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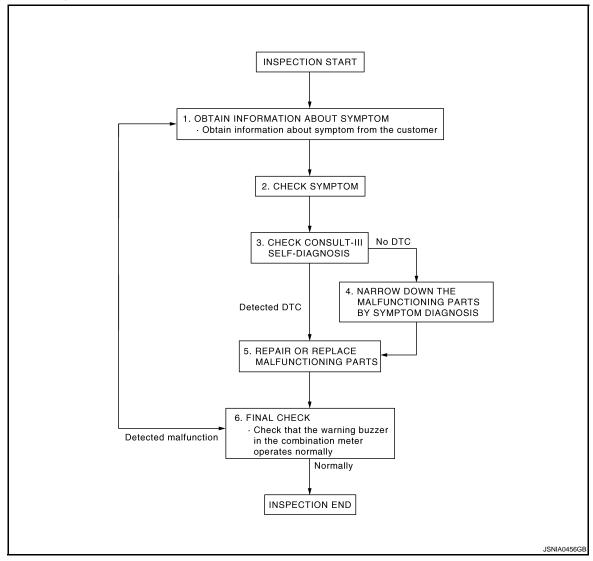
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow INFOID:0000000003452014 В

OVERALL SEQUENCE



DETAILED FLOW

1. OBTAIN INFORMATION ABOUT SYMPTOM

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

>> GO TO 2.

2.CHECK SYMPTOM

- Check the symptom based on the information obtained from the customer.
- Check if any other malfunctions are present.

>> GO TO 3.

3.check consult-iii self-diagnosis results

Connect CONSULT-III and perform self-diagnosis. Refer to MWI-34, "CONSULT-III Function (METER/M&A)".

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

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 repairing or replacing 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.

FUNCTION DIAGNOSIS

WARNING CHIME SYSTEM WARNING CHIME SYSTEM

WARNING CHIME SYSTEM: System Diagram

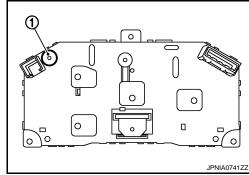
INFOID:0000000003452017 Key slot switch signal Key slot Door switch signal Front door switch (driver side) всм Lighting switch position signal Combination switch (Lighting switch) CAN communication line ABS actuator and electric unit Combination meter (control unit) Buzzer Parking brake switch signal Parking brake switch Seat belt buckle switch signal (driver side) Seat belt buckle switch (driver side) JPNIA1556GB

WARNING CHIME SYSTEM: System Description

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 buzzer output signal transmitted from each unit.



BCM

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

BCM Warning Function List

INFOID:0000000003465221

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< FUNCTION DIAGNOSIS >

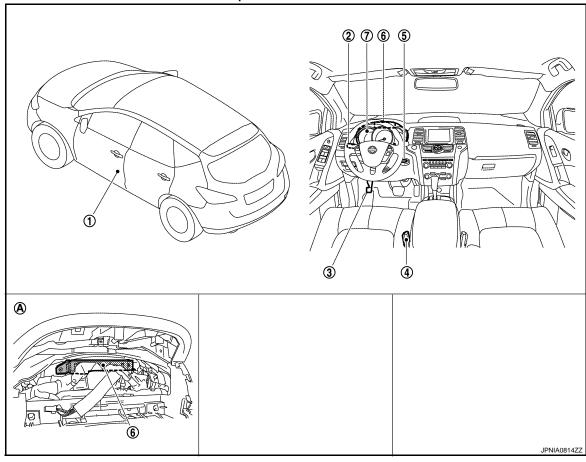
Warning functions	Signal name
Light reminder warning chime	Ignition switch signalLighting switch position signalDoor switch signal (driver side)
Seat belt warning chime	Ignition switch signal Seat belt buckle switch signal (driver side)
Key warning chime	Ignition signalKey slot switch signalDoor switch signal (driver side)

NOTE:

Parking brake release warning chime is detected by combination meter.

WARNING CHIME SYSTEM : Component Parts Location

INFOID:0000000003452019



- 1. Front door switch (driver side)
- 4. Seat belt buckle switch (driver side)
- 7. Combination meter
- A. Behind the combination meter
- Combination switch (Lighting switch)
- 5. Key slot

- Parking brake
- 6. BCM

WARNING CHIME SYSTEM: Component Description

INFOID:0000000003452020

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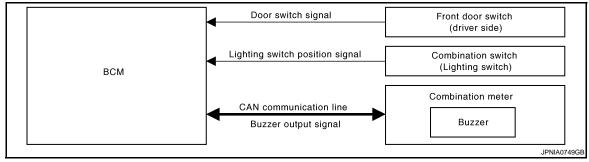
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Unit	Description				
Combination meter	 Receives a buzzer output signal from the BCM with CAN communication line and sounds the buzzer. Judges whether the parking brake is released from the vehicle speed signal received from the ABS actuator and electric unit (control unit) with CAN communication line and the parking brake switch signal from the parking brake switch, and sounds the buzzer if necessary. Receives the seat belt buckle switch signal (driver side) from the seat belt buckle switch (driver side) and transmits it to BCM with CAN communication line. 				
BCM	Transmits signals provided by various units to the combination meter with CAN communication line.				
ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal to combination meter with CAN communication line.				
Seat belt buckle switch (driver side)	Transmits a seat belt buckle switch signal (driver side) to the combination meter.				
Combination switch (Lighting switch)	Transmits the lighting switch position signal to BCM.				
Front door switch (driver side)	Transmits the door switch signal (driver side) to BCM.				
Parking brake switch	Refer to MWI-54, "Description".				
Key slot	Transmits the key slot switch signal to BCM.				

LIGHT REMINDER WARNING CHIME

LIGHT REMINDER WARNING CHIME: System Diagram

INFOID:0000000003452021



LIGHT REMINDER WARNING CHIME : System Description

INFOID:0000000003465397

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, front 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
- Front door switch (driver side) is ON

WARNING CANCEL CONDITIONS

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

- Lighting switch OFF
- Ignition switch ON
- Front door switch (driver side) is OFF

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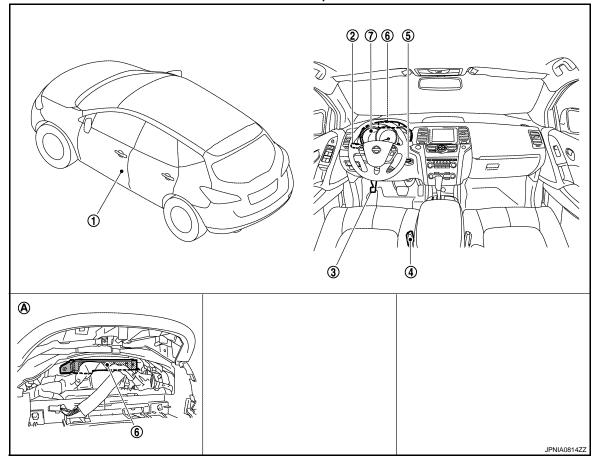
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LIGHT REMINDER WARNING CHIME: Component Parts Location

INFOID:0000000003508997



- 1. Front door switch (driver side)
- 2. Combination switch (Lighting switch)

5. Key slot

6. BCM

3. Parking brake

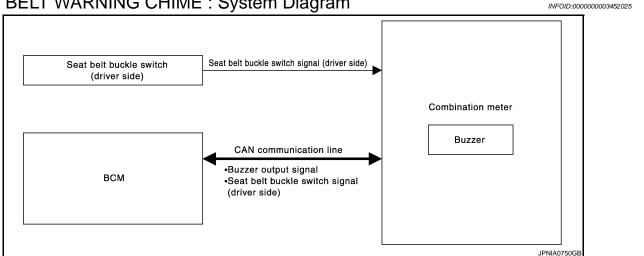
- 4. Seat belt buckle switch (driver side)
 - Combination meter
- A. Behind the combination meter
- LIGHT REMINDER WARNING CHIME: Component Description

INFOID:0000000003465398

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

SEAT BELT WARNING CHIME

SEAT BELT WARNING CHIME: System Diagram



SEAT BELT WARNING CHIME: System Description

INFOID:0000000003465318

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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 (driver side) from seat belt buckle switch (driver side) and transmits it to the BCM via CAN communication.
- The BCM receives seat belt buckle switch signal (driver side) 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 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)

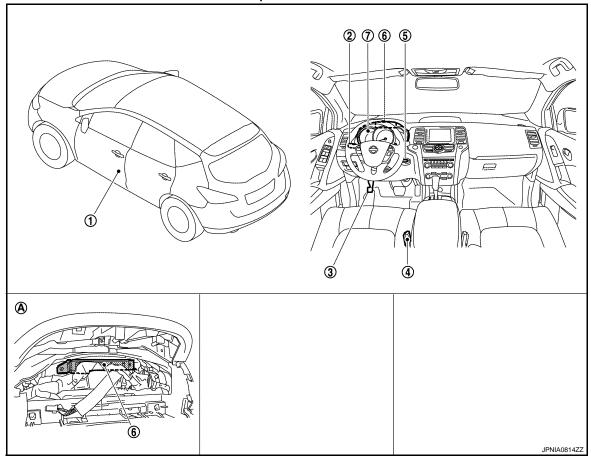
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SEAT BELT WARNING CHIME: Component Parts Location

INFOID:0000000003508998



- 1. Front door switch (driver side)
- 2. Combination switch (Lighting switch)
- 5. Key slot

- 3. Parking brake
- 6. BCM

- 4. Seat belt buckle switch (driver side)7. Combination meter
- A. Behind the combination meter

SEAT BELT WARNING CHIME : Component Description

INFOID:0000000003465346

Unit	Description		
Combination meter	 Receives the seat belt buckle switch signal (driver side) from the seat belt buckle switch (driver side) 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 (driver side) 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 (driver side) to the combination meter.		

PARKING BRAKE RELEASE WARNING CHIME

< FUNCTION DIAGNOSIS > PARKING BRAKE RELEASE WARNING CHIME: System Diagram INFOID:0000000003465347 Α CAN communication line ABS actuator and electric unit В Combination meter (control unit) Vehicle speed signal Buzzer Parking brake switch signal Parking brake switch JPNIA0751GE D PARKING BRAKE RELEASE WARNING CHIME: System Description INFOID:0000000003465450 Е 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 Н 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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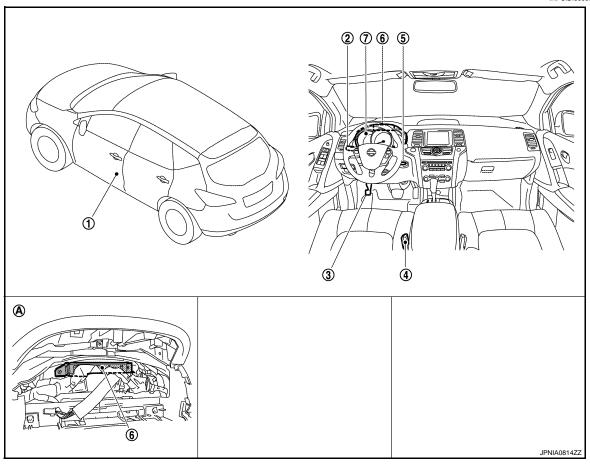
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PARKING BRAKE RELEASE WARNING CHIME: Component Parts Location

IFOID:0000000003509000



- 1. Front door switch (driver side)
- Combination switch (Lighting switch)
- 5. Key slot

- 3. Parking brake
- 6. BCM

- 4. Seat belt buckle switch (driver side)7. Combination meter
- A. Behind the combination meter

PARKING BRAKE RELEASE WARNING CHIME : Component Description ${\tt INFOID:000000003465451}$

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.		

KEY WARNING CHIME

< FUNCTION DIAGNOSIS >

KEY WARNING CHIME: System Diagram Key slot switch signal Door switch signal Front door switch (driver side) CAN communication line CAN communication line

Buzzer output signal

KEY WARNING CHIME: System Description

INFOID:0000000003465351

JPNIA1557GI

Buzzer

DESCRIPTION

- BCM detects key warning according to the input of ignition switch, key slot switch signal and door switch (driver side) signal and transmits the buzzer output signal via CAN communication.
- The combination meter receives the buzzer output signal from BCM and sounds the warning buzzer.

WARNING OPERATION CONDITIONS

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

- Other than ignition switch ON
- · Key switch ON (keyfob is inserted in key slot)
- · Front door switch (driver side) ON

WARNING CANCEL CONDITIONS

Warning canceled if any of the following conditions are fulfilled.

- Ignition switch ON
- Key switch OFF (keyfob is not inserted in key slot)
- Front door switch (driver side) OFF

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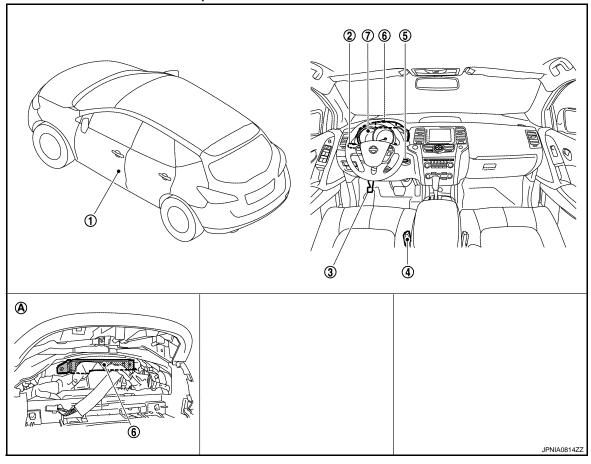
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KEY WARNING CHIME : Component Parts Location

INFOID:0000000003509005



- 1. Front door switch (driver side)
- 2. Combination switch (Lighting switch)
- 5. Key slot

- Parking brake
- 6. BCM

- 7. Combination meter
- A. Behind the combination meter

Seat belt buckle switch (driver side)

KEY WARNING CHIME : Component Description

INFOID:0000000003465353

Unit	Description		
Combination meter	Sounds the warning buzzer according to the buzzer output signal received from BCM via CAN communication.		
BCM	Judges key warning according to the door switch signal (driver side) from the front door switch (driver side) and the key slot switch signal from the key slot and transmits the buzzer output signal to the combination meter via CAN communication.		
Front door switch (driver side)	Transmits the door switch signal (driver side) to BCM.		
Key slot	Transmits the key slot switch signal to BCM.		

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (METER)

CONSULT-III Function (METER/M&A)

INFOID:0000000003452069

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CONSULT-III APPLICATION ITEMS

CONSULT-III can perform the following diagnosis modes via CAN communication and the combination meter.

System	Diagnosis mode	Description
	Self Diagnostic Result	The combination meter checks the conditions and displays memorized errors.
METER/M&A	Data Monitor	Displays the combination meter input/output data in real time.
	Special function	Lighting history of the warning lamp and indicator lamp can be checked.

SELF DIAG RESULT

Refer to WCS-48, "DTC Index".

DATA MONITOR

Display Item List

X: Applicable

Display item [Unit]	MAIN SIGNALS	Description
SPEED METER [km/h]	х	Value of vehicle speed signal 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]	Х	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/h or mph]		Odometer signal value transmitted to other units via CAN communication.
TACHO METER [rpm]	Х	Value of the engine speed signal received from ECM via CAN communication. NOTE: 8191.875 is displayed when the malfunction signal is received.
FUEL METER [L]	Х	Fuel level indicated on combination meter.
W TEMP METER [°C]	х	Value of engine coolant temperature signal is received from ECM via CAN communication. NOTE: 215 is displayed when the malfunction signal is input.
ABS W/L [On/Off]		Status of ABS warning lamp detected from ABS warning lamp signal is received from ABS actuator and electric unit (control unit) via CAN communication.
VDC/TCS IND [On/Off]		Status of VDC OFF indicator lamp detected from VDC OFF indicator lamp signal is received from ABS actuator and electric unit (control unit) via CAN communication.
SLIP IND [On/Off]		Status of SLIP indicator lamp detected from slip indicator lamp signal received from ABS actuator and electric unit (control unit) via CAN communication.
BRAKE W/L [On/Off]		Status of brake warning lamp detected from brake warning lamp signal is received from ABS actuator and electric unit (control unit) via CAN communication. NOTE: Displays "Off" if the brake warning lamp is illuminated when the valve check starts, the parking brake switch is turned ON or the brake fluid level switch is turned ON.
DOOR W/L [On/Off]		Status of door warning detected from door switch signal received from BCM via CAN communication.
HI-BEAM IND [On/Off]		Status of high beam indicator lamp detected from high beam request signal is received from BCM via CAN communication.
TURN IND [On/Off]		Status of turn indicator lamp detected from turn indicator signal is received from BCM via CAN communication.

