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DIAGNOSIS AND REPAIR WORK FLOW

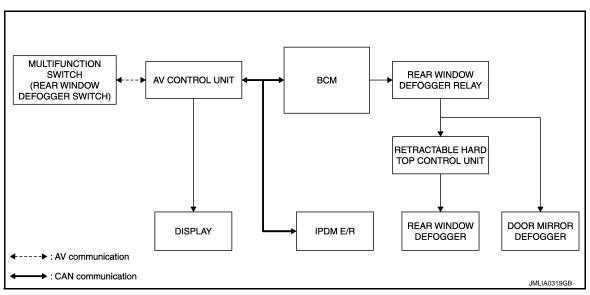
< BASIC INSPECTION >

BASIC INSPECTION Α DIAGNOSIS AND REPAIR WORK FLOW Work Flow INFOID:0000000008155792 **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. Is any DTC detected? F YES >> Refer to BCS-73, "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 NO >> GO TO 4. Р

SYSTEM DESCRIPTION

REAR WINDOW DEFOGGER SYSTEM

System Diagram INFOID:00000008155793



System Description

INFOID:0000000008155794

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 transmit rear window defogger ON signal to IPDM E/R via CAN communication when rear window defogger switch signal is received.
- Door mirror defogger (with mirror defogger) are supplied with power and operate when rear window defogger relay turns ON.
- Rear window defogger relay sends power supply to retractable hard top control unit.
- Retractable hard top control unit detects roof state and controls rear window defogger operate.
- AV control unit transmit rear window defogger control signal to multifunction switch (rear window defogger switch) via AV communication.
- IPDM E/R transmits rear window defogger control signal to AV control unit via CAN communication.

Timer function

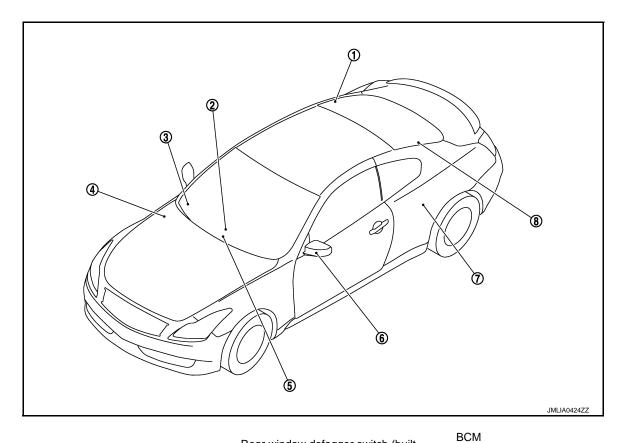
- BCM turns rear window defogger relay ON for approximately 15 minutes when rear window defogger switch is turned ON. It makes rear window defogger and door mirror defogger (with mirror defogger) operate.
- Timer is canceled after pressing rear window defogger switch again during timer operation. Then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

REAR WINDOW DEFOGGER SYSTEM

< SYSTEM DESCRIPTION >

Component Parts Location

INFOID:0000000008155795



1. Rear window defogger connector

2. Rear window defogger switch (builtin multifunction switch)

Location"

Refer to BCS-6, "Component Parts

IPDM E/R

Refer to <u>PCS-4, "Component Parts Lo-cation"</u>

AV control unit

6. Door mirror (driver side) (door mirror defogger)

Retractable hard top control unit

7. Refer to <u>RF-15, "Component Parts Lo-cation"</u> 8.

Rear window defogger connector

Component Description

INFOID:0000000008155796

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 ON 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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Revision: 2012 July DEF-5 2013 G Convertible

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000008815321

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

x: Applicable item

System	Sub system selection item	Diagnosis mode		
		Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp timer	INT LAMP	×	×	×
_	MULTI REMOTE ENT*1			
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×* ²	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
_	AIR CONDITONER*1			
Intelligent Key system Engine start system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	ВСМ	×		
IVIS - NATS	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Trunk lid open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	AIR PRESSURE MONITOR	×	×	×

NOTE:

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

FREEZE FRAME DATA (FFD)

