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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

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>> GO TO 4.

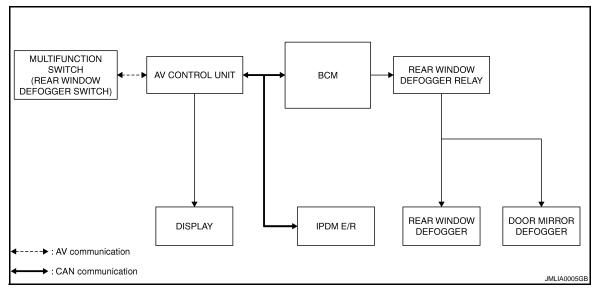
BASIC INSPECTION Α DIAGNOSIS AND REPAIR WORKFLOW Work Flow INFOID:0000000003303571 **DETAILED FLOW** 1. OBTAIN INFORMATION ABOUT SYMPTOM Interview the customer to obtain the malfunction information (conditions and environment when the malfunction occurred) as much as possible when the customer brings the vehicle in. D >> GO TO 2. 2. CHECK DTC Е Perform self diagnosis with CONSULT-III Is any DTC detected? F YES >> Refer to DEF-69, "DTC Index" NO >> GO TO 3. $3.\mathsf{REPRODUCE}$ THE MALFUNCTION INFORMATION Check the malfunction on the vehicle that the customer describes. Inspect the relation of the symptoms and the condition when the symptoms occur. Н >> GO TO 4. f 4. IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS" Use "Symptom diagnosis" from the symptom inspection result in step 3. Then identify where to start performing the diagnosis based on possible causes and symptoms. >> GO TO 5. ${f 5}.$ IDENTIFY MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS" Perform the diagnosis with "Component diagnosis" of the applicable system. >> GO TO 6. DEF 6.REPAIR OR REPLACE THE MALFUNCTIONING PARTS Repair or replace the specified malfunctioning parts. M >> GO TO 7. 7. FINAL CHECK Ν Check that malfunctions are not reproduced when obtaining the malfunction information from the customer, referring to the symptom inspection result in step 3. Are all malfunctions corrected? YES >> INSPECTION END

FUNCTION DIAGNOSIS

REAR WINDOW DEFOGGER SYSTEM WITH BOSE SYSTEM

WITH BOSE SYSTEM: System Diagram

INFOID:0000000003303572



WITH BOSE SYSTEM: System Description

INFOID:0000000003303573

Operation Description

- Turn rear window defogger switch ON when the ignition switch is turned ON. Then multifunction switch (rear window defogger switch) transmits rear window defogger switch signal to AV control unit via AV communication. AV control unit transmits rear window defogger switch signal to BCM via CAN communication.
- BCM turns rear window defogger relay ON and transmits rear window defogger control signal to IPDM E/R via CAN communication when rear window defogger switch signal is received.
- Rear window defogger and door mirror defogger (with door mirror defogger) are supplied with power and operate when rear window defogger relay turns ON.
- IPDM E/R transmits rear window defogger control signal to AV control unit via CAN communication.
- AV control unit transmit rear defogger indicator signal to multifunction switch (rear window defogger switch) via AV communication, then rear window defogger indicator is illuminated.

Timer function

- BCM turns rear window defogger relay ON for approximately 15 minutes when rear window defogger switch
 is turned ON. It makes rear window defogger and door mirror defogger (with door mirror defogger) operate.
- Timer is canceled after pressing rear window defogger switch again during timer operation. Then BCM turns
 rear window defogger relay OFF. The same reaction also occurs during timer operation, if the ignition switch
 is turned OFF.

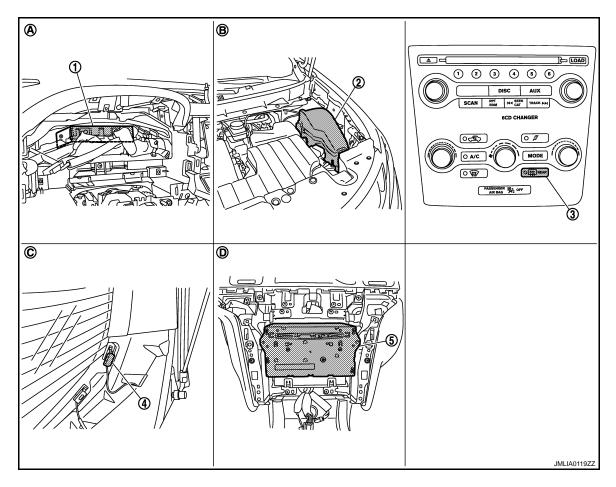
INPUT/OUTPUT SIGNAL CHART

Switch	Input signal to BCM	BCM function	Actuator
Rear window defogger switch	Defogger switch signal	Rear window defogger & Door mir-	Rear window defogger
Push button ignition switch	Ignition signal	ror defogger [*] control	Door mirror defogger *

^{*:} With door mirror defogger

WITH BOSE SYSTEM: Component Parts Location

INFOID:0000000003303574



- I. BCM M118, M119, M122, M123
- Rear window defogger connector D184
- A. Dash side lower (passenger side)
- D. Behind cluster lid C

- 2. IPDM E/R E6, E11
- AV control unit
 With NAVI M145, M146
 Without NAVI M129, M131
- B. Engine room dash panel (LH)
- Rear window defogger switch (built-in multifunction switch M125)
- C. Behind rear pillar finisher (LH)

WITH BOSE SYSTEM: Component Description

INFOID:0000000003303575

ВСМ	 Operates the rear window defogger with the operation of rear window defogger switch. Performs the timer control of rear window defogger.
Rear window defogger relay	Operates the rear window defogger and the door mirror defogger with the control signal from BCM.
IPDM E/R	Transmit rear window defogger control signal to AV control unit via CAN communication.
Multifunction switch (Rear window defogger switch)	The rear window defogger switch is installed. Turns the indicator lamp ON when detecting the operation of rear window defogger.
AV control unit	Displays the rear window defogger ON to the display when detecting the operation of rear window defogger.
Rear window defogger	Heats the heating wire with the power supply from the rear window defogger relay to prevent the rear window from fogging up.
Door mirror defogger*	Heats the heating wire with the power supply from the rear window defogger relay to prevent the door mirror from fogging up.

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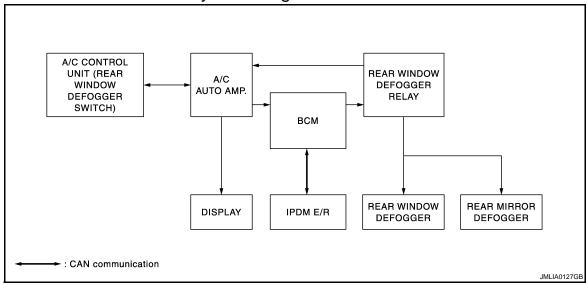
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WITHOUT BOSE SYSTEM

WITHOUT BOSE SYSTEM: System Diagram

INFOID:0000000003544817



WITHOUT BOSE SYSTEM: System Description

INFOID:0000000003544818

Operation Description

- Turn rear window defogger switch ON when the ignition switch is turned ON. Then A/C control unit (rear window defogger switch) transmits rear window defogger switch signal to A/C auto amp.. transmits rear window defogger switch signal to BCM.
- BCM turns rear window defogger relay ON and transmits rear window defogger control signal to IPDM E/R via CAN communication when rear window defogger switch signal is received.
- Rear window defogger and door mirror defogger (with door mirror defogger) are supplied with power and operate when rear window defogger relay turns ON.
- Rear window defogger relay transmits rear window defogger control signal to A/C auto amp. when rear window defogger operates.
- A/C auto amp. transmit rear window defogger indicator signal to A/C control unit (rear window defogger switch). Then rear window defogger indicator is illuminated.

Timer function

- BCM turns rear window defogger relay ON for approximately 15 minutes when rear window defogger switch is turned ON. It makes rear window defogger and door mirror defogger (with door mirror defogger) operate.
- Timer is canceled after pressing rear window defogger switch again during timer operation. Then BCM turns
 rear window defogger relay OFF. The same reaction also occurs during timer operation, if the ignition switch
 is turned OFF.

INPUT/OUTPUT SIGNAL CHART

Switch	Input signal to BCM	BCM function	Actuator
Rear window defogger switch	Defogger switch signal	Rear window defogger & Door mir-	Rear window defogger
Push button ignition switch	Ignition signal	ror defogger* control	Door mirror defogger *

^{*:} With door mirror defogger

^{*:} With mirror defogger

WITHOUT BOSE SYSTEM: Component Parts Location

INFOID:0000000003544819

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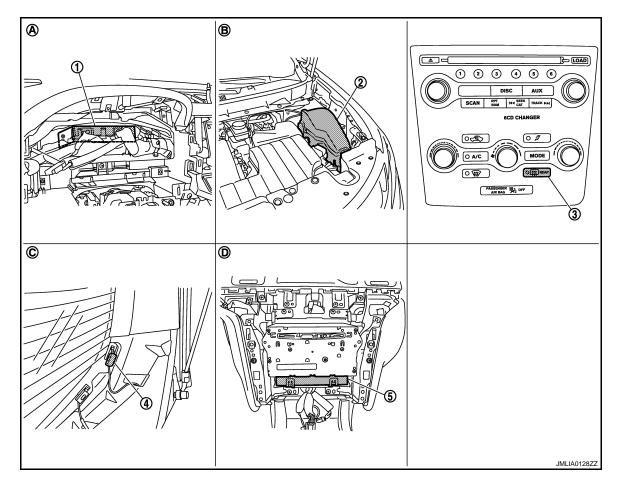
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- 1. BCM M118, M119, M122, M123
- 4. Rear window defogger connector
- A. Dash side lower (passenger side)
- D. Behind cluster lid C

- 2. IPDM E/R E6, E11
- 5. A/C auto amp. M50
- B. Engine room dash panel (LH)
- Rear window defogger switch (built-in A/C control unit M95)
- C. Behind rear pillar finisher (LH)

WITHOUT BOSE SYSTEM: Component Description

INFOID:0000000003544820

ВСМ	 Operates the rear window defogger with the operation of rear window defogger switch. Performs the timer control of rear window defogger.
Rear window defogger relay	Operates the rear window defogger and the door mirror defogger with the control signal from BCM.
IPDM E/R	Transmit rear window defogger control signal to ECM via CAN communication.
A/C control unit (Rear window defogger switch)	The rear window defogger switch is installed. Turns the indicator lamp ON when detecting the operation of rear window defogger.
A/C auto amp.	Displays the rear window defogger ON to the display when detecting the operation of rear window defogger.
Rear window defogger	Heats the heating wire with the power supply from the rear window defogger relay to prevent the rear window from fogging up.
Door mirror defogger*	Heats the heating wire with the power supply from the rear window defogger relay to prevent the door mirror from fogging up.

*: With door mirror defogger

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DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:0000000003303576

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	This function is not used even though it is displayed.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

x: Applicable item

System Sub system	Sub system selection item	Diagnosis mode		
	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	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
_	AIR CONDITONER*		×	
Intelligent Key system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
IVIS - NATS	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Trunk open	TRUNK		×	
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	TPMS (AIR PRESSURE MONITOR)	×	×	×

^{*:} This item is displayed, but is not used.

FREEZE FRAME DATA (FFD) AND IGN COUNTER

Freeze Frame Data

The BCM records the following condition at the moment a particular DTC is detected.

- Vehicle Speed
- Odo/Trip Meter

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DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

• Vehicle Condition (BCM detected condition)

CONSULT screen terms	Description		
SLEEP>LOCK	While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK")		
SLEEP>OFF	While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)		
LOCK>ACC	While turning power supply position from "LOCK" to "ACC"		
ACC>ON	While turning power supply position from "ACC" to "IGN"		
RUN>ACC	While turning power supply position from "RUN" to "ACC" (Vehicle is stopping and selector lever is except P position.)		
CRANK>RUN	While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)		
RUN>URGENT	While turning power supply position from "RUN" to "ACC" (Emergency stop operation)		
ACC>OFF	While turning power supply position from "ACC" to "OFF"		
OFF>LOCK	While turning power supply position from "OFF" to "LOCK"		
OFF>ACC	While turning power supply position from "OFF" to "ACC"		
ON>CRANK	While turning power supply position from "IGN" to "CRANKING"		
OFF>SLEEP	While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode		
LOCK>SLEEP	While turning BCM status from normal mode (Power supply position is "LOCK".) to low power consumption mode		
LOCK	Power supply position is "LOCK" (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 indicates 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 $1 \rightarrow 2 \rightarrow 3...38 \rightarrow 39$ after returning to the normal condition whenever ignition switch OFF \rightarrow ON.
- The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.