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< FUNCTION DIAGNOSIS >

Display item [Unit]	MAIN SIGNALS	Description
LIGHT IND [On/Off]		Status of light indicator lamp detected from position light request signal is received from BCM via CAN communication.
OIL W/L [On/Off]		Status of oil pressure warning lamp detected from oil pressure switch signal is received from BCM via CAN communication.
MIL [On/Off]		Status of malfunction indicator lamp detected from malfunctioning indicator lamp signal is received from ECM via CAN communication.
CRUISE IND [On/Off]		Status of CRUISE indicator detected from ASCD status signal is received from ECM via CAN communication.
O/D OFF IND [On/Off]		Status of O/D OFF indicator detected from O/D OFF indicator signal is received from control device.
4WD W/L [On/Off]		Status of AWD warning lamp detected from AWD warning lamp signal is received from AWD control unit via CAN communication.
4WD LOCK IND [On/Off]		Status of AWD LOCK warning lamp detected from AWD LOCK warning lamp signal is received from AWD control unit via CAN communication.
FUEL W/L [On/Off]		Low-fuel warning lamp status detected by the identified fuel level.
WASHER W/L [On/Off]		Status of washer warning lamp judged from washer level switch input to combination meter.
AIR PRES W/L [On/Off]		Status of low tire pressure warning lamp detected from tire pressure signal is received from BCM via CAN communication.
KEY G/W W/L [On/Off]		Status of key warning lamp (G/Y) detected from key warning signal is received from BCM via CAN communication.
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, D, L]		Status of shift position indicator detected from shift position signal is received from TCM via CAN communication.
O/D OFF SW [On/Off]		Status of O/D OFF switch.
M RANGE SW [Off]		This item is displayed, but cannot be monitored.
NM RANGE SW [Off]		This item is displayed, but cannot be monitored.
AT SFT UP SW [Off]		This item is displayed, but cannot be monitored.
AT SFT DWN SW [Off]		This item is displayed, but cannot be monitored.
ST SFT UP SW [Off]		This item is displayed, but cannot be monitored.
ST SFT DWN SW [Off]		This item is displayed, but cannot be monitored.
PKB SW [On/Off]		Status of parking brake switch.
BUCKLE SW [On/Off]		Status of seat belt buckle switch (driver side).
BRAKE OIL SW [On/Off]		Status of brake fluid level switch.
DISTANCE [km]		Value of possible driving distance calculated by combination meter.
A/C AMP CONN [On/Off]		Status of A/C auto amp. connection recognition signal.

< FUNCTION DIAGNOSIS >

Display item [Unit]	MAIN SIGNALS	Description	
ENTER SW [On/Off]		Status of (ENTER) switch.	
SELECT SW [On/Off]		Status of (SELECT) switch.	
OUTSIDE TEMP [°C or °F]		Ambient air temperature value converted from ambient sensor signal received from ambient sensor. NOTE: This may not match with the temperature value indicated on the information display. (Because the information display value is a corrected value from the ambient sensor input value.)	
FUEL LOW SIG [On/Off]		Status of fuel level low warning signal to output to AV control unit via CAN communication.	
BUZZER [On/Off]	Х	Buzzer status (in the combination meter) is detected from the buzzer output signal received from each unit via CAN communication and the warning output condition of the combination meter.	

NOTE:

Some items are not available according to vehicle specification.

SPECIAL FUNCTION

Special menu

Display item	Description
W/L ON HISTORY	Lighting history of warning lamp and indicator lamp can be checked.

W/L ON HISTORY

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

NOTE

- W/L ON HISTORY is not stored for approximately 30 seconds after the engine starts.
- Brake warning lamp does not store any history when the parking 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 IND	Lighting history of VDC OFF indicator lamp.
SLIP IND	Lighting history of SLIP indicator lamp.
BRAKE W/L	Lighting history of brake warning lamp.
DOOR W/L	Lighting history of door warning.
TRUNK/GLAS-H	This item is displayed, but cannot be monitored.
OIL W/L	Lighting history of oil pressure warning lamp.
C-ENG W/L	Lighting history of malfunction indicator lamp.
C-ENG2 W/L	This item is displayed, but cannot be monitored.
CRUISE IND	Lighting history of CRUISE indicator lamp.
SET IND	Lighting history of SET indicator.
CRUISE W/L	This item is displayed, but cannot be monitored.
BA W/L	This item is displayed, but cannot be monitored.

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< FUNCTION DIAGNOSIS >

Display item	Description
O/D OFF IND	Lighting history of O/D OFF indicator lamp.
ATC/T-AMT W/L	This item is displayed, but cannot be monitored.
ATF TEMP W/L	This item is displayed, but cannot be monitored.
CVT IND	This item is displayed, but cannot be monitored.
SPORT IND	This item is displayed, but cannot be monitored.
4WD W/L	Lighting history of AWD warning lamp.
FUEL W/L	Lighting history of low fuel level warning.
WASHER W/L	Lighting history of low washer fluid warning
AIR PRES W/L	Lighting history of low tire pressure warning lamp.
KEY G/Y W/L	Lighting history of key warning lamp (green/yellow).
KEY R W/L	Lighting history of key warning lamp (red).
KEY KNOB W/L	This item is displayed, but cannot be monitored.
SYS FAIL W/L	This item is displayed, but cannot be monitored.
SFT POSI W/L	This item is displayed, but cannot be monitored.
HV BAT W/L	This item is displayed, but cannot be monitored.
HEV BRAKE W/L	This item is displayed, but cannot be monitored.
SFT OPER W/L	This item is displayed, but cannot be monitored.
CHAGE W/L	Lighting history of charge warning lamp.
OIL LEV LOW	This item is displayed, but cannot be monitored.
DPF W/L	This item is displayed, but cannot be monitored.

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

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APPLICATION ITEM

CONSULT-III 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. Refer to CONSULT-III operation manual.		
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	 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		
System	Sub system selection item	Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp timer	INT LAMP	×	×	×
Remote keyless entry system	MULTI REMOTE ENT*1	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×* ²	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
_	AIR CONDITONER*3			
Intelligent Key systemEngine start system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
NVIS - NATS	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door opener system	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	TPMS (AIR PRESSURE MONITOR)	×	×	×

NOTE:

- *1: At models with Intelligent Key system this item is displayed, but is not used.
- *2: At models with rain sensor this mode is displayed, but is not used.

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DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

• *3: 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-III.

CONSULT screen item	Indication/Unit	Description		
Vehicle Speed	km/h	Vehicle speed of the mo	ment a particular DTC is detected	
Odo/Trip Meter	km	Total mileage (Odomete	r value) of the moment a particular DTC is detected	
	SLEEP>LOCK		While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK")	
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)	
	LOCK>ACC		While turning power supply position from "LOCK" to "ACC"	
	ACC>ON		While turning power supply position from "ACC" to "IGN"	
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Vehicle is stopping and selector lever is except P position.)	
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)	
	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emergency stop operation)	
	ACC>OFF		While turning power supply position from "ACC" to "OFF"	
	OFF>LOCK		While turning power supply position from "OFF" to "LOCK"	
Vehicle Condition	OFF>ACC	Power position status of the moment a particular DTC is detected	While turning power supply position from "OFF" to "ACC"	
	ON>CRANK		While turning power supply position from "IGN" to "CRANKING"	
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode	
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK".) to low power consumption mode	
	LOCK		Power supply position is "LOCK" (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 The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 338 → 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-III Function (BCM - BUZZER)

INFOID:0000000003452035

CONSULT-III APPLICATION ITEMS

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

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

DATA MONITOR

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 [On/Off]	Status of front fog lamp switch judged by BCM.		
DOOR SW-DR [On/Off]	Status of driver side door switch judged by BCM.		

ACTIVE TEST

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

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POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT COMBINATION METER

COMBINATION METER: Diagnosis Procedure

INFOID:0000000003470010

1.CHECK FUSE

Check for blown fuses.

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

Is the inspection result normal?

YES >> GO TO 2.

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

2. CHECK POWER SUPPLY CIRCUIT

Check voltage between combination meter harness connector terminals and ground.

Terminals				
(+)	(-)	Ignition switch po-	Voltage
Combina	Combination meter		sition	(Approx.)
Connector	Terminal	Ground		
M34	1	Ground	OFF	Battery voltage
IVI34	2		ON	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between combination meter and fuse.

3. CHECK GROUND CIRCUIT

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

	Terminals				
(+)	(-)	Continuity		
Combina	tion meter		Continuity		
Connector	Terminal	Ground			
M34	3 23	Glouliu	Existed		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE): Diagnosis Procedure

INFOID:0000000003470011

1.CHECK FUSE AND FUSIBLE LINK

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

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

Signal name	Fuse and fusible link No.	
Pattery power cumply	M	
Battery power supply	10	

Is the fuse fusing?

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

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

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

(+)	(-)	Voltage
В	СМ		(Approx.)
Connector	Terminal	Ground	
M118	1	Glound	Battery voltage
M119	11		Ballery Vollage

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.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M119	13		Existed

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

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METER BUZZER CIRCUIT

< COMPONENT DIAGNOSIS >

METER BUZZER CIRCUIT

Description INFOID:000000003452040

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

Component Function Check

INFOID:0000000003452041

1. CHECK OPERATION OF METER BUZZER

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

Does meter buzzer 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-96, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000003452042

1. CHECK POWER SUPPLY OF COMBINATION METER

Check power supply of combination meter. Refer to MWI-43, "COMBINATION METER: Diagnosis Procedure".

Is the inspection result normal?

YES >> INSPECTION END

NO

>> Repair power supply circuit of combination meter. Refer to <u>WCS-22, "COMBINATION METER:</u> <u>Diagnosis Procedure".</u>

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

Description INFOID:000000003452043

Transmits a seat belt buckle switch signal (driver side) to the combination meter.

Component Function Check

INFOID:0000000003452044

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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:0000000003452045

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
Combina	tion meter		Condition	(Approx.)
Connector	Terminal	Ground		
M24	35	Ground	When seat belt is fastened	12 V
10134	M34 35		When seat belt is unfastened	0 V

Is the inspection result normal?

YES >> Replace combination meter

NO >> GO TO 2.

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2. CHECK SEAT BELT BUCKLE SWITCH CIRCUIT

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

	Terminals				
(-	+)	(Continuity		
Combina	tion meter	Seat belt buckle switch(driver side)		Continuity	
Connector	Terminal	Connector Terminal			
M34	35	B409 ^{*1}	15 ^{*1}	Exist	
10134	33	B449 ^{*2}	40 ^{*2}	LXISt	

- *1 : Without automatic drive positioner
- *2 : With automatic drive positioner
- Check harness continuity between combination meter harness connector terminal and ground.

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SEAT BELT BUCKLE SWITCH SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

	Terminals				
(+)	(-)	Continuity		
Combination meter			Continuity		
Connector	Connector Terminal				
M34	35		Not existed		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK SEAT BELT BUCKLE SWITCH GROUND CIRCUIT

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

(-	+)	(-)	Continuity
Combinat	tion meter		Continuity
Connector	Terminal		
B409 ^{*1}	16 ^{*1}	Ground	Exist
B449*2	41 ^{*2}		LAIST

- *1 : Without automatic drive positioner
- *2 : With automatic drive positioner

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

Component Inspection

INFOID:0000000003452046

1. CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

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

	Term	ninals			
(-	+)	(-)	Condition	Continuity
Sea	at belt buckle s	switch (driver s	ide)	Condition	Continuity
Connector	Terminal	Connector	Terminal		
B409 ^{*1}	15 ^{*1}	B409*1	16 ^{*1}	When seat belt is fastened	Not existed
B449 ^{*2}	40 ^{*2}	B449 ^{*2}	41 ^{*2}	Wilen seat beit is rasteried	Not existed
B409 ^{*1}	15*1	B409*1	16*1	When seat belt is unfastened	Exist
B449 ^{*2}	40 ^{*2}	B449 ^{*2}	41 ^{*2}	when seat belt is unlastened	LAISI

- · Without automatic drive positioner
- · With automatic drive positioner

Is the inspection result normal?

YES >> INSPECTION END

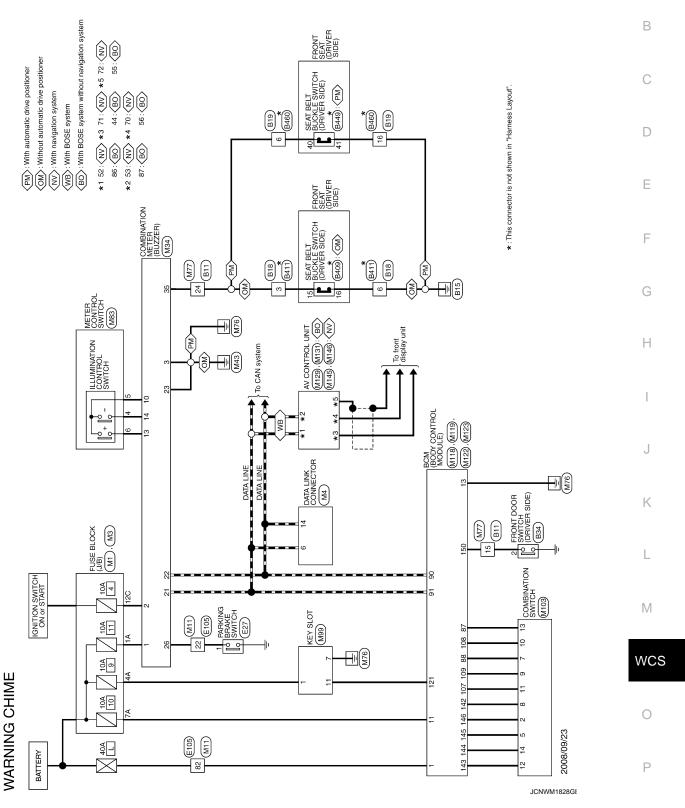
NO >> Replace the seat belt buckle. Refer to SB-7, "SEAT BELT BUCKLE: Removal and Installation".

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INFOID:0000000003452047

WARNING CHIME SYSTEM

Wiring Diagram - WARNING CHIME -



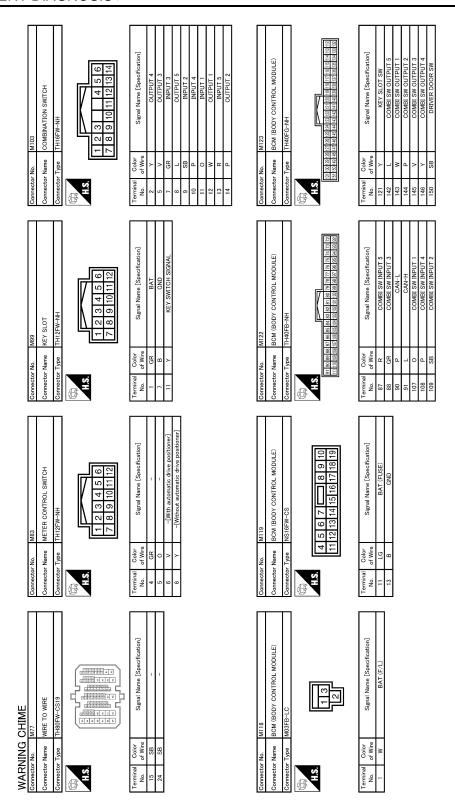
WARNING CHIME Connector No. 811 Connector Name WIRE TO WIRE Connector Type TH80WW-CS19	Connector No. 818 Connector Name WIRE TO WIRE Connector Type NSO6FW-CS	Connector No. B19 Connector Type WIRE TO WIRE Connector Type NS16FW-CS H.S. R. 2 3 4	Connector No. 634 Connector Name FRONT DOOR SWITCH (DRIVER SIDE) Connector Type A03FW
Color Signal Name [Specification] No. of Wire Signal Name [Specification] Signal Name Color Colo	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification]	Terminal Color Signal Name [Specification] No. of Wire GR -	Terminal Color No. of Wire 2 Signal Name [Specification]
Cornector No. B409 Cornector Name SIGNE Cornector Type A038MV-P	Connector No. B411 Connector Name WIRE TO WIRE Connector Type NS06MW-CS	Connector No. B449 Connector Name SEAT BELT BUCKLE SWITCH (DRIVER SIDE) Connector Type A03MW-P	Connector No. B460 Connector Name WIRE TO WIRE Connector Type NS18MW-CS 7 6 5
Terminal Color Signal Name [Specification] No. or Wite Signal Name [Specification]	Terminal Color Signal Name [Specification] No. or Wire Signal Name [Specification] 3 W/G	Terminal Color Signal Name [Specification] 40 W/C 41 GR Color Color	Terminal Color Signal Name [Specification] No. of Wire

