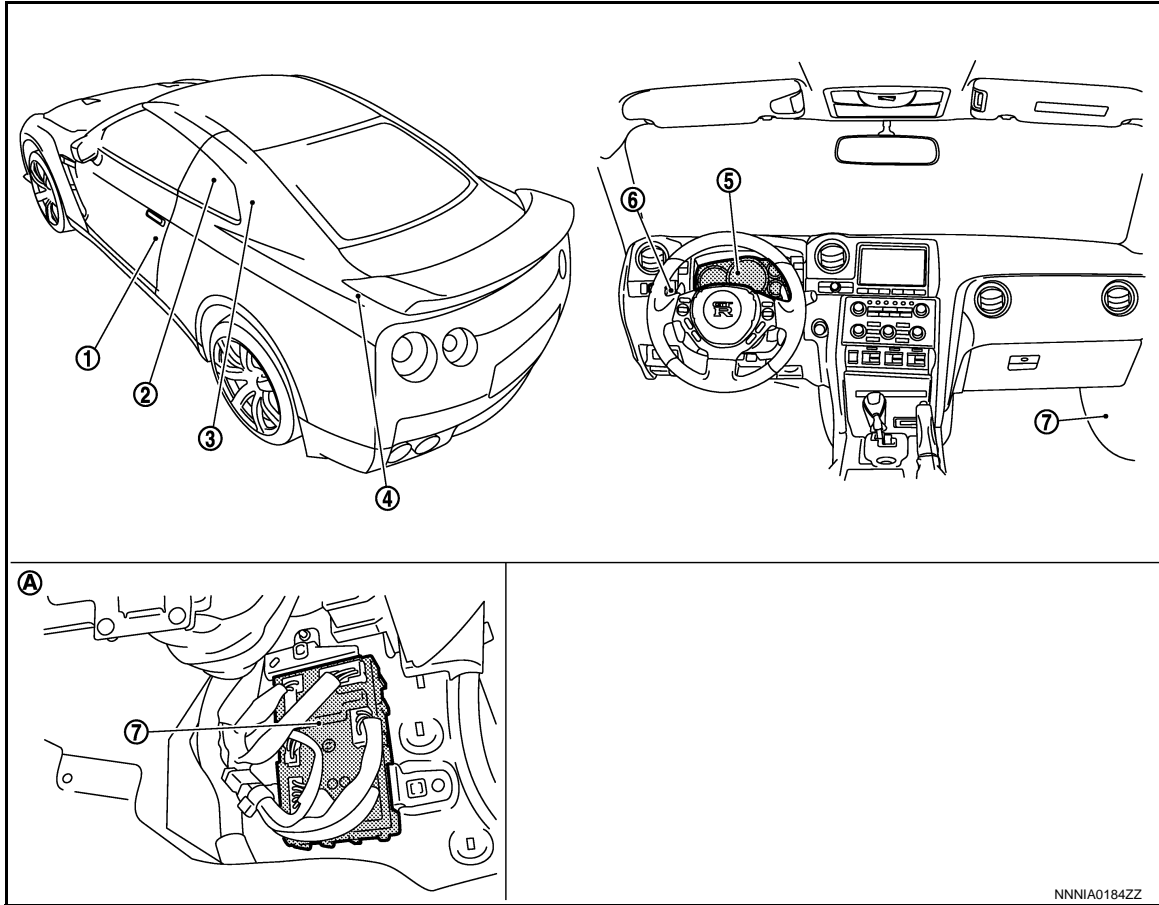
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WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

PARKING BRAKE RELEASE WARNING CHIME : Component Parts Location

INFOID:000000011488366



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|--------------------------------------------|------------------------------------------|-----------------------------------------|
| 1. Door switch (driver side) | 2. Seat belt buckle switch (driver side) | 3. Parking brake switch |
| 4. TCM | 5. Combination meter | 6. Combination switch (lighting switch) |
| 7. BCM | | |
| A. Lower part of passenger side dash-board | | |

PARKING BRAKE RELEASE WARNING CHIME : Component Description

INFOID:000000011488367

Unit	Description
Combination meter	Judges the remaining parking brake according to the vehicle speed signal received from the ABS actuator and electric unit (control unit) via CAN communication and the parking brake switch signal from parking brake switch and sounds the warning buzzer.
ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal to the combination meter via CAN communication.
Parking brake switch	Transmits the parking brake switch signal to the combination meter.

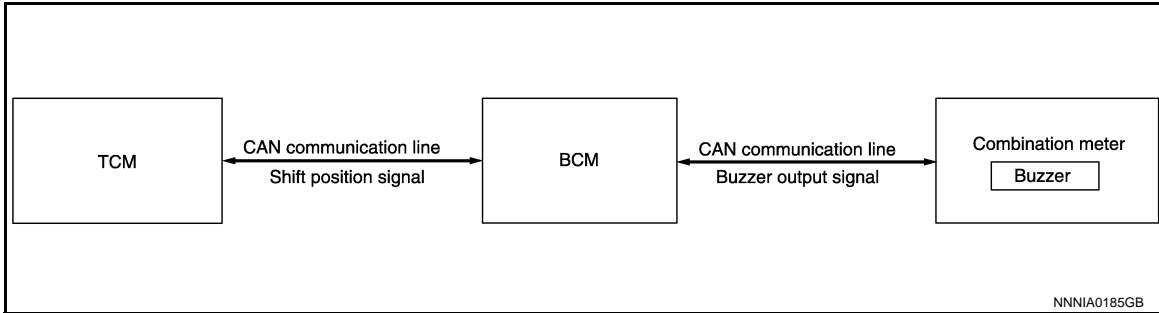
REVERSE WARNING CHIME

WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

REVERSE WARNING CHIME : System Diagram

INFOID:000000011488368



REVERSE WARNING CHIME : System Description

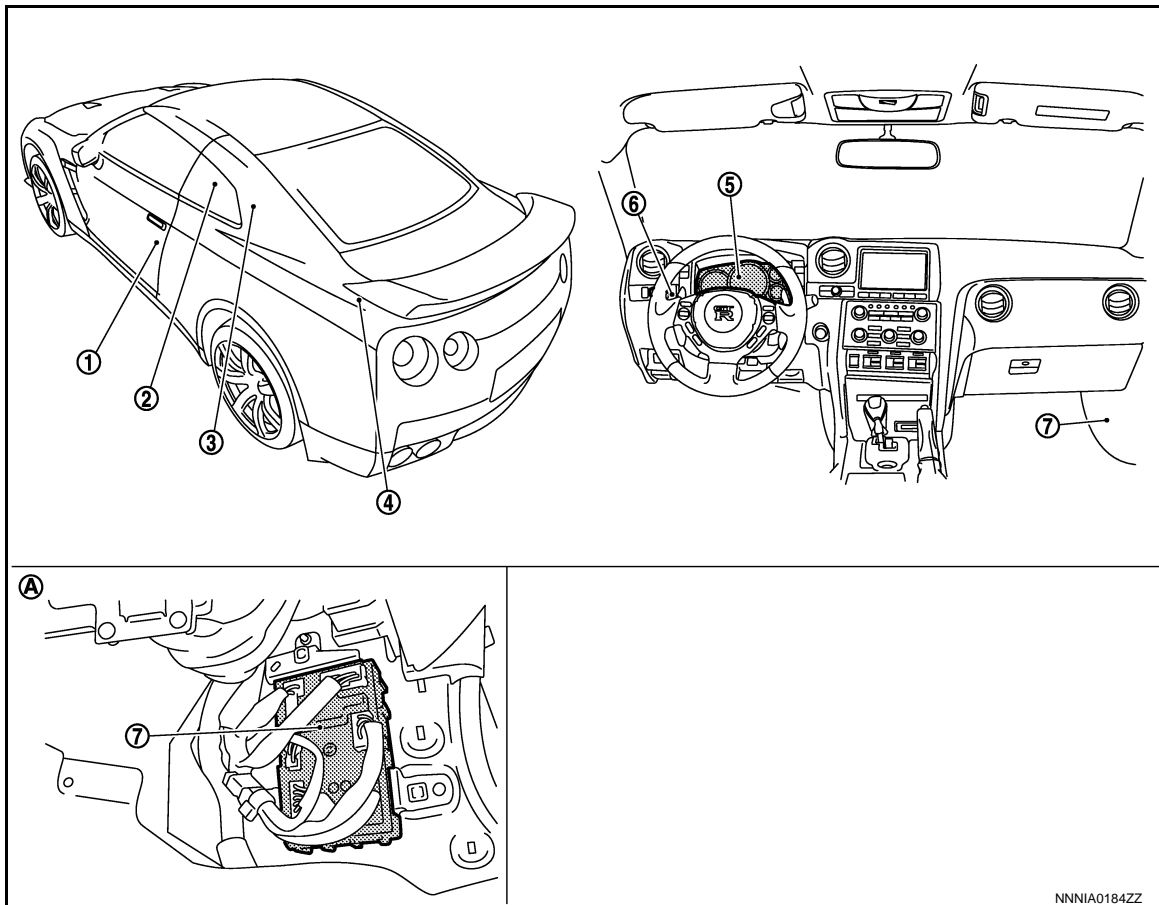
INFOID:000000011488369

DESCRIPTION

- The BCM receives shift position signal (reverse range) from TCM via CAN communication.
- The BCM detects reverse warning chime based on the received signal and transmits the buzzer output signal to combination meter via CAN communication.
- The combination meter receives the buzzer output signal from BCM via CAN communication and sounds the warning buzzer.

REVERSE WARNING CHIME : Component Parts Location

INFOID:000000011488370



- | | | |
|-------------------------------------------|------------------------------------------|-----------------------------------------|
| 1. Door switch (driver side) | 2. Seat belt buckle switch (driver side) | 3. Parking brake switch |
| 4. TCM | 5. Combination meter | 6. Combination switch (lighting switch) |
| 7. BCM | | |
| A. Lower part of passenger side dashboard | | |

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WARNING CHIME SYSTEM

< SYSTEM DESCRIPTION >

REVERSE WARNING CHIME : Component Description

INFOID:000000011488371

Unit	Description
Combination meter	Receives a buzzer output signal from the BCM and sounds the buzzer.
BCM	<ul style="list-style-type: none">• The BCM receives shift position signal from TCM via CAN communication.• The BCM detects reverse warning based on the received signal and transmits the buzzer output signal to combination meter via CAN communication.
TCM	Transmits the shift position signal to BCM via CAN communication.

DIAGNOSIS SYSTEM (METER)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (METER)

CONSULT Function (METER/M&A)

INFOID:000000011796752

CONSULT can perform the following diagnosis modes by the CAN communication with combination meter.

Diagnosis mode	Description
Self Diagnosis Result	Displays names of malfunctioning systems judged by and stored in combination meter.
Data Monitor	Displays combination meter input/output data in real time.
Warning History	Displays the illumination record of warning lamp and indicator lamp.

SELF DIAGNOSTIC RESULT

NOTE:

Details of time display

- CRNT: Displays during the current malfunctioning detection.
- PAST: Displays if any previous malfunction is present when the current status is normal.

IGN counter

- The IGN counter is displayed on the freeze frame data (FFD).
- The IGN counter indicates the number of times ignition switch is turned ON after the DTC detection.
 - The number is 0 when a malfunction is detected now.
 - The number increases like 1 → 2 → 3 → ... 38 → 39 after returning to the normal condition whenever the ignition switch is turned OFF → ON.
 - The number is fixed to 39 unit the self-diagnosis results are erased if it is over 39.

Display contents of CONSULT	Diagnostic item is detected if ...
CAN COMM CIRCUIT [U1000]	Combination meter cannot communicate CAN communication signal for 2 seconds or more.
CONTROL UNIT (CAN) [U1010]	Malfunction is detected during initial diagnosis of combination meter CAN controller.
VEHICLE SPEED [B2205]	Abnormal vehicle speed signal is received from ABS actuator and electric unit (control unit).
ENGINE SPEED [B2267]	ECM continuously transmits abnormal engine speed signal for 2 seconds or more.
WATER TEMP [B2268]	ECM continuously transmits abnormal engine coolant temperature signal for 60 seconds or more.
OIL LEV SEN OPEN [B2321]	Signal from oil level sensor is broken (resistance value of oil level sensor exceeds 20 Ω).
OIL LEV SEN SHORT [B2322]	Signal from oil level sensor is shorted (resistance value of oil level sensor is less than 3 Ω).

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.

Monitor item	MAIN ITEMS	Description
SPEED METER [km/h]	X	Vehicle speed signal value received from ABS actuator and electric unit (control unit) via CAN communication. NOTE: 655.35 is displayed when the malfunction signal is received.
SPEED OUTPUT [km/h]	X	Vehicle speed signal value transmitted to other units via CAN communication. NOTE: 655.35 is displayed when the malfunction signal is received.
ODO OUTPUT [km]		Odometer value transmitted to other units via CAN communication.

DIAGNOSIS SYSTEM (METER)

< SYSTEM DESCRIPTION >

Monitor item	MAIN ITEMS	Description
TACHO METER [rpm]	X	Engine speed signal value received from ECM via CAN communication. NOTE: 8191.875 is displayed when the malfunction signal is received.
FUEL METER [L]	X	Fuel level value indicated on combination meter.
W TEMP METER [°C]	X	Engine coolant temperature signal value received from ECM via CAN communication. NOTE: 215 is displayed when the malfunction signal is received.
ABS W/L [On/Off]		ABS warning lamp status judged by the ABS malfunction signal received from ABS actuator and electric unit (control unit) via CAN communication.
VDC/TCS IND [On/Off]		VDC OFF indicator lamp status judged by the VDC OFF indicator lamp signal received from ABS actuator and electric unit (control unit) via CAN communication.
SLIP IND [On/Off]		VDC warning lamp status judged by the VDC warning lamp signal received from ABS actuator and electric unit (control unit) via CAN communication.
BRAKE W/L [On/Off]		Brake warning lamp status judged by the brake warning lamp signal received from ABS actuator and electric unit (control unit) via CAN communication. NOTE: OFF is displayed when the bulb check is operating, when the brake fluid level switch is ON, or when the brake warning lamp is illuminated when the parking brake switch is ON or the brake fluid level switch is ON during the bulb check operation.
DOOR W/L [On/Off]		Door open warning status judged by the door switch signal received from BCM via CAN communication.
HI-BEAM IND [On/Off]		High beam indicator lamp status judged by the high beam request signal received from BCM via CAN communication.
TURN IND [On/Off]		Turn signal indicator lamp status judged by the turn indicator signal received from BCM via CAN communication.
RR FOG IND [Off]		NOTE: This Item is displayed, but cannot be monitored.
OIL W/L [On/Off]		Oil pressure warning lamp status judged by the oil pressure sensor signal received from oil pressure sensor.
LIGHT IND [On/Off]		Tail lamp indicator lamp status judged by the tail lamp request signal received from BCM via CAN communication.
MIL [On/Off]		MIL status judged by the malfunction indicator lamp received from ECM via CAN communication.
CRUISE IND [On/Off]		CRUISE indicator lamp status judged by the ASCD status signal received from ECM via CAN communication.
SET IND [On/Off]		SET indicator lamp status judged by the ASCD status signal received from ECM via CAN communication.
ATC/T-AMT W/L [On/Off]		Transmission check warning lamp status judged by the transmission warning light signal received from TCM via CAN communication.
4WD W/L [On/Off]		AWD warning lamp status judged by the AWD warning lamp signal received from AWD control unit via CAN communication.
FUEL W/L [On/Off]		Low fuel warning status judged by the fuel level sensor signal received from fuel level sensor unit.
WASHER W/L [On/Off]		Low washer fluid warning status judged by the washer level switch signal received from washer level switch.
AIR PRES W/L [On/Off]		Tire pressure warning lamp status judged by the tire pressure warning lamp signal received from low tire pressure warning control unit via CAN communication.
KEY G/Y W/L [On/Off]		KEY warning lamp (green/yellow) status judged by the KEY warning lamp signal received from BCM via CAN communication.

DIAGNOSIS SYSTEM (METER)

< SYSTEM DESCRIPTION >

Monitor item	MAIN ITEMS	Description
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 detected from meter display signal is received from BCM via CAN communication.
SHIFT IND [P/R/N/A1/A2/A3/A4/A5/A6/M1/M2/M3/M4/M5/M6]		Shift position status judged by the shift position signal received from TCM via CAN communication.
PKB SW [On/Off]		Parking brake switch status judged by the parking brake switch signal received from parking brake switch.
BUCKLE SW [On/Off]		Seat belt buckle switch (driver side) status judged by the seat belt buckle switch signal (driver side) received from seat belt buckle switch (driver side).
BRAKE OIL SW [On/Off]		Brake fluid level switch status judged by the brake fluid level switch signal received from brake fluid level switch.
A/C AMP CONN [On/Off]		A/C auto amp. connection recognition status judged by the A/C auto amp. connection recognition signal received from A/C auto amp.
ENTER SW [On/Off]		Enter switch status judged by the enter switch signal received from meter control switch.
SELECT SW [On/Off]		Select switch status judged by the select switch signal received from meter control switch.
DISTANCE [km]		Possible driving distance value judged by combination meter.
OUTSIDE TEMP [°C]		Ambient sensor value converted from ambient sensor signal received from ambient sensor. NOTE: This may not match the temperature value indicated on information display. (Because the information display value is a corrected value from the ambient sensor input value.)
FUEL LOW SIG [On/Off]		Low fuel warning signal status that is output to AV control unit via CAN communication.
CRANKING SIG [On/Off]		Cranking status judged by the engine status signal received from ECM via CAN communication.
ST CNT SIG [On/Off]		Starter relay status judged by the starter relay status signal received from BCM via CAN communication.
BUZZER [On/Off]	X	Status of buzzer integrated in combination meter judged with buzzer output signal received from each unit via CAN communication and with warning output condition of combination meter.
ENG OIL TMP [°C]		Engine oil temperature status judged by the engine oil temperature signal received from ECM via CAN communication.
ENG OIL PRESS [MPa]		Engine oil pressure value judged by the oil pressure sensor signal received from oil pressure sensor.
TM OIL TMP [°C]		Transmission oil temperature value judged by the transmission oil temperature signal received from TCM via CAN communication.
TM OIL PRESS [MPa]		Transmission oil pressure value judged by the transmission oil pressure signal received from TCM via CAN communication.
A/F RATIO		Air-fuel ratio value judged by the air-fuel ratio signal received from ECM via CAN communication.
BOOST PRESS [kPa]		Boost pressure value judged by the boost pressure signal received from ECM via CAN communication.
THRTL POSI [%]		Throttle position value judged by the throttle position signal received from ECM via CAN communication.
TRQ DSTRBT [%]		Front torque distribution rate value judged by the front torque distribution rate signal received from AWD control unit via CAN communication.

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DIAGNOSIS SYSTEM (METER)

< SYSTEM DESCRIPTION >

Monitor item	MAIN ITEMS	Description
AMT P SFT [On/Off]		P engagement warning display status judged by the shift lever position check display signal received from TCM via CAN communication.
AMT SYS CHCK		Transmission system check display status judged by the transmission system check display signal received from TCM via CAN communication.
AMT SFT POSI [On/Off]		Shift lever position warning display status judged by the shift lever position warning display signal received from TCM via CAN communication.
AMT OIL TMP H [On/Off]		Transmission oil high temperature warning display status judged by the transmission oil high temperature warning display signal received from TCM via CAN communication.
AMT CL TMP H [On/Off]		Transmission clutch high temperature warning display status judged by the transmission clutch high temperature warning display signal received from TCM via CAN communication.
AMT CHCK [Off]		NOTE: This Item is displayed, but cannot be monitored.
AMT MALF [On/Off]		Transmission system warning display status judged by the transmission system warning display signal received from TCM via CAN communication.
TPMS FLT TIRE [On/Off]		Run-flat tire warning display status judged by the run-flat tire warning display signal received from low tire pressure warning control unit via CAN communication.
TPMS PRESS L [On/Off]		Low tire pressure warning display status judged by the low tire pressure warning display signal received from low tire pressure warning control unit via CAN communication.
TPMS MALF [On/Off]		Tire pressure monitoring system warning display status judged by the tire pressure monitoring system warning display signal received from low tire pressure warning control unit via CAN communication.
4WD CL TMP H [On/Off]		Display status of AWD clutch high temperature warning display signal judged by the AWD clutch high temperature warning display signal received from AWD control unit via CAN communication.
4WD TIRE CHCK [On/Off]		Display status of front/rear tire size discrepancy warning display judged by the front/rear tire size discrepancy warning display signal received from AWD control unit via CAN communication.
4WD SYS MALF [On/Off]		Display status of AWD system warning display signal judged by the AWD system warning display signal received from AWD control unit via CAN communication.
ABS MALF [On/Off]		Display status of anti-lock braking system (ABS) warning display judged by the ABS warning display signal received from ABS actuator and electric unit (control unit) via CAN communication.
VDC MALF [On/Off]		Display status of vehicle dynamic control (VDC) system warning display judged by the VDC system warning display signal received from ABS actuator and electric unit (control unit) via CAN communication.
ENG SYS CHCK [On/Off]		Display status of engine system warning display judged by the engine status signal received from ECM via CAN communication.
ASCD SYS MALF [On/Off]		Display status of cruise control system warning display judged by the ASCD status signal received from ECM via CAN communication.
ASCD REQ SPD [km]		ASCD set vehicle speed value that is judged by the ASCD status signal received from ECM via CAN communication.
ASCD STATUS [Off, ASCD]		Display status of ASCD status display judged by the ASCD status signal received from ECM via CAN communication.
ASCD SPD BLNK [On/Off]		Blinking status of ASCD set vehicle speed that is judged by the ASCD status signal received from ECM via CAN communication.
LED LMP R OPEN [On/Off]		Status of front combination lamp RH judged based on LED headlamp (RH) warning signal input from front combination lamp RH.
LED LMP L OPEN [On/Off]		Status of front combination lamp LH judged based on LED headlamp (LH) warning signal input from front combination lamp LH.