REAR WINDOW DEFOGGER

REAR WINDOW DEFOGGER: CONSULT-III Function (BCM - REAR DEFOGGER)

INFOID:0000000003303577

Data monitor

Monitor Item	Description
REAR DEF SW	This is displayed even when it is not equipped.
PUSH SW	Indicates [ON/OFF] condition of push switch.

ACTIVE TEST

Test Item	Description
REAR DEFOGGER	This test is able to check rear window defogger operation. Rear window defogger operates when "ON" on CONSULT-III screen is touched.

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POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000003303578

1. CHECK FUSE AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuse and fusible link No.
1	Pottory power cupply	L
11	Battery power supply	10

Is the fuse blown?

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.

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

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM			Continuity	
Connector	Terminal	Ground	Continuity	
M119	13		Existed	

Does continuity exist?

YES >> INSPECTION END

NO >> Repair or replace harness or connector.

REAR WINDOW DEFOGGER SWITCH

< COMPONENT DIAGNOSIS >

REAR WINDOW DEFOGGER SWITCH Α Description INFOID:0000000003303579 The rear window defogger is operated by turning the rear window defogger switch ON. The indicator lamp in the rear window defogger illuminates when the rear window defogger is operating. Component Function Check INFOID:0000000003303580 1. CHECK REAR WINDOW DEFOGGER SWITCH FUNCTION Check that the indicator lamp of rear window defogger illuminates when rear window defogger switch ON. D Is the inspection result normal? YES >> Rear window defogger switch function is OK. >> Refer to DEF-11, "Diagnosis Procedure" NO Е Diagnosis Procedure INFOID:0000000003303581 WITH BOSE AUDIO SYSTEM 1. CHECK MULTIFUNCTION SWITCH (REAR WINDOW DEFOGGER SWITCH) Does multifunction switch operate normally? Without navigation system. Refer to <u>AV-70, "Diagnosis Description"</u> With navigation system. Refer to AV-575, "Diagnosis Description" Is the inspection result normal? Н YES >> INSPECTION END NO >> Replace multifunction switch (rear window defogger switch). Refer to AV-773, "Removal and Installation" WITHOUT BOSE AUDIO SYSTEM 1. CHECK A/C CONTROL UNIT (REAR WINDOW DEFOGGER SWITCH) Does A/C control unit operate normally? Without navigation system. Refer to <u>AV-14, "Diagnosis Description"</u> Is the inspection result normal? K YES >> INSPECTION END >> Replace A/C control unit (rear window defogger switch). Refer to VTL-21, "Removal and Installa-NO tion" DEF Ν

DEF-11 Revision: 2008 October 2009 Murano

REAR WINDOW DEFOGGER RELAY

< COMPONENT DIAGNOSIS >

REAR WINDOW DEFOGGER RELAY

Description

Power is supplied to the rear window defogger with BCM control.

Component Function Check

INFOID:0000000003303583

1. CHECK REAR WINDOW DEFOGGER RELAY POWER SUPPLY CIRCUIT

- Perform Active Test ("REAR DEFOGGER") with CONSULT-III.
- Touch "ON".
- 3. Check that the rear window heating wire is getting warmer.

Is the inspection result normal?

YES >> Rear window defogger relay power supply circuit is OK.

NO >> Refer to <u>DEF-12</u>, "<u>Diagnosis Procedure</u>"

Diagnosis Procedure

INFOID:0000000003303584

1. CHECK FUSE

- 1. Turn ignition switch OFF.
- 2. Check 10A fuse (No.3, located in fuse block (J/B).

-

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

2.CHECK REAR WINDOW DEFOGGER RELAY CIRCUIT

- 1. Turn ignition switch ON.
- Check voltage between BCM harness connector and ground.

(+) BCM	Л	(-)	Condition of rear window defog- ger switch	Voltage (V) (Approx.)	
Connector	Terminal	ger switch		(·	
M123	151	Ground	ON	0	
IVI 123	151	Ground	OFF	Battery voltage	

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 3.

3.CHECK FUSE BLOCK (J/B)

Check voltage between fuse block (J/B) connector and ground.

Fuse block	k (J/B)		Voltage (V)
Connector	Terminal	Ground	(Approx.)
M2	4B		Battery voltage

Is the inspection result normal?

YES >> Repair or replace harness or connector between BCM and fuse block (J/B).

NO >> GO TO 4.

f 4.CHECK REAR WINDOW DEFOGGER RELAY

Check rear window defogger relay.

Refer to DEF-13, "Component Inspection"

Is the inspection result normal?

YES >> Replace fuse block (J/B).

NO >> Replace rear window defogger relay.

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REAR WINDOW DEFOGGER RELAY

< COMPONENT DIAGNOSIS >

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-40, "Intermittent Incident"

>> INSPECTION END

Component Inspection

INFOID:0000000003303585

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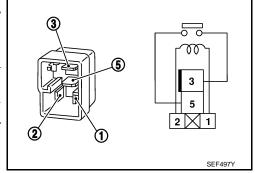
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1. CHECK REAR WINDOW DEFOGGER RELAY

- 1. Turn ignition switch OFF.
- 2. Disconnect rear window defogger relay.
- 3. Check rear window defogger relay.

Terr	minal		
	window Jer relay	Condition	Continuity
3	5	12 V direct current supply between terminals 1 and 2.	Existed
		No current supply	Not existed



Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace rear window defogger relay.

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REAR WINDOW DEFOGGER

< COMPONENT DIAGNOSIS >

REAR WINDOW DEFOGGER

Description

Heats the heating wire with the power supply from the rear window defogger relay to prevent the rear window from fogging up.

Component Function Check

INFOID:0000000003303587

1. CHECK REAR WINDOW DEFOGGER

- 1. Perform Active Test ("REAR DEFOGGER") with CONSULT-III.
- Touch "ON".
- 3. Check that the rear window heating wire is getting warmer.

Is the inspection result normal?

YES >> Rear window defogger is OK.

NO >> Refer to <u>DEF-14</u>, "<u>Diagnosis Procedure</u>"

Diagnosis Procedure

INFOID:0000000003303588

1. CHECK FUSE

- 1. Turn ignition switch OFF.
- 2. Check the following.
- 20A fuse (No.14, located in fuse block (J/B)
- 20A fuse (No.15, located in fuse block (J/B)

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

2. CHECK POWER SUPPLY CIRCUIT

- 1. Disconnect rear window defogger harness connector.
- 2. Turn ignition switch ON.
- Check voltage between rear window defogger connector and ground.

(+)			0 11:1	
Rear window de	efogger	(-)	Condition of rear window defogger switch	Voltage (V) (Approx.)
Connector	Terminal		gg	(
D184	1	Ground	ON	Battery voltage
D104	1	Giodila	OFF	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 4.

3. CHECK GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Check continuity between rear window defogger harness connector and ground.

Rear window defo	gger		Continuity
Connector	Terminal	Ground	Continuity
D185	2		Existed

Is the inspection result normal?

YES >> GO TO 9.

NO >> Repair or replace harness or connector between rear window defogger and ground.

4. CHECK REAR WINDOW DEFOGGER CIRCUIT 1

REAR WINDOW DEFOGGER

< COMPONENT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 2. Disconnect condenser connector.
- 3. Check continuity between condenser harness connector and rear window defogger harness connector.

Condenser		Rear window defogger		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B75	2	B184	1	Existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness or connector.

${f 5}$.CHECK REAR WINDOW DEFOGGER CIRCUIT 2

1. Check continuity between fuse block (J/B) harness connector and condenser harness connector.

Fuse block (J/B)		Condenser		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B6	10G	B74	1	Existed
ВО	11G	D/4	ı	Existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness or connector between fuse block (J/B) and condenser.

6.CHECK FUSE BLOCK (J/B)

Turn ignition switch ON.

2. Check voltage between fuse block (J/B) connector (fuse block side) and ground.

(+)	(+)		0 1111	Voltage (V) (Approx.)
Fuse block (J/B)		(-)	Condition of rear window defogger switch	
Connector	Terminal		deregger emion	
	10G		ON	Battery voltage
B6	100	Ground	OFF	0
ВО	11G	Giodila	ON	Battery voltage
	116		OFF	0

Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 8.

7. CHECK CONDENSER

Check condenser. Refer to DEF-16, "Component Inspection"

Is the inspection result normal?

YES >> GO TO 10.

NO >> Replace condenser.

8. CHECK REAR WINDOW DEFOGGER RELAY

Check rear window defogger relay. Refer to DEF-13, "Component Inspection"

Is the inspection result normal?

YES >> Replace fuse block (J/B).

NO >> Replace rear window defogger relay.

9. CHECK FILAMENT

Check the filament for damage or blown.

Refer to DEF-79, "Inspection and Repair"

Is the inspection result normal?

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REAR WINDOW DEFOGGER

< COMPONENT DIAGNOSIS >

YES >> GO TO 10.

NO >> Repair filament.

10. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-40, "Intermittent Incident"

>> INSPECTION END

Component Inspection

INFOID:0000000003303589

1. CHECK CONDENSER

1. Check continuity between condenser connector and ground part of condenser.

Conc	lensor		Continuity
Connector	Terminal	Ground part of	Continuity
B74	1	condenser	Not existed
B75	2		INOL EXISTED

2. Check condenser.

	Condensor				
Connector	Terminal	Connector	Terminal	Continuity	
B74	1	B75	2	Existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair condenser.

DOOR MIRROR DEFOGGER

< COMPONENT DIAGNOSIS >

DOOR MIRROR DEFOGGER

Description

Power is supplied to the door mirror defogger with BCM control.

Component Function Check

1. CHECK DOOR MIRROR DEFOGGER

- 1. Perform Active Test ("REAR DEFOGGER") with CONSULT-III.
- Touch "ON".
- 3. Check that both side door mirror glass is getting warmer.

Is the inspection result normal?

YES >> Door mirror defogger is OK.

NO >> Refer to DEF-17, "Diagnosis Procedure"

Diagnosis Procedure

1. CHECK FUSE

1. Turn ignition switch OFF.

2. Check 10A fuse (No.13, located in fuse block (J/B).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

2.CHECK FUSE BLOCK (J/B)

1. Turn ignition switch ON.

2. Check voltage between fuse block (J/B) connector (fuse block side) and ground.

	+) ock (J/B)	(-)	Condition of rear win- dow defogger switch	Voltage (V) (Approx.)
Connector	Terminal		den delegger ennen	(FF. 3/1)
M3	10C	Ground	ON	Battery voltage
IVIO	100	Ground	OFF	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace fuse block (J/B).

3.CHECK DOOR MIRROR DEFOGGER CIRCUIT

Check voltage between door mirror defogger (driver side) connector and ground.

	Door mirror defogger (driver side)		Condition of rear win- dow defogger switch	Voltage (V) (Approx.)
Connector	Terminal	Ground	dow delogger switch	
	7		ON	Battery voltage
D3	,		OFF	0

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the harness or connector.

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to GI-40, "Intermittent Incident"

Is the inspection result normal?

>> INSPECTION END

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INFOID:0000000003303591

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DRIVER SIDE DOOR MIRROR DEFOGGER

< COMPONENT DIAGNOSIS >

DRIVER SIDE DOOR MIRROR DEFOGGER

Description

Heats the heating wire with the power supply from the rear window defogger relay to prevent the door mirror from fogging up.

Component Function Check

INFOID:0000000003303594

1. CHECK DRIVER SIDE DOOR MIRROR DEFOGGER

- 1. Perform Active Test ("REAR DEFOGGER") with CONSULT-III.
- 2. Touch "ON".
- 3. Check that the driver side door mirror glass is getting warmer.