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< COMPONENT DIAGNOSIS >

Pool	NAVER SIDE)	А
CS CS OG90807060 Signal Name [Specification]	35 SB SEAT BELT BUCKLE SWITCH (DRIVER SIDE)	В
M3 FUSE BL 120400	SB SEAT BELT	С
Connector No. Connector Type Connector Type A.S. A.S. Color No. Of Win. 12C Of White	99	D
eoffication	Signature of the signat	Е
NSOFFW-M2 Signal Name [Specification]	BINATION METER PIP-NH CIRCLE SIGNATION METER SIGNATION METER SOUTH INCOMPRESSION CONTROL SIGNATION CON	F
No. Name Type of Wire Color of Wire LG LG	of Mare C C C C C C C C C	G
Connector Connector Connector Connector Terminal No. 1A A A A A A A A A A A A A A A A A A A	Connect Connect Connect 10 10 11 11 11 11 11 11 11 11 11 11 11	Н
WIRE CSIO-M3 Signal Name (Specification)	WIRE CS10-M3 Signal Name [Specification]	I
WIRE TO WIRE TH/TOMW-CSIO-M3 Signal Name [MIII THTOFW-CS10-M3 Signal Name	J
Connector No. 6 Connector Name v Connector Type 7 Connector Type 7 H.S. H.S. 22 P P P B2 LG	Connector No. P. Connector Type Connector Type Connector Type Connector Type Connector Type Color No. Ool Wire 22 C C 82 W	К
	m <u> </u>	L
CHIME E27 PARKING BRAKE SWITCH POIFE-A Signal Name [Specification]	M4 DATA LINK CONNECTOR BDI 6FW 9 10 11 12 13 14 15 16 7 8 1 2 3 4 5 6 7 8 Signal Name (Specification)	M
E27 PARKING POIFB-A	M4 BD16FW	WCS
WARNING CHIME Connector No. E27 Connector Name PARKING BI Connector Type POIFB-A LLS Terminal Color No. of Wire 1 P	Connector No. Connector Name Connector Type Terminal Color No. of Wie	0
		JCNWM1830GI
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< COMPONENT DIAGNOSIS >

SATION	on]			А
MI46 AV CONTROL UNIT (WITH NAVIGATION SYSTEM) THI2PW-NH E2 64 66 68 70 72 61 63 66 76 70 71	Signal Name [Specification] COMM (CONT->DISP) COMM (DISP->CONT) SHIELD			В
<u> </u>	Color Sig			С
Connector No. Connector Name Connector Type	Terminal No. 70 70 71 8			D
H NAVIGATION	pecification]			Е
M 145 AV CONTROL UNIT (MITH NAVIGATION SYSTEM) TH40FW-NH ENDE MEN SON OF MEN SHOW OF MEN	Signal Name [Specification] CAN-H CAN-L			F
ector No. ector Name ector Type	Color No. of Wire S2			G
				Н
AV CONTROL UNIT (WITH BOSE SYSTEM) TH32FW-NH TH32FW-NH	Signal Name [Specification] CAN-H CAN-L			I
				J
Connector No. Connector Name Connector Type H.S. H.S.	Terminal Color No. of Wire 86 L 87 P			K
OSE TION SYSTEM) BB 37 36 00 49 48	fication] ONT) DISP)			L
No. M.29	Signal Name [Specification] COMM (DISP->CONT) SHELD COMM (CONT->DISP)			M
45	of Wire G SHIELD R			WCS
WARNING Connector No. Connector Type H.S. 47 46 59 56	Terminal No. 95 55 56 56		JCNWM1832GI	0
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ECU DIAGNOSIS

COMBINATION METER

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item		Condition	Value/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/h or mph]	Ignition switch ON	_	Equivalent to odometer reading in combination meter
TACHO METER [rpm]	Ignition switch ON	While driving	Equivalent to tachometer reading 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
ADC M/I	Ignition switch	ABS warning lamp ON	On
ABS W/L	ON	ABS warning lamp OFF	Off
VDC/TCC IND	Ignition switch ON	VDC OFF indicator lamp ON	On
VDC/TCS IND		VDC OFF indicator lamp OFF	Off
SLIP IND	Ignition switch ON	SLIP Indicator lamp ON	On
		SLIP indicator lamp OFF	Off
DDAKE W/I	Ignition switch	Brake warning lamp ON	On
BRAKE W/L	ŎN	Brake warning lamp OFF	Off
DOOD 14/1	Ignition switch ON	Door warning lamp ON	On
DOOR W/L		Door warning lamp OFF	Off
LI DEAMIND	Ignition switch ON	High-beam indicator lamp ON	On
HI-BEAM IND		High-beam indicator lamp OFF	Off
TURN IND	Ignition switch	Turn signal indicator lamp ON	On
TOKIN IND	ON	Turn signal indicator lamp OFF	Off
LICHT IND	Ignition switch	Light indicator lamp ON	On
LIGHT IND	ON	Light indicator lamp OFF	Off
OIL W/L	Ignition switch ON	Oil pressure warning lamp ON	On
		Oil pressure warning lamp OFF	Off
MIL	Ignition switch	Malfunction indicator lamp ON	On
IVIIL	ON	Malfunction indicator lamp OFF	Off
CDITISE IND	Ignition switch ON	CRUISE indicator lamp ON	On
CRUISE IND		CRUISE indicator lamp OFF	Off

< ECU DIAGNOSIS >

Monitor Item		Condition	Value/Status	
O/D OFF IND	Ignition switch	O/D OFF indicator lamp ON	On	
O/D OFF IND	ON	O/D OFF indicator lamp OFF	Off	
4WD W/L	Ignition switch	AWD warning lamp ON	On	
4VVD VV/L	ON	AWD warning lamp OFF	Off	
4WD LOCK IND	Ignition switch	AWD LOCK indicator lamp ON	On	
4VVD LOCK IND	ON	AWD LOCK indicator lamp OFF	Off	
FUEL W/	Ignition switch	Low-fuel warning lamp ON	On	
FUEL W/L	ON	Low-fuel warning lamp OFF	Off	
WASHER W/L	Ignition switch	Washer warning displayed	On	
WASHER W/L	ON	Washer warning not displayed	Off	
AIR PRES W/L	Ignition switch	Low tire pressure lamp ON	On	
AIR PRES W/L	ON	Low tire pressure lamp OFF	Off	
KEY G/Y W/L	Ignition switch	Key warning lamp (green/yellow) ON	On	
KET G/T W/L	ON	Key warning lamp (green/yellow) OFF	Off	
	Ignition switch ON	Engine start information display	B&P I	
	Ignition switch ACC	Engine start information display	B&P N	
LCD	Ignition switch LOCK	Key ID warning display	ID NG	
	Ignition switch LOCK	Steering lock information display	ROTAT	
	Ignition switch LOCK	P position warning display	SFT P	
	Ignition switch LOCK	Intelligent Key insert information display	INSRT	
	Ignition switch LOCK	Intelligent Key low battery warning display	BATT	
	Ignition switch ON	Take away warning display	NO KY	
	Ignition switch LOCK	Key warning display	OUTKY	
	Ignition switch ON	ACC warning display	LK WN	
		Shift position indicator P display	Р	
		Shift position indicator R display	R	
SHIFT IND	Ignition switch ON	Shift position indicator N display	N	
		Shift position indicator D display	D	
		Shift position indicator L display	L	
O/D OFF SW	Ignition switch ON	Overdrive control switch ON	On	
		Overdrive control switch OFF	Off	
M RANGE SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off	
NM RANGE SW	Ignition switch ON	NOTE		

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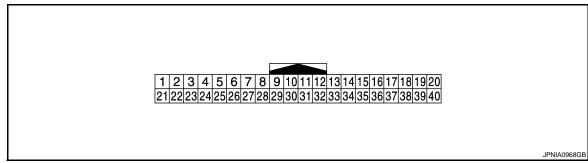
< ECU DIAGNOSIS >

Monitor Item		Condition	Value/Status	
AT SFT UP SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off	
AT SFT DWN SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off	
ST SFT UP SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off	
ST SFT DWN SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off	
PKB SW	Ignition switch ON	Parking brake switch ON	On	
FKB 3W		Parking brake switch OFF	Off	
BUCKLE SW	Ignition switch ON	Seat belt (driver side) not fastened	On	
BUCKLE 3W		Seat belt (driver side) fastened	Off	
BRAKE OIL SW	Ignition switch ON	Brake fluid level switch ON	On	
DRAKE OIL 3W		Brake fluid level switch OFF	Off	
DISTANCE [km]	Ignition switch ON	_	Possible driving distance calculated by combination meter	
A/C AMP CONN	Ignition switch ON	Other than the following	On	
A/C AIVIP CONN		Receives ambient sensor power signal	Off	
ENTER SW	Ignition switch ON	When 🗖 is pressed	On	
		Other than the above	Off	
CELECT CW	Ignition switch ON	When is pressed	On	
SELECT SW		Other than the above	Off	
OUTSIDE TEMP [°C] or [°F]	Ignition switch ON	_	Equivalent to ambient temperature NOTE: This may not match the indicated value on the information display.	
	Ignition switch ON	Low fuel warning displayed	On	
FUEL LOW SIG		Low fuel warning not displayed	Off	
	Ignition switch ON	Buzzer ON	On	
BUZZER		Buzzer OFF	Off	

NOTE:

Some items are not available according to vehicle specification.

TERMINAL LAYOUT



PHYSICAL VALUES

< ECU DIAGNOSIS >

Terminal No. (Wire color) Descri		Description		Condition		Value	Α	
+	_	Signal name	Input/ Output	Containon		(Approx.)		
1 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage	Е	
2 (O)	Ground	IGN signal	Input	Ignition switch ON	_	Battery voltage	C	
3 (B)	Ground	Ground	_	Ignition switch ON	_	0 V		
5 (SB) Ground Illumination control signal		Output	Ignition switch	Lighting switch 1ST When meter illumination is maximum	(V) 15 10 5 0 10 ms JPNIA0828GB	F		
	manimation control digital	Output	Output	Cuipui	Carpan	ON	Lighting switch 1ST When meter illumination is minimum	(V) 15 10 5 10 ms JPNIA0827GB
8 (SB)	10 (O)	Trip reset signal	Input	Ignition switch	When trip reset switch is pressed.	0 V	J	
, ,	,			ON	Other than the above	5 V		
10 (O)	Ground	Meter control switch ground	_	Ignition switch ON	_	0 V	K	
11	11 10			Ignition	When \square is pressed.	0 V		
(L) (O)	Enter switch signal	Input	switch ON	Other than the above	5 V			
12 10 (R) (O)	Select switch signal		switch -	When is pressed.	0 V			
		Input		Other than the above	5 V	N		
13		Illumination control switch		Ignition	When 💏 is pressed.	0 V		
	signal (+)	Input	switch ON	Other than the above	5 V	W		
14	14 10 Illumination control switch		Ignition	When 🎁 is pressed.	0 V			
(GR)			Input	switch ON	Other than the above	5 V	C	
15 (BR) Ground			Ignition	Air bag warning lamp ON	4 V	г		
	Giound	Ground Air bag signal	input		switch ON	Air bag warning lamp OFF	0 V	F

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value	
+	_	Signal name	Input/ Output	Condition		(Approx.)	
18 (L)	Ground	Ambient sensor signal	Input	Ignition switch ON	Changes depending to ambient temperature.	(V) 4 3 2 1 0 -10 0 10 20 30 40 10 10 10 10 10 10 10 10 10 10 10 10 10	
19 (P)	Ground	Ambient sensor power	Input	Ignition switch ON	_	5 V	
20 (Y)	Ground	Ambient sensor ground	Input	Ignition switch ON	_	0 V	
21 (L)	_	CAN-H	ĺ	_	_	_	
22 (P)	_	CAN-L	_	_	_	_	
23 (B)	Ground	Ground	_	Ignition switch ON	_	0 V	
24 (W)	Ground	Fuel level sensor signal ground	_	Ignition switch ON	_	0 V	
25	0	und Alternator signal	la accet	Ignition switch ON	Charge warning lamp ON	2 V	
(BR)	Ground		Input		Charge warning lamp OFF	12 V	
26	Ground	Parking brake switch signal	Input	Ignition switch	Parking brake ON	0 V	
(G)	Giodila	raiking blake switch signal	input	ON	Parking brake OFF	5 V	
27	_	Brake fluid level switch signal	Input	Ignition switch ON	Brake fluid level is normal	12 V	
(V)	Ground				Brake fluid level is less than LOW level	0 V	
29	Ground	round Macharlaval awitch signal	switch signal Input sw	Ignition switch	Washer level switch ON	0 V	
(R)	Giodila	washer level switch signal		ON	Washer level switch OFF	5 V	
30 (P)	Ground	Vehicle speed signal output (2-pulse)	Output	Ignition switch ON	Speedometer operated [When vehicle speed is ap- prox. 40 km/h (25 MPH)]	NOTE: The maximum voltage varies depending on the specification (destination unit).	

< ECU DIAGNOSIS >

	inal No. e color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
31 (V)	Ground	Vehicle speed signal output (8-pulse)	Output	Ignition switch ON	Speedometer operated [When vehicle speed is ap- prox. 40 km/h (25 MPH)]	NOTE: The maximum voltage varies depending on the specification (destination unit).
32	Ground	Overdrive control switch	lanut	Ignition switch	Overdrive control switch pressed.	0 V
(LG)	Glodila	signal	Input	ON	Overdrive control switch not pressed.	12 V
34 (G)	Ground	Fuel level sensor signal	Input	Ignition switch ON	_	(V) 4 3 2 1 0 E 1/4 1/2 3/4 F JPNIA0740ZZ
35	0	Seat belt buckle switch sig-	la a d	Ignition	When driver seat belt is fastened.	12 V
(SB)	Ground	nal (driver side)	Input	switch ON	When driver seat belt is unfastened.	0 V
36	Ground	Seat belt buckle switch sig-	Input	Ignition	When getting in the passenger seat. When passenger seat belt is fastened.	12 V
(R)	Ground	nal (passenger side) Input switch ON	When getting in the passenger seat.When passenger seat belt is unfastened.	0 V		

^{*1:} Without automatic drive positioner

Wiring Diagram - METER -

NOTE:

• Type A Up to VIN: JN8AZ18U*9W100000, JN8AZ18W*9W200000 (EXCEPT FOR MEXICO), JN8AZ18U*9W710000, JN8AZ18W*9W810000 (FOR MEXICO)

WCS

INFOID:0000000003470024

M

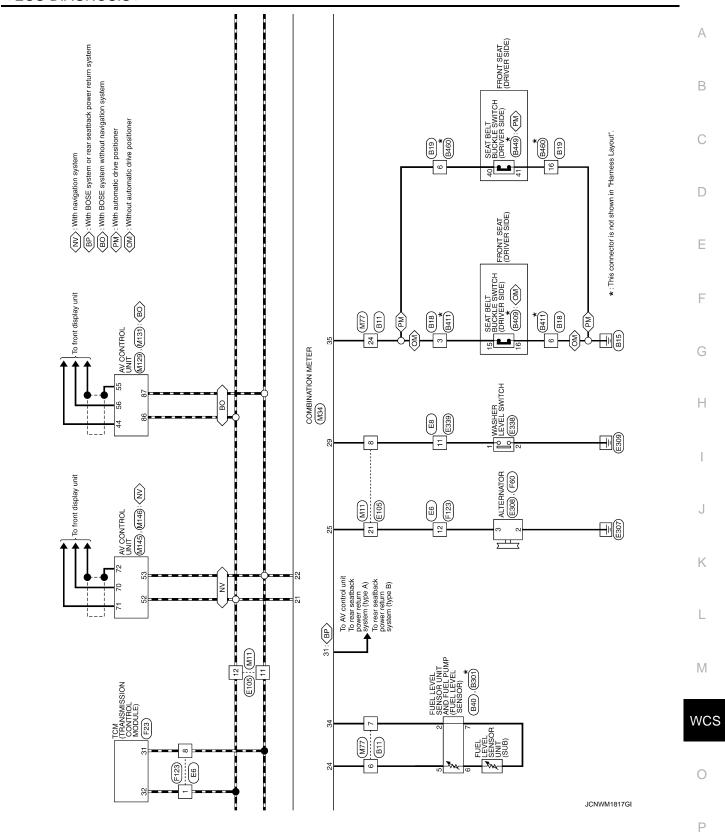
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Р