NOTE:

Some items are not available according to vehicle specifications.

WARNING HISTORY

DIAGNOSIS SYSTEM (METER)

< SYSTEM DESCRIPTION >

- Stores histories when warning/indicator lamp is turned on.
- “Warning History” indicates the “TIME” when the warning/indicator lamp is turned on.
- The “Time” above is :
 - 0: The condition that the warning/indicator lamp has been turned on 1 or more times after starting the engine and waiting for 30 seconds.
 - 1 - 39: The number of times the engine was restarted after the 0 condition.
 - NO Warning History : Stores NO (0) turning on history of warning/indicator lamp.

NOTE:

- Warning History is not stored for approximately 30 seconds after the engine starts.
- Brake warning lamp does not store any history when the parking the brake is applied or the brake fluid level gets low.

Display Item

Display Item	Description
ABS W/L	Lighting history of ABS warning lamp.
VDC & TCS OFF W/L	Lighting history of VDC OFF indicator lamp.
SLIP IND	Lighting history of VDC warning lamp.
BRAKE W/L	Lighting history of brake warning lamp.
DOOR W/L	Lighting history of door open warning indication.
TRUNK/GLASS HATCH	Lighting history of trunk open warning indication.
OIL W/L	Lighting history of oil pressure warning lamp.
C-ENG W/L	Lighting history of malfunction indicator lamp (MIL).
CRUISE IND	Lighting history of CRUISE indicator lamp.
SET IND	Lighting history of SET indicator lamp.
ATC/T-AMT W/L	Lighting history of transmission warning lamp.
AT OIL TEMP W/L	Lighting history of transmission oil high-temperature warning.
4WD W/L	Lighting history of AWD warning lamp.
FUEL W/L	Lighting history of low fuel warning.
WASHER W/L	Lighting history of low washer fluid warning.
TIRE PRESS W/L	Lighting history of tire pressure warning lamp.
KEY GREEN/YELLOW IND	Lighting history of KEY warning lamp (green/yellow).
KEY RED W/L	Lighting history of KEY warning lamp (red).
SFT OPERATION W/L	Lighting history of shift lever position check warning.
CHARGE W/L	Lighting history of charge warning lamp.
OIL LEV LOW	Lighting history of oil level warning.

NOTE:

In items displayed on the CONSULT screen, only those listed in the above table are used.

WCS

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000011796760

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"> • Read and save the vehicle specification. • Write the vehicle specification when replacing BCM.

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*			
Intelligent Key system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
NVIS - NATS	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Trunk lid opener system	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×

*: 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		A
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected		B
Vehicle Condition	SLEEP>LOCK	Power 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")	C
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)	D
	LOCK>ACC		While turning power supply position from "LOCK" to "ACC"	E
	ACC>ON		While turning power supply position from "ACC" to "IGN"	F
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Vehicle is stopping and shift lever is except P position.)	G
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)	H
	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emergency stop operation)	I
	ACC>OFF		While turning power supply position from "ACC" to "OFF"	J
	OFF>LOCK		While turning power supply position from "OFF" to "LOCK"	K
	OFF>ACC		While turning power supply position from "OFF" to "ACC"	L
	ON>CRANK		While turning power supply position from "IGN" to "CRANKING"	M
	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" (Ignition switch OFF with steering is locked.)	
	OFF		Power supply position is "OFF" (Ignition switch OFF with steering is unlocked.)	
	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"> • The number is 0 when a malfunction is detected now. • The number increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. • The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. 		

BUZZER

BUZZER : CONSULT Function (BCM - BUZZER)

INFOID:0000000011488374

CONSULT APPLICATION ITEMS

Test item	Diagnosis mode	Description	
BUZZER	Data Monitor	Displays BCM input data in real time.	P
	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.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Display item [Unit]	Description
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.
VEH SPEED 1 [Km/h]	Value of vehicle speed signal received from ABS actuator and electric unit (control unit) with CAN communication line.
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 [Off]	This item is displayed, but cannot be monitored.
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).
REVERSE WARNING	The reverse warning chime operation can be checked by operating relevant function (On/Off).

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT COMBINATION METER

COMBINATION METER : Diagnosis Procedure

INFOID:000000011796753

1.CHECK FUSES

Check that the following fuses are not blown:

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace the fuse with a new one after repairing the applicable circuit.

2.CHECK POWER SUPPLY CIRCUIT

Check the voltage between the combination meter harness connector terminals and the ground.

Terminal No.	Signal name	Ignition switch	Voltage
1	Battery power supply	OFF	Battery voltage
2	Ignition signal	ON	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair the harness between the fuse and the combination meter.

3.CHECK GROUND CIRCUIT

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

Combination meter		Ground	Continuity
Connector	Terminal		
M53	3		Existed
	5		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair the harnesses or connectors.

BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE) : Diagnosis Procedure

INFOID:000000011796759

1.CHECK FUSE AND FUSIBLE LINK

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

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

Is the fuse fusing?

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

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connectors.
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:000000011488377

- 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 and switches.

Component Function Check

INFOID:000000011488378

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 COMBINATION METER 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-89. "Removal and Installation"](#).

Diagnosis Procedure

INFOID:000000011488379

1.CHECK POWER SUPPLY OF COMBINATION METER

Check power supply of combination meter. Refer to [MWI-68. "COMBINATION METER : Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Repair power supply circuit of combination meter. Refer to [MWI-68. "COMBINATION METER : Diagnosis Procedure"](#).

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SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

Description

INFOID:000000011488380

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

Component Function Check

INFOID:000000011488381

1.CHECK COMBINATION METER 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:000000011488382

1.CHECK COMBINATION METER INPUT SIGNAL

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

Terminals		Condition	Voltage (Approx.)	
(+)	(-)			
Combination meter				
Connector	Terminal	Ground	When seat belt is fastened	12 V
M53	30		When seat belt is unfastened	0 V

Is the inspection result normal?

YES >> Replace combination meter

NO >> GO TO 2.

2.CHECK SEAT BELT BUCKLE SWITCH CIRCUIT

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

Terminals				Continuity
(+)		(-)		
Combination meter		Seat belt buckle switch (driver side)		
Connector	Terminal	Connector	Terminal	Exist
M53	30	B12	3	

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

Terminals		Continuity	
(+)	(-)		
Combination meter			
Connector	Terminal	Ground	Not existed
M53	30		

Is the inspection result normal?

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

- 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 terminal and ground.

Terminals		Continuity
(+)	(-)	
Seat belt buckle switch (driver side)		Exist
Connector	Terminal	
B12	2	

Is the inspection result normal?

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

Component Inspection

INFOID:000000011488383

1.CHECK SEAT BELT BUCKLE SWITCH

- Turn ignition switch OFF.
- Disconnect the seat belt buckle switch (driver side) connector.
- Check continuity between terminals.

Seat belt buckle switch (driver side)		Condition	Continuity
3	2	When seat belt (driver side) is fastened	Not existed
		When seat belt (driver side) is unfastened	Exist

Is the inspection result normal?

- YES >> INSPECTION END
 NO >> Replace the seat belt buckle. Refer to [SB-9. "SEAT BELT BUCKLE : Removal and Installation"](#).

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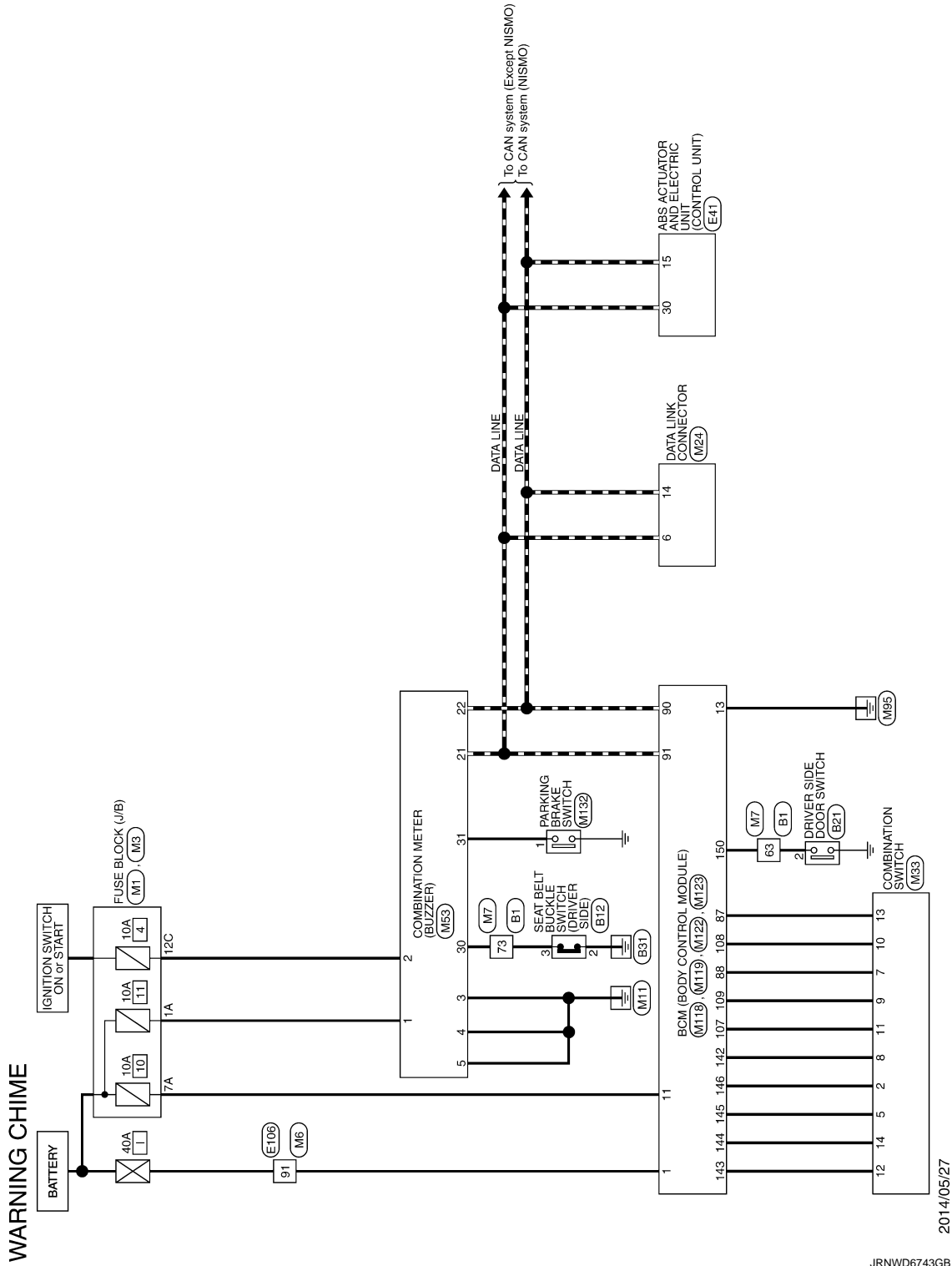
WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

WARNING CHIME SYSTEM

Wiring Diagram - WARNING CHIME -

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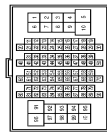


WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

WARNING CHIME

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-C516-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	-
2	L	-
3	P	-
4	V	-
5	W	-
6	W	-
7	W	-
8	Y	-
9	Y	-
10	R	-
11	Y	-
12	GR	-
13	BG	-
14	Y	-
15	BR	-
16	R	-
17	W	-
18	BR	-
19	W	-
20	GR	-
21	SB	-
22	W	-
23	G	-
24	BG	-
25	L	-
26	P	-
27	GR	-
28	BG	-
31	GR	-
32	L	-
33	V	-
34	BG	-
39	G	-
40	LG	-
41	V	-
42	SB	-
43	P	-
47	R	-
48	B	-

49	W	-
50	SHIELD	-
51	SB	-
52	B	-
53	R	-
54	B	-
56	R	-
57	G	-
58	G	-
59	R	-
60	BR	-
61	Y	-
62	SHIELD	-
63	LG	-
64	R	-
65	G	-
66	BR	-
67	BG	-
69	P	-
70	L	-
71	SHIELD	-
72	SHIELD	- [Without active noise control unit]
72	V	- [With active noise control unit]
73	SB	-
76	R	-
78	G	-
79	Y	-
80	R	-
81	G	-
82	BR	- [Without active noise control unit]
82	G	- [With active noise control unit]
83	R	- [With active noise control unit]
83	Y	- [Without active noise control unit]
84	SHIELD	-
85	V	-
86	SB	- [Without active noise control unit]
86	W	- [With active noise control unit]
87	L	-
88	P	-
89	SHIELD	-
90	V	-
92	BR	-
93	SB	-
94	GR	-
95	BG	-
96	Y	-
97	Y	-
98	LG	-

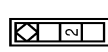
99	R	-
100	G	-

Connector No.	B12
Connector Name	SEAT BELT BUCKLE SWITCH (DRIVER'S SIDE)
Connector Type	TK03FW



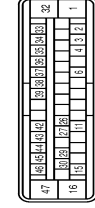
Terminal No.	Color Of Wire	Signal Name [Specification]
2	B	-
3	SB	-

Connector No.	B21
Connector Name	DRIVER SIDE DOOR SWITCH
Connector Type	A03FW



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

Connector No.	E41
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	AEZ43FB-AJZ4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	LBMR
2	V	DIAG-K
3	GR	VDC OFF SW
4	W	BLS
6	G	VDC UP SW
11	Y	CANH
15	P	CANL
16	B	GROUND
26	W	CANL
27	BR	G SENSOR GROUND
29	BG	UZ
30	L	CANH
32	BG	UBVR
33	W	DS FR
34	BG	DP FR
35	Y	VDC TOP POSITION LED
36	L	DP RL
37	R	DS RL
38	V	BRAKE FLUID LEVEL SW
39	G	G SENSOR POWER
42	V	DS RR
43	LG	DP RR
44	SB	VDC TOP POSITION LED
45	W	DP FL
46	R	DS FL
47	B	GROUND

JRNWE1201GB

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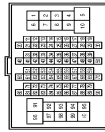
WCS

WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

WARNING CHIME

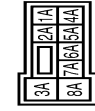
Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



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

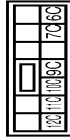
38	SB	-
39	GR	-
40	G	-
41	V	-
42	V	-
43	L	-
44	BR	-
45	G	-
46	SB	-
48	BG	-
49	L	-
50	R	-
51	SHIELD	-
60	P	-
61	L	-
71	LG	-
72	SB	-
74	P	-
75	BR	-
76	LG	-
77	V	-
78	BR	-
79	W	-
80	Y	-
81	GR	-
82	BG	-
84	P	-
85	P	-
86	GR	-
87	R	-
88	L	-
89	BG	-
90	G	-
91	GR	-
92	R	-
93	R	-
94	LG	-
95	G	-
96	GR	-
97	L	-
98	LG	-
99	BG	-
100	L	-

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS08FW-M2



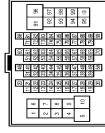
Terminal No.	Color Of Wire	Signal Name [Specification]
1A	V	-
2A	G	-
3A	L	-
4A	LG	-
5A	SB	-
6A	Y	-
7A	R	-
8A	L	-

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	W	-
6C	R	-
7C	B	-
9C	BR	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



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

WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

WARNING CHIME

38	Y	-	-	-	-
39	GR	-	-	-	-
40	BG	-	-	-	-
41	W	-	-	-	-
42	R	-	-	-	-
43	Y	-	-	-	-
44	BR	-	-	-	-
45	G	-	-	-	-
46	LG	-	-	-	-
48	W	-	-	-	-
49	L	-	-	-	-
50	R	-	-	-	-
51	SHIELD	-	-	-	-
60	SB	-	-	-	-
61	V	-	-	-	-
71	W	-	-	-	-
72	LG	-	-	-	-
74	R	-	-	-	-
75	BR	-	-	-	-
76	LG	-	-	-	-
77	R	-	-	-	-
78	BR	-	-	-	-
79	W	-	-	-	-
80	Y	-	-	-	-
81	BG	-	-	-	-
82	SB	-	-	-	-
84	Y	-	-	-	-
85	P	-	-	-	-
86	GR	-	-	-	-
87	R	-	-	-	-
88	L	-	-	-	-
89	G	-	-	-	-
90	P	-	-	-	-
91	W	-	-	-	-
92	R	-	-	-	-
93	LG	-	-	-	-
94	W	-	-	-	-
95	SB	-	-	-	-
96	L	-	-	-	-
97	L	-	-	-	-
98	Y	-	-	-	-
99	BG	-	-	-	-
100	L	-	-	-	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
2	L	-
2	P	-
6	L	-
7	W	-
8	W	-
9	G	-
10	R	-
11	W	- [Without active noise control unit]
12	SB	- [With active noise control unit]
13	G	-
14	W	-
15	BR	-
16	R	-
17	BG	-
18	SB	-
20	GR	-
21	L	-
22	R	-
23	G	-
24	BR	-
25	L	-
26	LG	- [Without active noise control unit]
27	W	- [With active noise control unit]
28	R	-
31	GR	-
32	L	-
33	V	-
34	BG	-
39	W	-
40	BG	-
41	R	-
42	V	-
43	W	-
47	G	-
48	R	-
49	W	-

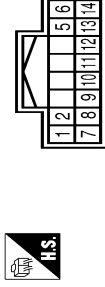
50	SHIELD	-	-	-	-
51	SB	-	-	-	-
52	B	-	-	-	-
53	R	-	-	-	-
54	B	-	-	-	-
56	R	-	-	-	-
57	G	-	-	-	-
58	G	-	-	-	-
59	R	-	-	-	-
60	BR	-	-	-	-
61	Y	-	-	-	-
62	SHIELD	-	-	-	-
63	GR	-	-	-	-
64	R	-	-	-	-
65	G	-	-	-	-
66	BR	-	-	-	-
67	BG	-	-	-	-
69	P	-	-	-	-
70	L	-	-	-	-
71	SHIELD	-	-	-	-
72	SHIELD	-	-	-	- [Without active noise control unit]
72	V	-	-	-	- [With active noise control unit]
73	LG	-	-	-	-
76	R	-	-	-	-
77	SB	-	-	-	-
78	G	-	-	-	-
79	Y	-	-	-	-
80	R	-	-	-	-
81	G	-	-	-	-
82	BR	-	-	-	- [Without active noise control unit]
82	G	-	-	-	- [With active noise control unit]
83	R	-	-	-	- [Without active noise control unit]
83	Y	-	-	-	- [With active noise control unit]
84	SHIELD	-	-	-	-
85	V	-	-	-	-
86	LG	-	-	-	- [Without active noise control unit]
86	W	-	-	-	- [With active noise control unit]
87	L	-	-	-	-
88	P	-	-	-	-
89	SHIELD	-	-	-	-
90	V	-	-	-	-
92	LG	-	-	-	-
93	Y	-	-	-	-
94	G	-	-	-	-
95	R	-	-	-	-
96	Y	-	-	-	-
97	R	-	-	-	-
98	G	-	-	-	-
99	L	-	-	-	-
100	W	-	-	-	-

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	-
4	B	-
5	B	-
6	L	-
7	V	-
8	G	-
11	G	-
14	P	-
16	Y	-

Connector No.	M33
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	SB	-
5	L	-
6	B	-
7	V	-
8	BG	-
9	Y	-
10	R	-
11	LG	-
12	P	-
13	BR	-

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WCS

JRNWE1203GB

WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

WARNING CHIME

14	G	-
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Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	SAB40FW



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
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Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	BATTERY POWER SUPPLY
2	W	IGNITION POWER SUPPLY
3	B	GROUND
4	B	ILLUMINATION GROUND
5	B	GROUND
6	W	METER CONTROL SWITCH GROUND
7	Y	AC-AUTO AMP CONNECTION/REGISTRATION SIGNAL
8	SB	AMBIENT SENSOR GROUND
9	P	AMBIENT SENSOR SIGNAL
12	L	VEHICLE SPEED SIGNAL (2-PULSE)
13	V	VEHICLE SPEED SIGNAL (8-PULSE)
14	B	OIL PRESSURE SENSOR GROUND
15	R	AIR BAG SIGNAL
16	R	LED HEAD LAMP (RH) WARNING SIGNAL
18	L	FUEL LEVEL SENSOR GROUND
19	R	OIL LEVEL SENSOR GROUND
20	W	OIL LEVEL SENSOR SIGNAL
21	L	CAN-H
22	P	CAN-L
23	LG	ILLUMINATION CONTROL SWITCH SIGNAL (L)
24	BR	ILLUMINATION CONTROL SWITCH SIGNAL (R)
25	G	TRIP A/B RESET SWITCH SIGNAL
26	BG	ENTER SWITCH SIGNAL
27	SB	SELECT SWITCH SIGNAL
28	BR	ALTERNATOR
29	G	SEAT BELT TRUCKLE SWITCH SIGNAL (PASSENGER SIDE)
30	LG	SEAT BELT TRUCKLE SWITCH SIGNAL (DRIVER SIDE)
31	V	PARKING BRAKE SWITCH SIGNAL
32	V	BRAKE FLUID LEVEL SWITCH SIGNAL
33	L	WASHER LEVEL SWITCH SIGNAL
34	GR	OIL PRESSURE SENSOR POWER
35	W	OIL PRESSURE SENSOR SIGNAL
38	BG	FUEL LEVEL SENSOR SIGNAL

39	Y	LED HEAD LAMP (LH) WARNING SIGNAL
40	V	ILLUMINATION CONTROL

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



1	2	3
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Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BAT (EL)
2	R	POWER WINDOW POWER SUPPLY (BAT)
3	W	POWER WINDOW POWER SUPPLY (TRAP)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MS16FW-CS