Is the inspection result normal?

YES >> Driver side door mirror defogger is OK.

NO >> Refer to <u>DEF-18</u>, "<u>Diagnosis Procedure</u>"

Diagnosis Procedure

INFOID:0000000003303595

1. CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect door mirror (driver side) connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between door mirror (driver side) harness connector and ground.

(+) Door mirror (driver side)		(-)	Condition of rear win- dow defogger switch	Voltage (V) (Approx.)	
Connector	Terminal		30	(11 - 7	
D3	7	Ground	ON	Battery voltage	
D3	/	Ground	OFF	0	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connector between fuse block (J/B) and door mirror (driver side).

2. CHECK GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Check continuity between door mirror (driver side) harness connector and ground.

Door mirror (driver side)		Continuity
Connector	Terminal	Ground	Continuity
D3	19		Existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector between door mirror (driver side) and ground.

3.CHECK DRIVER SIDE DOOR MIRROR DEFOGGER

Check driver side door mirror defogger.

Refer to DEF-19, "Component Inspection"

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace door mirror (driver side). Refer to MIR-63, "DOOR MIRROR ASSEMBLY: Removal and Installation"

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

DRIVER SIDE DOOR MIRROR DEFOGGER

< COMPONENT DIAGNOSIS >

Refer to GI-40, "Intermittent Incident"

Is the inspection result normal?

>> INSPECTION END

Component Inspection

1.CHECK DRIVER SIDE DOOR MIRROR DEFOGGER

- 1. Turn ignition switch OFF.
- 2. Disconnect door mirror (driver side) connector.
- 3. Check continuity between door mirror terminals.

Door mirror (Continuity		
Connector	Terr	minal	Continuity
D3	7	19	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror glass (driver side). Refer to MIR-63, "DOOR MIRROR ASSEMBLY: Removal and Installation"

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PASSENGER SIDE DOOR MIRROR DEFOGGER

< COMPONENT DIAGNOSIS >

PASSENGER SIDE DOOR MIRROR DEFOGGER

Description

Heats the heating wire with the power supply from the rear window defogger relay to prevent the door mirror from fogging up.

Component Function Check

INFOID:0000000003303598

1. CHECK PASSENGER SIDE DOOR MIRROR DEFOGGER

- 1. Perform Active Test ("REAR DEFOGGER") with CONSULT-III.
- 2. Touch "ON".
- 3. Check that the passenger side door mirror glass is getting warmer.

Is the inspection result normal?

YES >> Passenger side door mirror defogger is OK.

NO >> Refer to <u>DEF-20</u>, "<u>Diagnosis Procedure</u>"

Diagnosis Procedure

INFOID:0000000003303599

1. CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect door mirror (passenger side) connector.
- 3. Turn ignition switch ON.
- Check voltage between door mirror (passenger side) harness connector and ground.

(+) Door mirror (Passenger side)		(-)	Condition of rear win- dow defogger switch	Voltage (V) (Approx.)	
Connector	Terminal			(, 44, 2,)	
D43	7	Ground	ON	Battery voltage	
D43	/	Ground	OFF	0	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connector between fuse block (J/B) and door mirror (passenger side).

2. CHECK GROUND CIRCUIT

- Turn ignition switch OFF.
- 2. Check continuity between door mirror (passenger side) harness connector and ground.

Door mirror (passeng		Continuity	
Connector	Terminal	Ground	Continuity
D43	19		Existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector between door mirror (passenger side) and ground.

3.check passenger side door mirror defogger

Check passenger side door mirror defogger.

Refer to DEF-21, "Component Inspection"

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace door mirror (passenger side).Refer to MIR-63, "DOOR MIRROR ASSEMBLY: Removal and Installation"

4. CHECK INTERMITTENT INCIDENT

PASSENGER SIDE DOOR MIRROR DEFOGGER

< COMPONENT DIAGNOSIS >

Check intermittent incident.

Refer to GI-40, "Intermittent Incident"

>> INSPECTION END

Component Inspection

INFOID:0000000003303600

1. CHECK PASSENGER DOOR MIRROR DEFOGGER

- 1. Turn ignition switch OFF.
- 2. Disconnect door mirror (passenger side) connector.
- 3. Check continuity between door mirror terminals.

Door mirror (pa	Continuity		
Connector	Terminal		Continuity
D43	7	19	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror glass (passenger side). Refer to MIR-63, "DOOR MIRROR ASSEMBLY: Removal and Installation"

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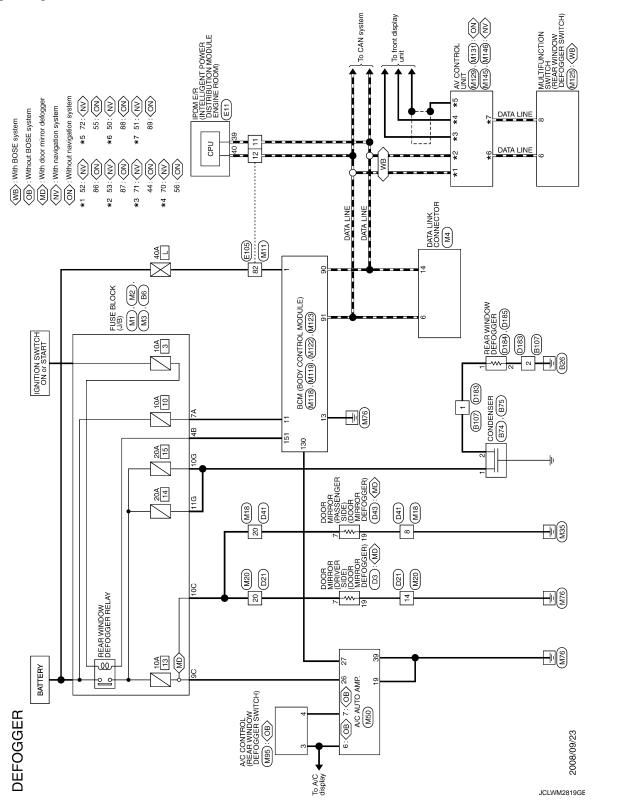
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REAR WINDOW DEFOGGER SYSTEM

Wiring Diagram - DEFOGGER SYSTEM -



< COMPONENT DIAGNOSIS >

Connector No. B107 Connector Name WIRE TO WIRE Connector Type MOZNW-LC LAS	Olor Signal Name (Specification) G	Connector Nume DOOR MIRROR (PASSENGER SIDE) Connector Type TH24MW-NH L2	В
Connector No. Connector Na. Connector Ty. H.S.	Terminal No.	Connector No. Connector Type Connector Type H.S. H.S. H.S. Terminal Col No. of N. 19 of N. 19 Ed.	D
	pecification)	Section of the sectio	Е
BJS CONDENSER POIFFB-A	Signal Name (Specification)	Name WIRE TO WIRE	F
	Color G Wire	Name WIRE Type TH400	G
Connector No. Connector Name Connector Type	Terminal of 2	Connector No. Connector Name Connector Type Connector Type Connector Type Color No. Co	Н
			п
	Signal Name [Specification]	Name WIRE TO WIRE	T
ADENSEI	Signal	MIRE TO WIRE WIRE TO	J
Connector No. B74 Connector Name CON. Connector Type POII	Terminal Color No. of Wire 1 Y	Connector No. D2	К
			DEF
K (J/B) S 302010 908077060	Signal Name [Specification] -	DOOR MIRROR (DRIVER SIDE) TH2AMW-NH 10 9 8 7 6 5 4 3 2 1 1 22 21 20 19 18 17 16 15 14 13 Signal Name [Specification]	M
RB6 FUSE BLOCK (J/B) NS12FBR-CS 5G4G 36		2121 144 MW-	N
OGGE or No.	Ocior of Wire	No. No. 1798	0
DEF(Connectt Connectt Connectt H.S.	Terminal No. 10G 11G	Connector Connector Connector Terminal No. 7 19	JCLWM2820GE
			P

Revision: 2008 October DEF-23 2009 Murano

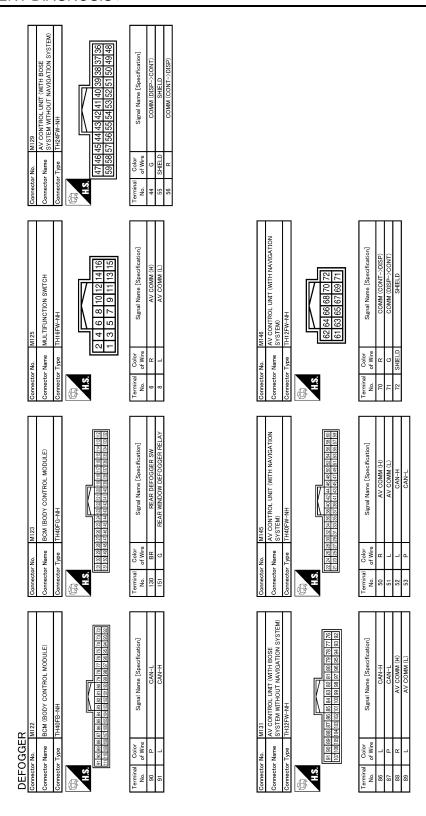
Connector No. E11	H.S. 42 41 40 39 46 45 44 43	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 39 P	Cornector No. M3 Cornector No. M3 Cornector Name FUSE BLOCK (J/B) Cornector Type NSI2FW-CS M3 Cornector Type NSI2FW-CS M3 Cornector Type NSI2FW-CS Cornector Typ	щ
Connector No. D185	Connector Type POIFB-A H.S.	Terminal Color No. of Wire 2 B	Connector No. M2 Connector Type NS10FW-CS AB 3B BB 7B 6B 5B BB 7B 6B 5B 7B 6B 7B 6B 5B 7B 6B 5B 7B 6B 7B	
Connector No. D184	Connector Type POIFB-A	Terminal Color No. of Wire Signal Name [Specification]	Connector No. MI Connector Type NS0FW-MZ MS0FW-MZ MS0F	
DEFOGGER Connector No. D183	Connector Type IMOZPW-LC H.S.	Terminal Color Signal Name [Specification] Olor Color Colo	Connector No. E105 Connector Name WIRE TO WIRE Connector Type HT70MW-CS10-M3 H.S. H.S. E. C.	-

JCLWM2821GE

< COMPONENT DIAGNOSIS >

Connector No. M20	B C
Cornector No. M18 Connector Name WIRE TO WIRE Connector Type MOSFB-LC Connector Type MOSFB-LC Terminal Color No. of Wire Signal Name [Specification] Terminal Color No. of Wire Signal Name [Specification]	E F G
Connector No. Mil	J K
DEFOGGER	M N

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JCLWM2823GE

< ECU DIAGNOSIS >

ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

Reference Value INFOID:0000000004749673 В

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VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
FR WIPER HI	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
FR WIPER LOW	Front wiper switch LO	On
ED MA OUED OW	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
FR WIPER INT	Other than front wiper switch INT/AUTO	Off
FR WIPER INT	Front wiper switch INT/AUTO	On
FR WIPER STOP	Front wiper is not in STOP position	Off
FR WIFER STOP	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
DD WIDED ON	Other than rear wiper switch ON	Off
RR WIPER ON	Rear wiper switch ON	On
RR WIPER INT	Other than rear wiper switch INT	Off
RR WIPER INT	Rear wiper switch INT	On
DD WACHED CW	Rear washer switch OFF	Off
RR WASHER SW	Rear washer switch ON	On
DD WIDED STOD	Rear wiper is in STOP position	Off
RR WIPER STOP	Rear wiper is not in STOP position	On
TUDNI CIONIAL D	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
TUDNI CIONIAL I	Other than turn signal switch LH	Off
TURN SIGNAL L	Turn signal switch LH	On
TAIL LAND CVA	Other than lighting switch 1ST and 2ND	Off
TAIL LAMP SW	Lighting switch 1ST or 2ND	On
LILDEAM CW/	Other than lighting switch HI	Off
HI BEAM SW	Lighting switch HI	On
HEAD LAMB OW 4	Other than lighting switch 2ND	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
HEAD LAMB OW 2	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
DACCING CV	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
ALITO LIGHT OW	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
ED EOO 0141	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On