^{*2:} With automatic drive positioner

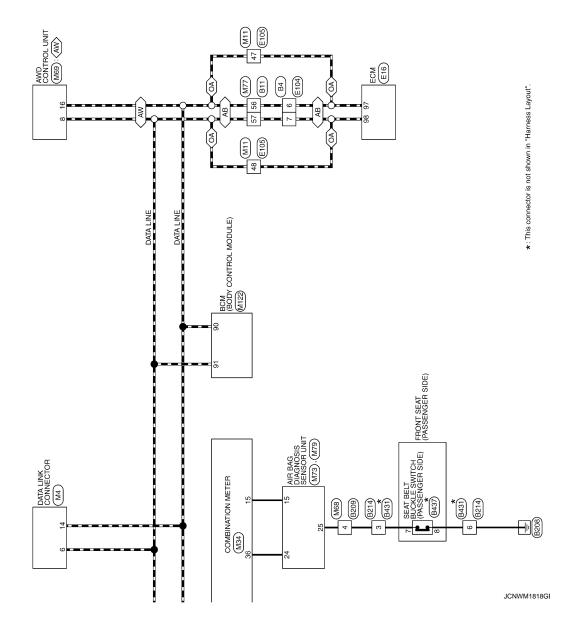
 Type B: From VIN: JN8AZ18U*9W100001, JN8AZ18W*9W200001 JN8AZ18U*9W710001, JN8AZ18W*9W810001 (FOR MEXICO) (EXCEPT FOR MEXICO), AND ELECTRIC UNIT (CONTROL UNIT) CONTROL DEVICE (M57) ⟨PM⟩: With automatic drive positioner ⟨OM⟩: Without automatic drive positioner OVERDRIVE CONTROL SWITCH W35 IPDM E/R (INTELLIGENT POWER DISTRBUTION MODULE ENGINE ROOM) I(E10) · (E11) · (E346) · (F12) TRP CPU ||¢select| COMBINATION METER enter [24 AMBIENT SENSOR (E337) ILLUMINATION CONTROL SWITCH M11 25 21 A/C AUTO AMP. (M50) + ___ M **→** To illumination M43 FUSE BLOCK (J/B) (M1), (M3) BRAKE FLUID LEVEL SWITCH E37 IGNITION SWITCH ON or START 40 4 M11 E105 10A BATTERY 2008/09/23 72 METER

JCNWM1816GI



⟨AW⟩: AWD models
⟨AB⟩: With automatic back door
⟨OA⟩: Without automatic back door





Connector No. 619 Connector Name WIRE TO WIRE Connector Type INSIGNA-CS 1 2 3 4	Connector No. 8301 Connector Name FUEL LEVEL SENSOR UNIT AND FUEL Connector Type	A B C
Connector No. B18 Connector Name WIRE TO WIRE Connector Type NSSPEW-CS Connector Type NSSPEW-CS Terminal Color Signal Name [Specification] No. of Wire B./W B./W B./W B./W B./W B./W Color Signal Name [Specification]	Connector No. B214	E F G
Connector No. 1811 Connector Name WIRE TO WIRE Connector Type TH80MW-CS19 H.S.	Cornector No. B209	J K
METER Connector Name 84 Connector Name WIRE TO WIRE Connector Type NIST6MW-CS	Connector No. 840 FILEL LEVEL SENSOR UNIT AND FUEL	M WCS O JCNWM1819GI

Revision: 2008 October WCS-41 2009 Murano

JCNWM1820GI

BRAKE SWITCH Signal Name [Specification]	Signal Name (Specification)	А
Connector No. E27 Connector Type POIFB-A H.S. Terminal Color No. of Wire Signal Name [Spe	Connector No. E105 Connector Name WIRE TO WIRE Connector Type TH70MW-CS10 Terminal Color No. G Wire 12 L 12 L 12 L 13 L 14 P 15 C 24 L 24 L 24 L 24 L 24 C 47 P 47 P 48 L 60 V	C
RZ8-L-LH 90 97 ivi 105 110 90 97 ivi 105 110 195 99 ivi 105 111 195 99 ivi 107 111 296 199 ivi 107 111 297 199 ivi 108 112 298 199 ivi 108 112 298 199 ivi 108 112 298 199 199 199 199 199 199 199 199 199 1	WIRE CS 13 12 11 10 9 8 Signal Name [Specification]	Е
E 16 10 10 10 10 10 10 10 10 10 10 10 10 10	wire To 6 5 14 16 15 14 16 15 14 16 15 14 16 15 14 16 15 14 16 15 14 16 16 16 16 16 16 16 16 16 16 16 16 16	F G
Connector No Connector Na Connector Na Connector Type Connector Ty	Connector No. Connector Typ. H.S. Terminal Co. No. 6 6 6 7	Н
E11 DOME CR (INTELLIGENT POWER DISTRIBUTION MODILE ENGINE ROOM) THOSPW-NH 42 41 40 39 46 45 44 43 Signal Name (Specification)	BRAKE FLUID LEVEL SWITCH WV02FGY Signal Name [Specification] -	l J
	BRAKE FI	J
Connector Name Connector Type Connector Type Connector Type Connector Type Color Terminal Color No. of Wire 39 40 L	Connector No. Connector Name Connector Type Terminal Color No. Of Wire 1 PP P P P P P P P P P P P	K
		L
No. PEIO POWER P	E38 ABS ACTUATOR AND ELECTRIC UNIT AEZ2ZFB-AJZ4-LH AEZ2ZFB-AJZ4-LH SEZ Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	M
		WCS
in i	Connector No. Connector Name Connector Type 13 12 12 12 12 12 12 12 12 12 12 12 12 12	0
Oconnec C	Common Term Term Term Term Term Term Term Term	JCNWM1821GI
		Р

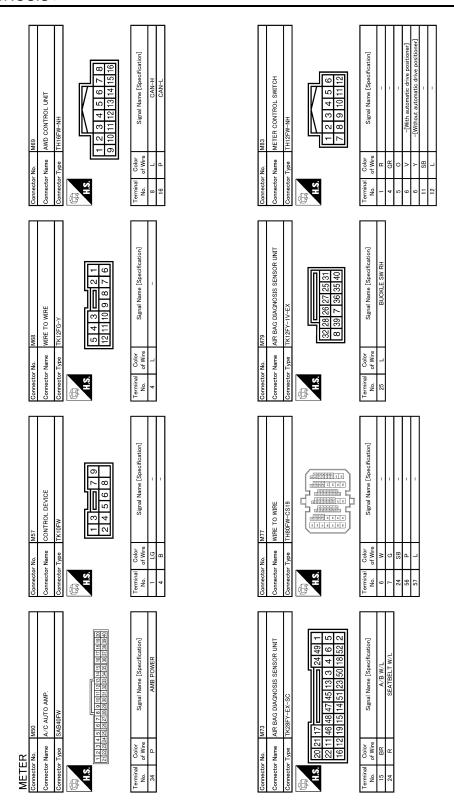
Revision: 2008 October WCS-43 2009 Murano

Connector No. E339 Connector Type NS12FBR-CS Line 12	Terminal Color Signal Nane [Specification] No. of Wire 11 R		Terminal Color No. of Wire Signal Name [Specification] 3 BR
Connector No. E338 Connector Name WASHER LEVEL SWITCH Connector Type 202FBR	Terminal Color Signal Name [Specification] No. R		Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 31 CAN-L CAN-H
Connector No. E337 Connector Name AMBIENT SENSOR Connector Type RS02FB	Terminal Color Signal Name [Specification] No. Oliver Signal Name [Specification] 1 SB - 2 BR -		Terminal Color Signal Name [Specification] No. of Wire 75 LG
METER Connector No. E308 Connector Name ALTERNATOR Connector Type	Terminal Color No. of Wire Signal Name [Specification] 2 B -		Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 100 SB -

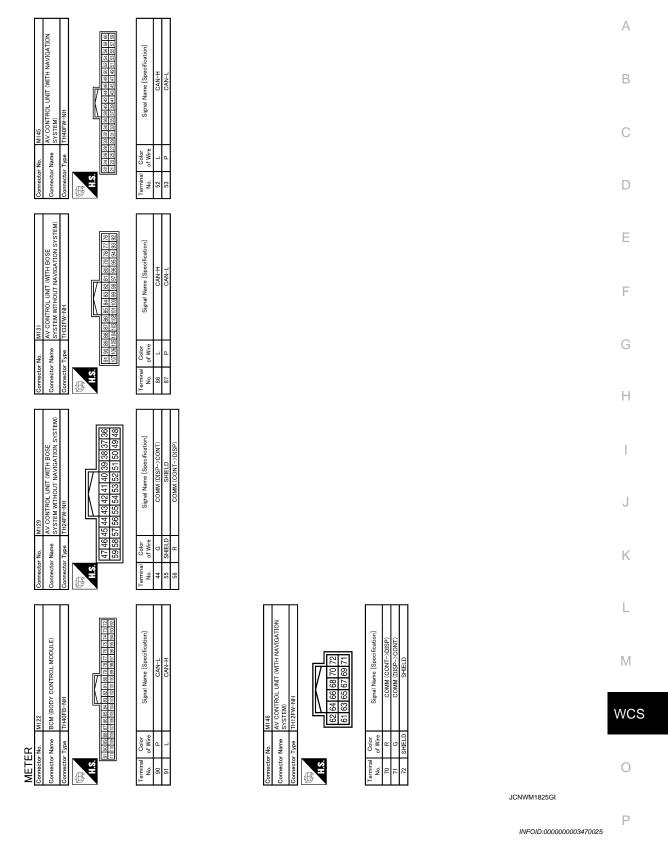
JCNWM1822GI

Connector No. M3 Connector Name FUSE BLOCK (J/B) Connector Type NS12FW-CS H.S. 5G4C 3C 2C 1C 2C 10 100 9C 8C 7C 6C	O Signal Name [Specification]	BR		В
Connector No Connector Na Connector Ty	Terminal No. 12C	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		D
	oeofication)	Si Si Si Ti Bi Si		Е
MI NSOBFW-M2 3A 2A 2A 1A 8A 7A 6A 5A 4A	Signal Name [Specification]	M34 TH40FW-NH TH40FW-NH Signal Name [Specification] Signal Name [Specification] Signal Name [Specification] BAT ILLUMINATION CONTROL SWITCH ALLOMATION CONTROL SWITCH ALLOMATION CONTROL SWITCH ALLOMATION CONTROL SWITCH ALLOMATION CONTROL SWITCH ALLOMANATION CONTROL		F
. a a	al Color of Wire	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		G
Connector No. Connector Na. Connector Ty. H.S.	Terminal No. 1A	Connector Na Conn		Н
1103 S 11	Signal Name [Specification]	WIRE CSIO-M3 CSIO-M3 Signal Name [Specification]		I
FF23 WIRE TO WIRE TK16FGY-1V 6 5 4	Signal N			J
Connector No. F123	Terminal Color No. Of Wire 12 BR 12 BR	Connector No. MII		К
				L
F83 OIL PRESSURE SWITCH EDIFGY-RS-AR	Signal Name [Specification]	M4 BD15FW BD15FW 10 11 12 13 14 15 16 12 3 4 5 6 7 8 Signal Name [Specification]		M
PESSURE EDIFGY-RS-AR		M4 B016FW B101 1 1 2 3 10 1 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		WCS
METER Connector No. Connector Name Connector Type	Terminal Color No. of Wire 1 LG	Commettor Name Commettor Type H.S. H.S. 14 D. 14 D. 14 D. 16 D. 17 D. 18 D. 19 D. 19 D. 10 D. 10 D. 10 D. 11 D. 1		0
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Revision: 2008 October WCS-45 2009 Murano



JCNWM1824GI



Fail-Safe

FAIL-SAFE

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

< ECU DIAGNOSIS >

	Function	Specifications
Speedometer		
Tachometer		Reset to zero by suspending communication.
Engine coolant temperatu	re gauge	
Illumination control		When suspending communication, changes to nighttime mode.
	Door open warning	The display turns off by augmending communication
	Parking brake release warning	The display turns on by suspending communication.
	temperature gauge Introl Door open warning Parking brake release warning Instantaneous fuel warning Average fuel consumption Average vehicle speed Travel distance The I ABS warning lamp VDC OFF indicator lamp SLIP indicator lamp Brake warning lamp AWD warning lamp Low tire pressure warning lamp High beam indicator lamp Turn signal indicator lamp Light indicator lamp Oil pressure warning lamp Oil pressure warning lamp Oil pressure warning lamp	When reception time of an abnormal signal is 2 seconds or
Information display	Average fuel consumption	Reset to zero by suspending communication. When suspending communication, changes to nighttime mode. The display turns off by suspending communication. • When reception time of an abnormal signal is 2 secondless, the last received datum is used for calculation to cate the result. • When reception time of an abnormal signal is more that seconds, the last result calculated during normal conditions in indicated. The buzzer turns off by suspending communication. The lamp turns on by suspending communication. The lamp turns ON after flashing for 1 minute. The lamp turns off by suspending communication. The lamp turns off by suspending communication.
	emperature gauge Trol Door open warning Parking brake release warning Instantaneous fuel warning Average fuel consumption Average vehicle speed Travel distance ABS warning lamp VDC OFF indicator lamp SLIP indicator lamp Brake warning lamp AWD warning lamp Low tire pressure warning lamp High beam indicator lamp Light indicator lamp Dil pressure warning lamp Malfunction indicator lamp CRUISE indicator lamp O/D OFF indicator lamp AWD LOCK indicator lamp AWD LOCK indicator lamp	When reception time of an abnormal signal is more than two
	Travel distance	Reset to zero by suspending communication. When suspending communication, changes to nighttime mode. The display turns off by suspending communication. When reception time of an abnormal signal is 2 seconds less, the last received datum is used for calculation to in cate the result. When reception time of an abnormal signal is more than seconds, the last result calculated during normal conditions indicated. The buzzer turns off by suspending communication. Iamp Idicator lamp In lamp I
Buzzer		The buzzer turns off by suspending communication.
	ABS warning lamp	
	VDC OFF indicator lamp	
	SLIP indicator lamp	The lamp turns on by suspending communication.
	Door open warning Parking brake release warning Instantaneous fuel warning Average fuel consumption Average vehicle speed Travel distance ABS warning lamp VDC OFF indicator lamp Brake warning lamp AWD warning lamp Low tire pressure warning lamp Light indicator lamp Light indicator lamp Malfunction indicator lamp CRUISE indicator lamp CRUISE indicator lamp O/D OFF indicator lamp CRUISE indicator lamp O/D OFF indicator lamp O/D OFF indicator lamp AWD LOCK indicator lamp	
	Low tire pressure warning lamp	The lamp turns ON after flashing for 1 minute.
	High beam indicator lamp	
Warning lamp/indicator lamp	chometer gine coolant temperature gauge mination control Door open warning Parking brake release warning Instantaneous fuel warning Average fuel consumption Average vehicle speed Travel distance Travel distance ABS warning lamp VDC OFF indicator lamp SLIP indicator lamp Brake warning lamp Low tire pressure warning lamp High beam indicator lamp Light indicator lamp Oil pressure warning lamp Malfunction indicator lamp CRUISE indicator lamp O/D OFF indicator lamp O/D OFF indicator lamp AWD LOCK indicator lamp AWD LOCK indicator lamp AWD LOCK indicator lamp AWD LOCK indicator lamp	
idin p		
	Malfunction indicator lamp	The lamp turns off by suspending communication.
	CRUISE indicator lamp	
	O/D OFF indicator lamp	
	AWD LOCK indicator lamp	
	Key warning lamp	

DTC Index

Display contents of CONSULT-III	Diagnostic item is detected when	Refer to
CAN COMM CIRCUIT [U1000]	When combination meter is not transmitting or receiving CAN communication signal for 2 seconds or more.	MWI-38. "Diagnosis Procedure"
CONTROL UNIT (CAN) [U1010]	When detecting error during the initial diagnosis of the CAN controller of combination meter.	MWI-39, "Diagnosis Procedure"
VEHICLE SPEED [B2205]	The abnormal vehicle speed signal is input from the ABS actuator and electric unit (control unit) for 2 seconds or more.	MWI-40. "Diagnosis Procedure"
ENGINE SPEED [B2267]	If ECM continuously transmits abnormal engine speed signals for 2 seconds or more.	MWI-41, "Diagnosis Procedure"
WATER TEMP [B2268]	If ECM continuously transmits abnormal engine coolant temperature signals for 60 seconds or more.	MWI-42, "Diagnosis Procedure"

< ECU DIAGNOSIS >

BCM (BODY CONTROL MODULE)