4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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Terminal No.	Color Of Wire	Signal Name [Specification]
4	R	INTERIOR ROOM LAMP POWER SUPPLY
5	G	PASSENGER DOOR UNLOCK OUTPUT
6	Y	STEP LAMP
7	V	ALL DOOR FUEL LID LOCK OUTPUT
8	G	DRIVER DOOR FUEL LID UNLOCK OUTPUT
9	R	BAT (FLSE)
11	R	GROUND
13	B	GROUND
14	P	PUSH-BUTTON/IGNITION SW ILL GND
15	Y	ACC INO
17	W	TURN SIGNAL (RH FRONT) OUTPUT
18	BG	TURN SIGNAL (LH FRONT) OUTPUT
19	V	ROOM LAMP TIMER CONTROL

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-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
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Terminal No.	Color Of Wire	Signal Name [Specification]
72	R	ROOM ANT-2
73	G	ROOM ANT-2
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT+
79	BR	ROOM ANT+
80	GR	IMMOBI ANTENNA CONTROL
81	L	IMMOBI ANTENNA SIGNAL
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
89	BR	PUSH SW
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL OUTPUT
93	V	ON IND
95	BG	ACC RELAY CONT
96	SB	A/T SHIFT SELECTOR POWER SUPPLY
97	L	S/L CONDITION 1
98	R	S/L CONDITION 2
99	G	SHIFT P
100	W	PASSENGER DOOR REQUEST SW
101	V	DRIVER DOOR REQUEST SW
102	BG	BLOWER FAN MOTOR RELAY CONT
103	LG	KEYLESS ENTRY RECEIVER POWER SUPPLY
106	P	S/L UNIT POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	Y	COMBI SW INPUT 2
110	G	HAZARD SW
111	Y	S/L UNIT COMM

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-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
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Terminal No.	Color Of Wire	Signal Name [Specification]
113	P	OPTICAL SENSOR
116	SB	STOP LAMP SW 1
118	P	STOP LAMP SW 2
119	SB	DR DOOR UNLOCK SENSOR
121	R	KEY SLOT SW
123	BR	IGN TP B
124	LG	PASSENGER DOOR SW
128	P	DOOR LOCK UNLOCK SW LOCK
129	BG	TRUNK CANCEL SW
131	BR	DOOR LOCK UNLOCK SW UNLOCK
133	W	PUSH-BUTTON/IGNITION SW ILL POWER
134	GR	LOCK IND
137	L	RECEIVER GND
138	Y	RECEIVER SENSOR POWER SUPPLY
140	BR	SHIFT N/P
141	G	SECURITY INDICATOR
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	GR	DRIVER DOOR SW
151	G	REAR WINDOW DEFOGGER RELAY CONT

WARNING CHIME SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

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WARNING CHIME	
Connector No.	M132
Connector Name	PARKING BRAKE SWITCH
Connector Type	F01FB-A

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



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JRNWE1205GB

COMBINATION METER

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ECU DIAGNOSIS INFORMATION

COMBINATION METER

Reference Value

INFOID:000000011796685

CONSULT DATA MONITOR REFERENCE VALUES

NOTE:

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

Monitor item	Measuring condition		Standard/Status
SPEED METER [km/h]	Ignition switch ON	While driving	Equivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received
SPEED OUTPUT [km/h]	Ignition switch ON	While driving	Equivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received
ODO OUTPUT [km]	Ignition switch ON	—	Equivalent to odometer reading in combination meter
TACHO METER [rpm]	Ignition switch ON	While driving	Approximately the same as tachometer reading NOTE: 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]	Ignition switch ON	—	Values according to engine coolant temperature NOTE: 215 is displayed when the malfunction signal is input
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	<ul style="list-style-type: none"> • Door open warning display • Trunk open warning display 	On
		<ul style="list-style-type: none"> • Door open warning is not displayed • Trunk open warning is not displayed 	Off
HI-BEAM IND	Ignition switch ON	High beam indicator lamp ON	On
		High beam indicator lamp OFF	Off
TURN IND	Ignition switch ON	Turn signal indicator lamp ON	On
		Turn signal indicator lamp OFF	Off
RR FOG IND	Ignition switch ON	This item is displayed, but cannot be monitored.	Off
OIL W/L	Ignition switch ON	Oil pressure warning lamp ON	On
		Oil pressure warning lamp OFF	Off

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

Monitor item	Measuring condition		Standard/Status
LIGHT IND	Ignition switch ON	Tail lamp indicator lamp ON	On
		Tail lamp indicator lamp OFF	Off
MIL	Ignition switch ON	Malfunction indicator lamp (MIL) ON	On
		Malfunction indicator lamp (MIL) OFF	Off
CRUISE IND	Ignition switch ON	CRUISE indicator lamp ON	On
		CRUISE indicator lamp OFF	Off
SET IND	Ignition switch ON	SET indicator lamp ON	On
		SET indicator lamp OFF	Off
ATC/T-AMT W/L	Ignition switch ON	Transmission warning lamp ON	On
		Transmission warning lamp OFF	Off
4WD W/L	Ignition switch ON	AWD warning lamp ON	On
		AWD warning lamp OFF	Off
FUEL W/L	Ignition switch ON	Low fuel warning display	On
		Low fuel warning is not displayed	Off
WASHER W/L	Ignition switch ON	Low washer fluid warning display	On
		Low washer fluid warning is not displayed	Off
AIR PRES W/L	Ignition switch ON	Tire pressure warning lamp ON	On
		Tire pressure warning lamp OFF	Off
KEY G/Y W/L	Ignition switch ON	KEY warning lamp (green/yellow) ON	On
		KEY warning lamp (green/yellow) OFF	Off
LCD	Ignition switch ON	Engine start indication is displayed	B&P I
	Ignition switch ACC	Engine start indication is displayed	B&P N
	Ignition switch LOCK	Key ID NG warning is displayed	ID NG
	Ignition switch LOCK	Steering lock rotation operation signal illuminated	ROTAT
	Ignition switch LOCK	P engagement warning is displayed	SFT P
	Ignition switch LOCK	Key insertion indication is displayed	INSRT
	Ignition switch LOCK	Intelligent Key low battery notice warning is displayed	BATT
	Ignition switch ON	Key removal warning is displayed	NO KY
	Ignition switch LOCK	Key reminder warning is displayed	OUT KY
Ignition switch ON	ACC warning is displayed	LK WN	

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COMBINATION METER

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Monitor item	Measuring condition		Standard/Status
SHIFT IND	Ignition switch ON	Shift position P is displayed	P
		Shift position R is displayed	R
		Shift position N is displayed	N
		Shift position A1 is displayed	A1
		Shift position A2 is displayed	A2
		Shift position A3 is displayed	A3
		Shift position A4 is displayed	A4
		Shift position A5 is displayed	A5
		Shift position A6 is displayed	A6
		Shift position M1 is displayed	M1
		Shift position M2 is displayed	M2
		Shift position M3 is displayed	M3
		Shift position M4 is displayed	M4
		Shift position M5 is displayed	M5
Shift position M6 is displayed	M6		
PKB SW	Ignition switch ON	Parking brake switch ON	On
		Parking brake switch OFF	Off
BUCKLE SW	Ignition switch ON	Seat belt not fastened	On
		Seat belt fastened	Off
BRAKE OIL SW	Ignition switch ON	Brake fluid level switch ON	On
		Brake fluid level switch OFF	Off
A/C AMP CONN	Ignition switch ON	A/C auto amp. is not connected	On
		A/C auto amp. is connected	Off
ENTER SW	Ignition switch ON	Enter switch is being pressed	On
		Enter switch is not pressed	Off
SELECT SW	Ignition switch ON	Select switch is being pressed	On
		Select switch is not pressed	Off
DISTANCE [km]	Ignition switch ON	—	Possible driving distance calculated by combination meter
OUTSIDE TEMP [°C]	Ignition switch ON	—	Equivalent to ambient air temperature NOTE: This may not match the indicated value on information display.
FUEL LOW SIG	Ignition switch ON	Low fuel warning is displayed	On
		Low fuel warning is not displayed	Off
CRANKING SIG	At engine cranking		On
	Ignition switch ON		Off
ST CNT SIG	At engine cranking		On
	Ignition switch ON		Off
BUZZER	Ignition switch ON	Buzzer ON	On
		Buzzer OFF	Off
ENG OIL TMP	Ignition switch ON	—	Values according to engine oil temperature
ENG OIL PRESS	Ignition switch ON	—	Values according to engine oil pressure

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

Monitor item	Measuring condition		Standard/Status
TM OIL TMP	Ignition switch ON	—	Values according to transmission oil temperature
TM OIL PRESS	Ignition switch ON	—	Values according to transmission oil pressure
A/F RATIO	Ignition switch ON	—	Values according to engine air-fuel ratio
BOOST PRESS	Ignition switch ON	—	Values according to boost pressure
THRTL POSI	Ignition switch ON	—	Values according to throttle position
TRQ DSTRBT	Ignition switch ON	—	Values according to front torque distribution rate
AMT P SFT	Ignition switch ON	Shift " P " warning display ON	On
		Shift " P " warning display OFF	Off
AMT SYS CHCK	Ignition switch ON	Transmission system check display ON	On
		Transmission system check display OFF	Off
AMT SFT POSI	Ignition switch ON	Shift lever position warning display ON	On
		Shift lever position warning display OFF	Off
AMT OIL TMP H	Ignition switch ON	Transmission oil high temperature warning display ON	On
		Transmission oil high temperature warning display OFF	Off
AMT CL TMP H	Ignition switch ON	Transmission clutch high temperature warning display ON	On
		Transmission clutch high temperature warning display OFF	Off
AMT CHCK	Ignition switch ON	It is displayed, but not used.	Off
AMT MALF	Ignition switch ON	Transmission system warning display ON	On
		Transmission system warning display OFF	Off
TPMS FLT TIRE	Ignition switch ON	Run-flat tire warning display ON	On
		Run-flat tire warning display OFF	Off
TPMS PRESS L	Ignition switch ON	Low tire pressure warning display ON	On
		Low tire pressure warning display OFF	Off
TPMS MALF	Ignition switch ON	Tire pressure monitoring system warning display ON	On
		Tire pressure monitoring system warning display OFF	Off
4WD CL TMP H	Ignition switch ON	AWD clutch high temperature warning display ON	On
		AWD clutch high temperature warning display OFF	Off
4WD TIRE CHCK	Ignition switch ON	Front/rear tire size discrepancy warning display ON	On
		Front/rear tire size discrepancy warning display OFF	Off
4WD SYS MALF	Ignition switch ON	AWD system warning display ON	On
		AWD system warning display OFF	Off

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COMBINATION METER

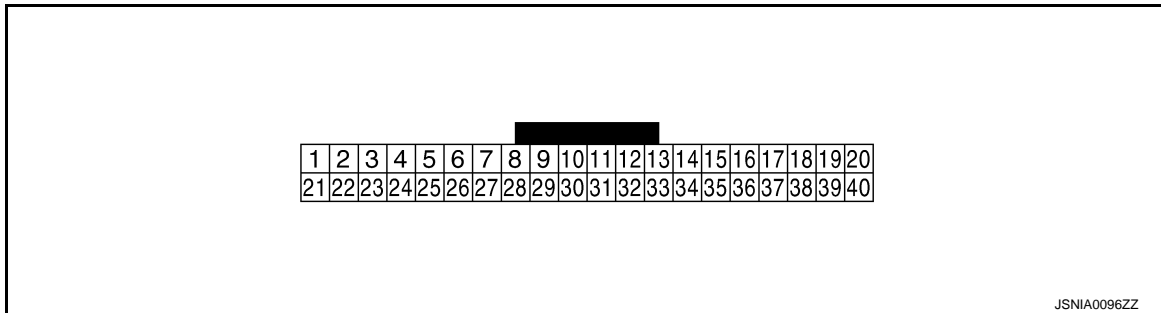
< ECU DIAGNOSIS INFORMATION >

Monitor item	Measuring condition		Standard/Status
ABS MALF	Ignition switch ON	Anti-lock braking system (ABS) warning display ON	On
		Anti-lock braking system (ABS) warning display OFF	Off
VDC MALF	Ignition switch ON	Vehicle dynamic control (VDC) system warning display ON	On
		Vehicle dynamic control (VDC) system warning display OFF	Off
ENG SYS CHCK	Ignition switch ON	Engine system warning display ON	On
		Engine system warning display OFF	Off
ASCD SYS MALF	Ignition switch ON	CRUISE control system warning display ON	On
		CRUISE control system warning display OFF	Off
ASCD REQ SPD	Ignition switch ON	While driving	Same value as ASCD set vehicle speed
ASCD STATUS	Ignition switch ON	ASCD system OFF	Off
		ASCD system ON	ASCD
ASCD SPD BLNK	Ignition switch ON	Blinking status of ASCD set vehicle speed (displayed)	On
		Blinking status of ASCD set vehicle speed (not displayed)	Off
LED LMP R OPEN	Ignition switch ON	Front combination lamp RH malfunction	On
		Front combination lamp RH normal	Off
LED LMP L OPEN	Ignition switch ON	Front combination lamp LH malfunction	On
		Front combination lamp LH normal	Off

NOTE:

Some items are not available according to vehicle specifications.

TERMINAL LAYOUT

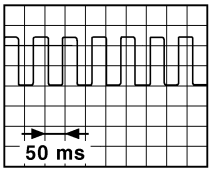
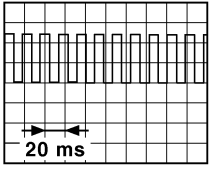


INPUT/OUTPUT SIGNAL STANDARD

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
1 (V)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
2 (W)	Ground	Ignition power supply	Input	Ignition switch ON	—	Battery voltage

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >



Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
3 (B)	Ground	Ground	—	Igni- tion switch ON	—	0 V
5 (B)	Ground	Ground	—	Igni- tion switch ON	—	0 V
6 (W)	Ground	Meter control switch ground	—	Igni- tion switch ON	—	0 V
7 (Y)	Ground	A/C auto amp. connection recognition signal	Input	Igni- tion switch ON	—	5 V
8 (SB)	Ground	Ambient sensor ground	—	Igni- tion switch ON	—	0 V
9 (P)	Ground	Ambient sensor	Input	Igni- tion switch ON	—	Refer to HAC-44. "Component Inspection" .
12 (L)	Ground	Vehicle speed signal (2- pulse)	Output	Igni- tion switch ON	Vehicle speed is approxi- mately 40 km/h (25 MPH)	<p>NOTE: The maximum voltage varies de- pending on the specification (destination unit).</p>  <p style="text-align: right; font-size: small;">JSNIA0015GB</p>
13 (V)	Ground	Vehicle speed signal (8- pulse)	Output	Igni- tion switch ON	Vehicle speed is approxi- mately 40 km/h (25 MPH)	<p>NOTE: The maximum voltage varies de- pending on the specification (destination unit).</p>  <p style="text-align: right; font-size: small;">JSNIA0012GB</p>
14 (B)	Ground	Oil pressure sensor ground	—	Igni- tion switch ON	—	0 V
15 (R)	Ground	Air bag signal	Input	Igni- tion switch ON	Air bag warning lamp ON	5 V
					Air bag warning lamp OFF	0 V

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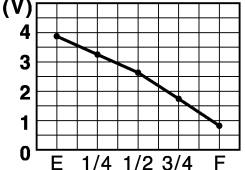
COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
16 (R)	Ground	LED headlamp (RH) warning signal	Input	Ignition switch ON	Headlamp ON	1 V
					Headlamp OFF	12 V
18 (L)	Ground	Fuel level sensor signal ground	—	Ignition switch ON	—	0 V
19 (R)	Ground	Oil level sensor ground	—	Ignition switch ON	—	0 V
20 (W)	Ground	Oil level sensor signal	Input	Ignition switch ON	—	Refer to MWI-67. "Component Inspection" .
21 (L)	Ground	CAN-H	—	Ignition switch ON	—	—
22 (P)	Ground	CAN-L	—	Ignition switch ON	—	—
23 (LG)	6 (W)	Illumination control switch signal (-)	Input	Ignition switch ON	When  - switch is pressed	0 V
					Other than the above	5 V
24 (BR)	6 (W)	Illumination control switch signal (+)	Input	Ignition switch ON	When  + switch is pressed	0 V
					Other than the above	5 V
25 (G)	6 (W)	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
26 (BG)	6 (W)	Enter switch signal	Input	Ignition switch ON	When enter switch is pressed	0 V
					Other than the above	5 V
27 (SB)	6 (W)	Select switch signal	Input	Ignition switch ON	When select switch is pressed	0 V
					Other than the above	5 V
28 (BR)	Ground	Alternator signal	Input	Ignition switch ON	Charging warning lamp ON	0 V
					Charging warning lamp OFF	12 V

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
29 (G)	Ground	Seat belt buckle switch signal (passenger side)	Input	Ignition switch ON	<ul style="list-style-type: none"> When getting in the passenger seat When passenger seat belt is fastened. 	12 V
					<ul style="list-style-type: none"> When getting in the passenger seat When passenger seat belt is unfastened 	0 V
30 (LG)	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
31 (V)	Ground	Parking brake switch signal	Input	Ignition switch ON	Parking brake applied	0 V
					Parking brake released	5 V
32 (V)	Ground	Brake fluid level switch signal	Input	Ignition switch ON	Brake fluid level is normal	0 V
					Brake fluid level is MIN level or less	5 V
33 (L)	Ground	Washer level switch signal	Input	Ignition switch ON	Low washer fluid warning display ON	0 V
					Low washer fluid warning display OFF	5 V
34 (GR)	Ground	Oil pressure sensor power	Output	Ignition switch ON	—	5 V
35 (W)	Ground	Oil pressure sensor signal	Input	Ignition switch ON	—	Refer to MWI-74, "Component Inspection" .
38 (BG)	Ground	Fuel level sensor signal	Input	Ignition switch ON	—	 <p style="text-align: right; font-size: small;">NNNIA0108ZZ</p>
39 (Y)	Ground	LED headlamp (LH) warning signal	Input	Ignition switch ON	Headlamp ON	1 V
					Headlamp OFF	12 V

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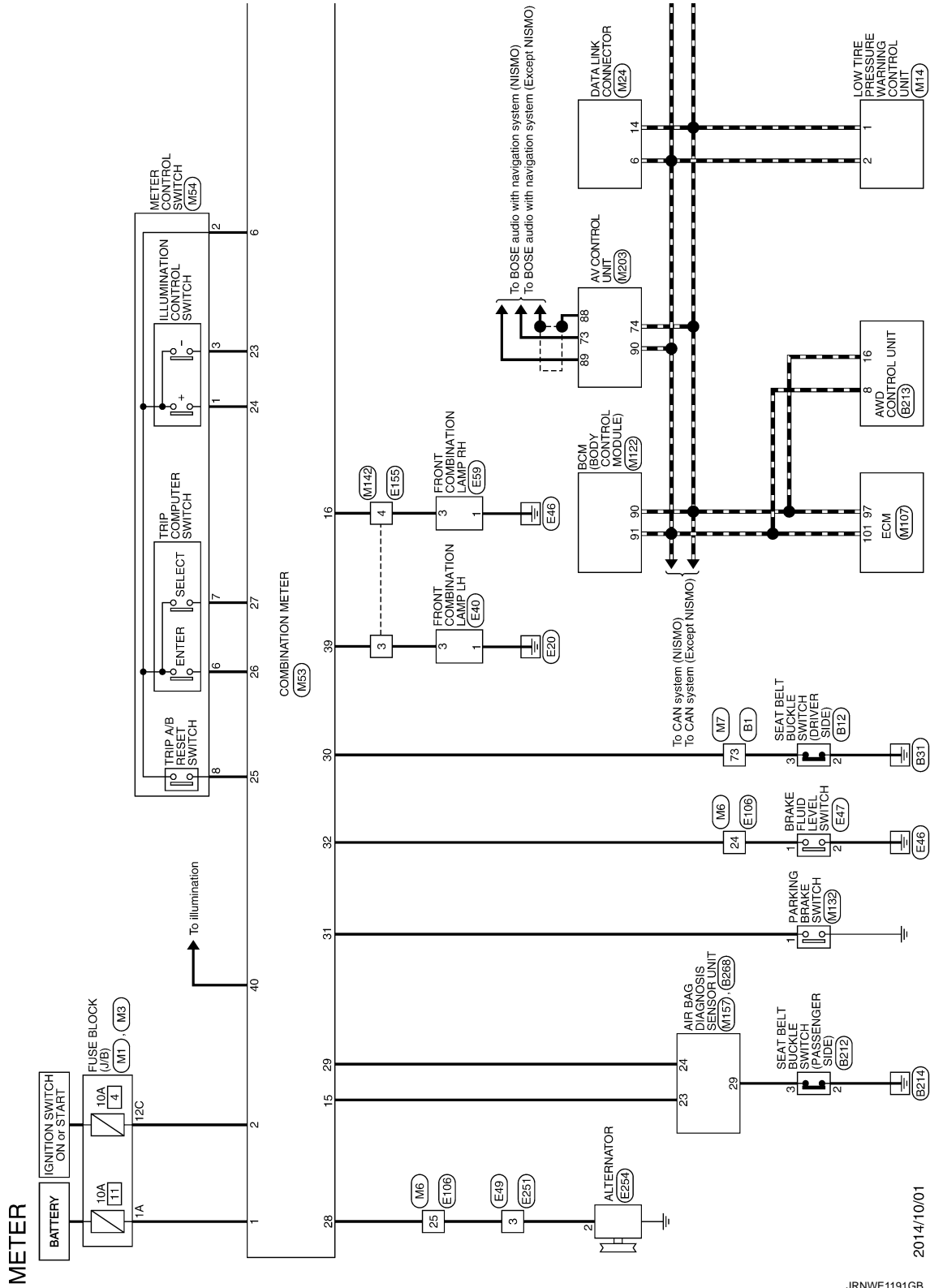
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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