Monitor Item	Condition	Value/Status
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
2000 014/ 00	Driver door closed	Off
OOR SW-DR	Driver door opened	On
2000 014/ 40	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
OOD CW DD	Rear RH door closed	Off
OOOR SW-RR	Rear RH door opened	On
OOD CW DI	Rear LH door closed	Off
DOOR SW-RL	Rear LH door opened	On
OOD CW DK	Back door closed	Off
OOOR SW-BK	Back door opened	On
	Other than power door lock switch LOCK	Off
CDL LOCK SW	Power door lock switch LOCK	On
	Other than power door lock switch UNLOCK	Off
CDL UNLOCK SW	Power door lock switch UNLOCK	On
VEV CVI LIX CW	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
(EY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
ET CTL UN-SW	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
IAZADD 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 au- lio system this item is not nonitored.	Rear window defogger switch ON	On
R CANCEL SW	NOTE: The item is indicated, but not monitored.	Off
ED/DD ODEN OW	Back door opener switch OFF	Off
R/BD OPEN SW	While the back door opener switch is turned ON	On
FRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
DIVE LOCK	LOCK button of the key is not pressed	Off
RKE-LOCK	LOCK button of the key is pressed	On
	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
DIVE DANIO	PANIC button of the key is not pressed	Off
RKE-PANIC	PANIC button of the key is pressed	On
DVE DAM ODEN	UNLOCK button of the key is not pressed	Off
RKE-P/W OPEN	UNLOCK button of the key is pressed and held	On

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status						
RKE-MODE CHG	LOCK/UNLOCK button of the key is not pressed and held simultaneously	Off						
RRE-MODE CHG	LOCK/UNLOCK button of the key is pressed and held simultaneously	On						
ODTICAL SENSOR	Bright outside of the vehicle	Close to 5 V						
OPTICAL SENSOR	Dark outside of the vehicle	Close to 0 V						
DEO OM DD	Driver door request switch is not pressed	Off						
REQ SW -DR	Driver door request switch is pressed	On						
DEO CW. 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						
REQ SW -BD/TR	Back door request switch is not pressed	Off						
	Back door request switch is pressed	On						
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off						
OOTTOW	Push-button ignition switch (push switch) is pressed	On						
IGN RLY2 -F/B	Ignition switch in OFF or ACC position	Off						
ION INLIZ TOD	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						
SNANL SW Z	Stop lamp switch 1 signal circuit is normal	On						
DETE/CANCL SW	Selector lever in P position	Off						
DETE/CANCE SW	Selector lever in any position other than P	On						
SFT PN/N SW	Selector lever in any position other than P and N	Off						
	Selector lever in P or N position	On						
S/L -LOCK	Steering is unlocked	Off						
	Steering is locked	On						
S/L -UNLOCK	Steering is locked	Off						
O/L YONLOOK	Steering is unlocked	On						
S/L RELAY-F/B	Ignition switch in OFF or ACC position	Off						
OIL NELAITI ID	Ignition switch in ON position	On						
JNLK SEN -DR	Driver door is unlocked	Off						
UNLK SEN -DK	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						
ICN DI V4 E/D	Ignition switch in OFF or ACC position	Off						
IGN RLY1 -F/B	Ignition switch in ON position	On						
DETE ON IDDA	Selector lever in any position other than P	Off						
DETE SW -IPDM	Selector lever in P position	On						

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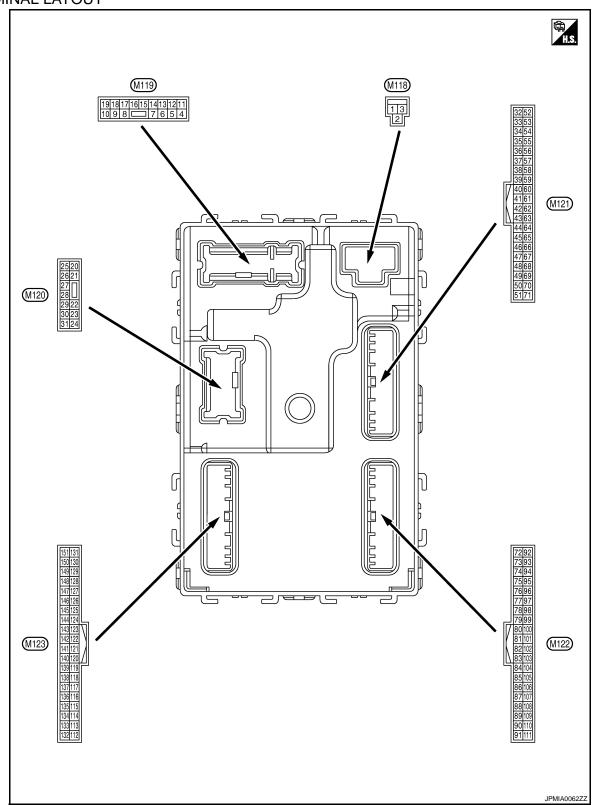
Monitor Item	Condition	Value/Status
SFT PN -IPDM	Selector lever in any position other than P and N	Off
SI I FIN -IFDIVI	Selector lever in P or N position	On
SFT P -MET	Selector lever in any position other than P	Off
SFIF-WEI	Selector lever in P position	On
CET N. MET	Selector lever in any position other than N	Off
SFT N -MET	Selector lever in N position	On
	Engine stopped	Stop
ENGINE STATE	While the engine stalls	Stall
ENGINE STATE	At engine cranking	Crank
	Engine running	Run
0// 1 00// IDDM	Steering is unlocked	Off
S/L LOCK-IPDM	Steering is locked	On
0// 1// 1// 1001	Steering is locked	Off
S/L UNLK-IPDM	Steering is unlocked	On
0/1	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 OVEL 40	Steering is locked	Reset
ID OK FLAG	Steering is unlocked	Set
	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
	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.	_
CONFINATION	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 ID 4	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

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status	_		
CONFIDM ID2	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet	<u> </u>		
CONFIRM ID3	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done	_ E		
CONFIDMIDO	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet	_		
CONFIRM ID2	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done	_ (
OONEIDM 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			
-	The ID of fourth key is not registered to BCM	Yet	E		
1 4	The ID of fourth key is registered to BCM	istered to BCM egistered to BCM yet bered to BCM Done of registered to BCM registered to BCM point registered to BCM Point registered to BCM Point registered to BCM Point registered to BCM Air pressure of front LH tire	_		
	The ID of third key is not registered to BCM	Yet			
Rey ID registered to BCM.	Done				
TD 0	The ID of second key is not registered to BCM	Yet	_		
IP2	The ID of second key is registered to BCM	Done			
	The ID of first key is not registered to BCM	Yet	_		
IP1	The ID of first key is registered to BCM	Done	_		
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is re-				
AIR PRESS FR		Air pressure of front RH tire	_		
AIR PRESS RR		Air pressure of rear RH tire	_		
AIR PRESS RL		Air pressure of rear LH tire			
D 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 DECOT ED4	ID of front RH tire transmitter is registered	Done	_		
ID REGOT FRT	ID of front RH tire transmitter is not registered	Yet	D		
ID DECOT DD4	ID of rear RH tire transmitter is registered	Done			
ID REGST RR1	ID of rear RH tire transmitter is not registered	Yet	_		
ID DECCE DI 4	ID of rear LH tire transmitter is registered	Done	\		
ID KEGST KL1	ID of rear LH tire transmitter is not registered	Yet	_		
AVA DAUNO I AND	Tire pressure indicator OFF	Off	_		
WARNING LAMP	Tire pressure indicator ON	On	_ '		
0.17750	Tire pressure warning alarm is not sounding	Off	_		
BUZZER	Tire pressure warning alarm is sounding	On	_ (

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TERMINAL LAYOUT



PHYSICAL VALUES

Signal name	Terminal No. Description				Value		
Second Battery power supply Input Ignition switch OFF Battery voltage		e color)	Signal name			Condition	
GEN Ground GRAT Couput Ignition switch ON Battery voltage		Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
Common		Ground		Output	Ignition switch OF	F	Battery voltage
A		Ground		Output	Ignition switch ON		Battery voltage
Passenger door UNLOCK Passenger door Passen	4		Interior room lamp				0 V
Section Passenger door UN- LOCK Output Passenger door UN- LOCK Output Ou		Ground		Output	ed.		Battery voltage
Cock	5	Ground	Passenger door UN-	Output	Passanger deer		Battery voltage
Cround Step lamp Output Step lamp OFF Battery voltage	(G)	Ground		Output	rassenger 000f		0 V
Second All doors LOCK Output All doors LOCK (Actuator is activated) Battery voltage		Ground	Sten lamn	Output	Sten lamn	ON	0 V
Second All doors LOCK Output All doors Output All doors Other than LOCK (Actuator is not activated) OV	(W)	Giodila	Ciep iamp	Output	Step lattip	OFF	Battery voltage
Other than LOCK (Actuator is not activated) OV		Ground	All doors LOCK	Output	All doors	,	Battery voltage
Ground Ground Push-button ignition Switch illumination ground Ground Ground Ground Push-button ignition Ground (O) Ground Ground Ground Push-button ignition Ground (O) Ground Ground	(V)	Oround	All doors Look	Output	7tii doors		0 V
Cher than UNLOCK (Actuator is activated)		9 0 1 5 1 111 001 0 1 1	vated)		Battery voltage		
Rear RH door and rear LH door UN-LOCK Push-button ignition switch of Ignund	(G)	Ground	Diver door one ook	Output	Dilver door		0 V
Company Comp		Ground		Output			Battery voltage
Company Comp	(P)	Ground		Output	and rear LH door	,	0 V
Ground G		Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
Push-button ignition switch illumination ground Push-button ignition switch illumination ground Push-button ignition switch illumination ground Output Tail lamp ON OFF Battery voltage		Ground	Ground	_	Ignition switch ON		0 V
Push-button ignition switch illumination ground Output Tail lamp ON When the illumination brightening/dimming level is in the neutral position (V) 10 2 ms JSNIA0010GB OFF Battery voltage O.2 V						OFF	
JSNIA0010GB 15 (L) Ground ACC indicator lamp Output Ignition switch ACC O.2 V		Ground	switch illumination	Output	Tail lamp	ON	When the illumination brightening/dimming level is in the neutral position
15 (L) Ground ACC indicator lamp Output Ignition switch ACC 0.2 V						055	JSNIA0010GB
(L) Ground ACC indicator lamp Output Ignition switch ACC 0.2 V	15	Or 1	ACC in direct of the con-	_			
	(≟round	ound ACC indicator lamp	Output	ignition switch	ON	0.2 V 0 V	

	inal No.	Description				Value
+	e color)	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	(V) 15 10 5 0 1 s
					Turn signal switch OFF	6.5 V
					Turn signal switch OFF	U 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		Room lamp timer		Interior room	OFF	Battery voltage
(Y)	Ground	control	Output	lamp	ON	0 V
					OPEN (Back door opener actuator is activated)	Battery voltage
23 (BR)	Ground	Back door open	Output	Back door	Other than OPEN (Back door opener actuator is not activated)	0 V
26	Ground	Rear wiper	Output	Rear wiper	OFF (Stopped)	0 V
(G)	Ground	ixeai wipei	Output	iteal 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 1 s JMKIA0062GB
(B)	Giodila		ŎFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	

Terminal No. (Wire color)		Description				Value	
(Wire	e color) –	Signal name	Input/ Output		Condition	(Approx.)	
35* ¹		Luggage room anten-		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	
(W)	Ground	na (+)	Output	ŎFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	
38* ¹ Ground		Rear bumper antenna (-)		When the back door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s 1 s JMKIA0062GB	
	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	
39* ¹	Ground	Rear bumper anten-	Qutput	When the back door request	When Intelligent Key is in the antenna detection area	(V) 15 10 0 1 s JMKIA0062GB	
(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	
47 (L)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC	Battery voltage	

Terminal No. Description							
	inai No. e color)	Description		O and distant		Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)	
52 (R) Ground				Ignition switch	When selector lever is in P or N position	Battery voltage	
	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	M/	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	