Α Reference Value INFOID:0000000003470027

В

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR	RITEM
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Monitor Item	Condition	Value/Status	
ED WIDED HI	Other than front wiper switch HI	Off	
IX WII LIXIII	Front wiper switch HI	On	
FR WIPER LOW FR WASHER SW FR WIPER INT FR WIPER STOP INT VOLUME RR WIPER ON RR WIPER INT RR WASHER SW RR WIPER STOP TURN SIGNAL R TURN SIGNAL L TAIL LAMP SW HI BEAM SW	Other than front wiper switch LO	Off	D
	Front wiper switch LO	On	
RR WIPER STOP TURN SIGNAL R TURN SIGNAL L TAIL LAMP SW HI BEAM SW HEAD LAMP SW 1	Front washer switch OFF	Off	_
	Front washer switch ON	On	Е
D WIDED INT	Other than front wiper switch INT/AUTO	Off	
FR WIPER HI FR WIPER LOW FR WASHER SW FR WIPER INT FR WIPER STOP INT VOLUME RR WIPER ON RR WIPER INT RR WASHER SW RR WIPER STOP FURN SIGNAL R FURN SIGNAL L FAIL LAMP SW HI BEAM SW HEAD LAMP SW 1 HEAD LAMP SW 2 PASSING SW AUTO LIGHT SW	Front wiper switch INT/AUTO	On	F
ER WIPER HI ER WIPER LOW ER WASHER SW ER WIPER INT ER WIPER STOP INT VOLUME ER WIPER ON ER WIPER INT ER WASHER SW ER WIPER STOP FURN SIGNAL R FURN SIGNAL L FAIL LAMP SW HI BEAM SW HEAD LAMP SW 1 HEAD LAMP SW 2 PASSING SW EUTO LIGHT SW	Front wiper is not in STOP position	Off	_ '
-K WIPER STOP	Front wiper is in STOP position	On	
NT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position	G
	Other than rear wiper switch ON	Off	
RR WIPER INT	Rear wiper switch ON	On	
	Other than rear wiper switch INT	Off	— П
RR WIPER INT RR WASHER SW RR WIPER STOP TURN SIGNAL R	Rear wiper switch INT	On	
RR WASHER SW	Rear washer switch OFF	Off	_
RR WASHER SW	Rear washer switch ON	On	
RR WIPER STOP	Rear wiper is in STOP position	Off	_
	Rear wiper is not in STOP position	On	— J
RR WASHER SW RR WIPER STOP TURN SIGNAL R	Other than turn signal switch RH	Off	
	Turn signal switch RH	On	K
FR WASHER SW FR WIPER INT FR WIPER STOP NT VOLUME RR WIPER ON RR WIPER INT RR WASHER SW RR WIPER STOP TURN SIGNAL R TURN SIGNAL L FAIL LAMP SW HEAD LAMP SW HEAD LAMP SW 1 HEAD LAMP SW 2 PASSING SW AUTO LIGHT SW	Other than turn signal switch LH	Off	
	Turn signal switch LH	On	
FR WASHER SW FR WIPER INT FR WIPER STOP INT VOLUME RR WIPER ON RR WIPER INT RR WASHER SW RR WIPER STOP FURN SIGNAL R FURN SIGNAL L FAIL LAMP SW HI BEAM SW HEAD LAMP SW 1 HEAD LAMP SW 2 PASSING SW AUTO LIGHT SW FR FOG SW	Other than lighting switch 1ST and 2ND	Off	L
	Lighting switch 1ST or 2ND	On	
U DE 444 OVA/	Other than lighting switch HI	Off	M
HI BEAM SW	Lighting switch HI	On	
15.45.1.415.0\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Other than lighting switch 2ND	Off	
HEAD LAMP SW 1	Lighting switch 2ND	On	WCS
	Other than lighting switch 2ND	Off	
HEAD LAMP SW 2	Lighting switch 2ND	On	_
	Other than lighting switch PASS	Off	
PASSING SW	Lighting switch PASS	On	
	Other than lighting switch AUTO	Off	P
AUTO LIGHT SW	Lighting switch AUTO	On	
	Front fog lamp switch OFF	Off	_
R FOG SW	Front fog lamp switch ON	On	
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off	

Monitor Item	Condition	Value/Status
DOOR SW-DR	Driver door closed	Off
DOOK SW-DK	Driver door opened	On
DOOR SW.AS	Passenger door closed	Off
DOOK SW-AS	Passenger door opened	On
DOOR SW-DR DOOR SW-AS DOOR SW-RR DOOR SW-RL DOOR SW-BK CDL LOCK SW CDL UNLOCK SW KEY CYL LK-SW KEY CYL UN-SW KEY CYL SW-TR HAZARD SW REAR DEF SW NOTE: At model with BOSE audio system this item is no monitored.	Rear RH door closed	Off
DOOK SW-KK	Rear RH door opened	On
DOOD SW/ DI	Rear LH door closed	Off
DOOR SW-RL	Rear LH door opened	On
DOOD SWIRK	Back door closed	Off
DOOK SW-BK	Back door opened	On
CDL I OCK SW	Other than power door lock switch LOCK	Off
CDL LOCK SW	Power door lock switch LOCK	On
CDL LINII OCK SW	Other than power door lock switch UNLOCK	Off
CDL UNLOCK SW	Power door lock switch UNLOCK	On
KEN ONLIK OM	Other than driver door key cylinder LOCK position	Off
KEY CYLLK-SVV	Driver door key cylinder LOCK position	On
KEN ON TIM OM	Other than driver door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
LIAZADD CW	Hazard switch is OFF	Off
HAZARD SW	Hazard switch is ON	On
REAR DEF SW	Rear window defogger switch OFF	Off
NOTE: At model with BOSE audio system this item is not monitored.	Rear window defogger switch ON	On
TR CANCEL SW	NOTE: The item is indicated, but not monitored.	Off
TD/DD ODEN OW	Back door opener switch OFF	Off
IK/BD OPEN SW	While the back door opener switch is turned ON	On
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
DKE LOCK	LOCK button of the key is not pressed	Off
RKE-LUCK	LOCK button of the key is pressed	On
DKE TIMI OOK	UNLOCK button of the key is not pressed	Off
RKE-UNLOCK	UNLOCK button of the key is pressed	On
DVE TD/DD	BACK DOOR OPEN button of the key is not pressed	Off
RKE-TR/BD	BACK DOOR OPEN button of the key is pressed	On
DICE BANIO	PANIC button of the key is not pressed	Off
RKE-PANIC	PANIC button of the key is pressed	On
DIVE DAM OBEN	UNLOCK button of the key is not pressed	Off
RKE-P/W OPEN	UNLOCK button of the key is pressed and held	On
DIVE MODE OUT	LOCK/UNLOCK button of the key is not pressed and held simultaneously	Off
RKE-MODE CHG	LOCK/UNLOCK button of the key is pressed and held simultaneously	On

Monitor Item	Condition	Value/Status	_
ODTICAL CENCOR	Bright outside of the vehicle	Close to 5 V	
OPTICAL SENSOR	Dark outside of the vehicle	Close to 0 V	
REQ SW -DR	Driver door request switch is not pressed	Off	-
KEQ 5W -DK	Driver door request switch is pressed	On	
DEO CM. AC	Passenger door request switch is not pressed	Off	
REQ SW -AS	Passenger door request switch is pressed	On	
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off	
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off	
DEO OM DD/TD	Back door request switch is not pressed	Off	
REQ SW -BD/TR	Back door request switch is pressed	On	
DI IOI I OW	Push-button ignition switch (push switch) is not pressed	Off	
PUSH SW	Push-button ignition switch (push switch) is pressed	On	
	Ignition switch in OFF or ACC position	Off	
IGN RLY2 -F/B	Ignition switch in ON position	On	
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off	
CLUCH SW	NOTE: The item is indicated, but not monitored.	Off	
	The brake pedal is depressed when No. 7 fuse is blown	Off	
BRAKE SW 1	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	
SNARL SW 2	Stop lamp switch 1 signal circuit is normal	On	
DETE/CANCL SW	Selector lever in P position	Off	
DETE/CANCE 3W	Selector lever in any position other than P	On	
SFT PN/N SW	Selector lever in any position other than P and N	Off	
SFT PIN/IN SVV	Selector lever in P or N position	On	
C/L L OCK	Steering is unlocked	Off	
S/L -LOCK	Steering is locked	On	
S/L LINILOCK	Steering is locked	Off	
S/L -UNLOCK	Steering is unlocked	On	
2/L DELAY E/D	Ignition switch in OFF or ACC position	Off	
S/L RELAY-F/B	Ignition switch in ON position	On	
	Driver door is unlocked	Off	
UNLK SEN -DR	Driver door is locked	On	
	Push-button ignition switch (push-switch) is not pressed	Off	
PUSH SW -IPDM	Push-button ignition switch (push-switch) is pressed	On	
	Ignition switch in OFF or ACC position	Off	
GN RLY1 -F/B	Ignition switch in ON position	On	
	Selector lever in any position other than P	Off	
DETE SW -IPDM	Selector lever in P position	On	
	Selector lever in any position other than P and N	Off	
SFT PN -IPDM	Selector lever in P or N position	On	

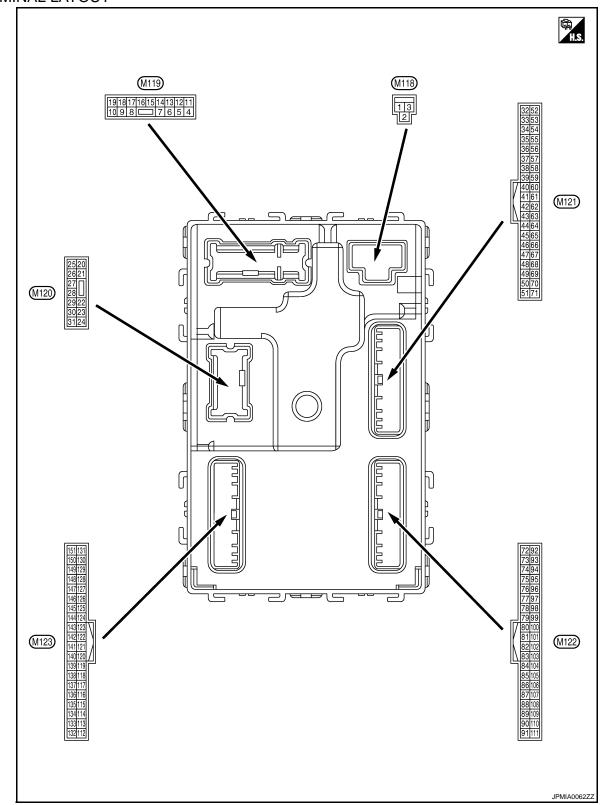
Monitor Item	Condition	Value/Status
SFT P -MET	Selector lever in any position other than P	Off
SI I F -IVIL I	Selector lever in P position	On
SFT N -MET	Selector lever in any position other than N	Off
OF I IN -IVIE I	Selector lever in N position	On
	Engine stopped	Stop
ENCINE STATE	While the engine stalls	Stall
ENGINE STATE	At engine cranking	Crank
	Engine running	Run
C/L L OCK IDDM	Steering is unlocked	Off
S/L LOCK-IPDM	Steering is locked	On
0// LINII K IDDM	Steering is locked	Off
S/L UNLK-IPDM	Steering is unlocked	On
C/L DELAY DEO	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK.	Off
S/L RELAY-REQ	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
	Driver door is locked	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door is unlocked	UNLOCK
	Passenger door is locked	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door is unlocked	UNLOCK
ID OK ELAO	Steering is locked	Reset
ID OK FLAG	Steering is unlocked	Set
DDMT ENO OTDT	The engine start is prohibited	Reset
PRMT ENG STRT	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
KEY CW CLOT	The key is not inserted into key slot	Off
KEY SW -SLOT	The key is inserted into key slot	On
RKE OPE COUN1	During the operation of the key	Operation frequency of the key
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	_
CONFRAIR ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
CONFRM ID ALL	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done
CONFIDM ID4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
CONFIRM ID4	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
COM INMI IDO	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status				
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet				
CONFIRM IDZ	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done				
CONFIDM ID4	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet				
CONFIRM ID1	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done				
TD 4	The ID of fourth key is not registered to BCM	Yet				
TP 4	The ID of fourth key is registered to BCM	Done				
TD 2	The ID of third key is not registered to BCM	Yet				
TP 3	The ID of third key is registered to BCM	Done				
TD 2	The ID of second key is not registered to BCM	Yet				
TP 2	The ID of second key is registered to BCM	Done				
TD 4	The ID of first key is not registered to BCM	Yet				
TP 1	The ID of first key is registered to BCM	Done				
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received) Air pressure of front LH tire					
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire				
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire				
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire				
ID DECCT EL 4	ID of front LH tire transmitter is registered	Done				
ID REGST FL1	ID of front LH tire transmitter is not registered	Yet				
ID REGST FR1	ID of front RH tire transmitter is registered	Done				
D NEGOI PRI	ID of front RH tire transmitter is not registered	Yet				
ID REGST RR1	ID of rear RH tire transmitter is registered	Done				
ע אבטטו אאו	ID of rear RH tire transmitter is not registered	Yet				
D DECCT DL 4	ID of rear LH tire transmitter is registered	Done				
D REGST RL1	ID of rear LH tire transmitter is not registered	Yet				
MADNING LAMP	Tire pressure indicator OFF	Off				
WARNING LAMP	Tire pressure indicator ON	On				
DI 177ED	Tire pressure warning alarm is not sounding	Off				
BUZZER	Tire pressure warning alarm is sounding	On				

0

TERMINAL LAYOUT



PHYSICAL VALUES

	inal No.	Description				Value		
+	e color)	Signal name	Input/ Output		Condition	(Approx.)		
1 (W)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage		
2 (GR)	Ground	P/W power supply (BAT)	Output	Ignition switch OF	F	Battery voltage		
3 (L)	Ground	P/W power supply (RAP)	Output	Ignition switch ON	1	Battery voltage		
4		Interior room lamp			battery saver is activated.	0 V		
(P)	Ground	power supply	Output	ed.	battery saver is not activat- or room lamp power supply)	Battery voltage		
5	Cround	Passenger door UN-	Output	December door	UNLOCK (Actuator is activated)	Battery voltage		
(G)	Ground	LOCK	Output	Passenger door	Other than UNLOCK (Actuator is not activated)	0 V		
7	Cround	Stop Jamp	Outout	Stop lamp	ON	0 V		
(W)	Ground	Step lamp	Output	Step lamp	OFF	Battery voltage		
8	Granad	All doors LOCK	Outout	All doors	LOCK (Actuator is activated)	Battery voltage		
(V)	Ground	All GOOLS LOCK	Output	All doors	Other than LOCK (Actuator is not activated)	0 V		
9	Ground	Driver door UNLOCK	Outout	put Driver door	UNLOCK (Actuator is activated)	Battery voltage		
(G)	Giound	PIIVEI UUUI UIVLUCK	Output		Other than UNLOCK (Actuator is not activated)	0 V		
10	Ground	Rear RH door and rear LH door UN-	Output	Rear RH door	UNLOCK (Actuator is activated)	Battery voltage		
(P)	Cround	LOCK	Cuiput	and rear LH door	Other than UNLOCK (Actuator is not activated)	0 V		
11 (LG)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage		
13 (B)	Ground	Ground	_	Ignition switch ON	I	0 V		
					OFF	0 V		
14		Push-button ignition				NOTE: When the illumination brightening/dimming level is in the neutral position	V	
(O)	Ground	switch illumination ground	Output	t Tail lamp	Output Tail lamp	ON	10 0 2 ms JSNIA0010GB	
					OFF	Battery voltage		
15	Ground	ACC indicator lamp	Output	Ignition switch	ACC	0.2 V		
(L)	2,00110			g	ON	0 V		

	inal No. e color)	Description			Condition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					Turn signal switch OFF	0 V
17 (G)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch RH	10 0 1 s PKID0926E 6.5 V
					Turn signal switch OFF	0 V
18 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
19	Ground	Room lamp timer	Output	Interior room	OFF	Battery voltage
(Y)	O. Garra	control	Carpar	lamp	ON	0 V
23		Back door open		Back door	OPEN (Back door opener actuator is activated)	Battery voltage
(BR)	Ground		Output		Other than OPEN (Back door opener actuator is not activated)	0 V
26	Ground	Rear wiper	Output	Rear wiper	OFF (Stopped)	0 V
(G)	Giodila	Real wiper	Output	Real wiper	ON (Operated)	Battery voltage
34* ¹	Ground	Luggage room anten-	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(B)		na (-)		OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB

	inal No.	Description				V-I	
(Wire	e color) –	Signal name	Input/ Output		Condition	Value (Approx.)	А
35* ¹	One	Luggage room anten-	0.4-4	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	B C D
(W)	Ground	na (+)	Output	ŎFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	E F
38* ¹	One	Rear bumper anten-	Outrat	When the back door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	G H I
(L)	Ground	na (-)	Output	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 S JMKIA0063GB	J K L
39* ¹	One	Rear bumper anten-	Outrat	When the back door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	M WCS
(BR)	Ground	na (+)	Output	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	Р
47 (L)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC	Battery voltage	

	inal No. e color)	Description			O 199	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
50				Ignition switch	When selector lever is in P or N position	Battery voltage
52 (R)	Ground	Starter relay control	Output	ON	When selector lever is not in P or N position	0.3 V
				Ignition switch OF	F	0 V
					ON (Pressed)	0 V
61* ¹ (R)	Ground	Back door request switch	Input	Back door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
64* ¹	0	10/2012	0 1 1	NA/	Sounding	0 V
(GR)	Ground	Warning buzzer	Output	Warning buzzer	Not sounding	Battery voltage
65 (O)	Ground	Rear wiper stop position	Input	Rear wiper	In stop position	(V) 15 10 5 0 10 ms JPMIA0016GB
					Not in stop position	0 V
66 (Y)	Ground	Back door switch	Input	Back door switch	OFF (When back door closes)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (When back door opens)	0 V
					Pressed	0 V
67 (LG)	Ground	Back door opener switch	Input	Back door opener switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0011GB