Wiring Diagram - METER -

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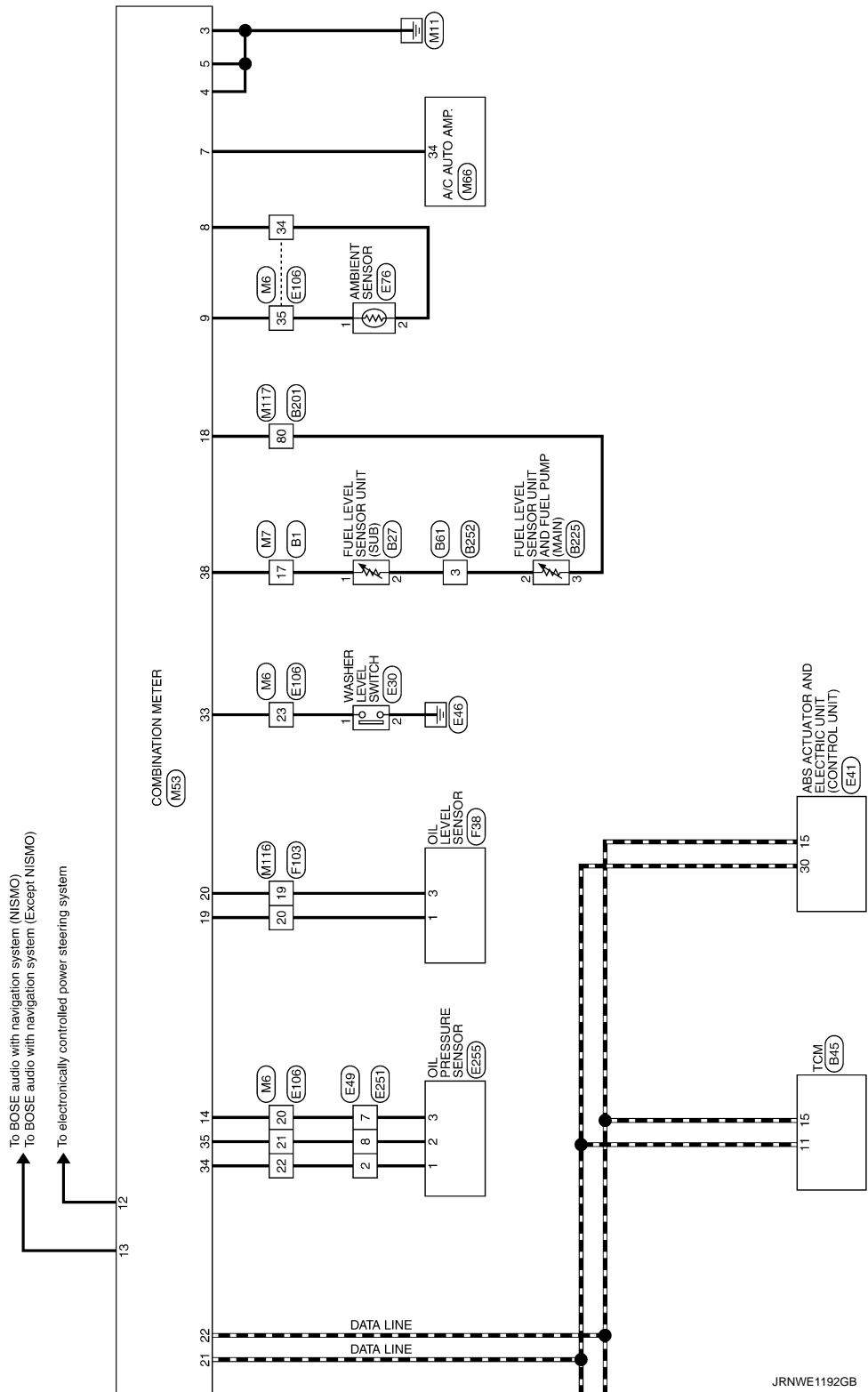


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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >



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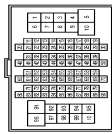
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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-C516-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
2	L	-
3	P	-
6	V	-
7	W	-
8	W	-
9	Y	-
10	R	-
11	Y	-
12	GR	-
13	BG	-
14	Y	-
15	BR	-
16	R	-
17	W	-
18	BR	-
20	GR	-
21	SB	-
22	W	-
23	G	-
24	BG	-
25	L	-
26	P	-
27	GR	-
28	BG	-
31	GR	-
32	L	-
33	V	-
34	BG	-
39	G	-
40	LG	-
41	Y	-
42	SB	-
43	P	-
47	R	-
48	B	-

49	W	-
50	SHIELD	-
51	SB	-
52	B	-
53	R	-
54	B	-
56	R	-
57	G	-
58	G	-
59	R	-
60	BR	-
61	Y	-
62	SHIELD	-
63	LG	-
64	R	-
65	G	-
66	BR	-
67	BG	-
69	P	-
70	L	-
71	SHIELD	-
72	SHIELD	- [Without active noise control unit] V - [With active noise control unit]
73	SB	-
76	R	-
77	SB	-
78	G	-
79	Y	-
80	R	-
81	G	-
82	BR	- [Without active noise control unit] G - [With active noise control unit]
83	R	- [With active noise control unit] Y - [Without active noise control unit]
84	SHIELD	-
85	V	-
86	SB	- [Without active noise control unit] W - [With active noise control unit]
87	L	-
88	P	-
89	SHIELD	-
90	V	-
92	BR	-
93	SB	-
94	GR	-
95	BG	-
96	Y	-
97	Y	-
98	LG	-

99	R	-
100	G	-

Connector No.	B12
Connector Name	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
Connector Type	TK03FW



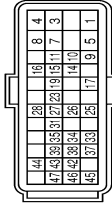
Terminal No.	Color Of Wire	Signal Name [Specification]
2	B	-
3	SB	-

Connector No.	B27
Connector Name	FUEL LEVEL SENSOR UNIT (SUB)
Connector Type	SG202FGY



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

Connector No.	B45
Connector Name	TCM
Connector Type	RH40FB-FZ8L-LH-Z



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	POWER SUPPLY (MEMORY BACK-UP) 2
3	B	GROUND
4	B	GROUND
5	W	POWER SUPPLY (MEMORY BACK-UP) 3
7	B	GROUND
8	B	GROUND
9	P	POWER SUPPLY (MEMORY BACK-UP) 1
10	LG	BACK-UP LAMP SIGNAL
11	L	CANH
14	V	POWER OFF
15	P	CANL
16	W	STOP LAMP SWITCH SIGNAL
17	Y	IGNITION SWITCH SIGNAL
19	GR	STARTER RELAY SIGNAL
23	BR	AUTO MANUAL RANGE CHANGE SWITCH 1 SIGNAL
25	L	RANGE SENSOR POWER SOURCE 1
26	LG	RANGE SENSOR POWER SOURCE 2
27	G	RANGE SENSOR NO. 1 SIGNAL
28	V	AUTO MANUAL RANGE CHANGE SWITCH 2 SIGNAL
31	SB	ENGINE SPEED SIGNAL
33	V	RANGE SENSOR NO. 1 SIGNAL
34	BG	SAVE MODE SWITCH SIGNAL
35	G	RANGE SENSOR NO. 3 SIGNAL
37	GR	R MODE SWITCH SIGNAL
38	R	RANGE SENSOR NO. 2 SIGNAL
39	W	PADDLE SHIFTER (SHIFT UP) SWITCH SIGNAL
42	L	PADDLE SHIFTER (SHIFT DOWN) SWITCH SIGNAL
43	P	RANGE SENSOR NO. 4 SIGNAL
44	GR	RANGE SENSOR NO. 5 SIGNAL
45	BG	R MODE LAMP SIGNAL
46	W	SHIFT LOCK SOLENOID CONTROL SIGNAL
47	G	SAVE MODE LAMP SIGNAL

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

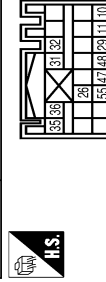
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Connector No.	B252
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



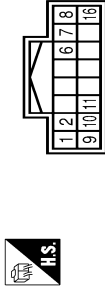
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	Y	-
3	SB	-
4	G	-
5	V	-
6	W	-
7	R	-
8	G	-
9	BG	-
10	GR	-
11	LG	-
12	SHIELD	-

Connector No.	B268
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH22FY-IV-EX



Terminal No.	Color Of Wire	Signal Name [Specification]
10	Y	PRH(+)
11	Y	PRH(-)
26	V	ODS INPUT
29	BG	RHBUCKLE SW INPUT
31	Y	SRH(+)
32	Y	SRH(-)
35	P	CRH(+)
36	L	CRH(-)

Connector No.	B213
Connector Name	AWD CONTROL UNIT
Connector Type	TH16FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	SOL+
2	G	SOL-
3	V	-
6	W	IGN
7	L	CANH
8	L	CANL
9	Y	SOLVB
10	B	GROUND
11	B	GROUND
16	P	CANL

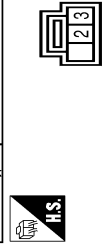
Connector No.	B225
Connector Name	FUEL LEVEL SENSOR UNIT AND FUEL PUMP (MAPR)
Connector Type	SGZ05FGY



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

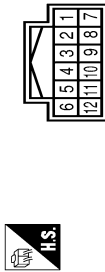
40	P	-
41	GR	-
42	Y	-
43	Y	-
44	V	-
45	W	-
51	SB	-
52	G	-
53	BR	-
54	V	-
60	R	-
61	P	-
62	L	-
63	LG	-
64	GR	-
68	P	-
70	L	-
71	R	-
80	L	-
81	SB	-
82	V	-
83	B	-
84	Y	-
85	BR	-
86	SHIELD	-
87	W	-
96	Y	-
98	BG	-
99	BR	-
100	W	-

Connector No.	B212
Connector Name	SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)
Connector Type	TK03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
2	B	-
3	BG	-

Connector No.	B61
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



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

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-C216-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
6	G	-
7	V	-
8	BG	-
9	W	-
10	P	-
31	V	-
32	LG	-
33	BR	-
34	L	-

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COMBINATION METER

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47	G	SATELLITE RH(+)
48	R	SATELLITE RH(-)
55	SHIELD	GROUND

Connector No.	E30
Connector Name	WASHER LEVEL SWITCH
Connector Type	Z02FBR



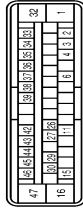
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	BW	-

Connector No.	E40
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	RS08FB-FR



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

Connector No.	E41
Connector Name	ABS ACTUATOR AND ELECTRIC LAMP CONTROL UNIT
Connector Type	AEZ43FBA-JZ4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	UBMR
2	V	DIAG-K
3	GR	VDC OFF SW
4	W	BLS
6	G	VDC UP SW
11	Y	CAN-H
15	P	CAN-L
16	B	GROUND
26	W	CAN-L
27	BR	G SENSOR GROUND
29	BG	LZ
30	L	CANH
32	BG	UBVR
33	W	DS FR
34	BG	DP FR
35	Y	VDC TOP POSITION LED
36	L	DP RL
37	R	DS RL
38	V	BRAKE FLUID LEVEL SW
39	G	G SENSOR POWER
42	V	DS RR
43	LG	DP RR
44	SB	VDC TOP POSITION LED
45	W	DP FL
46	R	DS FL
47	B	GROUND

Connector No.	E47
Connector Name	BRAKE FLUID LEVEL SWITCH
Connector Type	YV02FGY



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

Connector No.	E49
Connector Name	WIRE TO WIRE
Connector Type	RH08MB



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

Connector No.	E59
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	RS08FB-FR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	B/R	-
3	R	-
4	B/O	-
5	R	-
6	V	-
7	BR	-
8	BG	-

Connector No.	E76
Connector Name	AMBIENT SENSOR
Connector Type	RS02FB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	AMBIENT SENSOR SIGNAL
2	P	SENSOR GROUND

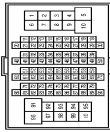
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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-C516-TM4



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

38	SB	-
39	GR	-
40	G	-
41	V	-
42	V	-
43	L	-
44	BR	-
45	G	-
46	SB	-
48	BG	-
49	L	-
50	R	-
51	SHIELD	-
60	P	-
61	L	-
71	LG	-
72	SB	-
74	P	-
75	BR	-
76	LG	-
77	V	-
78	BR	-
79	W	-
80	Y	-
81	GR	-
82	BG	-
84	P	-
85	P	-
86	GR	-
87	R	-
88	L	-
89	BG	-
90	G	-
91	GR	-
92	R	-
93	R	-
94	LG	-
95	G	-
96	GR	-
97	L	-
98	LG	-
99	BG	-
100	L	-

Connector No.	E155
Connector Name	WIRE TO WIRE
Connector Type	TH04FW-NH



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

Connector No.	E254
Connector Name	ALTERNATOR
Connector Type	HS03FB



Terminal No.	Color Of Wire	Signal Name [Specification]
2	BR	L
3	V	S
4	P	C

Connector No.	E251
Connector Name	WIRE TO WIRE
Connector Type	PH06FB



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

Connector No.	E255
Connector Name	OIL PRESSURE SENSOR
Connector Type	PK06FB



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

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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER

Connector No.	F38
Connector Name	OIL LEVEL SENSOR
Connector Type	RS03FSB-GY



Terminal No.	Color	Wire	Signal Name [Specification]
1	R		OIL LEVEL SENSOR GROUND
3	GR		OIL LEVEL SENSOR SIGNAL

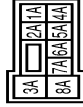
Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK38FW-NS10



Terminal No.	Color	Wire	Signal Name [Specification]
1	GR		
2	R		
3	W		
6	O		
7	B		
8	B		
9	W		
11	B		
12	LG		
13	SB		
14	LG		
15	G		
16	W		
19	GR		
20	R		
21	O		
26	L		
27	P		

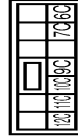
28	LG	
29	R	
30	L	
31	R	
32	W	
33	W	
34	Y	
39	Y	

Connector No.	M1
Connector Name	FUSE BLOCK (JIB)
Connector Type	NS08FW-M2



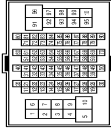
Terminal No.	Color	Wire	Signal Name [Specification]
1A	V		
2A	G		
3A	L		
4A	LG		
5A	SB		
6A	Y		
7A	R		
8A	L		

Connector No.	M3
Connector Name	FUSE BLOCK (JIB)
Connector Type	NS12FW-CS



Terminal No.	Color	Wire	Signal Name [Specification]
10C	L		
11C	R		
12C	W		
6C	R		
7C	B		
9C	BR		

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color	Wire	Signal Name [Specification]
1	L		
3	R		
4	G		
5	Y		
6	P		
7	W		
8	V		
9	L		
10	Y		
11	G		
12	BG		
13	R		
14	L		
15	BR		
16	R		
17	SHIELD		
18	L		
19	P		
20	B		
21	W		
22	GR		
23	L		
24	V		
25	BR		
26	G		
27	SHIELD		

28	G	
29	R	
30	W	
31	V	
32	G	
33	GR	
34	LG	
35	P	
36	L	
37	W	
38	Y	
39	GR	
40	BG	
41	W	
42	R	
43	Y	
44	BR	
45	G	
46	LG	
48	W	
49	L	
50	R	
51	SHIELD	
60	SB	
61	V	
71	W	
72	LG	
74	R	
75	BR	
76	LG	
77	R	
78	BR	
79	W	
80	Y	
81	BG	
82	SB	
84	Y	
85	P	
86	GR	
87	R	
88	L	
89	G	
90	P	
91	W	
92	R	
93	LG	
94	W	
95	SB	
96	L	
97	L	

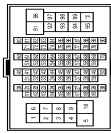
COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER

98	Y	-
99	BG	-
100	L	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	THR0MW-CS16-TM4

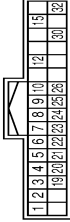


Terminal No.	Color Of Wire	Signal Name [Specification]
2	L	-
3	P	-
5	L	-
7	W	-
8	W	-
9	G	-
10	R	-
11	W	-
12	SB	-
13	G	-
14	W	-
15	BR	-
16	R	-
17	BG	-
18	SB	-
20	GR	-
21	L	-
22	R	-
23	G	-
24	BR	-
25	L	-
26	LG	-
27	W	-
28	R	-
31	GR	-
32	V	-
33	V	-
34	BG	-
39	W	-
40	BG	-
41	R	-

42	V	-
43	W	-
47	G	-
48	R	-
49	W	-
50	SHIELD	-
51	SB	-
52	B	-
53	R	-
54	B	-
56	R	-
57	G	-
58	G	-
59	R	-
60	BR	-
61	Y	-
62	SHIELD	-
63	GR	-
64	R	-
65	G	-
66	BR	-
67	BG	-
69	P	-
70	L	-
71	SHIELD	-
72	SHIELD	- [Without active noise control unit] - [With active noise control unit]
73	LG	-
76	R	-
77	SB	-
78	G	-
79	Y	-
80	R	-
81	G	-
82	BR	- [Without active noise control unit] - [With active noise control unit]
83	R	- [Without active noise control unit]
84	SHIELD	-
85	V	-
86	LG	-
87	L	- [Without active noise control unit] - [With active noise control unit]
88	P	-
89	SHIELD	-
90	V	-
92	LG	-
93	Y	-
94	G	-
95	R	-

96	Y	-
97	R	-
98	G	-
99	L	-
100	W	-

Connector No.	M14
Connector Name	LOW TIRE PRESSURE WARNING CONTROL UNIT
Connector Type	THS2FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	CANL
2	L	CANH
3	BG	RR TUNER (SIG)
4	L	RL TUNER (SIG)
5	R	FR TUNER (SIG)
6	W	FL TUNER (SIG)
7	SB	RR TUNER (PWR)
8	GR	RL TUNER (PWR)
9	R	FR TUNER (PWR)
10	LG	FL TUNER (PWR)
12	W	SW SIG
15	G	IGN
19	R	RR TUNER (RSSI)
20	BG	RL TUNER (RSSI)
21	P	FR TUNER (RSSI)
22	G	FL TUNER (RSSI)
23	GR	RR TUNER (GND)
24	V	RL TUNER (GND)
25	L	FR TUNER (GND)
26	BR	FL TUNER (GND)
30	G	FLASHER SIG
32	B	GROUND

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	-
4	B	-
5	B	-
6	L	-
7	V	-
8	G	-
11	G	-
14	P	-
16	Y	-

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	SAB40FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	BATTERY POWER SUPPLY
2	W	IGNITION POWER SUPPLY
3	B	GROUND
4	B	ILLUMINATION GROUND
5	B	GROUND
6	W	METER CONTROL SWITCH GROUND
7	V	AC AUTO STOP COMPASS MOTOR SIGNAL
8	SB	AMBIENT SENSOR GROUND
9	P	AMBIENT SENSOR SIGNAL
12	L	VEHICLE SPEED SIGNAL (2-PULSE)
13	V	VEHICLE SPEED SIGNAL (8-PULSE)

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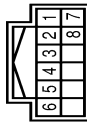
COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER

Terminal No.	Color Of Wire	Signal Name [Specification]
14	B	OIL PRESSURE SENSOR GROUND
15	R	AIR BAG SIGNAL
16	R	LED HEAD LAMP (RH) WARNING SIGNAL
18	L	FUEL LEVEL SENSOR GROUND
19	R	OIL LEVEL SENSOR GROUND
20	W	OIL LEVEL SENSOR SIGNAL
21	L	CANH
22	P	CANH
23	LG	ILLUMINATION CONTROL SWITCH SIGNAL (I)
24	BR	ILLUMINATION CONTROL SWITCH SIGNAL (O)
25	G	TRIP AB RESET SWITCH SIGNAL
26	BG	ENTER SWITCH SIGNAL
27	SB	SELECT SWITCH SIGNAL
28	BR	ALTERNATOR
29	G	SEAT BELT SWITCH SIGNAL (PASSENGER SIDE)
30	LG	SEAT BELT SWITCH SIGNAL (DRIVER SIDE)
31	V	PARKING BRAKE SWITCH SIGNAL
32	Y	BRAKE FLUID LEVEL SWITCH SIGNAL
33	Y	WASHER LEVEL SWITCH SIGNAL
34	GR	OIL PRESSURE SENSOR POWER
35	W	OIL PRESSURE SENSOR SIGNAL
38	BG	FUEL LEVEL SENSOR SIGNAL
39	Y	LED HEAD LAMP (LH) WARNING SIGNAL
40	V	ILLUMINATION CONTROL

Connector No.	M54
Connector Name	METER CONTROL SWITCH
Connector Type	TH12PW-NH



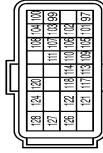
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	W	-
3	LG	-
4	V	-
5	V	-
6	EG	-
7	SB	-
8	G	-

Connector No.	M66
Connector Name	A.C. AUTO AMP.
Connector Type	SAB40FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	CANH
2	P	CANH
10	L	A.C. IAN SIGNAL
11	R	EACH DOOR MOTOR POWER SUPPLY
15	BG	SUNLOAD SENSOR SIGNAL
16	R	INTAKE SENSOR SIGNAL
17	SB	ACC POWER SUPPLY
19	B	GROUND
20	G	IGNITION POWER SUPPLY
24	BG	ECV SIGNAL
32	L	BLOWER MOTOR CONTROL SIGNAL
34	Y	A.C. AUTO AMP. CONNECTION SIGNAL
35	P	AMBIENT SENSOR SIGNAL
36	LG	IN-VEHICLE SENSOR SIGNAL
37	BG	SENSOR GROUND
39	B	GROUND
40	Y	BATTERY POWER SUPPLY

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGY-R28-RLH-Z



Terminal No.	Color Of Wire	Signal Name [Specification]
97	P	CAN COMMUNICATION LINE
99	SB	SENSOR POWER SUPPLY
100	BR	SENSOR POWER SUPPLY