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

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

	ninal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
76* ¹	Occupation	Driver door antenna	0.4.4	When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(V)		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	
77* ¹	Canada	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
(P) Ground	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
78* ¹	Ground	Room antenna 1 (-)	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(R)	Ground	(Instrument panel)		OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB

	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 0 1 s JMKIA0062GB
(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 communication	Input/ Output	During waiting		(V) 15 10 5 0 1 ms
(P)	Giouna			When operating e	ither button on the key	(V) 15 10 5 0 1 ms JMKIA0065GB

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	ninal No.	Description				Value	
(Wir	re color)	Signal name	Input/ Output		Condition	(Approx.)	
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	
					Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB	
87 (R)	Ground	Combination switch INPUT 5	Input	Combination switch	Rear wiper switch ON (Wiper intermittent dial 4)	1.3 V	
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	JPMIA0039GB 1.3 V (V) 15 10 2 ms JPMIA0040GB 1.3 V	

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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 1.3 V
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	1.3 V 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		_	_

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	inal No. e color)	Description		_	O and distingu	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
92 (R)* ¹ (L)* ²	Ground	Key slot illumination	Output	Key slot illumina- tion	OFF	0 V (V) 15 10 5 0 JPMIA0015GB
					ON	Battery voltage
					OFF or ACC	Battery voltage
93 (L)	Ground	ON indicator lamp	Output	Ignition switch	ACC	0.2 V
(=)					ON	0 V
95	Ground	ACC rolay control	Output	Ignition switch	OFF	0 V
(L)	Giouria	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	Ground	Steering lock condi-	Innut	Stooring look	LOCK status	0 V
(O)	Ground tion No. 1	Input	Steering lock	UNLOCK status	Battery voltage	
98	98	Steering lock condi-	lan.ut	Cha a win a la alc	LOCK status	Battery voltage
(L)	Ground	tion No. 2	Input	Steering lock	UNLOCK status	0 V
99	Ground	Selector lever P posi-	Input Selector lever	P position	0 V	
(V)	Giodila	tion switch		Selector level	Any position other than P	Battery voltage
100* ¹ (P)	Ground	Passenger door request switch	Input	Passenger door request switch	ON (Pressed) OFF (Not pressed)	0 V (V) 15 10 5 0 JPMIA0016GB 1.0 V
					ON (Pressed)	0 V
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		Blower fan motor re-	0.1.1	Lauritia e de 1	OFF or ACC	0 V
(Y)	Ground	lay control	Output	Ignition 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			0 100	Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
106	Ground	Steering lock unit	Output	Ignition switch	OFF or ACC	Battery voltage
(Y)	Orodria	power supply	Output	ignition switch	ON	0 V
					All switches OFF	(V) 15 10 2 ms JPMIA00411
					Turn signal switch LH	(V) 15 10 2 ms JPMIA00370
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 JPMIA0036
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA00386
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA00390

Terminal No. (Wire color) Description		Condition		Value	
+ –	Signal name	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 5 0 2 ms JPMIA0036GB 1.3 V
				Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0040GB
				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 1.3 V

	inal No.	Description				Value
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
					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
					ON	0 V
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB

	inal No.	Description				Value
+ (VVire	e color)	Signal name	Input/ Output		Condition	(Approx.)
111 (LG)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK status LOCK or UNLOCK	Battery voltage (V) 15 10 5 0 JMKIA0066GI
					For 15 seconds after UN- LOCK 15 seconds or later after UNLOCK	Battery voltage 0 V
112 (R)	Ground	Rain sensor serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 → 10ms JPMIA0156GI 8.7 V
113* ³ (O)	Ground	Optical sensor	Input	Ignition switch ON	When bright outside of the vehicle When dark outside of the vehicle	Close to 5 V
116 (GR)	Ground	Stop lamp switch 1	Input		—	Battery voltage
118	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
(L)			·		ON (Brake pedal is depressed)	Battery voltage
119* ¹ (W) Groun	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 JPMIA0012GI
					UNLOCK status (unlock sensor switch ON)	0 V
121	Ground	Key slot switch	Input		serted into key slot	Battery voltage
(Y)		•		When the key is no	ot inserted into key slot	0 V
122 (R)	Ground	ACC feedback	Input	Ignition switch	OFF ACC or ON	0 V Battery voltage
123	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
(G)		IOIN IOGUDAUK	niput	iginuon switch	ON	Battery voltage

# — Signal name Output Comparison		inal No. e color)	Description			O an alitica	Value
130 Ground Passenger door switch Input Passenger door switch Input Passenger door switch Input Input		1	Signal name	Input/ Output		Condition	
130-4 Ground Rear window defoger ger switch Input communication Input communic		Ground		Input			10 5 0 10 ms JPMIA0011GB
Ground (BR)							0 V
Rear window defogger switch ON Rear window defogger switch ON		Ground		Input			15 10 5 0 10 ms JPMIA0012GB
Ground Power window switch communication							
10.2 V Ignition switch OFF or ACC Battery voltage		Ground			Ignition switch ON		15 10 5 0
ON (When tail lamps OFF) Push-button ignition switch illumination Output Push-button ignition switch illumination Output Push-button ignition switch illumination ON (When tail lamps ON) ON (When tail lamps ON) ON (When tail lamps ON) OFF OFF OV							10.2 V
Receiver and sensor (P) 138 Ground Ground Receiver and sensor Output Ignition switch ON (When tail lamps ON) OFF OFF OV OFF OFF OV OFF OFF					Ignition switch OF		
Ground (W)						ON (when tall lamps OFF)	NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level.
137 (P) Ground Receiver and sensor ground Input Ignition switch ON 0 V 138 Ground Receiver and sensor Output Ignition switch		Ground		Output	tion switch illumi-	ON (When tail lamps ON)	15 10 17
(P) Ground ground Input Ignition switch ON 0 V 138 Ground Receiver and sensor Output Ignition switch						OFF	0 V
Ground Receiver and series Output Ignition switch		Ground		Input	Ignition switch ON		0 V
(v) power suppry The suppry ACC or ON 5 0 \/	138 (V)	Ground	Receiver and sensor power supply	Output	Ignition switch	OFF ACC or ON	0 V 5.0 V

	inal No.	Description				Value	
	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
139* ⁵		Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 + + 0.2s OCC3881D	С
(O)	Ground	er communication	Output	ÓN	When receiving the signal from the transmitter	(V) 6 4 2 0 	E
140		Selector lever P/N			P or N position	Battery voltage	G
(GR)	Ground	position	Input	Selector lever	Except P and N positions	0 V	
					ON	0 V	Н
141 (O)	Ground	Security indicator Ou	Output	Security indicator	Blinking	(V) 15 10 5 0 11.3 V	J
142 (L)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermittent dial 4)	OFF All switches OFF Lighting switch 1ST Lighting switch HI Lighting switch 2ND Turn signal switch RH	Battery voltage 0 V (V) 15 10 2 ms JPMIA0031GB	M N
143 (W)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switches OFF (Wiper intermittent dial 4) Front wiper switch HI (Wiper intermittent dial 4) Rear wiper switch INT (Wiper intermittent dial 4) Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 3 Wiper intermittent dial 6 Wiper intermittent dial 7	0 V 15 10 2 ms JPMIA0032GB 10.7 V	O

	inal No. e color)	Description			Condition	Value	
+	_	Signal name	Input/ Output			(Approx.)	
					All switches OFF (Wiper intermittent dial 4)	0 V	
144 (P)					Front washer switch ON (Wiper intermittent dial 4)		
	0	Combination switch	Outrast	Combination	Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15	
	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 JPMIA0033G	
					All switches OFF	0 V	
					Front wiper switch INT/ AUTO	(V)	
145	Ground	Combination switch OUTPUT 3		Combination switch (Wiper intermit- tent dial 4)	Front wiper switch LO	15	
(V)			Output		Lighting switch AUTO	5 0 2 ms JPMIA0034GB	
					All switches OFF	10.7 V	
	Ground	Combination switch OUTPUT 4 Outp			Front fog lamp switch ON	U V	
146 (Y)					Lighting switch 2ND	(V)	
				Combination switch	Lighting switch PASS	15	
			Output	(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		(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	

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	inal No.	Description		Condition		Value	
(Wire	e color)	Signal name	Input/			(Approx.)	
+	_		Output				
151	Ground	Rear window defog-	Output	Rear window de-	Active	0 V	
(G)		ger relay control		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),