< ECU DIAGNOSIS >

	inal No.	Description				Value	0
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
68 (W)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (When rear RH door closes)	(V) 15 10 5 0 10 ms 10 ms JPMIA0011GB	B C
					ON (When rear RH door opens)	0 V	_
69 (R)	Ground	Rear LH door switch	Input	Rear LH door switch	OFF (When rear LH door closes)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V	E F G
					ON (When rear LH door opens)	0 V	Н
72* ¹	0	Room antenna 2 (-)	0.1.1	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	J
(B)	Ground	(Center console)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	K L

WCS

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	ninal No. re color)	Description	le : ''		Condition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
73* ¹	Ground	Room antenna 2 (+)	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(W)	Ground	(Center console)	Cutput	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
74* ¹	Ground	Passenger door an-	Output	When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(Y)	Glound	tenna (-)	Output	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
75* ¹		Passenger door an-		When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(LG)	Ground	tenna (+)	Output	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 1

(Mire color)		Description				Value	
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
76* ¹	Crowd	Driver door antenna	Outout	When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	B C
(V)	Ground	(-)	Output	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	E
							G
				When the driver	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	Н
77* ¹ (P)	Ground	Driver door antenna (+)	Output	door request switch is operat- ed with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0	J K
						JMKIA0063GB	L
					When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	W
78* ¹ (R)	Ground	Room antenna 1 (-) (Instrument panel)	Output	Ignition switch OFF			0
					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s	Ρ

	inal No. e color)	Description			0 100	Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
79* ¹	Ground	Room antenna 1 (+)	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 1
(G)		(Instrument panel)		OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB
80 (SB)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
81 (O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
82 (BR)	Ground	Ignition relay [fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V Battery voltage
83	Ground	Remote keyless entry receiver communica-	Input/	During waiting		(V) 15 10 5 0 1 ms
(P)	Giouna	tion	Output	When operating e	ither button on the key	(V) 15 10 5 0 1 ms JMKIA0065GB

< ECU DIAGNOSIS >

	inal No.	Description				Value	А
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	B C
					Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms	E
87 (R)	Ground	Combination switch INPUT 5	Input	Combination switch	Rear wiper switch ON (Wiper intermittent dial 4)	1.3 V (V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V	G H
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB	J K L

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	inal No. e color)	Description				Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB
88 (GR)	Ground	Combination switch INPUT 3	Input	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB
					Rear washer switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V
					Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB
89		Push-button ignition		Push-button igni-	Pressed	0 V
(BR)	Ground	switch (push switch)	Input	tion switch (push switch)	Not pressed	Battery voltage
90 (P)	Ground	CAN - L	Input/ Output			
91 (L)	Ground	CAN - H	Input/ Output		_	_

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
					OFF	0 V
92 (R)* ¹ (L)* ²	Ground	Key slot illumination	Output	Key slot illumina- tion	Blinking	(V) 15 10 5 0 1 s JPMIA0015GB
					ON	6.5 V Battery voltage
					OFF or ACC	Battery voltage
93 (L)	Ground	ON indicator lamp	Output	Ignition switch	ACC	0.2 V
(-)					ON	0 V
95	C :	ACC	0	Innitian	OFF	0 V
(L)	Ground	ACC relay control	Output	Ignition switch	ACC or ON	Battery voltage
96 (Y)	Ground	Control device (de- tention switch) power supply	Output		_	Battery voltage
97	7 Steering lock condi-	la : 1		LOCK status	0 V	
(O)	Ground	tion No. 1	Input	Steering lock	UNLOCK status	Battery voltage
98	Ground Steering lock condi-		land Otanian Indi	LOCK status	Battery voltage	
(L)	Ground	tion No. 2	Input	Steering lock	UNLOCK status	0 V
99		Selector lever P posi-		out Selector lever	P position	0 V
(V)	Ground	tion switch			Any position other than P	Battery voltage
					ON (Pressed)	0 V
100* ¹ (P)	Ground	Passenger door request switch	Input	Passenger door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms
					ON (Pressed)	1.0 V 0 V
					3.7 (1.100004)	
101* ¹ (W)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
102	Ground	Blower fan motor re-	Output	Ignition switch	OFF or ACC	1.0 V 0 V
(Y)	Giodila	lay control	Cuipui	iginion switch	ON	Battery voltage
103 (L)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	F	Battery voltage

	inal No. e color)	Description	1	Condition		Value
+	e color)	Signal name	Input/ Output			(Approx.)
106	Ground	Steering lock unit	Output	Ignition switch	OFF or ACC	Battery voltage
(Y)	Ground	power supply	Output	Igrillion switch	ON	0 V
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA004
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA003
107 (O)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA003
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA003
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA003

< ECU DIAGNOSIS >

	inal No.	Description				Value
(Wire			Input/ Output	Condition		(Approx.)
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB
108 (P)	Ground	Combination switch INPUT 4	Input	Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 2 ms JPMIA0036GB
					Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10 5 0 JPMIA0040GB 1.3 V
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	(V) 15 10 5 0 2 ms JPMIA0039GB

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	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
					All switches OFF	(V) 15 10 0 2 ms JPMIA0041GB
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB
109 (SB)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB
					Front wiper switch INT/ AUTO	(V) 15 10 5 0 2 ms JPMIA0038GB
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V
					ON	0 V
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB

	inal No.	Description				Value	
(Wire	e color) –	Signal name	Input/ Output	Condition		Value (Approx.)	
					LOCK status	Battery voltage	
111 (LG) Groun		Steering lock unit communication		Steering lock	LOCK or UNLOCK	(V) 15 10 5 0 50 ms JMKIA0066GB	
					For 15 seconds after UN- LOCK	Battery voltage	
					15 seconds or later after UNLOCK	0 V	
112 (R)	Ground	Rain sensor serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0	
					When bright outside of the	8.7 V Close to 5 V	
113* ³ (O)	Ground	Optical sensor	Input	Ignition switch ON	wehicle When dark outside of the vehicle	Close to 0 V	
116 (GR)	Ground	Stop lamp switch 1	Input		_	Battery voltage	
118 (L)	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (Brake pedal is not depressed) ON (Brake pedal is de-	0 V	
. ,					pressed)	Battery voltage	
119* ¹ (W)	Ground	Front door lock assembly driver side (Unlock sensor)	Input	Driver door	LOCK status (unlock sensor switch OFF)	(V) 15 10 5 0 10 ms JPMIA0012GB	
					UNLOCK status (unlock sensor switch ON)	0 V	
121	Ground	Key slot switch	Input		serted into key slot	Battery voltage	
(Y)	2.00110	1.0, 0.00 00000	pat	When the key is n	ot inserted into key slot	0 V	
122 (R)	Ground	ACC feedback	Input	Ignition switch	OFF ACC or ON	0 V Battery voltage	
123	_				OFF or ACC	0 V	
(G)	Ground	IGN feedback	Input	Ignition switch	ON	Battery voltage	

	inal No. e color)	Description	1			Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
124 (R)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closes)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (When passenger door opens)	0 V
130* ⁴ (BR)	Ground	Rear window defog- ger switch	Input	Ignition switch ON	Rear window defogger switch OFF	(V) 15 10 5 0 10 ms JPMIA0012GB
					Rear window defogger switch ON	0 V
132 (G)	Ground	Power window switch communication	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB 10.2 V
				Ignition switch OF	F or ACC	Battery voltage
					ON (When tail lamps OFF)	9.5 V
133 (W)	Ground	Push-button ignition switch illumination	Output	Push-button ignition switch illumination	ON (When tail lamps ON)	NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level. (V) 15 10 5
						JPMIA0159GB
137		Receiver and sensor			OFF	0 V
(P)	Ground	ground sensor	Input	Ignition switch ON		0 V
138	Ground	Receiver and sensor power supply	Output	Ignition switch	OFF	0 V
(V)		power suppry			ACC or ON	5.0 V

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	value (Approx.)
139* ⁵		Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 *** 0.2s OCC3881D
	er communication	Output	ÓN	When receiving the signal from the transmitter	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
140	0	Selector lever P/N	la a cet	Colortonlosson	P or N position	Battery voltage
(GR)	Ground	position	Input	Selector lever	Except P and N positions	0 V
					ON	0 V
141 (O)		Security indicator	Output	put Security indicator	Blinking	(V) 15 10 5 0 1 s JPMIA0014GB
					OFF	Battery voltage
					All switches OFF	0 V
142	Ground	Combination switch	Output	Combination switch	Lighting switch 1ST Lighting switch HI Lighting switch 2ND	(V) 15 10
(L)		OUTPUT 5	(Wiper inte	(Wiper intermit- tent dial 4)	Turn signal switch RH	0
					All switches OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	
143 (W) Ground	Ground	Combination switch OUTPUT 1		Combination switch	Rear wiper switch INT (Wiper intermittent dial 4) Any of the conditions below with all switches OFF Wiper intermittent dial 1	(V) 15 10 5 0
				 Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 3 Wiper intermittent dial 6 Wiper intermittent dial 7 		

	inal No. e color)	Description			Condition	Value	
+	_	Signal name	Input/ Output		Condition	(Approx.)	
					All switches OFF (Wiper intermittent dial 4)	0 V	
					Front washer switch ON (Wiper intermittent dial 4)		
144	0	Combination switch	Outrast	Combination	Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15	
(P)	Ground	OUTPUT 2	Output	switch	Rear washer switch ON (Wiper intermittent dial 4)	10 5 0	
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	2 ms JPMIA0033GB	
					All switches OFF	0 V	
					Front wiper switch INT/ AUTO	(V)	
145	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermit- tent dial 4)	Front wiper switch LO	15	
(V)					Lighting switch AUTO	5 0 2 ms JPMIA0034GB	
					All switches OFF	10.7 V	
					Front fog lamp switch ON	U V	
		Combination switch OUTPUT 4	Output	Combination switch	Lighting switch 2ND	(V)	
146					Lighting switch PASS	15	
(Y)	Ground			(Wiper intermit-	Lighting ownor i rico	10 5 0	
				tent dial 4)	Turn signal switch LH	2 ms JPMIA0035GB	
149* ⁵ (W)	Ground	Tire pressure warn- ing check switch	Input	Ignition switch ON	l.	(V) 15 10 5 0 10 ms JPMIA0011GB	
150 (SB)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closes) ON (When driver door	(V) 15 10 5 0 10 ms 11.8 V	

< ECU DIAGNOSIS >

	inal No.	Description				Value
+ (VVire	e color)	Signal name	Input/ Output		Condition (Approx.)	
151	Ground	Rear window defog-	Output	Rear window de-	Active	0 V
(G)	Giodila	ger relay control	Output	fogger	Not activated	Battery voltage

NOTE:

- *1: With Intelligent Key system
- *2: Without Intelligent Key system
- *3: With auto light system
- *4: Without BOSE audio system
- *5: With TPMS

Wiring Diagram - BCM -

UP TO VIN: JN8AZ18U*9W100000, JN8AZ18W*9W200000 (EXCEPT FOR MEXICO),

G

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В

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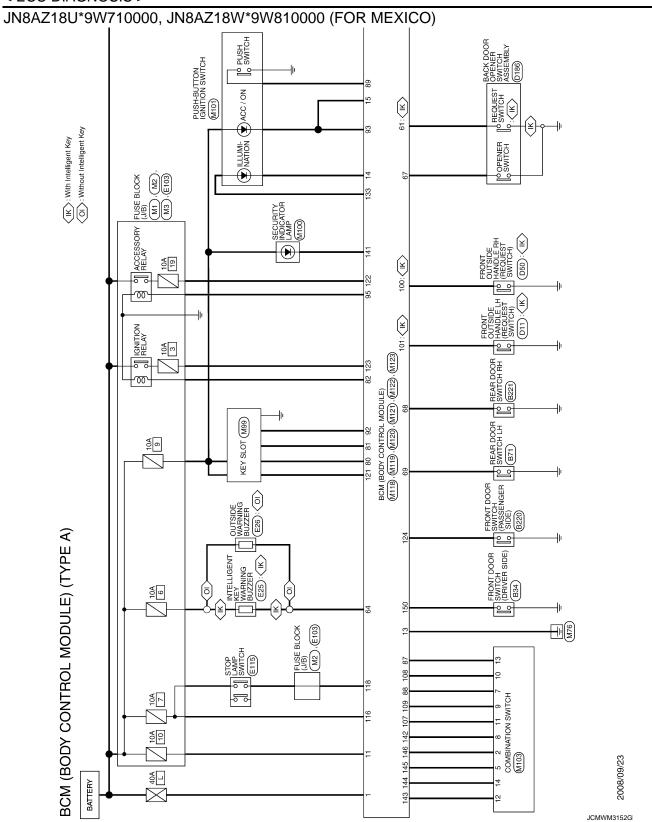
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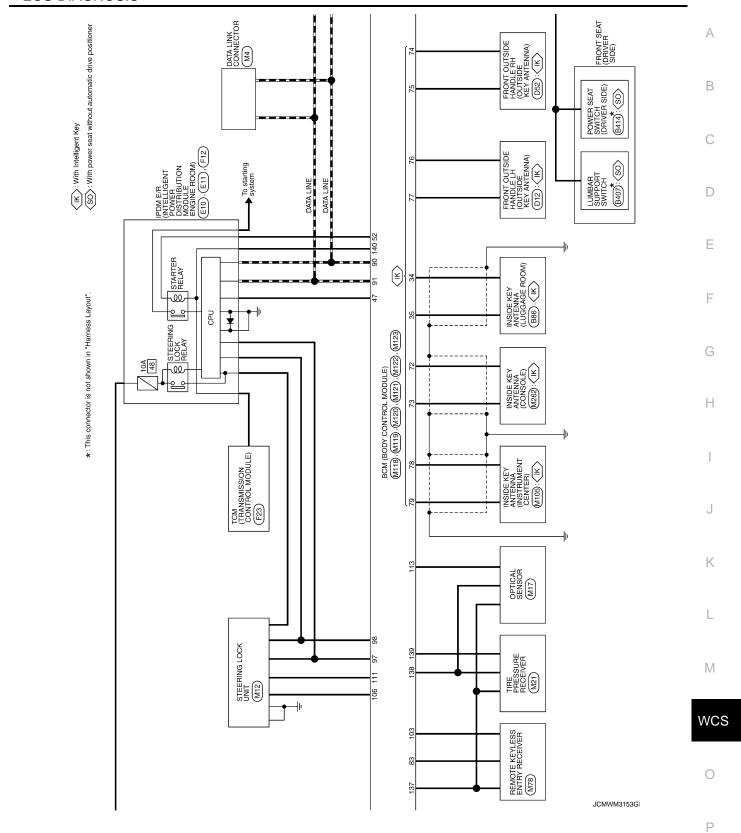
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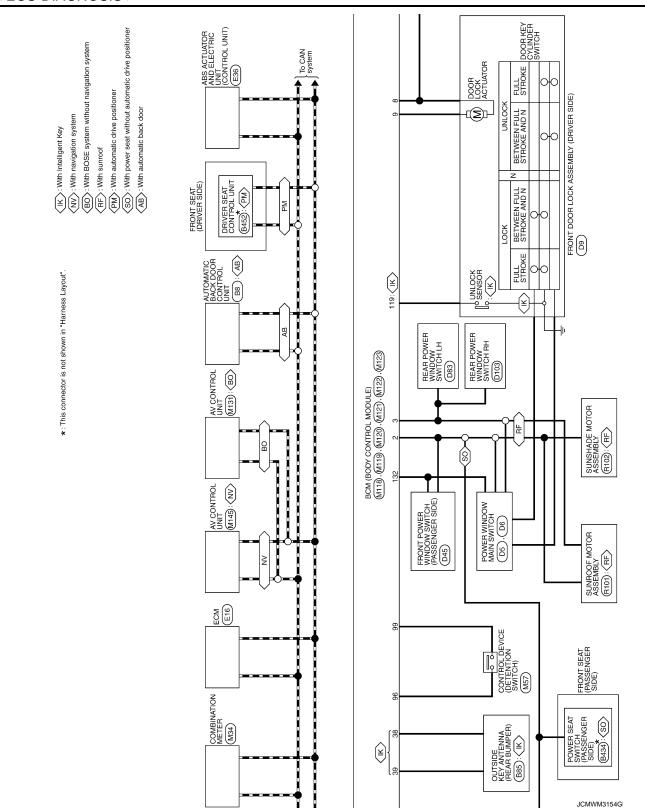
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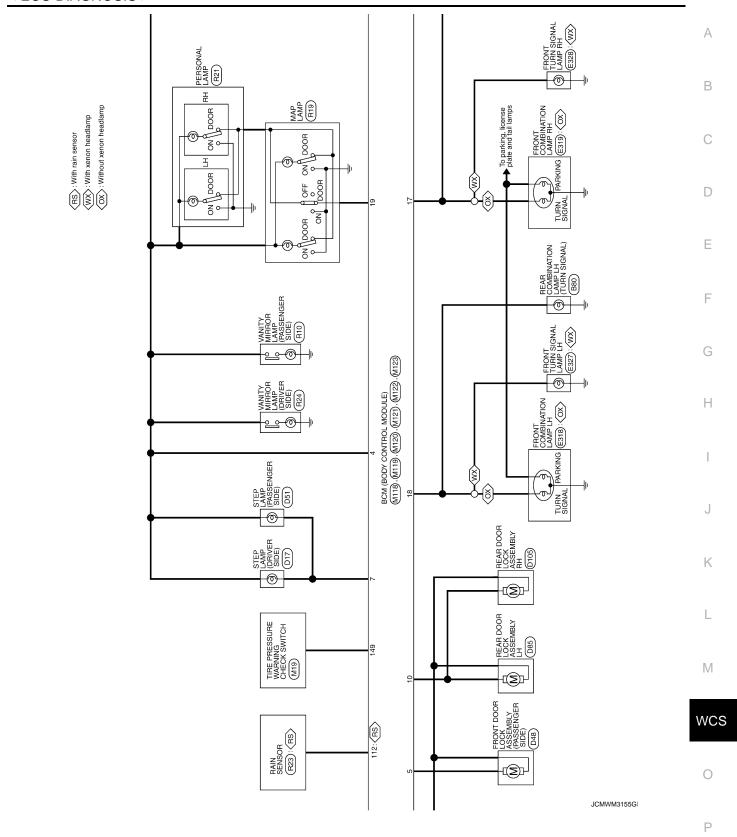
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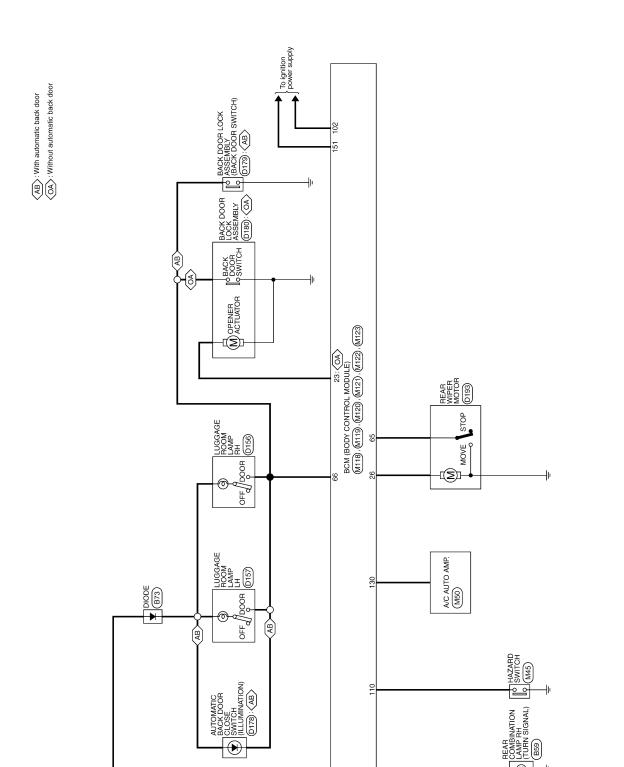
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JCMWM3156G