Terminal No.	Color Of Wire	Signal Name [Specification]
101	L	CAN COMMUNICATION LINE
102	G	ASC/D STEERING SWITCH
103	GR	SENSOR GROUND
104	P	ACCELERATOR PEDAL POSITION SENSOR 1
105	W	ECM RELAY (SELF SHUT-OFF)
106	LG	IGNITION SWITCH
107	BG	SENSOR GROUND
108	L	ACCELERATOR PEDAL POSITION SENSOR 2
109	L	SAVALVERLY
110	P	STOP LAMP SWITCH
111	GR	PNP SIGNAL
113	SB	ENGINE SPEED OUTPUT SIGNAL
114	V	DATA LINK CONNECTOR
117	R	ASC/D BRAKE SWITCH
118	W	POWER SUPPLY FOR ECM (BACK-UP)
120	BR	SAPMERLY
121	P	POWER SUPPLY FOR ECM
122	V	POWER SUPPLY FOR ECM
124	B	ECM GROUND
126	L	FUEL PUMP RELAY
127	G	THROTTLE CONTROL MOTOR RELAY
128	B	ECM GROUND

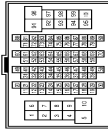
Connector No.	M116
Connector Name	WIFE TO WIRE
Connector Type	TK36MM-NS10



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	R	-
3	W	-
6	P	-
7	B	-
8	B	-
9	W	-
11	B	-
12	LG	-
13	B	-
14	BR	-
15	G	-

Terminal No.	Color Of Wire	Signal Name [Specification]
16	W	-
19	W	-
20	R	-
21	BG	-
26	L	-
27	Y	-
28	LG	-
29	BR	-
30	Y	-
31	R	-
32	LG	-
33	LG	-
34	Y	-
39	V	-

Connector No.	M117
Connector Name	WIFE TO WIRE
Connector Type	TP80MM-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
6	G	-
7	V	-
8	G	-
9	W	-
10	L	-
31	Y	-
32	LG	-
33	BR	-
34	L	-
40	G	-
41	R	-
42	SB	-
43	L	-
44	R	-
45	G	-
50	SB	-
52	BG	-
53	R	-
54	GR	-
60	L	-


COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER

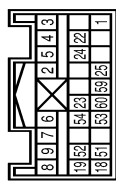
61	P	-	CAN-L
62	L	-	CAN-H
63	Y	-	KEY SLOT ILL OUTPUT
64	LG	-	ON IND
69	P	-	ACC RELAY CONT
70	L	-	A/T SHIFT SELECTOR POWER SUPPLY
71	Y	-	S/L CONDITION 1
80	L	-	S/L CONDITION 2
81	G	-	SHIFT P
82	BR	-	PASSENGER DOOR REQUEST SW
83	B	-	DRIVER DOOR REQUEST SW
84	V	-	BLOWER FAN MOTOR RELAY CONT
85	SB	-	KEYLESS ENTRY RECEIVER POWER SUPPLY
86	SHIELD	-	S/L UNIT POWER SUPPLY
87	W	-	COMBI SW INPUT 1
88	Y	-	COMBI SW INPUT 4
89	G	-	COMBI SW INPUT 2
89	V	-	HAZARD SW
100	W	-	S/L UNIT COMM

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




Terminal No.	Color Of Wire	Signal Name [Specification]
72	R	ROOM ANT2+
73	G	ROOM ANT2-
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT1+
79	BR	ROOM ANT1-
80	GR	IMMOBI ANTENNA CONTROL
81	V	IMMOBI ANTENNA SIGNAL
82	P	IGN RELAY (FEB) CONT
83	Y	KEYLESS ENTRY RECEIVER COMM
87	BR	COMBI SW INPUT 5
88	V	COMBI SW INPUT 3
89	BR	PUSH SW

Connector No.	M157
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	IN26FY-EX




Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	IGN
2	B	GROUND
3	Y	DR1 (-) DR2 (-)
4	Y	DR1 (+)
5	Y	DR2 (+)
6	Y	AS2 (+)
7	Y	AS1 (-)
8	Y	AS2 (+)
9	Y	AS2 (-)
18	SB	ECZS (+)
19	V	ECZS (-)
22	SHIELD	GROUND
23	R	AIR BAG W/L
24	G	SEAT BELT
25	R	CUTOFF TAILALE
51	R	SIDE SENS RH2+
52	G	SIDE SENS RH2-

Connector No.	M142
Connector Name	WIFE TO WIRE
Connector Type	TH40MW-NH



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

Connector No.	M203
Connector Name	AV CONTROL UNIT
Connector Type	TH32FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
53	Y	SIDE SENS LH2+
54	BR	SIDE SENS LH2-
59	L	CAN-H
60	P	CAN-L

Terminal No.	Color Of Wire	Signal Name [Specification]
85	R	PARKING BRAKE
87	W	COMPOSITE IMAGE GND
88	R	COMPOSITE IMAGE SIGNAL
71	SHIELD	MICROPHONE GND
72	L	MICROPHONE VCC
73	V	COMM (CONT) DISP
74	P	CAN-L
75	R	AV COMM (L)
76	R	AV COMM (L)
79	R	ILLUMINATION
80	W	IGNITION
81	BG	REVERSE
82	V	VEHICLE SPEED (8-PULSE)
83	SHIELD	SHIELD
84	B	COMPOSITE SYNCHRONIZING SIGNAL
87	P	MICROPHONE SIGNAL
88	SHIELD	SHIELD
89	SB	COMM (DISP-CONT)
90	L	CAN-H
91	G	AV COMM (H)
92	G	AV COMM (H)

Fail-safe

FAIL-SAFE

If the CAN communication with each unit is activated, the combination meter breaks the fail-safe control.

JRNWE1200GB

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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

System		Processing
Speedometer		Returns to zero when communication is blocked.
Tachometer		
Engine coolant temperature gauge		
Meter illumination control		Shifts to night mode when communication is blocked.
Shift position indicator		Turned OFF when communication is blocked.
Information display	Door open warning	Indication is turned OFF when communication is blocked.
	Trunk open warning	
	Parking brake release warning	
	Shift " P " warning	
	Transmission system check	
	Shift lever position warning	
	Transmission clutch high temperature warning	
	Transmission oil high temperature warning	
	Transmission system warning	
	Run-flat tire warning	
	Low tire pressure warning	
	Tire pressure monitoring system warning	
	AWD clutch high temperature warning	
	Front/rear tire size discrepancy warning	
	AWD system warning	
	Anti-lock braking system (ABS) warning	
	Vehicle dynamic control (VDC) system warning	
	Engine system warning	
	CRUISE control system warning	
	CRUISE control system status	
Reverse warning		
Vehicle speed display	0 km/h (0 MPH) is indicated when communication is blocked.	
Possible driving distance	Displays the last calculation result calculated under a normal status when communication is blocked.	
Average fuel consumption		
Instantaneous fuel consumption		
Average vehicle speed		
Warning buzzer		Warning is turned OFF when communication is blocked.

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

	System	Processing	
Warning lamp/indicator lamp	ABS warning lamp	Turned ON when communication is broken.	A
	VDC warning lamp		B
	Brake warning lamp		C
	AWD warning lamp		D
	Malfunction indicator lamp (MIL)		E
	Tire pressure warning lamp	Blinks first, then illuminates after approximately 1 minute.	F
	High beam indicator lamp	Turned OFF when communication is broken.	G
	Turn signal indicator lamp		H
	Tail lamp indicator lamp		I
	CRUISE indicator lamp		J
	SET indicator lamp		K
	KEY warning lamp		L
	Up-shift indicator (green)		M
	Up-shift indicator (yellow)		
	Up-shift indicator (red)		
	Transmission check warning lamp		
VDC OFF indicator lamp			

DTC Index

INFOID:0000000011796688

NOTE:

Details of time display

- CRNT: Displays during the current malfunctioning detection.
- PAST: Displays if any previous malfunction is present when the current status is normal.

IGN counter

- The IGN counter is displayed in the freeze frame data (FFD).
- The IGN counter indicates the number of times ignition switch is turned ON after the DTC detection.
 - When a trouble is currently being detected, it displays "0".
 - After the status returns to normal, the indication value is incremented as "1 → 2 → 3 → ... 38 → 39" every time the ignition switch is turned OFF → ON.
 - When the operation count of ignition switch OFF → ON exceeds 39, the indication will be fixed at "39" until the self-diagnosis is deleted.

Display contents of CONSULT	Diagnostic item is detected if ...	Refer to
CAN COMM CIRCUIT [U1000]	Combination meter cannot communicate CAN communication signal for 2 seconds or more	MWI-61. "Diagnosis Procedure"
CONTROL UNIT (CAN) [U1010]	Malfunction is detected during initial diagnosis of combination meter CAN controller	MWI-62. "Diagnosis Procedure"
VEHICLE SPEED [B2205]	Abnormal vehicle speed signal is received from ABS actuator and electric unit (control unit) for 2 seconds or more	MWI-63. "Diagnosis Procedure"
ENGINE SPEED [B2267]	ECM continuously transmits abnormal engine speed signal for 2 seconds or more	MWI-64. "Diagnosis Procedure"

WCS

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Diagnostic item is detected if ...	Refer to
WATER TEMP [B2268]	ECM continuously transmits abnormal coolant temperature signal for 60 seconds or more	MWI-65. "Diagnosis Procedure"
OIL LEV SEN OPEN [B2321]	Signal from oil level sensor is open (resistance value of oil level sensor is larger than 20 Ω).	MWI-66. "Diagnosis Procedure"
OIL LEV SEN SHORT [B2322]	Signal from oil level sensor is shorted (resistance value of oil level sensor is smaller than 3 Ω).	MWI-66. "Diagnosis Procedure"

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000011796754

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
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
RR FOG SW	NOTE: 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	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-RL	NOTE: The item is indicated, but not monitored.	Off

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
S/L LOCK-IPDM	Steering is unlocked	Off
	Steering is locked	On
S/L UNLK-IPDM	Steering is locked	Off
	Steering is unlocked	On
S/L RELAY-REQ	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK	Off
	Steering lock system is the LOCK condition or the changing condition from LOCK to UNLOCK	On
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading
DOOR STAT-DR	Driver door is locked	LOCK
	Wait with selective UNLOCK operation (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	Steering is locked	Reset
	Steering is unlocked	Set
PRMT ENG STRT	The engine start is prohibited	Reset
	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
KEY SW -SLOT	Intelligent Key is not inserted into key slot	Off
	Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	—
CONFIRM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done
CONFIRM ID4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done
CONFIRM ID3	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done
CONFIRM ID1	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
TP 4	The ID of fourth Intelligent Key is not registered to BCM	Yet	A
	The ID of fourth Intelligent Key is registered to BCM	Done	
TP 3	The ID of third Intelligent Key is not registered to BCM	Yet	B
	The ID of third Intelligent Key is registered to BCM	Done	
TP 2	The ID of second Intelligent Key is not registered to BCM	Yet	C
	The ID of second Intelligent Key is registered to BCM	Done	
TP 1	The ID of first Intelligent Key is not registered to BCM	Yet	D
	The ID of first Intelligent Key is registered to BCM	Done	

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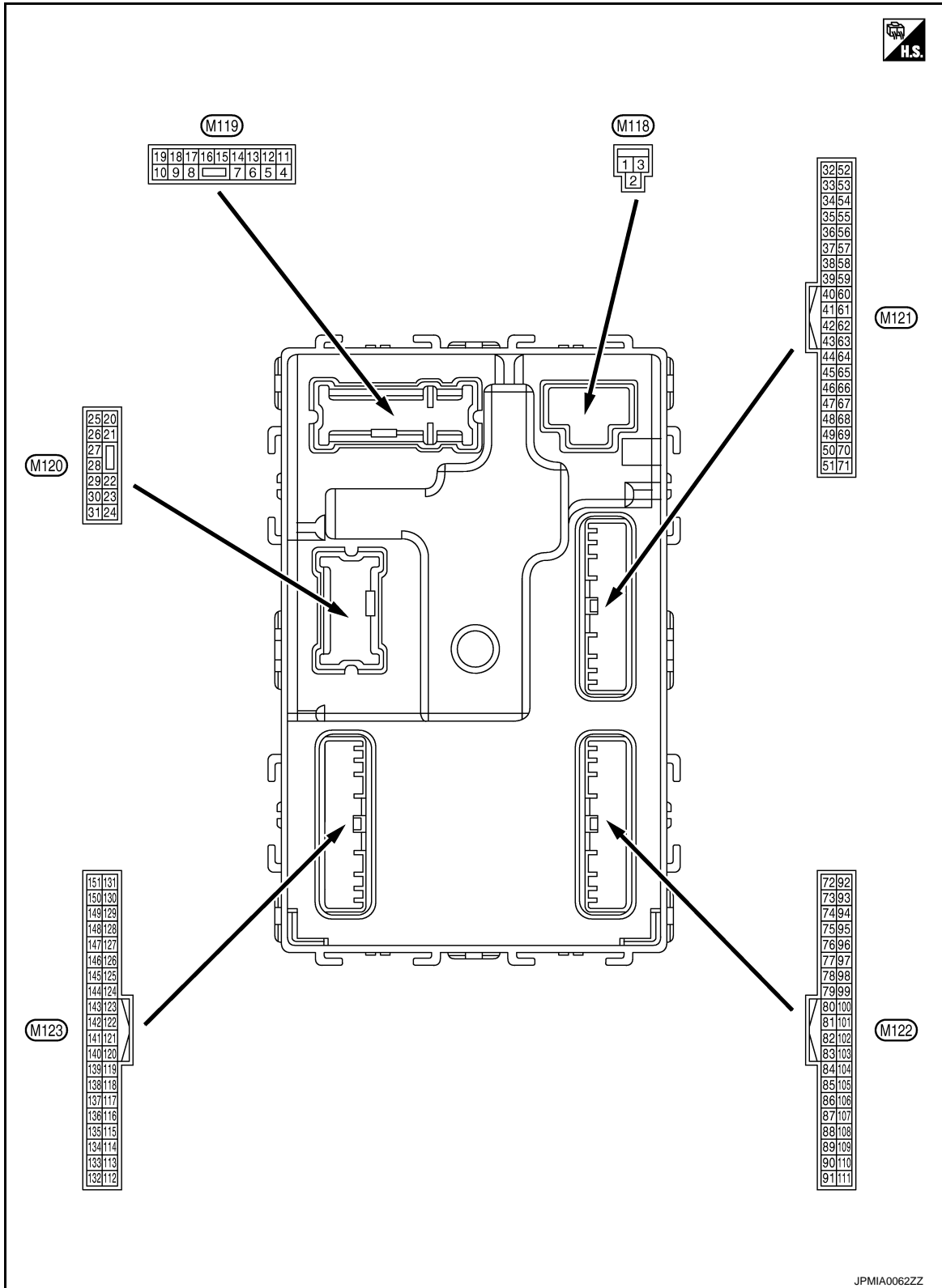
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BCM (BODY CONTROL MODULE)

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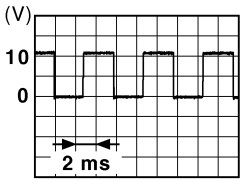
TERMINAL LAYOUT



PHYSICAL VALUES

BCM (BODY CONTROL MODULE)

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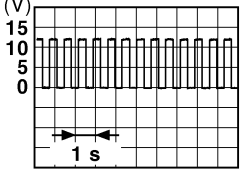
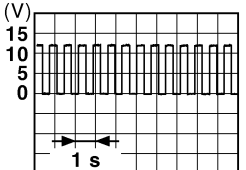
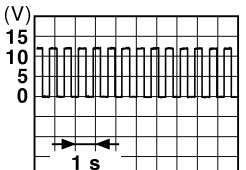
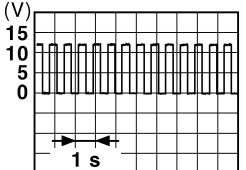
Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
+	-					
1 (W)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage	
2 (R)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF	Battery voltage	
3 (W)	Ground	P/W power supply (RAP)	Output	Ignition switch ON	Battery voltage	
4 (R)	Ground	Interior room lamp power supply	Output	After passing the interior room lamp battery saver operation time	0 V	
				Any other time after passing the interior room lamp battery saver operation time	Battery voltage	
5 (G)	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 control signal	Output	Step lamp	ON	0 V
					OFF	Battery voltage
8 (V)	Ground	All doors, fuel lid LOCK	Output	All doors, fuel lid	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, fuel lid	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 (P)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	OFF	0 V
					ON	<p>NOTE: When the illumination brightening/dimming level is in the neutral position</p>  <p style="text-align: right; font-size: small;">JSNIA0010GB</p>
15 (Y)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
					ACC or ON	0 V

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Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
17 (W)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 <p style="text-align: right; font-size: small;">PKID0926E</p>
18 (BG)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 <p style="text-align: right; font-size: small;">PKID0926E</p>
19 (V)	Ground	Interior room lamp control signal	Output	Interior room lamp	OFF	Battery voltage
					ON	0 V
20 (SB)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 <p style="text-align: right; font-size: small;">PKID0926E</p>
23 (G)	Ground	Trunk lid open	Output	Trunk lid	Open (Trunk lid opener ac- tuator is activated)	Battery voltage
					Close (Trunk lid opener ac- tuator is not activated)	0 V
25 (V)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 <p style="text-align: right; font-size: small;">PKID0926E</p>
30 (BG)	Ground	Trunk room lamp control signal	Output	Trunk room lamp	ON	0 V
					OFF	Battery voltage

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

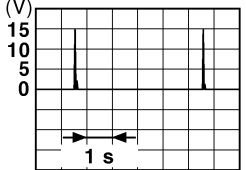
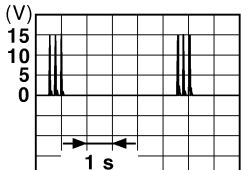
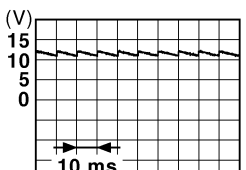
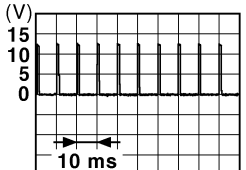
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
34 (P)	Ground	Trunk room antenna (-)	Output	Ignition switch OFF	
				When Intelligent Key is not in the passenger compart- ment	
35 (L)	Ground	Trunk room antenna (+)	Output	Ignition switch OFF	
				When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

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BCM (BODY CONTROL MODULE)

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Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
39 (BR)	Ground	Rear bumper antenna (+)	Output	When the trunk lid opener request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 <small>JMKIA0062GB</small>
				When Intelligent Key is not in the antenna detection area	 <small>JMKIA0063GB</small>	
47 (Y)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC	Battery voltage
					ON	0 V
50 (R)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (Trunk is closed)	 <small>JPMIA0011GB</small> 11.8 V
					ON (Trunk is open)	0 V
52 (SB)	Ground	Starter relay control	Output	Ignition switch ON	When shift lever is in P or N position	Battery voltage
					When shift lever is not in P or N position	0 V
61 (W)	Ground	Trunk lid opener request switch	Input	Trunk lid opener request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 <small>JPMIA0016GB</small> 1.0 V
64 (BG)	Ground	Intelligent Key warning buzzer (Engine room)	Output	Intelligent Key warning buzzer (Engine room)	Sounding	0 V
					Not sounding	Battery voltage

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
67 (G)	Ground	Trunk lid opener switch	Input	Trunk lid opener switch	Pressed	0 V
					Not pressed	11.8 V
72 (R)	Ground	Room antenna 2 (-) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	<p style="text-align: right; font-size: small;">JMkia0011GB</p>
					When Intelligent Key is not in the passenger compart- ment	<p style="text-align: right; font-size: small;">JMkia0062GB</p>
73 (G)	Ground	Room antenna 2 (+) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	<p style="text-align: right; font-size: small;">JMkia0062GB</p>
					When Intelligent Key is not in the passenger compart- ment	<p style="text-align: right; font-size: small;">JMkia0063GB</p>

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Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
74 (SB)	Ground	Passenger door antenna (-)	Output	When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>
75 (BR)	Ground	Passenger door antenna (+)	Output	When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>
76 (V)	Ground	Driver door antenna (-)	Output	When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

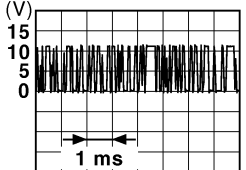
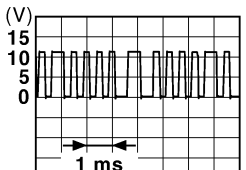

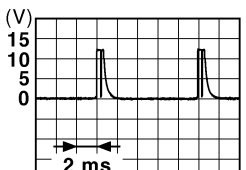
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
77 (LG)	Ground	Driver door antenna (+)	Output	When Intelligent Key is in the antenna detection area	
				When the driver door request switch is operat- ed with ignition switch OFF	
78 (Y)	Ground	Room antenna 1 (-) (Instrument panel)	Output	When Intelligent Key is in the passenger compart- ment	
				When Intelligent Key is not in the passenger compart- ment	
79 (BR)	Ground	Room antenna 1 (+) (Instrument panel)	Output	When Intelligent Key is in the passenger compart- ment	
				When Intelligent Key is not in the passenger compart- ment	

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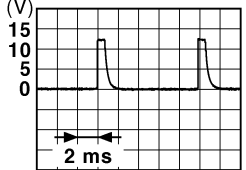
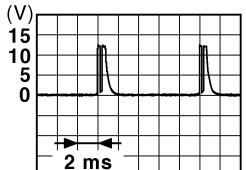

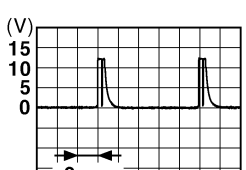
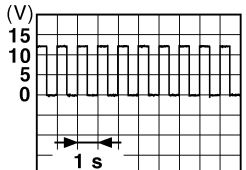
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
81 (L)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent 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
83 (Y)	Ground	Remote keyless entry receiver communication	Input/ Output	During waiting		 <p style="text-align: right; font-size: small;">JMKIA0064GB</p>
				When operating either button on Intelligent Key		 <p style="text-align: right; font-size: small;">JMKIA0065GB</p>
87 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0041GB</p> <p style="text-align: center;">1.4 V</p>
					Any of the conditions below with all switches OFF	<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7  <p style="text-align: right; font-size: small;">JPMIA0040GB</p> <p style="text-align: center;">1.3 V</p>