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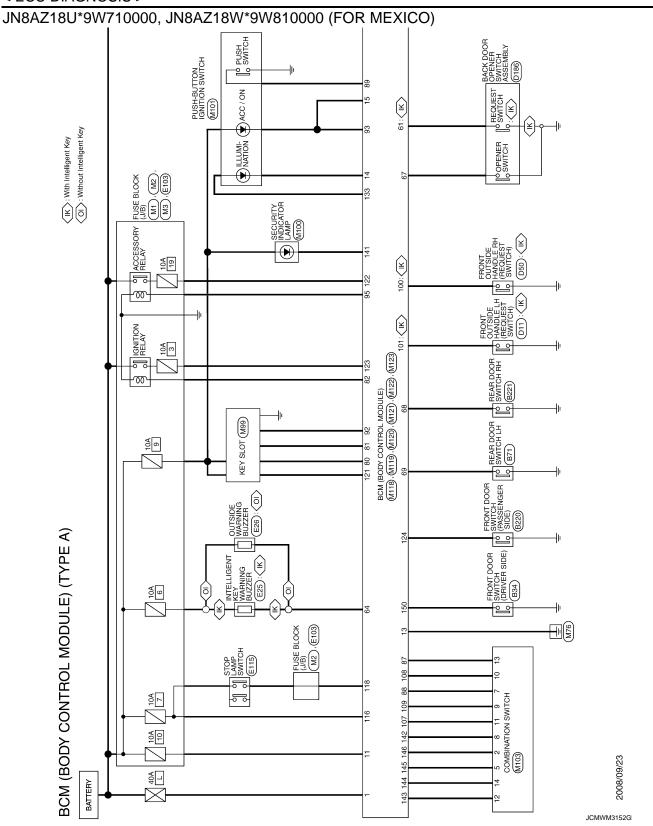
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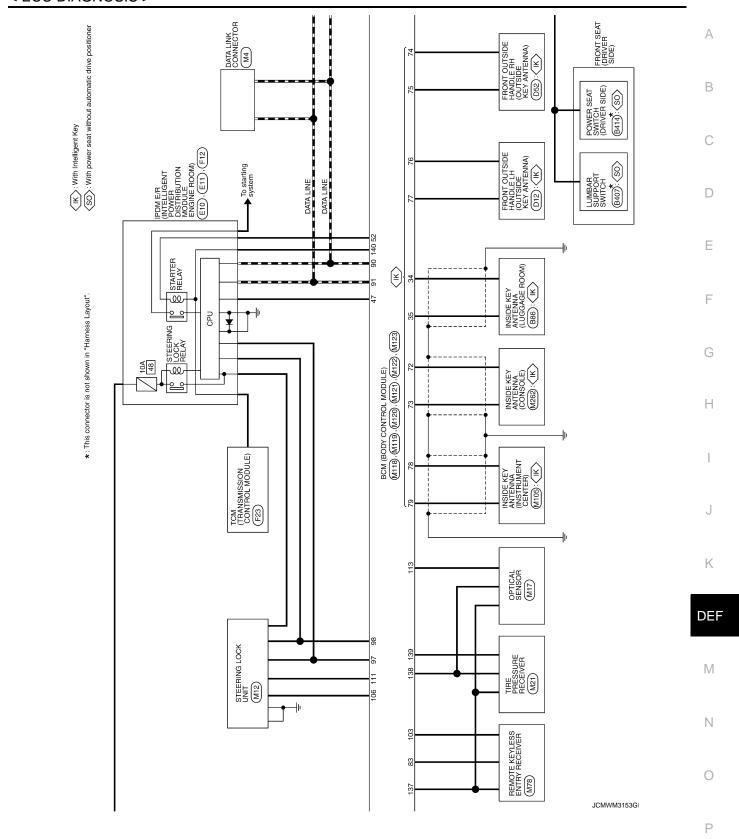
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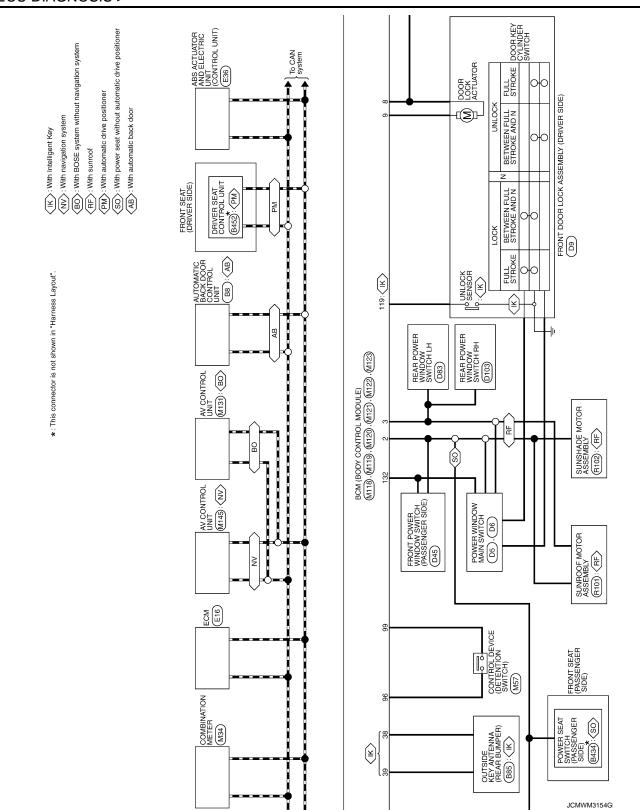
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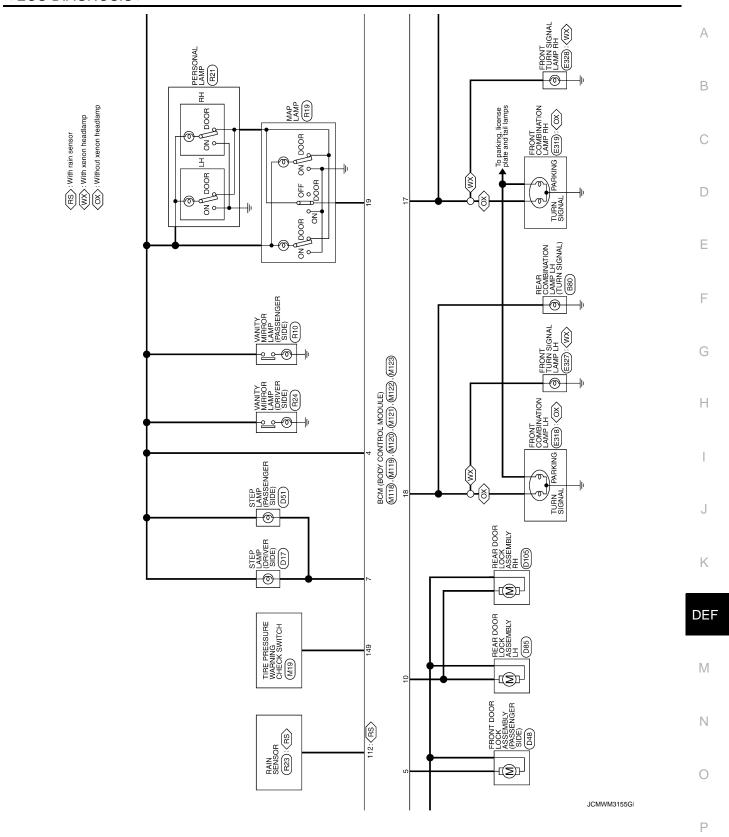
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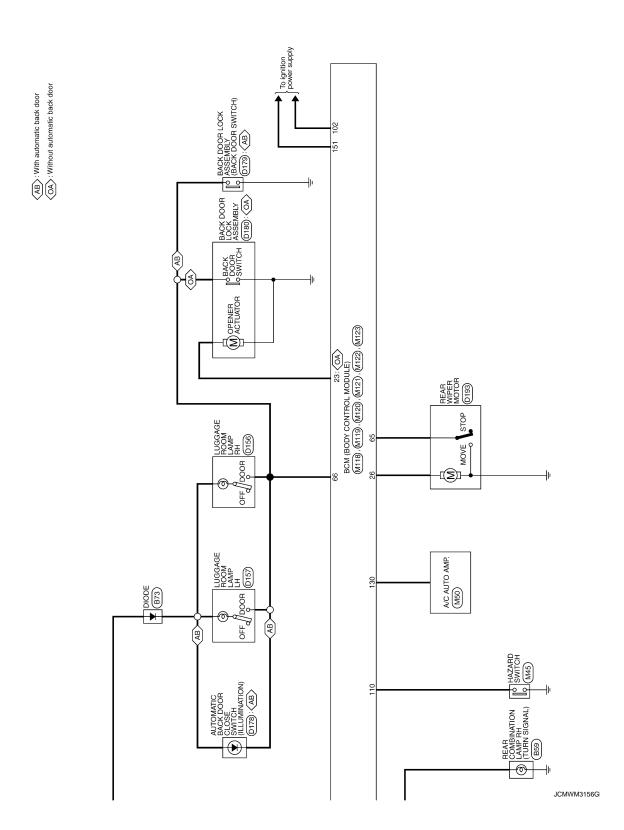
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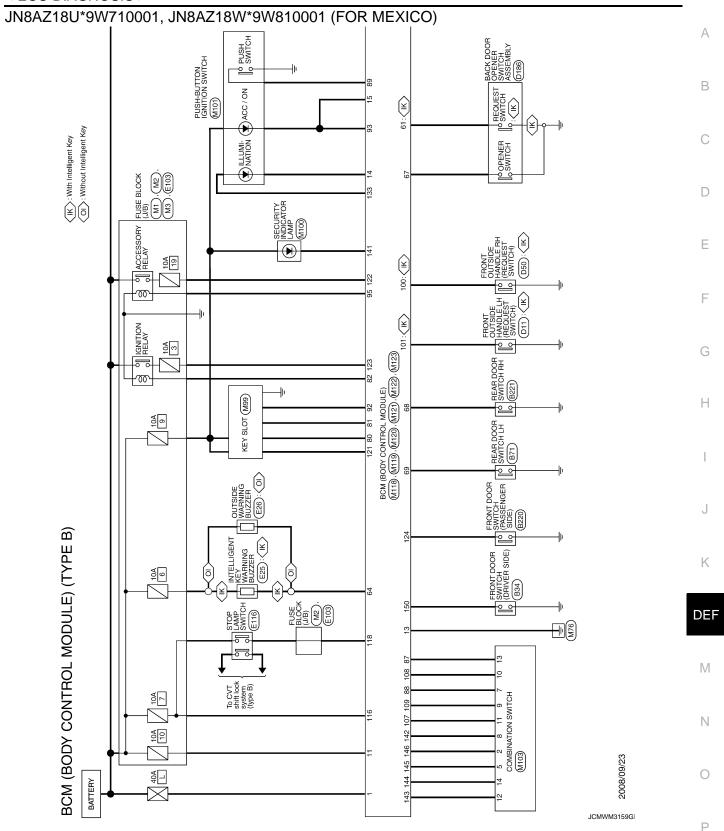
BR TURN SIGNAL LH Y ROOM LAMP TIMER CONTROL					В
9 6		Ш			D
9 10 18 19	cification] POWER SUPPLY LLOCK OUTPUT UNLOCK OUTPUT UNLOCK OUTPUT CK OUTPUT CK OUTPUT CK OUTPUT ON SWILL GND ON SWILL GND ON	DR SW			Е
CONTROL M	Signal Name [Specification] INTERIOR ROOM LAMP POWER SUPPLY PASSENGER DOOR UNITOK OUTPUT STEP LAMP OUTPUT ALL DOOR, FUEL LID INLOCK OUTPUT REAR DOOR UNIT DIVILOK OUTPUT BAT (FUSE) BAT (FUSE) ALL DOOR UNITOK OUTPUT BAT (FUSE) ACC IND ACC IND ACC IND TURN SIGNAL RH	REAR RH DOOR SW REAR LH DOOR SW			F
⁸ ⁸ 4 ±	Color Or Wire D PASS W W ALL I C D DRIVER P P P P P P P P P P P P P P P P P P P	≥ α			G
Connector No. Connector Type Connector Type	Terminal No. No. 1 10 10 11 11 11 11 11 11 11 11 11 11 1	89			Н
TROL MODULE)	Signal Name [Specification] BAT (F/L) POWER WINDOW POWER SUPPLY (BAT) POWER WINDOW POWER SUPPLY (RAP)	TROL MODULE)	Signal Name [Spee/fication] LUGGAGE ROOM ANTT- LUGGAGE ROOM ANTT- REAR BUMPER ANT- REAR BUMPER ANT- REAR BUMPER ANT- IGN RELAY IDBM E-R CONT BACK DOOR FORENER REQUESTS SW REQUEST SW BLZZER REQUEST SW BLZZER REACK DOOR OPENER ROOM SW BACK DOOR SW BACK DOOR OPENER SW		I
MITB BOW (BODY CONTROL MODULE) M03FB-LC	Signal Na POWER WINDO POWER WINDO	MIZI THADE COVTROL MODULE) THADE CY-NH THADE CY-NH THADE CHANGE BEST THATE CHANGE BEST THATE CHANGE BEST THATE BEST BEST BEST	Signal IN LUGGA LUGGA LUGGA REAR REAR IGN RELA STARTIN BACK DOOR REQUE REAG BACK DOOR REAG BACK DOOR BACK DOOR REAG BACK DOOR REAG BACK DOOR BACK		J
(TYPE A) Gornector Name B Connector Type M H.S	Terminal Color No. 1 Whee 2 GR 3 L L	Connector No. MI21 Connector Name BCM (BO) Connector Type IH40FGY H.S. ST SS 84 84 71 71 71 71 71 71 71 71 71 71 71 71 71	Terminal Color No. of Wire No.		K
	[lo		on]		DEF
ХОL МОD wwтcн 4 5 6 112 13 14	Signal Name (Specification) OUTPUT 4 OUTPUT 3 OUTPUT 3 OUTPUT 5 INPUT 2 INPUT 1 INPUT 1 OUTPUT 6 INPUT 1 OUTPUT 5 OUTPUT 7	MI20 BCM (BODY CONTROL MODULE) NSIZFW-CS 20 21 22 23 24 25 26 27 28 29 30 31	Signal Name [Speedfeation] BACK DOOR OPEN OUTPUT REAR WIPER OUTPUT		M
DY CONTROL MI03 HOMENIATION SWITCH THIBEW-NH T 2 3 4 4 10 11 112	S) (S)	M120 BCM (BODY CONTROL MODI NS12FW-CS 20 21 22 23 24 25 26 27 28 29 30 31	Signal I BACK D REAK D		Ν
ector No.	Color No. of Wire	ector No. ector Name ector Type	Color Colo		0
BO Sommer		Conn	<u> - </u>	JCMWM3157GI	
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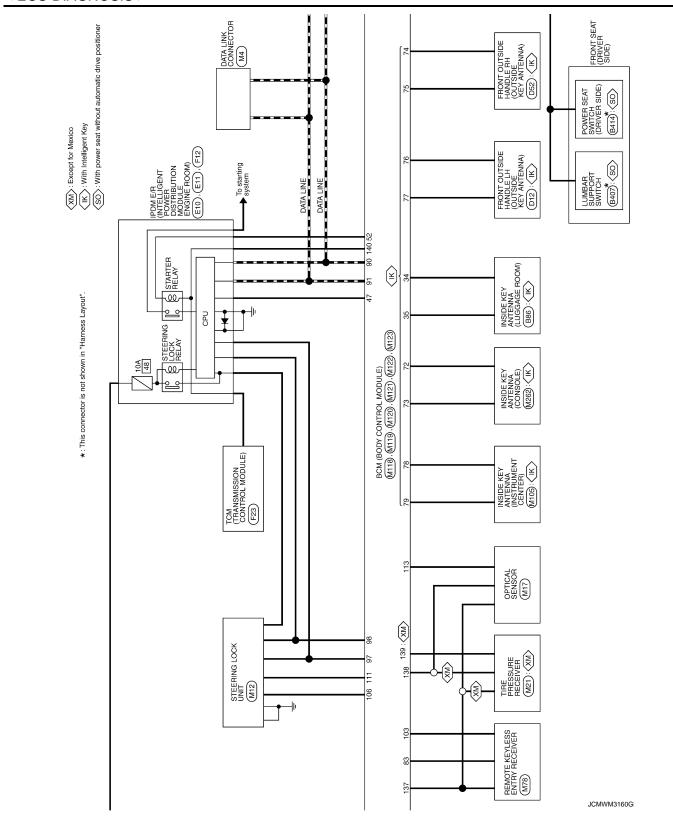
Revision: 2008 October DEF-57 2009 Murano