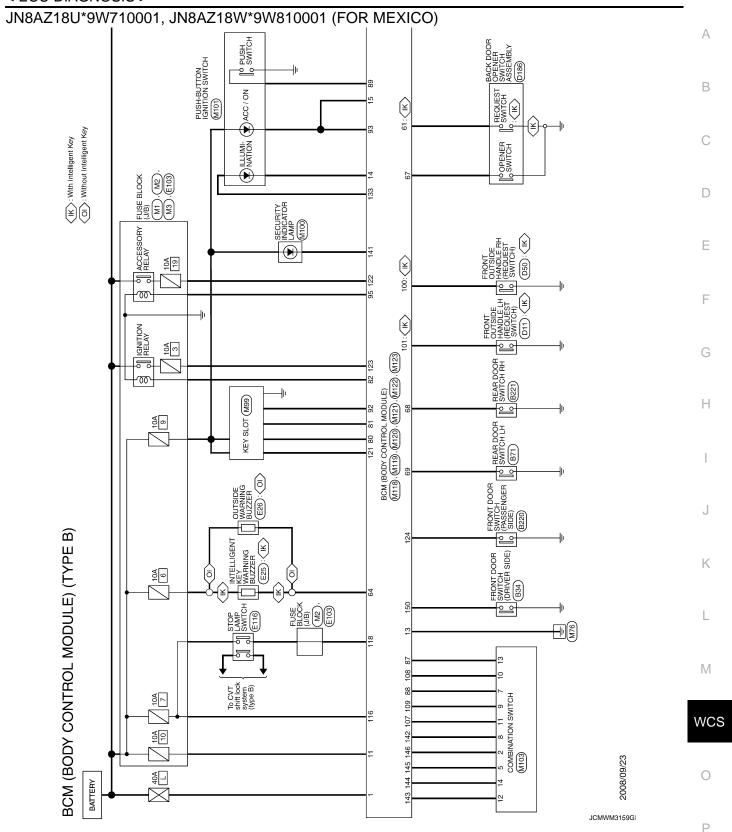
18 BR TURN SIGNAL LH 19 Y ROOM LAMP TIMER CONTROL			(A B C
	OTPUT OTPUT			
M119	ALL DOOR, FUEL LID LOCK OUTPUT DRIVER DOOR, FUEL LID UNLOCK OUTPUT REAR DOOR LUINOCK OUTPUT BAT (FUSE) GND TURN SIGNAL RH REAR RH DOOR SW REAR LH DOOR SW			E F
Name Type Color of Wire P	× × © □ □ □ □ □ ○ × ×		(G
Connecto Connecto Connecto Connecto No. No. 4	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		1	Н
MOSTB-LC MOSTB-LC MOSTB-LC Signal Name [Specification] BAT (F/L) POWER WINDOW POWER SUPPLY (BAT)	M121 M21 TH40FGY-NH TH40FGY-NH TH40FGY-NH TH40FGY-NH TH40FGY-NH TH40FGY-NH TH40FGY-NH TH40FGY-NH	Signal Name [Specification] LUGGAGE ROOM ANTI- REAR BUMPER NAT- REAR BUMPER NAT- REAR BUMPER NAT- REAR BUMPER ANTI- TON RELAY CONT STAFTER REQUEST SW REQUEST SW BUZZER REQUEST SW BUZZER REAK DOOR OFENER STOP POSITION BACK DOOR OFENER SW BACK DOOR SW BACK DOOR SW BACK DOOR OFENER SW		I
BCM (BODY CO) M03FB-LC M03FB-LC Signal I	or No. M121 Or No. M121 Or Type TH40FGY-NH TH40FGY-NH	Signal LUGG LUGG LUGG LUGG LUGG REG REA REA BACK DOO REA REA REA BACK BACK BACK BACK BACK BACK BACK BAC	,	J
Color Type M W W W GR	Connector No. M Connector Name Bit Connector Type Type Type Type Type Type Type Type	Terminal Color No. of Wire No.	ı	K
		2 5		L
BCM (BODY CONTROL MODULE)		Signal Name [Specification] BACK DOOR OPEN OUTPUT REAR WIPER OUTPUT	1	M
DY CON MINDS COMBINATION THEORY-WILL THE			W	/CS
BCM (BOL Connector Name Connector Name Connector Type Connector Ty	7 GR 8 L L SB 9	Color Colo	(0
때 <u>위 요 제 </u>		<u> - </u>	JCMWM3157GI	
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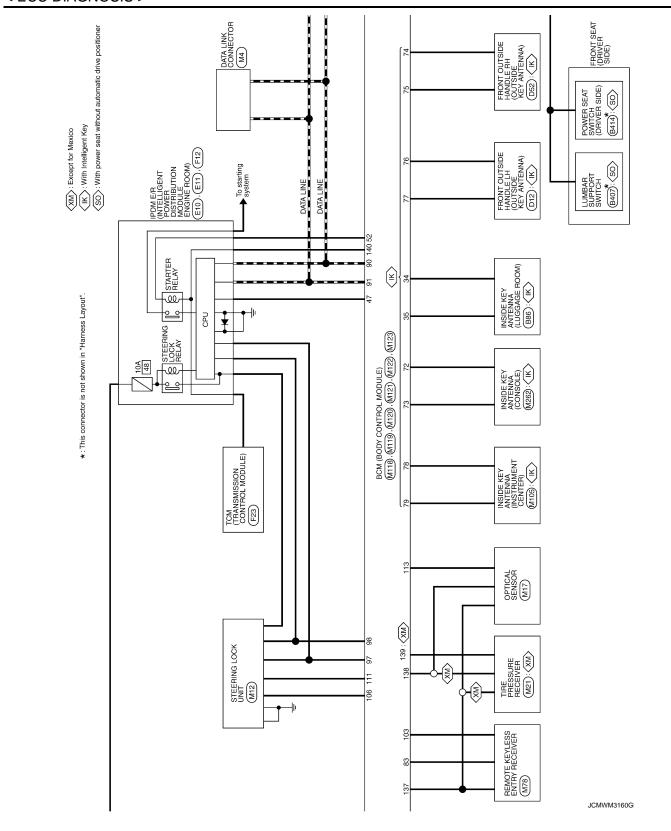
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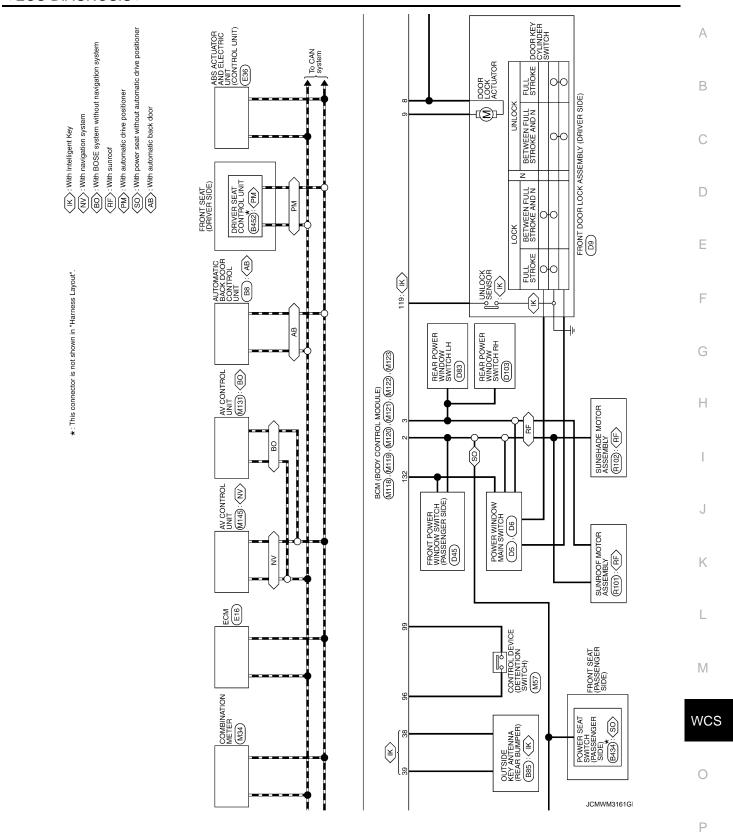
Σ	I (BODY CONTROL MODULE) (I YPE A)	E A									
ctor No.	Vo. M122	83	Д	KEYLESS ENTRY RECEIVER SIGNAL	Connector No.	lo. M123	23	133	Μ	PUSH-BUTTON IGNITION SW ILL POWER	_
	N	87	Я	COMBI SW INPUT 5		79	(a lindow loginos Adod) Mod	137	۵	RECEIVER/SENSOR GND	_
· Jona	Value BOM (BOD) CONTROL MODOLE)	88	SR	COMBI SW INPUT 3	Collifector	allie DC	M (BODI CONTROL MODOLE)	138	^	RECEIVER/SENSOR POWER SUPPLY	_
ctor Type	Type TH40FB-NH	68	BR	PUSH SW	Connector Type		TH40FG-NH	139	0	TIRE PRESS RECEIVER SIGNAL	_
ŀ		06	d	CAN-L	4			140	GR	SHIFT N/P	_
•		91	7	CAN-H	匮			141	0	SECURITY INDICATOR OUTPUT	_
ď		95	ď	KEY SLOT ILL[With Intelligent Key]	S II			142	٦	COMBI SW OUTPUT 5	_
3 [95	7	KEY SLOT ILL[Without Intelligent Key]	- 14		7	143	М	COMBI SW OUTPUT 1	_
5	91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72	93	7	ONI NO	131	130 129 128 127	31 130 123 123 127 126 125 124 123 122 121 121 120 119 118 117 116 115 114 113 112	144	Д	COMBI SW OUTPUT 2	_
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		96	٨	A/T DEVICE POWER SUPPLY				146	Y	COMBI SW OUTPUT 4	_
		97	0	S/L CONDITION 1				149	*	TIRE PRESS WARNING CHECK SW	_
nal	Color Simol Mana [Sacaification]	86	٦	S/L CONDITION 2	Terminal	Color	Cinnel Money [Conniferation]	120	SB	DRIVER DOOR SW	_
_	of Wire	66	>	SHIFT P	No.	of Wire	oignal Ivanie [opecinication]	151	5	REAR WINDOW DEFOGGER RELAY	_
H	B ROOM ANT2-	100	Ь	PASSENGER DOOR REQUEST SW	112	Я	RAIN SENSOR SERIAL LINK				
H	W ROOM ANT2+	101	Μ	DRIVER DOOR REQUEST SW	113	0	OPTICAL SENSOR				
H	Y PASSENGER DOOR ANT-	102	٨	BLOWER FAN MOTOR RELAY CONT	116	GR	FUSE CHECK				
H	LG PASSENGER DOOR ANT+	103	7	KEYLESS ENTRY RECEIVER POWER SUPPLY	118	٦	STOP LAMP SW				
H	V DRIVER DOOR ANT-	106	٨	S/L POWER SUPPLY	119	W	DR DOOR UNLOCK SENSOR				
H	P DRIVER DOOR ANT+	107	0	COMBI SW INPUT 1	121	Υ	KEY SLOT SW				
H	R ROOM ANT1-	108	Ь	COMBI SW INPUT 4	122	В	ACC F/B				
H	G ROOM ANT1+	109	SB	COMBI SW INPUT 2	123	g	IGN F/B				
H	SB IMMOBI ANTENNA CONTROL	110	9	HAZARD SW	124	В	PASSENGER DOOR SW				
H	O IMMOBI ANTENNA SIGNAL	111	57	S/L COMM	130	BR	REAR DEFOGGER SW				
H	BR IGN RELAY (F/B) CONT				132	9	POWER WINDOW SW COMM				

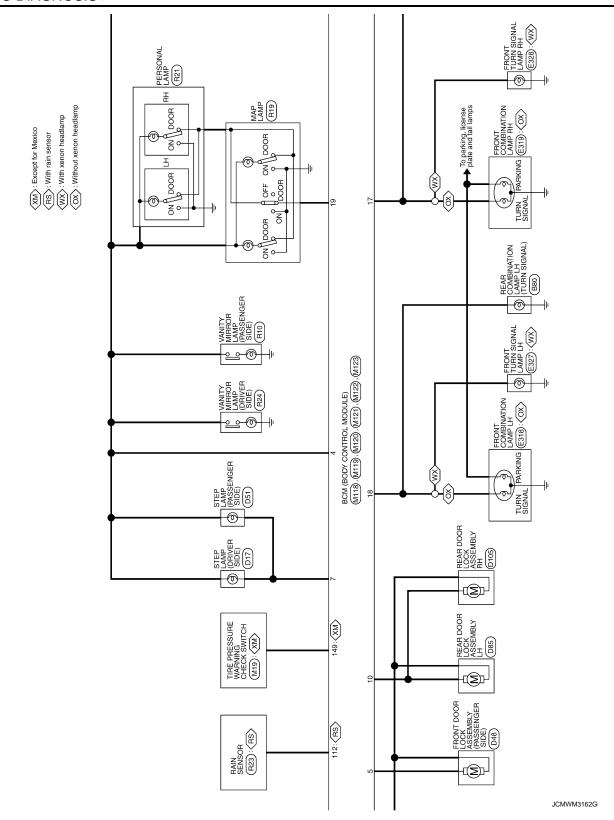
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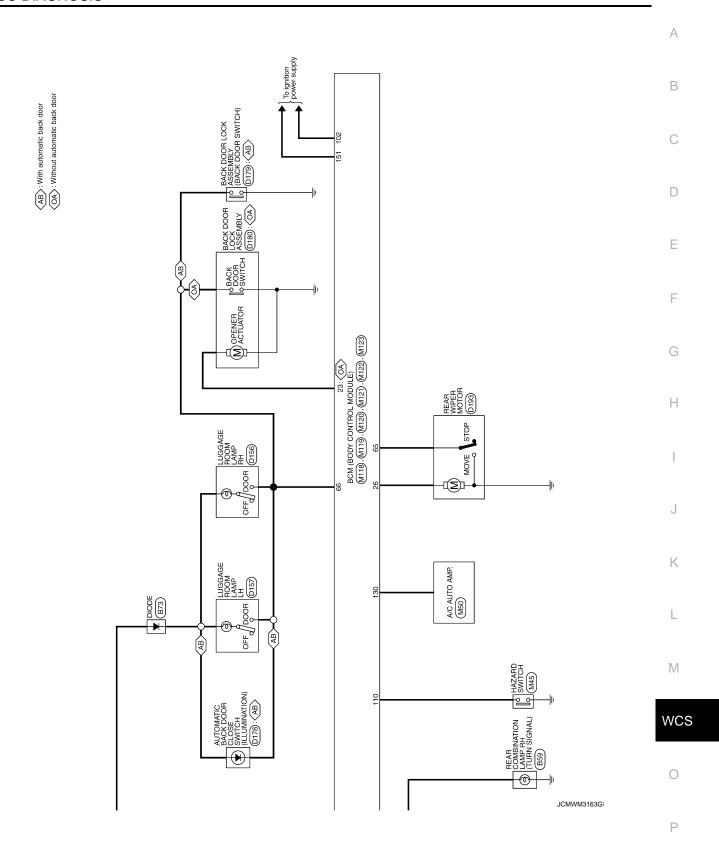
FROM VIN: JN8AZ18U*9W100001, JN8AZ18W*9W200001 (EXCEPT FOR MEXICO),