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)	 <small>JPMIA0041GB</small> 1.4 V
					Lighting switch HI (Wiper intermittent dial 4)	 <small>JPMIA0036GB</small> 1.3 V
					Lighting switch 2ND (Wiper intermittent dial 4)	 <small>JPMIA0037GB</small> 1.3 V
					Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 	 <small>JPMIA0040GB</small> 1.3 V
89 (BR)	Ground	Push-button ignition switch (push switch)	Input	Push-button igni- tion switch (push switch)	Pressed Not pressed	0 V Battery voltage
90 (P)	Ground	CAN - L	Input/ Output	—	—	—
91 (L)	Ground	CAN - H	Input/ Output	—	—	—
92 (LG)	Ground	Key slot illumination	Output	Key slot illumina- tion	OFF	Battery voltage
					Blinking	 <small>JPMIA0015GB</small> 6.5 V
					ON	0 V

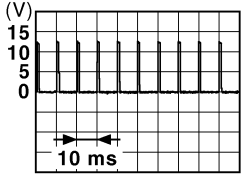
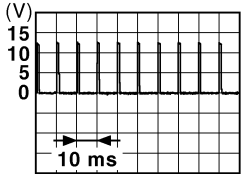
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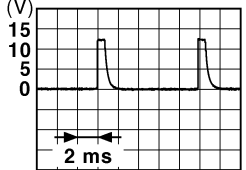
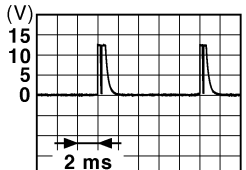

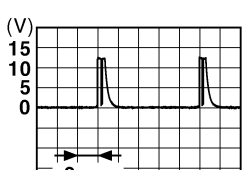

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
93 (V)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
					ON or ACC	0 V
95 (BG)	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
					ACC or ON	Battery voltage
96 (SB)	Ground	A/T shift selector (detention switch) power supply	Output	—		Battery voltage
97 (L)	Ground	Steering lock condition No. 1	Input	Steering lock	LOCK status	0 V
					UNLOCK status	Battery voltage
98 (R)	Ground	Steering lock condition No. 2	Input	Steering lock	LOCK status	Battery voltage
					UNLOCK status	0 V
99 (G)	Ground	Shift lever P position switch	Input	Shift lever	P position	0 V
					Any position other than P	Battery voltage
100 (W)	Ground	Passenger door request switch	Input	Passenger door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 <p style="text-align: center;">1.0 V</p>
101 (V)	Ground	Driver door request switch	Input	Driver door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 <p style="text-align: center;">1.0 V</p>
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
106 (P)	Ground	Steering lock unit power supply	Output	Ignition switch	OFF or ACC	Battery voltage
					ON	0 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

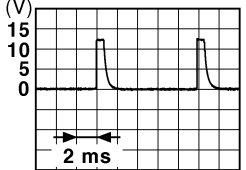
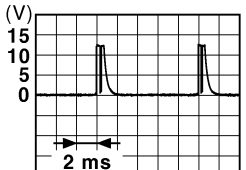
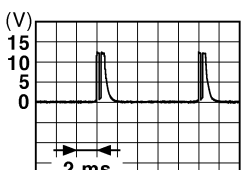
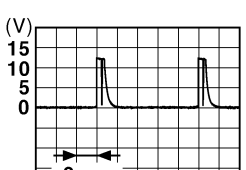
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermittent dial 4)	All switches OFF <div style="text-align: right;">  <p>1.4 V</p> </div>
					Turn signal switch LH <div style="text-align: right;">  <p>1.3 V</p> </div>
					Turn signal switch RH <div style="text-align: right;">  <p>1.3 V</p> </div>
					Front wiper switch LO <div style="text-align: right;">  <p>1.3 V</p> </div>
					Front washer switch ON <div style="text-align: right;">  <p>1.3 V</p> </div>

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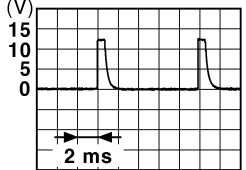
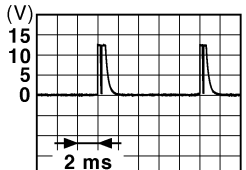

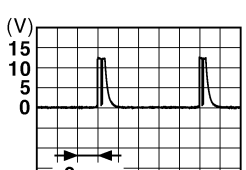

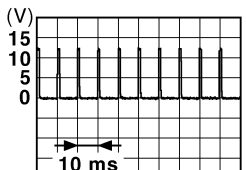
BCM (BODY CONTROL MODULE)

< 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) <div style="text-align: right;">  <p style="font-size: small; margin: 0;">JPMIA0041GB</p> <p style="margin: 0;">1.4 V</p> </div>
				Combination switch	Lighting switch AUTO (Wiper intermittent dial 4) <div style="text-align: right;">  <p style="font-size: small; margin: 0;">JPMIA0038GB</p> <p style="margin: 0;">1.3 V</p> </div>
				Combination switch	Lighting switch 1ST (Wiper intermittent dial 4) <div style="text-align: right;">  <p style="font-size: small; margin: 0;">JPMIA0036GB</p> <p style="margin: 0;">1.3 V</p> </div>
				Combination switch	Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 <div style="text-align: right;">  <p style="font-size: small; margin: 0;">JPMIA0039GB</p> <p style="margin: 0;">1.3 V</p> </div>

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	 <small>JPMIA0041GB</small> 1.4 V
					Lighting switch PASS	 <small>JPMIA0037GB</small> 1.3 V
					Lighting switch 2ND	 <small>JPMIA0036GB</small> 1.3 V
					Front wiper switch INT	 <small>JPMIA0038GB</small> 1.3 V
					Front wiper switch HI	 <small>JPMIA0040GB</small> 1.3 V
					Pressed	0 V
110 (G)	Ground	Hazard switch	Input	Hazard switch	Not pressed	 <small>JPMIA0012GB</small> 1.1 V

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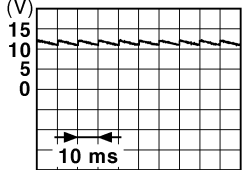
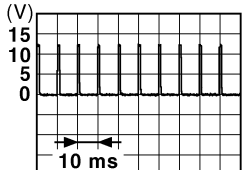
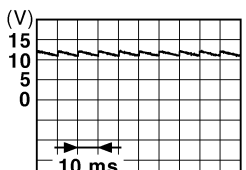
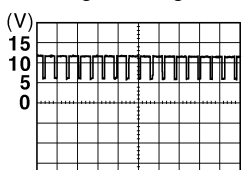
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
111 (Y)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK status	Battery voltage
					LOCK or UNLOCK	<p style="text-align: right; font-size: small;">JMKIA0066GB</p>
					For 15 seconds after UN- LOCK	Battery voltage
				15 seconds or later after UNLOCK	0 V	
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	Input	Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
					ON (Brake pedal is de- pressed)	Battery voltage
119 (SB)	Ground	Driver side door lock actuator (Unlock sen- sor)	Input	Driver door	LOCK status (Unlock sen- sor switch OFF)	<p style="text-align: right; font-size: small;">JPMIA0011GB</p>
					UNLOCK status (Unlock sensor switch ON)	0 V
121 (R)	Ground	Key slot switch	Input	When Intelligent Key is inserted into key slot	Battery voltage	
				When Intelligent Key is not inserted into key slot	0 V	
123 (BR)	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 (When passenger door closes)	<p style="text-align: right; font-size: small;">JPMIA0011GB</p>
					ON (When passenger door opens)	0 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

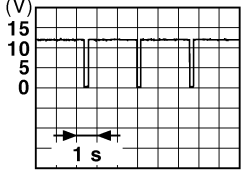
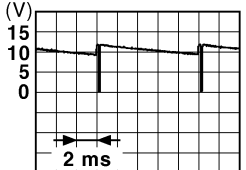
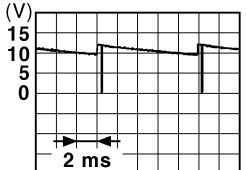
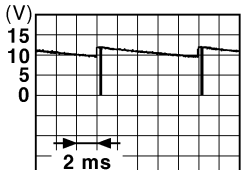
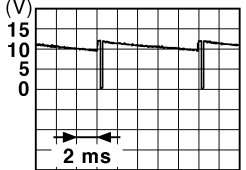
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
128 (P)	Ground	Door lock and unlock switch LOCK	Input	Door lock and un- lock switch (pow- er window main switch or power window sub- switch)	NEUTRAL position  11.8 V
				LOCK position	0 V
129 (BG)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL  1.1 V
				ON	0 V
131 (BR)	Ground	Door lock and unlock switch UNLOCK	Input	Door lock and un- lock switch (pow- er window main switch or power window sub- switch)	NEUTRAL position  11.8 V
				LOCK position	0 V
133 (W)	Ground	Push-button ignition switch illumination	Output	Push-button ignition switch illumina- tion	ON (When tail lamps OFF) 5.5 V
				ON (When tail lamps ON)  NOTE: The pulse width of this wave is varied by the illumination bright- ening/dimming level.	
				OFF	0 V
134 (GR)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	ON 0 V
				OFF	Battery voltage
137 (L)	Ground	Receiver and sensor ground	Input	Ignition switch ON	0 V
138 (Y)	Ground	Sensor power supply	Output	Ignition switch	OFF 0 V
				ACC or ON	5.0 V
140 (BR)	Ground	Shift lever P/N posi- tion	Input	Shift lever	P or N position 12 V
				Except P and N positions	0 V

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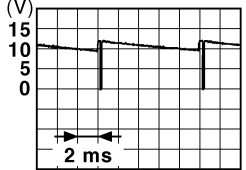
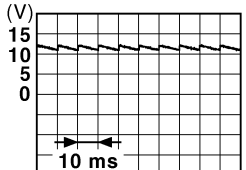
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
141 (G)	Ground	Security indicator	Output	Security indicator	ON	0 V
				Blinking	 <p style="text-align: right; font-size: small;">JPMA0014GB</p>	11.3 V
142 (BG)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermittent dial 4)	All switches OFF	Battery voltage
				Lighting switch 1ST	 <p style="text-align: right; font-size: small;">JPMA0031GB</p>	10.7 V
				Lighting switch HI		
				Lighting switch 2ND		
				Turn signal switch RH		
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switches OFF (Wiper intermittent dial 4)	0 V
				 <p style="text-align: right; font-size: small;">JPMA0032GB</p>	10.7 V	
					Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7 	
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switches OFF (Wiper intermittent dial 4)	0 V
				 <p style="text-align: right; font-size: small;">JPMA0033GB</p>	10.7 V	
					Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 	
145 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermittent dial 4)	All switches OFF	0 V
				 <p style="text-align: right; font-size: small;">JPMA0034GB</p>	10.7 V	
					Front wiper switch INT	
					Lighting switch AUTO	

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	All switches OFF	0 V
				Lighting switch 2ND	
				Lighting switch PASS	
				Turn signal switch LH	
150 (GR)	Ground	Driver door switch	Input	OFF (When driver door closes)	
				ON (When driver door opens)	0 V
151 (G)	Ground	Rear window defogger relay control	Output	Rear window defogger	Active
				Not activated	Battery voltage

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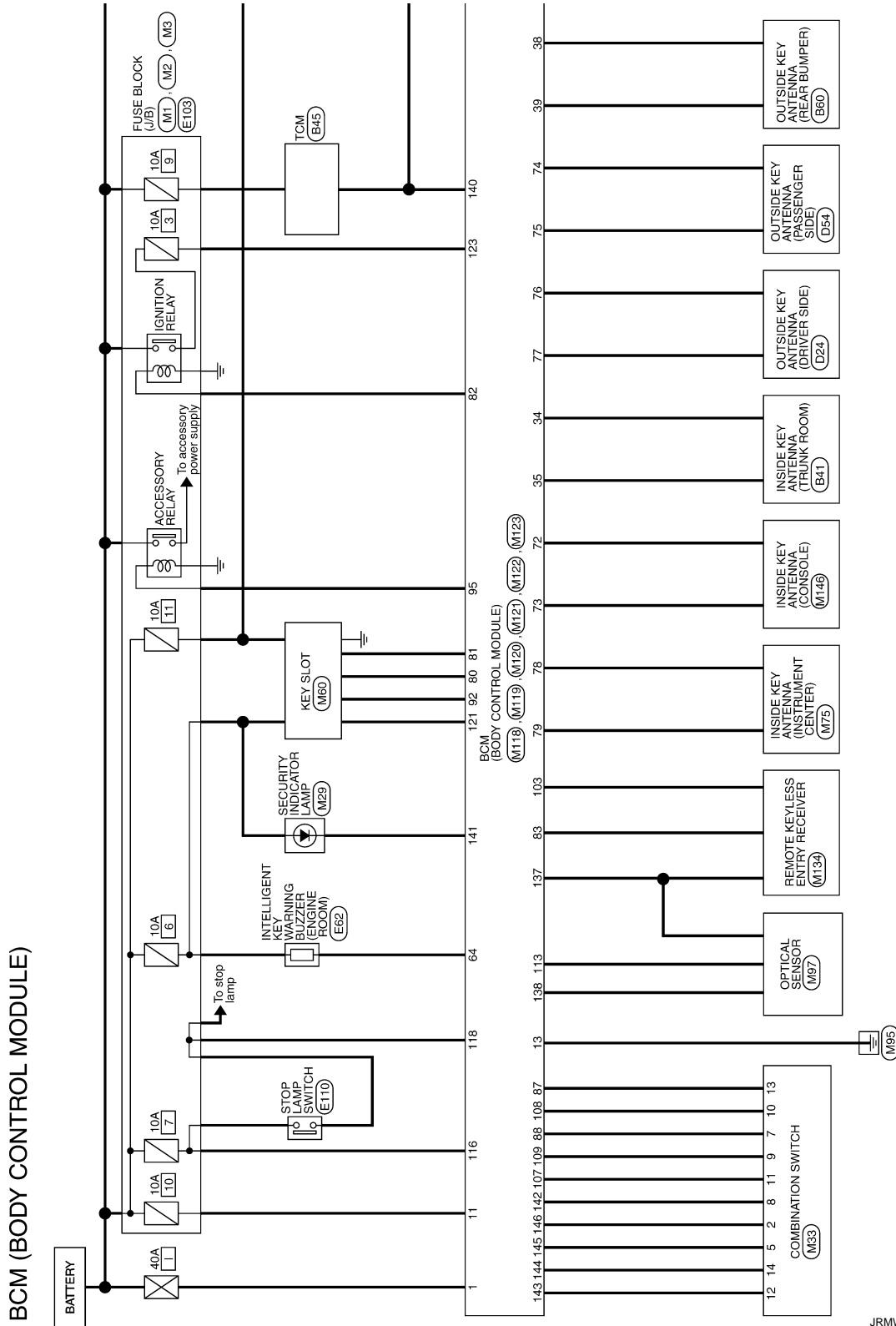
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Wiring Diagram - BCM -

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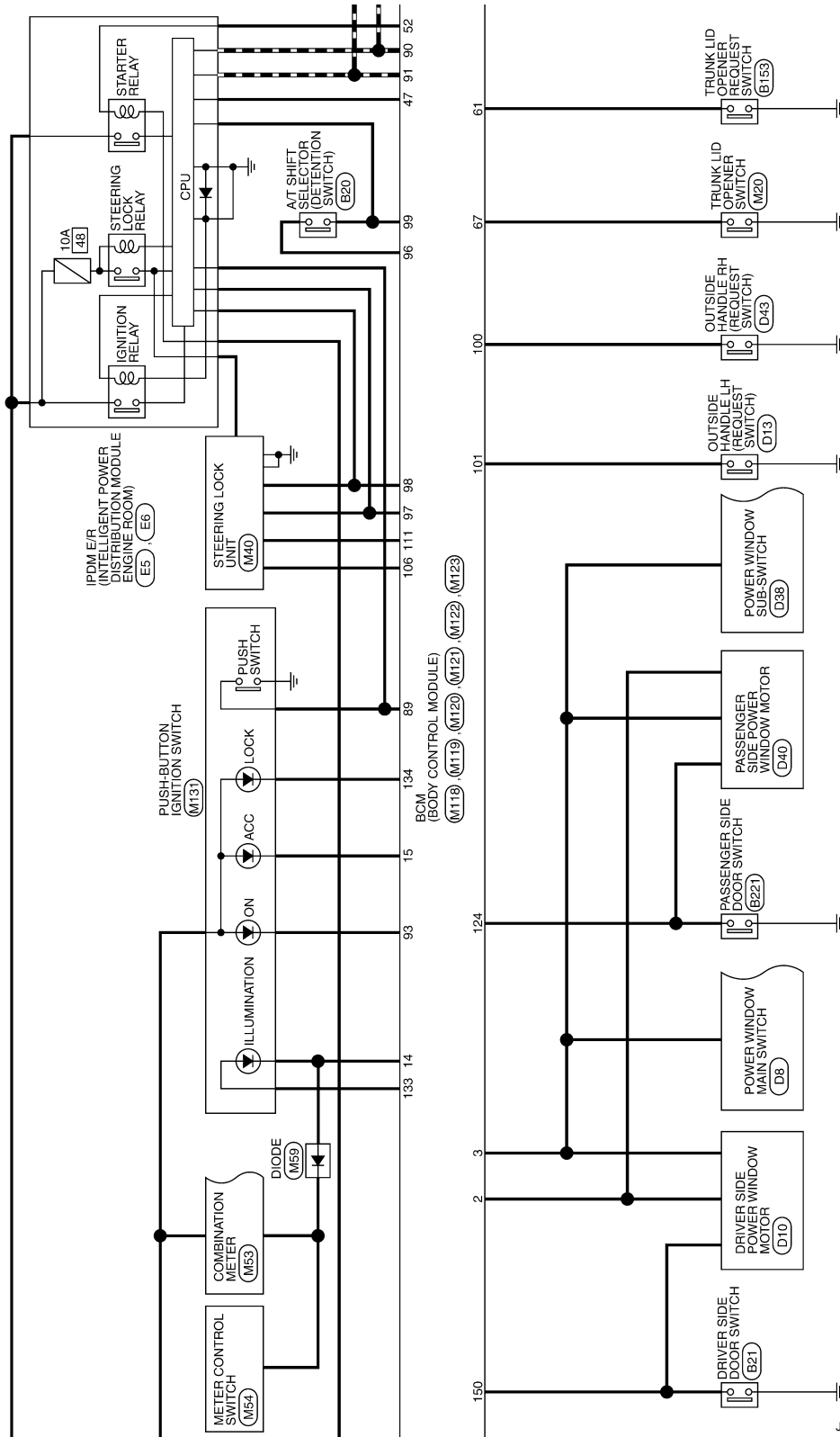


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BCM (BODY CONTROL MODULE)

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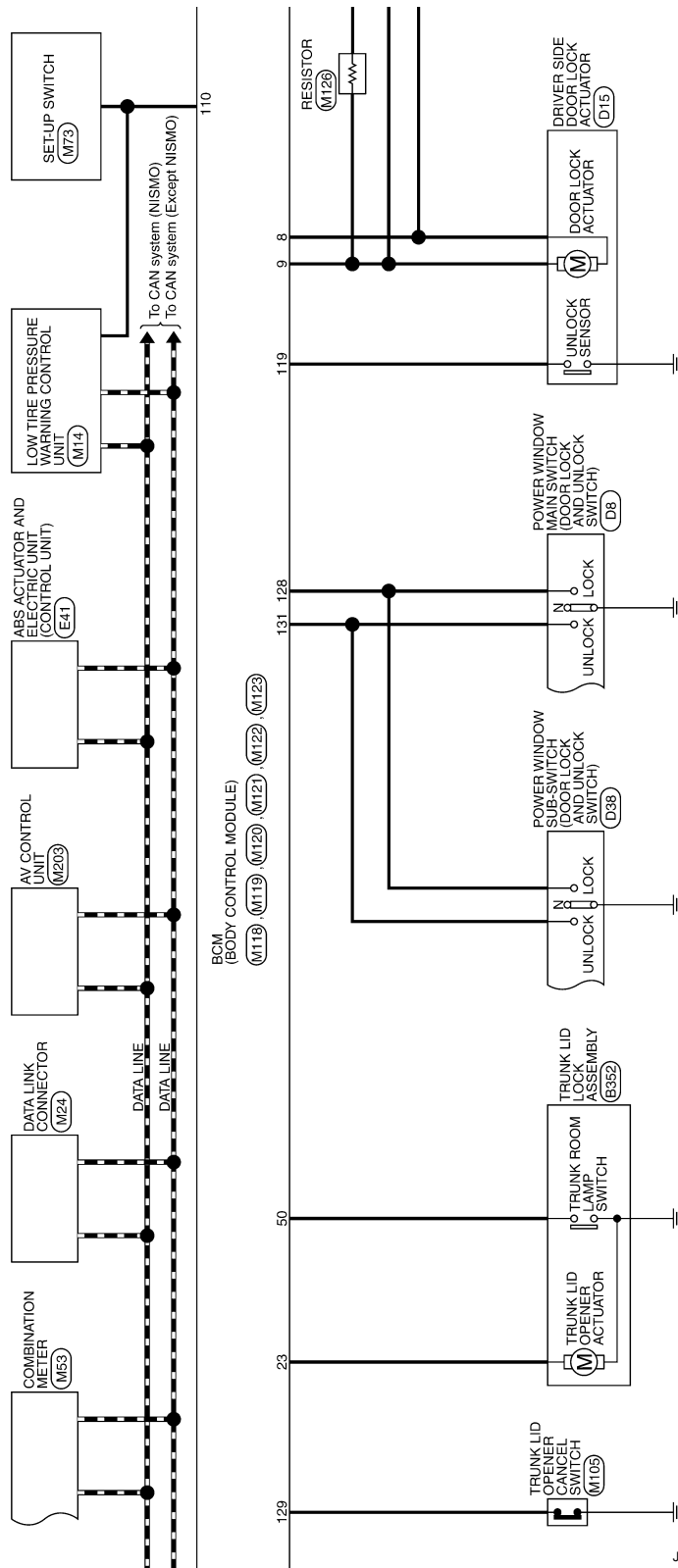
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BCM (BODY CONTROL MODULE)