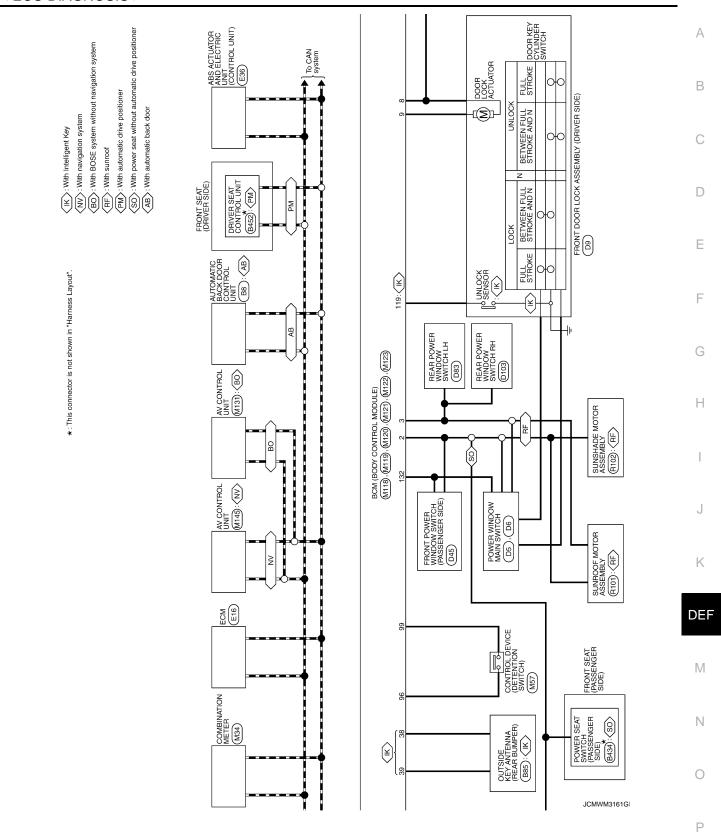
BCM (B	7 (BCL	Connector No. M122 33		Д	KEYLESS ENTRY RECEIVER SIGNAL	Connector No.	Г	M123	133	M	PUSH-BUTTON IGNITION SWILL POWER
		(Tillingon logitingo Xaoa) mod	87	۵.	COMBI SW INPUT 5		Ι.	Chinadas Iodanado Madal Mada	137	۵.	RECEIVER/SENSOR GND
Connec	Connector Name	BOM (BODT CONTROL MODULE)	88	GR	COMBI SW INPUT 3	Connector Name		BOM (BODT CONTROL MODULE)	138	>	RECEIVER/SENSOR POWER SUPPLY
Connect	Connector Type	TH40FB-NH	88	BR	PUSH SW	Connector Type	П	TH40FG-NH	139	0	TIRE PRESS RECEIVER SIGNAL
			06	۵	CAN-L	4			140	GR	SHIFT N/P
F			91	_	CAN-H	F			141	0	SECURITY INDICATOR OUTPUT
SI.			95	œ	KEY SLOT ILL[With Intelligent Key]	V II (142	7	COMBI SW OUTPUT 5
	_11		92	٦	KEY SLOT ILL[Without Intelligent Key]	֓֟֟֓֟֓֟֓֟֓֓֟ <u>֚</u>			143	М	COMBI SW OUTPUT 1
	91 90 89 88	83 82	93	٦	ON IND		1 130 129 128 12	130 (23) (23) (23) (25) (24) (23) (22) (21) (21) (13) (13) (14) (15) (14) (15) (14) (15)	144	Ь	COMBI SW OUTPUT 2
	111 110 109 108	10 109 108 107 106 106 104 103 102 101 100 99 98 97 96 95 94 93 92	92	_	ACC RELAY CONT	2	1 150 149 148 14	150 [48] [48] [47] 146 [146] 144 [143] 142 [141] [140 [139] 138 [137] 136 [135] 134 [133] 132]	145	>	COMBI SW OUTPUT 3
			96	>	A/T DEVICE POWER SUPPLY				146	>	COMBI SW OUTPUT 4
			97	0	S/L CONDITION 1				149	>	TIRE PRESS WARNING CHECK SW
Terminal	al Color	Cincol Money	86	7	S/L CONDITION 2	Terminal	Color	Cinnel Money Consideration	120	SB	DRIVER DOOR SW
No	of Wire	olgial Ivallie Lopecincation	66	>	SHIFT P	No.	of Wire	olgilal Ivalile Lopecilication	121	5	REAR WINDOW DEFOGGER RELAY
72	В	ROOM ANT2-	100	۵	PASSENGER DOOR REQUEST SW	112	œ	RAIN SENSOR SERIAL LINK			
73	×	ROOM ANT2+	101	>	DRIVER DOOR REQUEST SW	113	0	OPTICAL SENSOR			
74	Υ	PASSENGER DOOR ANT-	102	>	BLOWER FAN MOTOR RELAY CONT	116	GR	FUSE CHECK			
75	Ρ	PASSENGER DOOR ANT+	103	_	KEYLESS ENTRY RECEIVER POWER SUPPLY	118	_	STOP LAMP SW			
9/	>	DRIVER DOOR ANT-	106	>	S/L POWER SUPPLY	119	>	DR DOOR UNLOCK SENSOR			
77	۵	DRIVER DOOR ANT+	107	0	COMBI SW INPUT 1	121	>-	KEY SLOT SW			
78	~	ROOM ANT1-	108	_	COMBI SW INPUT 4	122	œ	ACC F/B			
79	ŋ	ROOM ANT1+	109	SB	COMBI SW INPUT 2	123	ŋ	IGN F/B			
80	SB	IMMOBI ANTENNA CONTROL	110	5	HAZARD SW	124	~	PASSENGER DOOR SW			
81	0	IMMOBI ANTENNA SIGNAL	Ξ	97	S/L COMM	130	BR	REAR DEFOGGER SW			
82	BR	IGN RELAY (F/B) CONT				132	9	POWER WINDOW SW COMM			

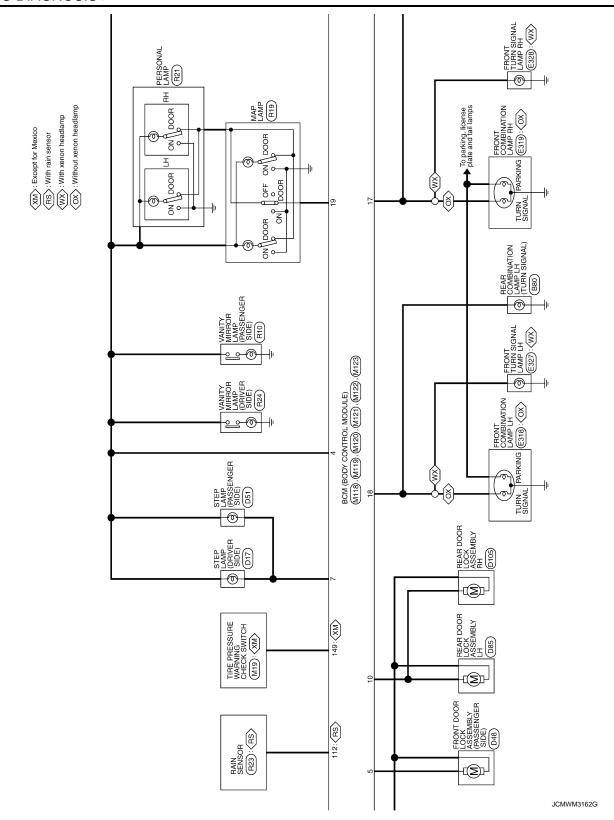
JCMWM3158G

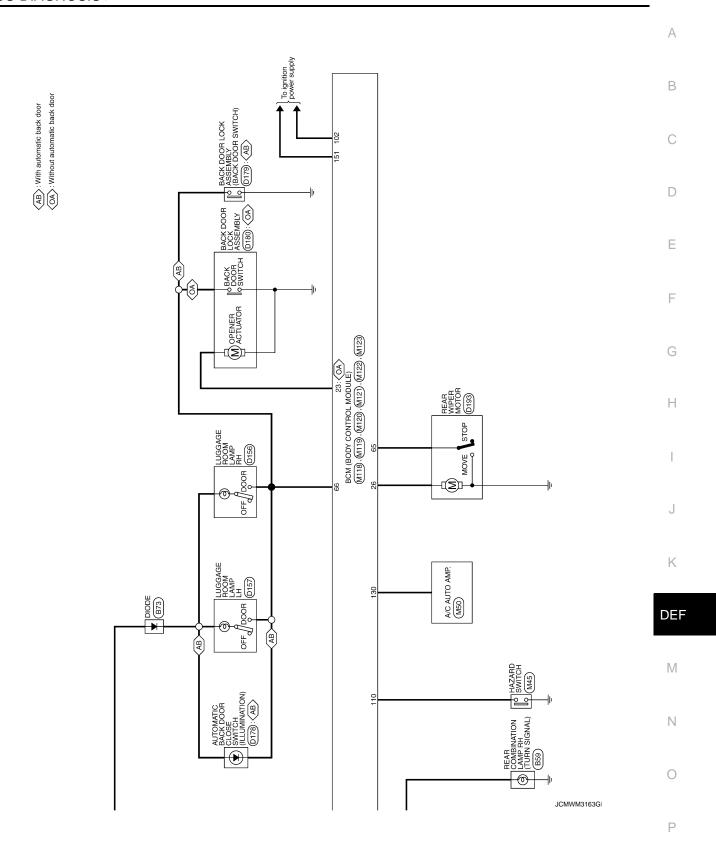
FROM VIN: JN8AZ18U*9W100001, JN8AZ18W*9W200001 (EXCEPT FOR MEXICO),











BCM (BODY CONTROL MODULE) (TYI Connector No. MIOS Connector Name COMBINATION SWITCH Connector Type THISFW-NH	TYPE B Connector No. MII8 Connector Name BCM (BODY CONTROL MODULE) Connector Type MOGYB-LC Connect	Connector No. M119 Connector Name BCM (BODY CONTROL MODULE) Connector Type NS16FW-CS	18 BR TURN SIGNAL LH 19 Y ROOM LAMP TIMER CONTROL
HS. 123 456 7891011121314	H3.	4 5 6 7 0 8 9 10 111213141516171819	
Terminal Color Signal Name [Specification] No.	Terminal Color Signal Name [Specification] Odor No. of Wire Signal Name [Specification] 1	Terminal Color Signal Name [Specification] No. 10	
Oomector No. M/120 Connector Name BCM (BODY CONTROL MODULE) Connector Type NS12FW-CS MA. 20 21 22 23 24 25 26 27 28 29 30 31	Connector No. M121 Connector Name BCM (BODY CONTROL MODULE) Connector Type ITH40FGY-NH H.3. SI SI BERT HE ELH HOTELH HORBISTER SI	68 W REAR PH DOOR SW 69 R REAR LH DOOR SW	
Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 23 BR	Terminal Color No. of Wie- LUGGAGE ROOM ANTT- 34		