DY CONTROL MODULE) (18 BR TURN SIGNAL LH 19 Y ROOM LAMP TIMER CONTROL
Connector Type TH16FW-NH	Connector Type MOSTB-LC	Connector Type NIS16PW-CS 1.S 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	
Terminal Color Signal Name [Specification] 2	Terminal Color	Terminal Color Signal Name [Specification] Odolv	
Oomector No. M120 Connector Name BCM (BODY CONTROL MODULE) Connector Type NS12FW-CS MA. 20 21	Connector No. M121 Connector Name BCM (BODY CONTROL MODULE) Connector Type TH40FCV-NH H.S. Froelest Fleet H 102 H 102 BB F 102 B	68 W REAR RH DOOR SW 69 R REAR LH DOOR SW	
Terminal Color Signal Name (Specification) No. of Wire Signal Name (Specification) 23 BR BACK DOOR OPER OUTPUT 26 G REAR WIPER OUTPUT	Terminal Color Signal Name [Specification] No. of Wire LUGGAGE ROOM ANT1- Signal Name [Specification] Signal Name [Specification] Signal Name Specification] Signal Name Signal		

JCMWM3164G

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INFOID:0000000003470029

Fail-safe

FAIL-SAFE CONTROL BY DTC

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

< ECU DIAGNOSIS >

Display contents of CONSULT	Fail-safe	Cancellation
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals are received from ABS actuator and electric unit (control unit) for 500 ms
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent • Starter control relay signal • Starter relay status signal
B2601: SHIFT POSITION	Inhibit steering lock	 500 ms after the following signal reception status becomes consistent Selector lever P position switch signal P range signal (CAN)
B2602: SHIFT POSITION	Inhibit steering lock	 5 seconds after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Vehicle speed: 4 km/h (2.5 MPH) or more
B2603: SHIFT POSI STATUS	Inhibit steering lock	 500 ms after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Selector lever P/N position signal: Except P and N positions (0 V)
B2604: PNP SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled • Status 1 - Ignition switch is in the ON position - Selector lever P/N position signal: P and N position (battery voltage) - P range signal or N range signal (CAN): ON • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: Except P and N positions (0 V) - P range signal and N range signal (CAN): OFF
B2605: PNP SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled • Ignition switch is in the ON position - Power position: IGN - Selector lever P/N position signal: Except P and N positions (0 V) - Interlock/PNP switch signal (CAN): OFF • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: P or N position (battery voltage) - PNP switch signal (CAN): ON
B2606: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal)

< ECU DIAGNOSIS >

Display contents of CONSULT	Fail-safe	Cancellation
B2607: S/L RELAY	Inhibit engine cranking	 500 ms after the following CAN signal communication status becomes consistent Steering lock relay signal (Request signal) Steering lock relay signal (Condition signal)
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent • Starter motor relay control signal • Starter relay status signal (CAN)
B2609: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When the following steering lock conditions agree 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 • 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 • Power position changes to ACC • Receives engine status signal (CAN)
B2612: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When any of the following conditions are fulfilled 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: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
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	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 • Steering condition No. 1 signal: LOCK (0V) • Steering condition No. 2 signal: LOCK (Battery voltage)

HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status by the current value.

BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

NOTE:

The blinking speed is normal while activating the hazard warning lamp.

FAIL-SAFE CONTROL BY RAIN SENSOR MALFUNCTION

- BCM judges the rain sensor serial link error by the rain sensor serial link condition and detects the rain sensor malfunction by rain sensor malfunction signal.
- When BCM detects the rain sensor serial link error or the rain sensor malfunction while front wiper AUTO operation, BCM operates a fail-safe control.

NOTE:

If rain sensor malfunction is detected when ignition switch is turned OFF \Rightarrow ON and front wiper switch is INT/AUTO position, BCM operates a fail-safe control.

REAR WIPER MOTOR PROTECTION

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

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

Condition of cancellation

1. More than 1 minute is passed after the rear wiper stop.

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< ECU DIAGNOSIS >

- 2. Turn rear wiper switch OFF.
- 3. Operate the rear wiper switch or rear washer switch.

DTC Inspection Priority Chart

INFOID:0000000003470030

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	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)
3	 B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING
4	 B2013: ID DISCORD BCM-S/L B2014: CHAIN OF S/L-BCM B2553: IGNITION RELAY B2555: STOP LAMP B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSITION B2604: PNP SW B2605: PNP SW B2606: S/L RELAY B2606: S/L RELAY B2609: S/L STATUS B2609: S/L STATUS B2609: S/L STATUS B2600: STEERING LOCK UNIT B2600: STEERING LOCK UNIT B2600: ENG STATE SIG LOST B2612: S/L STATUS B2614: ACC RELAY CIRC B2616: IGN RELAY CIRC B2616: BLOWER RELAY CIRC B2616: BCM RELAY CIRC B2619: BCM B2619: BCM B2619: BCM B2612: VHCLE TYPE B2662: S/L STATUS B2663: KEY REGISTRATION C 1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG

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Priority	DTC	
	C1704: LOW PRESSURE FL	
	C1705: LOW PRESSURE FR	
	C1706: LOW PRESSURE RR	
	C1707: LOW PRESSURE RL	
	C1708: [NO DATA] FL	
	C1709: [NO DATA] FR	
	C1710: [NO DATA] RR	
	C1711: [NO DATA] RL	
	C1712: [CHECKSUM ERR] FL	
	C1713: [CHECKSUM ERR] FR	
	C1714: [CHECKSUM ERR] RR	
	C1715: [CHECKSUM ERR] RL	
5	C1716: [PRESSDATA ERR] FL	
	C1717: [PRESSDATA ERR] FR	
	C1718: [PRESSDATA ERR] RR	
	C1719: [PRESSDATA ERR] RL	
	C1720: [CODE ERR] FL	
	C1721: [CODE ERR] FR	
	C1722: [CODE ERR] RR	
	C1723: [CODE ERR] RL	
	C1724: [BATT VOLT LOW] FL	
	C1725: [BATT VOLT LOW] FR	
	C1726: [BATT VOLT LOW] RR	
	C1727: [BATT VOLT LOW] RL	
	C1734: CONTROL UNIT	
	B2621: INSIDE ANTENNA	
6	B2622: INSIDE ANTENNA	
	B2623: INSIDE ANTENNA	

DTC Index

NOTE:

The details of time display are as follows.

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

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to BCS-17, "COM-MON ITEM: CONSULT-III Function (BCM - COMMON ITEM)".

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CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	_	BCS-40
U1010: CONTROL UNIT (CAN)	_	_	_	_	BCS-41
U0415: VEHICLE SPEED SIG	_	_	_	_	BCS-42
B2013: ID DISCORD BCM-S/L	×	×	_	_	SEC-55
B2014: CHAIN OF S/L-BCM	×	×	_	_	SEC-56
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-47
B2191: DIFFERENCE OF KEY	×	_	_	_	SEC-50
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-51
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-53
B2195: ANTI SCANNING	×	_	_	_	<u>SEC-54</u>
B2553: IGNITION RELAY	_	×	_	_	PCS-49

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CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2555: STOP LAMP	_	×	_	_	SEC-59
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-61
B2557: VEHICLE SPEED	×	×	×	_	SEC-63
B2560: STARTER CONT RELAY	×	×	×	_	<u>SEC-64</u>
B2562: LOW VOLTAGE	_	×	_	_	BCS-43
B2601: SHIFT POSITION	×	×	×	_	SEC-65
B2602: SHIFT POSITION	×	×	×	_	SEC-68
B2603: SHIFT POSI STATUS	×	×	×	_	SEC-70
B2604: PNP SW	×	×	×	_	SEC-73
B2605: PNP SW	×	×	×	_	SEC-75
B2606: S/L RELAY	×	×	×	_	SEC-77
B2607: S/L RELAY	×	×	×	_	SEC-78
B2608: STARTER RELAY	×	×	×	_	SEC-80
B2609: S/L STATUS	×	×	×	_	SEC-82
B260A: IGNITION RELAY	×	×	×	_	PCS-51
B260B: STEERING LOCK UNIT	_	×	×	_	SEC-86
B260C: STEERING LOCK UNIT	_	×	×	_	SEC-87
B260D: STEERING LOCK UNIT	_	×	×	_	SEC-88
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-89
B2612: S/L STATUS	×	×	×	_	SEC-92
B2614: ACC RELAY CIRC	_	×	×	_	PCS-53
B2615: BLOWER RELAY CIRC	_	×	×	_	PCS-56
B2616: IGN RELAY CIRC	_	×	×	_	PCS-59
B2617: STARTER RELAY CIRC	×	×	×	_	SEC-96
B2618: BCM	×	×	×	_	PCS-62
B2619: BCM	×	×	×	_	SEC-98
B261A: PUSH-BTN IGN SW	_	×	×	_	SEC-99
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	SEC-102
B2621: INSIDE ANTENNA	_	×	_	_	DLK-95
B2622: INSIDE ANTENNA	_	×	_	_	DLK-97
B2623: INSIDE ANTENNA	_	×	_	_	DLK-99
B26E9: S/L STATUS	×	×	× (Turn ON for 15 seconds)	_	SEC-90
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	SEC-91
C1704: LOW PRESSURE FL	_	_	_	×	
C1705: LOW PRESSURE FR	_	_	_	×	M/T 40
C1706: LOW PRESSURE RR	_	_	_	×	<u>WT-16</u>
C1707: LOW PRESSURE RL	_	_	_	×	

< ECU DIAGNOSIS >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1708: [NO DATA] FL	_	_	_	×	
C1709: [NO DATA] FR	_	_	_	×	W/T 40
C1710: [NO DATA] RR	_	_	_	×	<u>WT-18</u>
C1711: [NO DATA] RL	_	_	_	×	
C1712: [CHECKSUM ERR] FL	_	_	_	×	
C1713: [CHECKSUM ERR] FR	_	_	_	×	W/T O4
C1714: [CHECKSUM ERR] RR	_	_	_	×	<u>WT-21</u>
C1715: [CHECKSUM ERR] RL	_	_	_	×	-
C1716: [PRESSDATA ERR] FL	_	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	_	×	M/T O 4
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u>WT-24</u>
C1719: [PRESSDATA ERR] RL	_	_	_	×	-
C1720: [CODE ERR] FL	_	_	_	×	
C1721: [CODE ERR] FR	_	_	_	×	M/T 00
C1722: [CODE ERR] RR	_	_	_	×	<u>WT-26</u>
C1723: [CODE ERR] RL	_	_	_	×	
C1724: [BATT VOLT LOW] FL	_	_	_	×	
C1725: [BATT VOLT LOW] FR	_	_	_	×	W/T 00
C1726: [BATT VOLT LOW] RR	_	_	_	×	<u>WT-29</u>
C1727: [BATT VOLT LOW] RL	_	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	_	×	<u>WT-32</u>
C1734: CONTROL UNIT	_	<u> </u>	_	×	WT-33

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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:0000000003452061

- 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:0000000003452062

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 <u>MWI-54, "Diagnosis Procedure"</u>. Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK PARKING BRAKE SWITCH

Perform a unit check for the parking brake switch. Refer to BRC-80, "Component Inspection".

Is the inspection result normal?

YES >> Replace the combination meter.

NO >> Replace the parking brake switch. Refer to PB-6, "Removal and Installation".

THE LIGHT REMINDER WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >	
THE LIGHT REMINDER WARNING DOES NOT SOUND	^
Description INFOID:0000000003452063	А
Light reminder warning chime does not sound even though headlamp is illuminated.	В
Diagnosis Procedure	
1. CHECK COMBINATION SWITCH (LIGHT SWITCH) OPERATION	С
Check that the headlamps operate normally by operating the combination switch (light switch).	
Do they operate normally? YES >> GO TO 2.	D
NO >> Refer to EXL-162, "Diagnosis Procedure".	
2.CHECK FRONT DOOR SWITCH (DRIVER SIDE) SIGNAL CIRCUIT	Е
Perform the check for the front door switch (driver side) signal circuit. Refer to <u>DLK-103</u> , "WITH AUTOMATIC <u>BACK DOOR</u> : <u>Diagnosis Procedure"</u> .	
Is the inspection result normal?	F
YES >> GO TO 3. NO >> Repair harness or connector.	
3.CHECK FRONT DOOR SWITCH (DRIVER SIDE)	G
Perform a unit check for the front door switch (driver side). Refer to <u>DLK-105</u> , "WITH AUTOMATIC BACK	
DOOR : Component Inspection".	Н
<u>Is the inspection result normal?</u> YES >> Replace the BCM. Refer to <u>BCS-96, "Removal and Installation"</u> .	
NO >> Replace the Bolin Refer to <u>Boo Set</u> , <u>Removal and Installation</u> .	1
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THE SEAT BELT WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE SEAT BELT WARNING CONTINUES SOUNDING, OR DOES NOT SOUND

Description INFOID:000000003465637

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

Diagnosis Procedure

INFOID:0000000003465638

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-20, "BUZZER: CONSULT-III 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 <u>WCS-15</u>, <u>"CONSULT-III Function (METER/M&A)"</u>.

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-96, "Removal and Installation".

4. CHECK SEAT BELT BUCKLE SWITCH CIRCUIT

Perform the check for the seat belt buckle switch circuit. Refer to WCS-25, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair harness or connector.

CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

Perform a unit check for the seat belt buckle switch (driver side). Refer to <u>WCS-26, "Component Inspection"</u>. <u>Is the inspection result normal?</u>

YES >> Replace the combination meter.

NO >> Replace the seat belt buckle.Refer to <u>SB-7</u>, "SEAT BELT BUCKLE: Removal and Installation".

THE KEY WARNING DOES NOT SOUND

< SYMPTOM DIAGNOSIS >

THE KEY WARNING DOES NOT SOUND Α Description INFOID:0000000003515168 The is key warning chime does not sound under the following conditions. В · Key inserted into the key slot. (Key slot switch ON) Ignition switch is not in ON or START. (Ignition switch signal OFF) • Front door switch (driver side) is open. [Door switch signal (driver side) ON] Diagnosis Procedure INFOID:0000000003515169 1. CHECK BCM INPUT SIGNAL D Connect CONSULT-III. Select the "Data Monitor" of "BCM (BUZZER)" and check the "KEY SW-SLOT" monitor value. Refer to WCS-49, "Reference Value". Е Is the inspection result normal? YES >> Replace BCM. Refer to BCS-96, "Removal and Installation". NO >> GO TO 2. F 2.CHECK KEY SLOT SWITCH SIGNAL CIRCUIT Check the key slot switch signal circuit. Refer to DLK-423, "Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 3. NO >> Check applicable parts, and repair or replace corresponding parts. Н 3.CHECK DOOR SWITCH SIGNAL (DRIVER SIDE) CIRCUIT Check the door switch signal (driver side) circuit. Refer to DLK-103, "WITH AUTOMATIC BACK DOOR: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 4. NO >> Repair harness or connector. 4. CHECK FRONT DOOR SWITCH (DRIVER SIDE) Check the front door switch (driver side). Refer to DLK-105, "WITH AUTOMATIC BACK DOOR: Component Inspection". Is the inspection result normal? YES >> Replace BCM. Refer to BCS-96, "Removal and Installation". NO >> Replace front door switch (driver side). Refer to <u>DLK-368, "Exploded View"</u>. M

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PRECAUTIONS

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PRECAUTION

PRECAUTIONS

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

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. Information necessary to service the system safely is included in the "SRS AIRBAG" and "SEAT BELT" of this Service Manual.

WARNING:

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

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

When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors while ignition switch is ON or engine is running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration may activate the sensor(s), deploy the airbag(s), possibly cause serious injury.

When using air or electric power tools or hammers, always turn OFF ignition switch, disconnect the battery, and wait 3 minutes or more before performing any service.