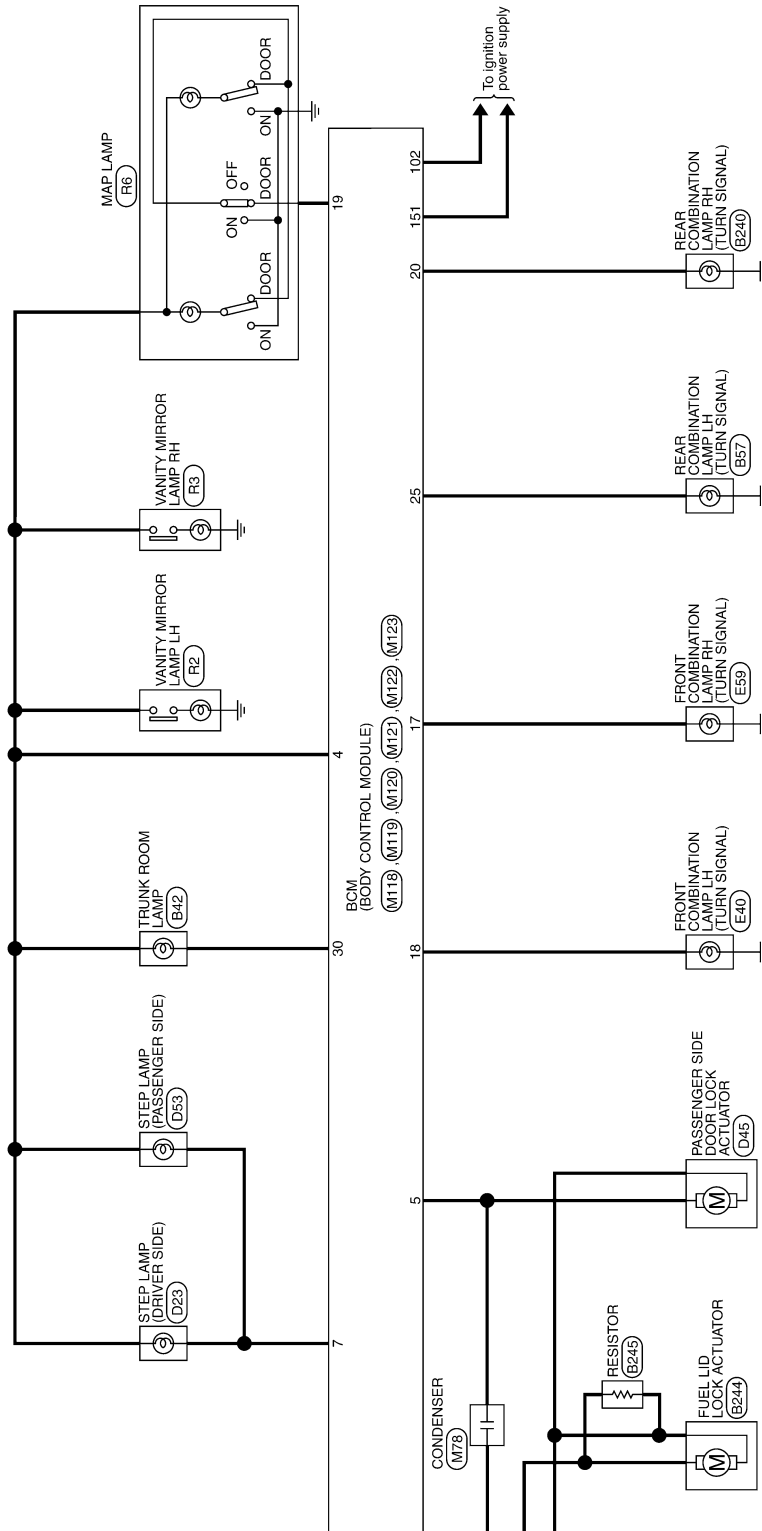
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BCM (BODY CONTROL MODULE)

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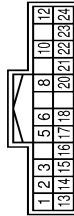
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BCM (BODY CONTROL MODULE)

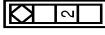
< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Connector No.	B20
Connector Name	A/T SHIFT SELECTOR
Connector Type	TH24FW-NH



Terminal No.	Color	Wire	Signal Name [Specification]
1	GR		BCM VCC IN
2	BG		KEY I LOCK (P)
3	B		GROUND
4	G		RANGE SENSOR No. 1 SIGNAL
5	B		GROUND
6	V		RANGE SENSOR No. 1 SIGNAL
7	G		RANGE SENSOR No. 3 SIGNAL
8	GR		RANGE SENSOR No. 5 SIGNAL
9	Y		VIGN
10	W		SHIFT LOCK SOLENOID CONTROL SIGNAL
11	LG		RANGE SENSOR POWER SOURCE 2
12	L		RANGE SENSOR POWER SOURCE 1
13	R		ILLUMINATION
14	B		GROUND
15	BR		AUTOMANUAL RANGE CHANGE SWITCH 1 SIGNAL
16	P		RANGE SENSOR No. 4 SIGNAL
17	BR		ILLUMINATION GND
18	R		RANGE SENSOR No. 2 SIGNAL
19	V		AUTOMANUAL RANGE CHANGE SWITCH 2 SIGNAL



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



Connector No.	B41
Connector Name	INSIDE KEY ANTENNA (TRUNK ROOM)
Connector Type	PKG2FGY

Connector No.	B42
Connector Name	TRUNK ROOM LAMP
Connector Type	S32FW



Terminal No.	Color	Wire	Signal Name [Specification]
1	Y		
2	LG		



Connector No.	B45
Connector Name	TCM
Connector Type	RH40FB-R28-L-LHZ

27	G		RANGE SENSOR NO. 1 SIGNAL
28	V		AUTOMANUAL RANGE CHANGE SWITCH 2 SIGNAL
29	SB		ENGINE SPEED SIGNAL
30	V		RANGE SENSOR NO. 1 SIGNAL
31	BG		SAVE MODE SWITCH SIGNAL
32	G		RANGE SENSOR NO. 3 SIGNAL
33	GR		R MODE SWITCH SIGNAL
34	R		RANGE SENSOR NO. 2 SIGNAL
35	W		PADDLE SHIFTER (SHIFT UP) SWITCH SIGNAL
36	L		PADDLE SHIFTER (SHIFT DOWN) SWITCH SIGNAL
37	P		RANGE SENSOR NO. 4 SIGNAL
38	GR		RANGE SENSOR NO. 5 SIGNAL
39	BG		R MODE LAMP SIGNAL
40	W		SHIFT LOCK SOLENOID CONTROL SIGNAL
41	G		SAVE MODE LAMP SIGNAL



Connector No.	B57
Connector Name	REAR COMBINATION LAMP LH
Connector Type	NS68MW-CS

Terminal No.	Color	Wire	Signal Name [Specification]
1	W		POWER SUPPLY (MEMORY BACK-UP)-2
2	B		GROUND
3	B		GROUND
4	W		POWER SUPPLY (MEMORY BACK-UP)-3
5	B		GROUND
6	B		GROUND
7	P		POWER SUPPLY (MEMORY BACK-UP)-1
8	LG		BACK-UP LAMP SIGNAL
9	L		CANH
10	V		POWER OFF
11	P		CANL
12	W		STOP LAMP SWITCH SIGNAL
13	Y		IGNITION SWITCH SIGNAL
14	GR		STARTER RELAY SIGNAL
15	BR		AUTOMANUAL RANGE CHANGE SWITCH SIGNAL
16	L		RANGE SENSOR POWER SOURCE 1
17	LG		RANGE SENSOR POWER SOURCE 2

Terminal No.	Color	Wire	Signal Name [Specification]
1	W		
2	R		
3	B		
4	SB		
5	R		
6	Y		

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Connector No.	B60
Connector Name	OUTSIDE KEY-ANTENNA (REAR BUMPER)
Connector Type	FK02FGY



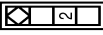
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	R	-

Connector No.	B153
Connector Name	TRUNK LID OPENER REQUEST SWITCH
Connector Type	FK02ML



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

Connector No.	B221
Connector Name	PASSENGER SIDE DOOR SWITCH
Connector Type	A03FW



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

Connector No.	B240
Connector Name	REAR COMBINATION LAMP RH
Connector Type	NS68MW-CS



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

Connector No.	B244
Connector Name	FUEL LID LOCK ACTUATOR
Connector Type	M04FW-LC



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

Connector No.	B245
Connector Name	RESISTOR
Connector Type	M04FL-R



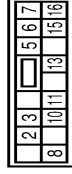
Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	G	-

Connector No.	B352
Connector Name	TRUNK LID LOCK ASSEMBLY
Connector Type	TB03FW-IV



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

Connector No.	D8
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	-
3	R	-
5	GR	-
6	SB	-
7	O	-
8	B	-
10	G	-
11	L	-
13	BR	-
15	LG	-
16	V	-
















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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Connector No.	D10	D15	D24	D40
Connector Name	DRIVER SIDE POWER WINDOW MOTOR	DRIVER SIDE DOOR LOCK ACTUATOR	OUTSIDE KEY ANTENNA (DRIVER SIDE)	PASSENGER SIDE POWER WINDOW MOTOR
Connector Type	NU8FEDGY	RSM4FGY-PR	RK02MGY	NU8FEDGY
				
				
Terminal Color Of No.	Wire	Signal Name [Specification]	Terminal Color Of No.	Wire
1	R	-	1	R
2	W	-	2	W
3	G	-	3	G
4	L	-	4	L
6	GR	-	6	LG
7	R	-	7	R
8	B	-	8	B
				
Connector No.	D13	D23	D38	D43
Connector Name	OUTSIDE HANDLE LH (REQUEST SWITCH)	STEP LAMP (DRIVER SIDE)	POWER WINDOW SUB-SWITCH	OUTSIDE HANDLE RH (REQUEST SWITCH)
Connector Type	RK02MGY	C02FW	NS16FW-CS	RK02MGY
				
				
Terminal Color Of No.	Wire	Signal Name [Specification]	Terminal Color Of No.	Wire
1	W	-	2	GR
2	B	-	3	V
3	W	-	5	SB
4	L	-	6	O
6	GR	-	7	LG
7	R	-	8	B
8	B	-	9	BR
			11	W
			14	R
			15	G
			16	L
				
				
Terminal Color Of No.	Wire	Signal Name [Specification]	Terminal Color Of No.	Wire
1	V	-	2	Y
2	SB	-		
3	G	-		
4	B	-		
				
				
Terminal Color Of No.	Wire	Signal Name [Specification]	Terminal Color Of No.	Wire
1	LG	-	2	V
2	V	-		
				
				
Terminal Color Of No.	Wire	Signal Name [Specification]	Terminal Color Of No.	Wire
1	R	-	1	R
2	W	-	2	W
3	G	-	3	G
4	L	-	4	L
6	LG	-	6	LG
7	R	-	7	R
8	B	-	8	B
				
				
Terminal Color Of No.	Wire	Signal Name [Specification]	Terminal Color Of No.	Wire
1	W	-	1	W
2	B	-	2	B
				
				

BCM (BODY CONTROL MODULE)

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Connector No.	D45
Connector Name	PASSENGER SIDE DOOR LOCK ACTUATOR
Connector Type	RSM4FGY-PR



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

Connector No.	D53
Connector Name	STEP LAMP (PASSENGER SIDE)
Connector Type	C22FW



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

Connector No.	D54
Connector Name	OUTSIDE KEY ANTENNA (PASSENGER SIDE)
Connector Type	FKG2MGY



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

Connector No.	E5
Connector Name	INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH20FW-LS12-M4-1V



Terminal No.	Color Of Wire	Signal Name [Specification]
4	V	-
5	L	-
6	Y	-
7	R	-
10	W	-
11	SB	-
12	BW	-
13	R	-
16	LG	-
25	BG	-
27	Y	-
28	G	-
30	GR	-
32	L	-
33	P	-
36	LG	-

Connector No.	E6
Connector Name	INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH08FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
39	P	-
40	L	-
41	BY	-
42	G	-
43	SB	-
44	W	-
46	BG	-

Connector No.	E40
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	RS08FB-FR



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

Connector No.	E41
Connector Name	ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	AEZ43FB-AJZ4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	LBMR
2	V	DIAF-K
3	GR	VDC OFF SW
4	W	BLS
6	G	VDC UP SW
11	Y	CANH
15	P	CANL
16	B	GROUND
26	W	CANL
27	BR	G SENSOR GROUND
29	BG	UZ
30	L	CANH
32	BG	UBVR
33	W	DS FR
34	BG	DP FR
35	Y	VDC TOP POSITION LED
36	L	DP RL
37	R	DS RL
38	V	BRAKE FLUID LEVEL SW
39	G	G SENSOR POWER
42	V	DS RR
43	LG	DP RR
44	SB	VDC TOP POSITION LED
45	W	DP FL
46	R	DS FL
47	B	GROUND

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Connector No.	E59
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	RS08FB-FR



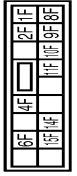
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	BR	-
3	R	-
4	BO	-
5	R	-
6	V	-
7	BR	-
8	BG	-

Connector No.	E62
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Type	RK03FBR-DGY



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

Connector No.	E103
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS



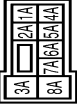
Terminal No.	Color Of Wire	Signal Name [Specification]
10F	GR	-
11F	Y	-
14F	LG	-
15F	P	-
1F	W	-
2F	W	-
4F	G	-
6F	BG	-
9F	R	-

Connector No.	E110
Connector Name	STOP LAMP SWITCH
Connector Type	MD04FW-LC



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

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



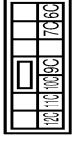
Terminal No.	Color Of Wire	Signal Name [Specification]
1A	V	-
2A	G	-
3A	L	-
4A	LG	-
5A	SB	-
7A	R	-
8A	L	-

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



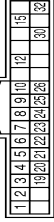
Terminal No.	Color Of Wire	Signal Name [Specification]
10B	Y	-
1B	R	-
3B	P	-
4B	G	-
5B	BG	-
6B	Y	-
7B	R	-
8B	R	-
9B	SB	-

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	W	-
6C	R	-
7C	B	-
9C	BR	-

Connector No.	M14
Connector Name	LOW THE PRESSURE WARNING CONTROL UNIT
Connector Type	TH02FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	CAN-L
2	L	CAN-H
3	BG	RR TUNER (SIG)
4	L	RL TUNER (SIG)
5	R	FR TUNER (SIG)
6	W	FL TUNER (SIG)
7	SB	RR TUNER (PWR)
8	GR	RL TUNER (PWR)
9	R	FR TUNER (PWR)
10	LG	FL TUNER (PWR)
12	W	SW SIG
15	G	IGN
19	R	RR TUNER (RSSI)
20	BG	RL TUNER (RSSI)

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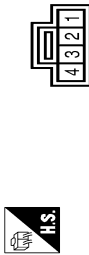
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

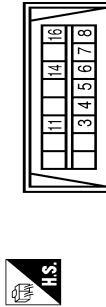
21	P	FR TUNER (RSSI)
22	G	FL TUNER (RSSI)
23	GR	RR TUNER (GND)
24	V	RL TUNER (GND)
25	L	FR TUNER (GND)
26	BR	FL TUNER (GND)
30	G	FLASHER SIG
32	B	GROUND

Connector No.	M20
Connector Name	TRUNK LID OPENER SWITCH
Connector Type	TK04FW



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

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



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

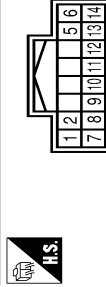
11	G	-
14	P	-
16	Y	-

Connector No.	M29
Connector Name	SECURITY INDICATOR LAMP
Connector Type	TK02FBR



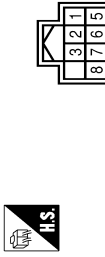
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	G	-

Connector No.	M33
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH



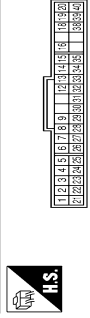
Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	SB	-
5	L	-
6	B	-
7	V	-
8	BG	-
9	Y	-
10	R	-
11	LG	-
12	P	-
13	BR	-
14	G	-

Connector No.	M40
Connector Name	STEERING LOCK UNIT
Connector Type	TH08FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	SIL 12V (MECHANICAL)
2	Y	SIL 1K (LINE)
3	L	SIL COND.LION1
5	B	GND
6	B	GND
7	P	SIL 12V(CPU)
8	R	SIL COND.LION2

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	SB40FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	BATTERY POWER SUPPLY
2	W	IGNITION POWER SUPPLY
3	B	GROUND
4	B	ILLUMINATION GROUND
5	B	GROUND
6	W	METER CONTROL SWITCH GROUND
7	Y	ACTUATOR CONTACTOR RECOGNITION SIGNAL
8	SB	AMBIENT SENSOR GROUND
9	P	AMBIENT SENSOR SIGNAL
12	L	VEHICLE SPEED SIGNAL (2-PULSE)
13	V	VEHICLE SPEED SIGNAL (8-PULSE)
14	B	OIL PRESSURE SENSOR GROUND
15	R	AIR BAG SIGNAL

16	R	LED HEAD LAMP (RH) WARNING SIGNAL
18	L	FUEL LEVEL SENSOR GROUND
19	R	OIL LEVEL SENSOR GROUND
20	W	OIL LEVEL SENSOR SIGNAL
21	L	CANH
22	P	CANH
23	LG	ILLUMINATION CONTROL SWITCH SIGNAL (-)
24	BR	ILLUMINATION CONTROL SWITCH SIGNAL (+)
25	G	TRIP AB RESET SWITCH SIGNAL
26	BG	ENTER SWITCH SIGNAL
27	SB	SELECT SWITCH SIGNAL
28	BR	ALTERNATOR
29	G	SEAT BELT RECKLE SWITCH SIGNAL (PASSENGER SIDE)
30	LG	SEAT BELT RECKLE SWITCH SIGNAL (DRIVER SIDE)
31	V	PARKING BRAKE SWITCH SIGNAL
32	V	BRAKE FLUID LEVEL SWITCH SIGNAL
33	L	WASHER LEVEL SWITCH SIGNAL
34	GR	OIL PRESSURE SENSOR POWER
35	W	OIL PRESSURE SENSOR SIGNAL
38	BG	FUEL LEVEL SENSOR SIGNAL
39	Y	LED HEAD LAMP (LH) WARNING SIGNAL
40	V	ILLUMINATION CONTROL

Connector No.	M54
Connector Name	METER CONTROL SWITCH
Connector Type	TH12FW-NH




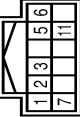

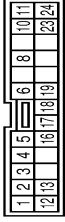












Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	W	-
3	LG	-
4	R	-
5	V	-
6	BG	-
7	SB	-
8	G	-

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BCM (BODY CONTROL MODULE)

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BCM (BODY CONTROL MODULE)		
Connector No. M59	Connector Name DIODE	Connector Type 24335-C9800
		
		
Terminal No. 1	Color Wire V	Signal Name [Specification] -
Terminal No. 2	Color Wire P	Signal Name [Specification] -
Connector No. M60	Connector Name KEY SLOT	Connector Type TH12FW-NH
		
		
Terminal No. 1	Color Wire G	Signal Name [Specification] BAT
Terminal No. 2	Color Wire GR	Signal Name [Specification] CLOCK
Terminal No. 3	Color Wire L	Signal Name [Specification] DATA
Terminal No. 5	Color Wire Y	Signal Name [Specification] ILL BAT
Terminal No. 6	Color Wire LG	Signal Name [Specification] ILL
Terminal No. 7	Color Wire B	Signal Name [Specification] GND
Terminal No. 11	Color Wire R	Signal Name [Specification] KEY SWITCH SIGNAL
Connector No. M73	Connector Name SET-UP SWITCH	Connector Type TK24FW-1V
		
		
Terminal No. 1	Color Wire Y	Signal Name [Specification] VDC TOP POSITION LED
Terminal No. 2	Color Wire R	Signal Name [Specification] ILL
Terminal No. 3	Color Wire W	Signal Name [Specification] VDC TOP POSITION LED
Terminal No. 4	Color Wire V	Signal Name [Specification] ILL GND
Terminal No. 5	Color Wire P	Signal Name [Specification] VDC UP SW
Terminal No. 6	Color Wire P	Signal Name [Specification] E-SUS R MODE SW SIG
Terminal No. 8	Color Wire LG	Signal Name [Specification] E-SUS COMF MODE LAMP SIG
Terminal No. 10	Color Wire G	Signal Name [Specification] SAVE MODE LAMP SIGNAL
Terminal No. 11	Color Wire W	Signal Name [Specification] R MODE SWITCH SIGNAL
Terminal No. 12	Color Wire GR	Signal Name [Specification] VDC DN SW
Terminal No. 13	Color Wire G	Signal Name [Specification] HAZARD SW
Terminal No. 16	Color Wire R	Signal Name [Specification] R MODE LAMP SIGNAL
Terminal No. 17	Color Wire B	Signal Name [Specification] SW GND
Terminal No. 18	Color Wire G	Signal Name [Specification] IGN
Terminal No. 19	Color Wire BG	Signal Name [Specification] E-SUS R MODE LAMP SIG
Terminal No. 23	Color Wire BR	Signal Name [Specification] SAVE MODE SWITCH SIGNAL
Terminal No. 24	Color Wire R	Signal Name [Specification] E-SUS COMF MODE SW SIG
Connector No. M75	Connector Name INSIDE KEY ANTENNA (INSTRUMENT CENTER)	Connector Type RK02FGY
		
		
Terminal No. 1	Color Wire BR	Signal Name [Specification] -
Terminal No. 2	Color Wire Y	Signal Name [Specification] -
Connector No. M78	Connector Name CONDENSER	Connector Type M02FW-LC
		