JCMWM3164G

RECEIVER SENSOR OND RECEIVER SIGNAL THE PRESS RECEIVER SIGNAL SECURITY NP SCURITY NP COMBI SW OUTPUT 5 COMBI SW OUTPUT 4 COMBI SW OUTPUT 4 COMBI SW OUTPUT 4 COMBI SW OUTPUT 4 THE PRESS WARRING CHECK SW DRIVER DOOR SW REAR WINDOW DEFOGGER RELAY	АВ
133 W PUSH-BUT 139 V RECEIVER 138 V RECEIVER 138 V RECEIVER 138 V RECEIVER 144 V CO CO 144 V CO CO 145 V CO CO CO CO CO CO CO	C
Signal Name [Specification] RAIN SENSOR SERIAL LINK OPTICAL SENSOR STOP LAMP SW DR DOOR UNION SENSOR KEY SLOT SW ACC F/B ION F/B FASSENGER BOOR SW REAR DEFOGGER SW PASSENGER BOOR SW REAR DEFOGGER SW POWER WINDOW SW COMM	E
N	G
COMBISS ENTRY RECEIVER SIGNAL	Н
	J K
AODULE (TYPE B)	DEF
BCM (BODY CONTROL MODULE) Connector Nan Bom (BODY CONTROL MODULE) Connector Nan Bom (BODY CONTROL MODULE) Connector Nan Bom (BODY CONTROL MODULE) Terminal Color TH40FB-NH BOM ANT2- To W BOOM ANT2- To W BOOM ANT2- To W BOOM ANT2- To W BOOM ANT3- To W BOOM ANT3- To DRIVER DOOR ANT1- TO DRIVER DOOR	M
PCM (BO Connector Name Connector Nam	O P

INFOID:0000000004749675

Fail-safe

FAIL-SAFE CONTROL BY DTC

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

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

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

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

DTC Inspection Priority Chart

INFOID:0000000004749676

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

Priority	
1 B2562: LOW	/ VOLTAGE
9	AN COMM CIRCUIT ONTROL UNIT (CAN)
B2191: DI B2192: ID B2193: CI	ATS ANTENNA AMP FFERENCE OF KEY DISCORD BCM-ECM HAIN OF BCM-ECM NTI SCANNING
• B2014: CI • B2553: IG • B2555: ST • B2556: PI • B2557: VI • B2560: ST • B2601: SI • B2602: SI • B2603: SI • B2604: PI • B2605: PI • B2606: S/ • B2607: S/ • B2608: ST • B2608: ST • B2609: S/ • B2600: S' • B2610: S' • B2611: S/ • B2611: S/ • B2615: BI • B2615: BI • B2615: BI • B2616: IG • B2617: ST • B2618: BG • B2619: BG • B2618: PI	JSH-BTN IGN SW EHICLE SPEED FARTER CONT RELAY HIFT POSITION HIFT POSITION HIFT POSI STATUS NP SW NP SW L RELAY L RELAY L RELAY EFERING LOCK UNIT TEERING LO

< ECU DIAGNOSIS >

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 <u>BCS-17, "COM-MON ITEM : CONSULT-III Function (BCM - COMMON ITEM)"</u>.

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	×	×	_	_	<u>SEC-55</u>
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	×	_	_	_	<u>SEC-51</u>
B2193: CHAIN OF BCM-ECM	×	_	_	_	<u>SEC-53</u>
B2195: ANTI SCANNING	×	_	_	_	<u>SEC-54</u>
B2553: IGNITION RELAY	_	×	_	_	PCS-49

Revision: 2008 October DEF-69 2009 Murano

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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	_	_	_	×	<u>WT-16</u>	
C1706: LOW PRESSURE RR	_	_	_	×		
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	_	_	_	×	WT-18
C1710: [NO DATA] RR	_	_	_	×	<u> </u>
C1711: [NO DATA] RL	_	_	_	×	
C1712: [CHECKSUM ERR] FL	_	_	_	×	- WT-21
C1713: [CHECKSUM ERR] FR	_	_	_	×	
C1714: [CHECKSUM ERR] RR	_	_	_	×	<u> </u>
C1715: [CHECKSUM ERR] RL	_	_	_	×	
C1716: [PRESSDATA ERR] FL	_	_	_	×	WT-24
C1717: [PRESSDATA ERR] FR	_	_	_	×	
C1718: [PRESSDATA ERR] RR	_	_	_	×	
C1719: [PRESSDATA ERR] RL	_	_	_	×	
C1720: [CODE ERR] FL	_	_	_	×	
C1721: [CODE ERR] FR	_	_	_	×	WT-26
C1722: [CODE ERR] RR	_	_	_	×	<u> </u>
C1723: [CODE ERR] RL	_	_	_	×	
C1724: [BATT VOLT LOW] FL	_	_	_	×	
C1725: [BATT VOLT LOW] FR	_	_	_	×	WT 20
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	_	_	_	×	WT-33

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REAR WINDOW DEFOGGER DOES NOT OPERATE

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SYMPTOM DIAGNOSIS

REAR WINDOW DEFOGGER DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000003303606

1. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.

Refer to DEF-10, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK REAR WINDOW DEFOGGER SWITCH

Check rear window defogger switch.

Refer to DEF-11, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK REAR WINDOW DEFOGGER RELAY

Check rear window defogger relay.

Refer to DEF-12, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK REAR WINDOW DEFOGGER

Check rear window defogger.

Refer to DEF-14, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".

NO >> GO TO 1.

REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGER DO NOT OPERATE.

< SYMPTOM DIAGNOSIS >

REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGER DO NOT OPERATE.	Α				
Diagnosis Procedure					
1. CHECK POWER SUPPLY AND GROUND CIRCUIT	В				
Check power supply and ground circuit. Refer to DEF-10, "Diagnosis Procedure".	С				
Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CHECK REAR WINDOW DEFOGGER SWITCH	D				
Check rear window defogger switch. Refer to DEF-11, "Component Function Check".	Е				
Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3. CHECK REAR WINDOW DEFOGGER RELAY	F				
Check rear window defogger relay. Refer to DEF-12, "Component Function Check". Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4. CONFIRM THE OPERATION					
Confirm the operation again. Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident". NO >> GO TO 1.	J				

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REAR WINDOW DEFOGGER DOES NOT OPERATE BUT BOTH DOOR MIRROR DEFOGGERS OPERATE.

< SYMPTOM DIAGNOSIS >

REAR WINDOW DEFOGGER DOES NOT OPERATE BUT BOTH DOOR MIRROR DEFOGGERS OPERATE.

Diagnosis Procedure

INFOID:0000000003303608

1. CHECK REAR WINDOW DEFOGGER

Check rear window defogger.

Refer to DEF-14, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".

NO >> GO TO 1.

DOOR MIRROR DEFOGGER DOES NOT OPERATE < SYMPTOM DIAGNOSIS > DOOR MIRROR DEFOGGER DOES NOT OPERATE Α **BOTH SIDES BOTH SIDES**: Diagnosis Procedure INFOID:0000000003303609 В 1. CHECK DOOR MIRROR DEFOGGER Check door mirror defogger. Refer to DEF-17, "Component Function Check". Is the inspection result normal? YES >> GO TO 2. D NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION Confirm the operation again. Е Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident". NO >> GO TO 1. DRIVER SIDE DRIVER SIDE: Diagnosis Procedure INFOID:0000000003303610 1. CHECK DRIVER SIDE DOOR MIRROR DEFOGGER Check driver side door mirror defogger. Н Refer to DEF-18, "Component Function Check". Is the inspection result normal? >> GO TO 2. YES NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION Confirm the operation again. Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident". K NO >> GO TO 1. PASSENGER SIDE DEF PASSENGER SIDE: Diagnosis Procedure INFOID:0000000003303611 1.CHECK PASSENGER SIDE DOOR MIRROR DEFOGGER. Check passenger side door mirror defogger. Refer to DEF-20, "Component Function Check". Is the inspection result normal? Ν

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal? Р YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".

NO >> GO TO 1.

ON IS NOT DISPLAYED WHEN PRESSING REAR WINDOW DEFOGGER SWITCH BUT IT IS OPERATED

< SYMPTOM DIAGNOSIS >

ON IS NOT DISPLAYED WHEN PRESSING REAR WINDOW DEFOGGER SWITCH BUT IT IS OPERATED

Diagnosis Procedure

INFOID:0000000003303612

WITH BOSE AUDIO SYSTEM

1. CHECK AV CONTROL UNIT FUNCTION

Check that the AV control unit is operating normally.

- Without navigation refer to AV-45, "Work Flow".
- With navigation refer to AV-551, "Work Flow".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".

NO >> GO TO 1.

WITHOUT BOSE AUDIO SYSTEM

1. CHECK A/C CONTROL UNIT FUNCTION

Check that A/C the control unit is operating normally.

• Without navigation. Refer to AV-10, "Work Flow".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-40, "Intermittent Incident".

NO >> GO TO 1.

REAR WINDOW DEFOGGER INDICATOR DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS > REAR WINDOW DEFOGGER INDICATOR DOES NOT ILLUMINATE Α Diagnosis Procedure INFOID:0000000003303613 WITH BOSE AUDIO SYSTEM В 1. CHECK MULTIFUNCTION SWITCH (REAR WINDOW DEFOGGER SWITCH) Check rear window defogger operate. C YES >> Replace multifunction switch (rear window defogger switch). Refer to AV-773, "Removal and D NO >> Check rear window defogger system. Refer to DEF-3, "Work Flow" WITHOUT BOSE AUDIO SYSTEM Е 1. CHECK A/C CONTROL UNIT (REAR WINDOW DEFOGGER SWITCH) Check rear window defogger operate. F YES >> Replace A/C control unit (rear window defogger switch). Refer to VTL-21, "Removal and Installa->> Check rear window defogger system. Refer to DEF-3, "Work Flow" NO Н K DEF M Ν

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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. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS 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".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

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.

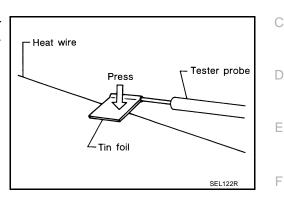
ON-VEHICLE REPAIR

FILAMENT

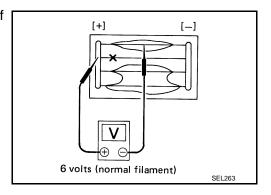
Inspection and Repair

INSPECTION

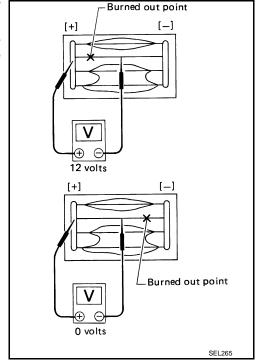
1. When measuring voltage, wrap tin foil around the top of the negative probe. Then press the foil against the wire with your finger.



Attach probe circuit tester (in Volt range) to middle portion of each filament.



- If a filament is burned out, circuit tester registers 0 or battery voltage.
- To locate burned out point, move probe to left and right along filament. Test needle will swing abruptly when probe passes the point.



REPAIR

REPAIR EQUIPMENT

• Conductive silver composition (Dupont No. 4817 or equivalent)

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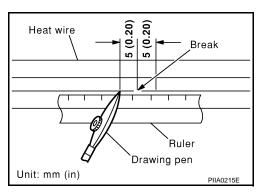
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< ON-VEHICLE REPAIR >

- Ruler 30 cm (11.8 in) long
- Drawing pen
- Heat gun
- Alcohol
- Cloth

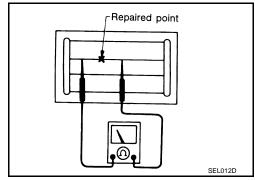
REPAIRING PROCEDURE

- Wipe broken heat wire and its surrounding area clean with a cloth dampened in alcohol.
- 2. Apply a small amount of conductive silver composition to tip of drawing pen.
 - Shake silver composition container before use.
- Place ruler on glass along broken line. Deposit conductive silver composition on break with drawing pen. Slightly overlap existing heat wire on both sides [preferably 5 mm (0.20 in)] of the break.



4. After repair has been completed, check repaired wire for continuity. This check should be conducted 10 minutes after silver composition is deposited.

Do not touch repaired area while test is being conducted.



 Apply a constant stream of hot air directly to the repaired area for approximately 20 minutes with a heat gun. A minimum distance of 3 cm (1.2 in) should be kept between repaired area and hot air outlet.

If a heat gun is not available, let the repaired area dry for 24 hours.