		
Terminal No. 1	Color Wire L	Signal Name [Specification] -
Terminal No. 2	Color Wire G	Signal Name [Specification] -
Connector No. M97	Connector Name OPTICAL SENSOR	Connector Type TK03FW
		
		
Terminal No. 1	Color Wire Y	Signal Name [Specification] POWER
Terminal No. 2	Color Wire P	Signal Name [Specification] OUTPUT
Terminal No. 3	Color Wire V	Signal Name [Specification] GROUND
Connector No. M105	Connector Name TRUNK LID OPENER CANCEL SWITCH	Connector Type IS02FW
		
		
Terminal No. 1	Color Wire BG	Signal Name [Specification] -
Terminal No. 2	Color Wire B	Signal Name [Specification] -
Connector No. M118	Connector Name BCM (BODY CONTROL MODULE)	Connector Type M03FB-LC
		
		
Terminal No. 1	Color Wire W	Signal Name [Specification] BAT (FL)
Terminal No. 2	Color Wire R	Signal Name [Specification] POWER WINDOW POWER SUPPLY(BAT)
Terminal No. 3	Color Wire W	Signal Name [Specification] POWER WINDOW POWER SUPPLY(BAT)

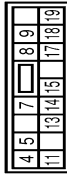
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BCM (BODY CONTROL MODULE)

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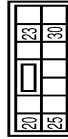
BCM (BODY CONTROL MODULE)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-GS



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

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



Terminal No.	Color	Wire	Signal Name [Specification]
20	SB	SB	TURN SIGNAL RH (REAR) OUTPUT
23	G	G	TRUNK LID OPEN OUTPUT
25	V	V	TURN SIGNAL LH (REAR) OUTPUT
30	EG	EG	TRUNK ROOM LAMP OUTPUT

BCM (BODY CONTROL MODULE)

Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH



Terminal No.	Color	Wire	Signal Name [Specification]
34	P	P	TRUNK ROOM ANT-
35	L	L	TRUNK ROOM ANT+
38	R	R	REAR BUMPER ANT-
39	BR	BR	REAR BUMPER ANT+
47	Y	Y	IGN RELAY (PDM ETR) CONT
50	R	R	TRUNK ROOM LAMP SW
52	SB	SB	STARTER RELAY CONT
61	W	W	TRUNK LID REQUEST SW
64	EG	EG	IKEY WARN BUZZER (ENG ROOM)
67	G	G	TRUNK LID OPENER SW

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



Terminal No.	Color	Wire	Signal Name [Specification]
72	R	R	ROOM ANT-
73	G	G	ROOM ANT+
74	SB	SB	PASSENGER DOOR ANT-
75	BR	BR	PASSENGER DOOR ANT+
76	V	V	DRIVER DOOR ANT-
77	LG	LG	DRIVER DOOR ANT+
78	Y	Y	ROOM ANT-
79	BR	BR	ROOM ANT+
80	GR	GR	IMMOBI ANTENNA CONTROL
81	L	L	IMMOBI ANTENNA SIGNAL

82	R	R	IGN RELAY (FEB) CONT
83	Y	Y	KEYLESS ENTRY RECEIVER COMM
87	BR	BR	COMBI SW INPUT 5
88	V	V	COMBI SW INPUT 3
89	BR	BR	PUSH SW
90	P	P	CAN-L
91	L	L	CAN-H
92	LG	LG	KEY SLOT ILL OUTPUT
93	V	V	ON IND
95	EG	EG	ACC RELAY CONT
96	SB	SB	AT SHIFT SELECTOR POWER SUPPLY
97	L	L	S/L CONDITION 1
98	R	R	S/L CONDITION 2
99	G	G	SHIFT P
100	W	W	PASSENGER DOOR REQUEST SW
101	V	V	DRIVER DOOR REQUEST SW
102	RG	RG	BLOWER FAN MOTOR RELAY CONT
103	LG	LG	RETURNS ENTRY RECEIVER POWER SUPPLY
106	P	P	S/L UNIT POWER SUPPLY
107	LG	LG	COMBI SW INPUT 1
108	R	R	COMBI SW INPUT 4
109	Y	Y	COMBI SW INPUT 2
110	G	G	HAZARD SW
111	Y	Y	S/L UNIT COMM

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH



Terminal No.	Color	Wire	Signal Name [Specification]
113	P	P	OPTICAL SENSOR
116	SB	SB	STOP LAMP SW 1
118	P	P	STOP LAMP SW 2
119	SB	SB	DR DOOR UNLOCK SENSOR
121	R	R	KEY SLOT SW
123	BR	BR	IGN I/F B
124	LG	LG	PASSENGER DOOR SW
128	P	P	DOOR LOCK UNLOCK SW LOCK
129	EG	EG	TRUNK CANCEL SW
131	BR	BR	DOOR LOCK UNLOCK SW UNLOCK

133	W	W	PUSH-BUTTON IGNITION SW ILL POWER
134	GR	GR	LOCK IND
137	L	L	RECEIVER GND
138	Y	Y	RECEIVER SENSOR POWER SUPPLY
140	BR	BR	SHIFT NP
141	G	G	SECURITY INDICATOR
142	BG	BG	COMBI SW OUTPUT 5
143	P	P	COMBI SW OUTPUT 1
144	G	G	COMBI SW OUTPUT 2
146	SB	SB	COMBI SW OUTPUT 4
150	GR	GR	DRIVER DOOR SW
151	G	G	REAR WINDOW DEFOSGGER RELAY CONT

Connector No.	M126
Connector Name	RESISTOR
Connector Type	M04FL-R



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

Connector No.	M131
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK08FB-R



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


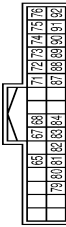










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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)																																																																									
<table border="1"> <tr><td>Connector No.</td><td>M203</td></tr> <tr><td>Connector Name</td><td>AV CONTROL UNIT</td></tr> <tr><td>Connector Type</td><td>TH82FW-NH</td></tr> </table>  	Connector No.	M203	Connector Name	AV CONTROL UNIT	Connector Type	TH82FW-NH	<table border="1"> <tr><td>Terminal Color Of No.</td><td>Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>65</td><td>R</td><td>PARKING BRAKE</td></tr> <tr><td>67</td><td>W</td><td>COMPOSITE IMAGE GND</td></tr> <tr><td>68</td><td>R</td><td>COMPOSITE IMAGE SIGNAL</td></tr> <tr><td>71</td><td>SHIELD</td><td>MICROPHONE GND</td></tr> <tr><td>72</td><td>L</td><td>MICROPHONE VCC</td></tr> <tr><td>73</td><td>V</td><td>COMM (CONT-DISPI)</td></tr> <tr><td>74</td><td>P</td><td>CAN-L</td></tr> <tr><td>75</td><td>R</td><td>AV COMM (L)</td></tr> <tr><td>76</td><td>R</td><td>AV COMM (L)</td></tr> <tr><td>79</td><td>R</td><td>ILLUMINATION</td></tr> <tr><td>80</td><td>W</td><td>IGNITION</td></tr> <tr><td>81</td><td>BG</td><td>REVERSE</td></tr> <tr><td>82</td><td>V</td><td>VEHICLE SPEED (8-PULSE)</td></tr> <tr><td>83</td><td>SHIELD</td><td>SHIELD</td></tr> <tr><td>84</td><td>B</td><td>COMPOSITE SYNCHRONIZING SIGNAL</td></tr> <tr><td>87</td><td>P</td><td>MICROPHONE SIGNAL</td></tr> <tr><td>88</td><td>SHIELD</td><td>SHIELD</td></tr> <tr><td>89</td><td>SB</td><td>COMM (DISP-CONT)</td></tr> <tr><td>90</td><td>L</td><td>CAN-H</td></tr> <tr><td>91</td><td>G</td><td>AV COMM (H)</td></tr> <tr><td>92</td><td>G</td><td>AV COMM (H)</td></tr> </table>	Terminal Color Of No.	Wire	Signal Name [Specification]	65	R	PARKING BRAKE	67	W	COMPOSITE IMAGE GND	68	R	COMPOSITE IMAGE SIGNAL	71	SHIELD	MICROPHONE GND	72	L	MICROPHONE VCC	73	V	COMM (CONT-DISPI)	74	P	CAN-L	75	R	AV COMM (L)	76	R	AV COMM (L)	79	R	ILLUMINATION	80	W	IGNITION	81	BG	REVERSE	82	V	VEHICLE SPEED (8-PULSE)	83	SHIELD	SHIELD	84	B	COMPOSITE SYNCHRONIZING SIGNAL	87	P	MICROPHONE SIGNAL	88	SHIELD	SHIELD	89	SB	COMM (DISP-CONT)	90	L	CAN-H	91	G	AV COMM (H)	92	G	AV COMM (H)
Connector No.	M203																																																																								
Connector Name	AV CONTROL UNIT																																																																								
Connector Type	TH82FW-NH																																																																								
Terminal Color Of No.	Wire	Signal Name [Specification]																																																																							
65	R	PARKING BRAKE																																																																							
67	W	COMPOSITE IMAGE GND																																																																							
68	R	COMPOSITE IMAGE SIGNAL																																																																							
71	SHIELD	MICROPHONE GND																																																																							
72	L	MICROPHONE VCC																																																																							
73	V	COMM (CONT-DISPI)																																																																							
74	P	CAN-L																																																																							
75	R	AV COMM (L)																																																																							
76	R	AV COMM (L)																																																																							
79	R	ILLUMINATION																																																																							
80	W	IGNITION																																																																							
81	BG	REVERSE																																																																							
82	V	VEHICLE SPEED (8-PULSE)																																																																							
83	SHIELD	SHIELD																																																																							
84	B	COMPOSITE SYNCHRONIZING SIGNAL																																																																							
87	P	MICROPHONE SIGNAL																																																																							
88	SHIELD	SHIELD																																																																							
89	SB	COMM (DISP-CONT)																																																																							
90	L	CAN-H																																																																							
91	G	AV COMM (H)																																																																							
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JRMWG8000GB

INFOID:000000011796756

Fail-safe

FAIL-SAFE CONTROL BY DTC

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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation	
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC	A
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC	
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC	B
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC	
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC	C
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC	
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch ON → OFF	
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals are received from ABS actuator and electric unit (control unit) for 500 ms	D
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent <ul style="list-style-type: none"> • Starter control relay signal • Starter relay status signal 	E
B2601: SHIFT POSITION	Inhibit steering lock	500 ms after the following signal reception status becomes consistent <ul style="list-style-type: none"> • Shift lever P position switch signal • P range signal (CAN) 	F
B2602: SHIFT POSITION	Inhibit steering lock	5 seconds after the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Ignition switch is in the ON position • Shift lever P position switch signal: Except P position (Battery voltage) • Vehicle speed: 4 km/h (2.5 MPH) or more 	G
B2603: SHIFT POSI STATUS	Inhibit steering lock	500 ms after the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Ignition switch is in the ON position • Shift lever P position switch signal: Except P position (Battery voltage) • Shift lever P/N position signal: Except P and N positions (0 V) 	H
B2604: PNP/CLUTCH SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Status 1 <ul style="list-style-type: none"> - Ignition switch is in the ON position - Shift lever P/N position signal: P and N position (Battery voltage) - P range signal or N range signal (CAN): ON • Status 2 <ul style="list-style-type: none"> - Ignition switch is in the ON position - Shift lever P/N position signal: Except P and N positions (0 V) - P range signal and N range signal (CAN): OFF 	I
B2605: PNP/CLUTCH SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Ignition switch is in the ON position <ul style="list-style-type: none"> - Power position: IGN - Shift lever P/N position signal: Except P and N positions (0 V) - Interlock/PNP switch signal (CAN): OFF • Status 2 <ul style="list-style-type: none"> - Ignition switch is in the ON position - Shift lever P/N position signal: P or N position (Battery voltage) - PNP switch signal (CAN): ON 	J
B2606: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent <ul style="list-style-type: none"> • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal) 	K
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent <ul style="list-style-type: none"> • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal) 	L

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent <ul style="list-style-type: none"> • Starter motor relay control signal • Starter relay status signal (CAN)
B2609: S/L STATUS	<ul style="list-style-type: none"> • Inhibit engine cranking • Inhibit steering lock 	When the following steering lock conditions agree <ul style="list-style-type: none"> • BCM steering lock control status • Steering lock condition No. 1 signal status • Steering lock condition No. 2 signal status
B260A: IGNITION RELAY	Inhibit engine cranking	500 ms after the following conditions are fulfilled <ul style="list-style-type: none"> • IGN relay (IPDM E/R) control signal: OFF (Battery voltage) • Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) • Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
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"> • Power position changes to ACC • Receives engine status signal (CAN)
B2612: S/L STATUS	<ul style="list-style-type: none"> • Inhibit engine cranking • Inhibit steering lock 	When any of the following conditions are fulfilled <ul style="list-style-type: none"> • Steering lock unit status signal (CAN) is received normally • The BCM steering lock control status matches the steering lock status recognized by the steering lock unit status signal (CAN from IPDM E/R)
B2617: BCM	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B2619: BCM	Inhibit engine cranking	1 second after the steering lock unit power supply output control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E9: S/L STATUS	<ul style="list-style-type: none"> • Inhibit engine cranking • Inhibit steering lock 	When BCM transmits the LOCK request signal to steering lock unit, and receives LOCK response signal from steering lock unit, the following conditions are fulfilled <ul style="list-style-type: none"> • Steering condition No. 1 signal: LOCK (0 V) • Steering condition No. 2 signal: LOCK (Battery voltage)

DTC Inspection Priority Chart

INFOID:000000011796757

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"> • U1000: CAN COMM • U1010: CONTROL UNIT (CAN)
3	<ul style="list-style-type: none"> • B2190: NATS ANTENNA AMP • B2191: DIFFERENCE OF KEY • B2192: ID DISCORD BCM-ECM • B2193: CHAIN OF BCM-ECM • B2195: ANTI-SCANNING

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Priority	DTC	
4	• B2013: ID DISCORD BCM-S/L	A
	• B2014: CHAIN OF S/L-BCM	B
	• B2553: IGNITION RELAY	
	• B2555: STOP LAMP	
	• B2556: PUSH-BTN IGN SW	
	• B2557: VEHICLE SPEED	
	• B2560: STARTER CONT RELAY	C
	• B2601: SHIFT POSITION	
	• B2602: SHIFT POSITION	
	• B2603: SHIFT POSI STATUS	
	• B2604: PNP/CLUTCH SW	D
	• B2605: PNP/CLUTCH SW	
	• B2606: S/L RELAY	
	• B2607: S/L RELAY	
	• B2608: STARTER RELAY	E
	• B2609: S/L STATUS	
	• B260A: IGNITION RELAY	
	• B260B: STEERING LOCK UNIT	F
	• B260C: STEERING LOCK UNIT	
	• B260D: STEERING LOCK UNIT	
	• B260F: ENG STATE SIG LOST	
• B2612: S/L STATUS		
• B2614: BCM	G	
• B2615: BCM		
• B2616: BCM		
• B2617: BCM		
• B2618: BCM	H	
• B2619: BCM		
• B261A: PUSH-BTN IGN SW		
• B261E: VEHICLE TYPE	I	
• B26E9: S/L STATUS		
• B26EA: KEY REGISTRATION		
• U0415: VEHICLE SPEED		
5	• B2621: INSIDE ANTENNA	J
	• B2622: INSIDE ANTENNA	
	• B2623: INSIDE ANTENNA	
6	B26E7: TPMS CAN COMM	K

DTC Index

INFOID:0000000011796758

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 [WCS-20. "COMMON ITEM : CONSULT Function \(BCM - COMMON ITEM\)"](#).

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Reference page
No DTC is detected. Further testing may be required.	—	—	—	—
U1000: CAN COMM	—	—	—	BCS-36
U1010: CONTROL UNIT (CAN)	—	—	—	BCS-37
U0415: VEHICLE SPEED	—	—	—	BCS-38
B2013: ID DISCORD BCM-S/L	×	×	—	SEC-48
B2014: CHAIN OF S/L-BCM	×	×	—	SEC-49
B2190: NATS ANTENNA AMP	×	—	—	SEC-40

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warn- ing lamp ON	Reference page
B2191: DIFFERENCE OF KEY	×	—	—	SEC-43
B2192: ID DISCORD BCM-ECM	×	—	—	SEC-44
B2193: CHAIN OF BCM-ECM	×	—	—	SEC-46
B2195: ANTI-SCANNING	×	—	—	SEC-47
B2553: IGNITION RELAY	—	×	—	PCS-50
B2555: STOP LAMP	—	×	—	SEC-52
B2556: PUSH-BTN IGN SW	—	×	×	SEC-54
B2557: VEHICLE SPEED	×	×	×	SEC-56
B2560: STARTER CONT RELAY	×	×	×	SEC-57
B2562: LOW VOLTAGE	—	×	—	BCS-39
B2601: SHIFT POSITION	×	×	×	SEC-58
B2602: SHIFT POSITION	×	×	×	SEC-61
B2603: SHIFT POSI STATUS	×	×	×	SEC-63
B2604: PNP/CLUTCH SW	×	×	×	SEC-65
B2605: PNP/CLUTCH SW	×	×	×	SEC-67
B2606: S/L RELAY	×	×	×	SEC-69
B2607: S/L RELAY	×	×	×	SEC-70
B2608: STARTER RELAY	×	×	×	SEC-72
B2609: S/L STATUS	×	×	×	SEC-74
B260A: IGNITION RELAY	×	×	×	PCS-52
B260B: STEERING LOCK UNIT	—	×	×	SEC-78
B260C: STEERING LOCK UNIT	—	×	×	SEC-79
B260D: STEERING LOCK UNIT	—	×	×	SEC-80
B260F: ENG STATE SIG LOST	×	×	×	SEC-81
B2612: S/L STATUS	×	×	×	SEC-84
B2614: BCM	—	×	×	PCS-54
B2615: BCM	—	×	×	PCS-56
B2616: BCM	—	×	×	PCS-58
B2617: BCM	×	×	×	SEC-88
B2618: BCM	×	×	×	PCS-60
B2619: BCM	×	×	×	SEC-90
B261A: PUSH-BTN IGN SW	—	×	×	SEC-91
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	SEC-93
B2621: INSIDE ANTENNA	—	×	—	DLK-56
B2622: INSIDE ANTENNA	—	×	—	DLK-58
B2623: INSIDE ANTENNA	—	×	—	DLK-60
B26E7: TPMS CAN COMM	—	—	—	BCS-40
B26E9: S/L STATUS	×	×	× (Turn ON for 15 seconds)	SEC-82
B26EA: KEY REGISTRATION	—	×	× (Turn ON for 15 seconds)	SEC-83

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:000000011488394

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

Diagnosis Procedure

INFOID:000000011488395

1.CHECK PARKING BRAKE WARNING LAMP

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

When parking brake is applied : ON

When parking brake is released : OFF

Is the inspection result normal?

YES >> Replace the combination meter.

NO >> GO TO 2.

2.CHECK PARKING BRAKE SWITCH SIGNAL CIRCUIT

Perform a check for the parking brake switch signal circuit. Refer to [MWI-76. "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-76. "Component Inspection"](#).

Is the inspection result normal?

YES >> Replace the combination meter.

NO >> Replace the parking brake switch.

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THE LIGHT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE LIGHT REMINDER WARNING DOES NOT SOUND

Description

INFOID:000000011488396

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

Diagnosis Procedure

INFOID:000000011488397

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-159, "Symptom Table"](#).

2. CHECK DOOR SWITCH (DRIVER SIDE) SIGNAL CIRCUIT

Perform the check for the door switch (driver side) signal circuit. Refer to [DLK-63, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK DOOR SWITCH (DRIVER SIDE) UNIT

Perform a unit check for the door switch (driver side). Refer to [DLK-64, "Component Inspection"](#).

Is the inspection result normal?

YES >> Replace the BCM. Refer to [BCS-89, "Removal and Installation"](#).

NO >> Replace the door switch (driver side). Refer to [DLK-258, "Removal and Installation"](#).

THE SEAT BELT WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE SEAT BELT WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

Description

INFOID:000000011488398

- Seat belt warning does not sound.
- Seat belt warning sounds continuously.

Trouble diagnosis procedure

INFOID:000000011488399

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 BCM OUTPUT SIGNAL

Check if the light reminder warning chime is activated by performing BCM active test. Refer to [WCS-21, "BUZZER : CONSULT Function \(BCM - BUZZER\)"](#).

Is the inspection result normal?

- YES >> INSPECTION END
NO >> GO TO 3.

3.CHECK COMBINATION METER INPUT SIGNAL

Check if buzzer switches to proper condition (On/Off) on data monitor of combination meter. Refer to [MWI-55, "CONSULT Function \(METER/M&A\)"](#).

Buzzer active condition : On
Buzzer non-active condition : Off

Is the inspection result normal?

- YES >> Replace the combination meter.
NO >> Replace the BCM. Refer to [BCS-89, "Removal and Installation"](#).

4.CHECK SEAT BELT BUCKLE SWITCH CIRCUIT

Perform the check for the seat belt buckle switch circuit. Refer to [SBC-5, "DRIVER SIDE : Diagnosis Procedure"](#).

Is the inspection result normal?

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

5.CHECK SEAT BELT BUCKLE SWITCH UNIT

Perform a unit check for the seat belt buckle switch. Refer to [SBC-6, "DRIVER SIDE : Component Inspection \(Belt Buckle Switch\)"](#).

Is the inspection result normal?

- YES >> Replace the combination meter.
NO >> Replace the seat belt buckle. Refer to [SB-9, "SEAT BELT BUCKLE : Removal and Installation"](#).

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000011488400

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

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

Always observe the following items for preventing accidental activation.

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

Precaution for Battery Service

INFOID:000000011488401

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

Precautions for Removing Battery Terminal

INFOID:000000011488402

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

NOTE:

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

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

NOTE:

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

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

NOTE:

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