Revision: 2012 July DEF-6 2013 G Convertible

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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

km/h km	Vehicle speed of the mo	ment a particular DTC is detected		
km	Vehicle speed of the moment a particular DTC is detected			
	Total mileage (Odometer value) of the moment a particular DTC is detected		Total mileage (Odometer value) of the moment a particular DTC is detected	
SLEEP>LOCK SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK"*)		
		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)		
LOCK>ACC		While turning power supply position from "LOCK"* to "ACC"		
ACC>ON		While turning power supply position from "ACC" to "IGN"		
RUN>ACC		While turning power supply position from "RUN" to "ACC" (Except emergency stop operation)		
CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)		
RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emergency stop operation)		
ACC>OFF	_	While turning power supply position from "ACC" to "OFF"		
OFF>LOCK	, .	While turning power supply position from "OFF" to "LOCK"*		
OFF>ACC	particular DTC is de-	While turning power supply position from "OFF" to "ACC"		
ON>CRANK	tected.	While turning power supply position from "IGN" to "CRANKING"		
OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode		
LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK"*.) to low power consumption mode		
LOCK		Power supply position is "LOCK"*		
OFF		Power supply position is "OFF" (Ignition switch OFF)		
ACC		Power supply position is "ACC" (Ignition switch ACC)		
ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)		
ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)		
CRANKING		Power supply position is "CRANKING" (At engine cranking)		
0 - 39	The number is 0 wherThe number increases whenever ignition swit	at ignition switch is turned ON after DTC is detected a malfunction is detected now. It is like $1 \rightarrow 2 \rightarrow 338 \rightarrow 39$ after returning to the normal condition to the OFF \rightarrow ON. If 39 until the self-diagnosis results are erased if it is over 39.		
	LOCK>ACC ACC>ON RUN>ACC CRANK>RUN RUN>URGENT ACC>OFF OFF>LOCK OFF>ACC ON>CRANK OFF>SLEEP LOCK OFF ACC ON ENGINE RUN CRANKING	LOCK>ACC ACC>ON RUN>ACC CRANK>RUN RUN>URGENT ACC>OFF OFF>LOCK OFF>ACC ON>CRANK OFF>SLEEP LOCK>SLEEP LOCK OFF ACC ON ENGINE RUN CRANKING The number of times that • The number is 0 where • The number increases whenever ignition swife • The number of swife • The number increases whenever ignition swife		

- *: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position (A/T models), and any of the following conditions are met.
- · Closing door
- · Opening door
- · Door is locked using door request switch
- · Door is locked using Intelligent Key

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

REAR WINDOW DEFOGGER

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

INFOID:0000000008155798

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Data monitor

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

NOTE:

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

Monitor Item	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	Rear window defogger operates when "ON" on CONSULT screen is touched.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE): Diagnosis Procedure

INFOID:0000000008155799

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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	Battery power supply	I(40A)
11	Dattery power supply	10(10A)

Is the inspection result normal?

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

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM			Continuity	
Connector Terminal		Ground	Continuity	
M119	13		Existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

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REAR WINDOW DEFOGGER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER SWITCH

Description INFOID:000000008155800

- 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:0000000008155801

1. CHECK REAR WINDOW DEFOGGER SWITCH FUNCTION

Check that the indicator lamp of rear window defogger illuminates when rear window defogger switch ON. <u>Is the inspection result normal?</u>

YES >> Rear window defogger switch function is OK.

NO >> Refer to <u>DEF-10</u>, "<u>Diagnosis Procedure</u>"

Diagnosis Procedure

INFOID:0000000008155802

1. CHECK MULTIFUNCTION SWITCH (REAR WINDOW DEFOGGER SWITCH)

Does multifunction switch operate normally?

Base audio without navigation. Refer to AV-18. "On Board Diagnosis Function".

Bose audio without navigation. Refer to AV-127, "On Board Diagnosis Function".

Bose audio with navigation. Refer to AV-262, "On Board Diagnosis Function".

Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace multifunction switch (rear window defogger switch). Refer to AV-107, "Removal and Installation"

REAR WINDOW DEFOGGER RELAY

< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER RELAY

Description

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

Component Function Check

1. CHECK REAR WINDOW DEFOGGER RELAY POWER SUPPLY CIRCUIT

- 1. Perform Active Test ("REAR DEFOGGER") with CONSULT.
- 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-11</u>. "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK FUSE

- 1. Turn ignition switch off.
- 2. Check the following.
- 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 CIRCUIT 1

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

BCI	М	Ground	Condition		Voltage (V)
Connector	Terminal	Giodila			(Approx.)
M123	151	Ground	Rear window defogger	ON	0
101123	151	Ground	switch	OFF	Battery voltage

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 3.

3.check rear window defogger circuit ${\scriptstyle 2}$

- Turn ignition switch OFF.
- 2. Disconnect BCM connector and rear window defogger relay.
- Check continuity between BCM harness connector and fuse block (J/B) harness connector.

ВСМ		Fuse block (J/B)	Continuity	
Connector	Terminal	Connector Terminal		Continuity
M123	151	M2	4B	Existed

4. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	
M123	151		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

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REAR WINDOW DEFOGGER RELAY

< DTC/CIRCUIT DIAGNOSIS >

4. CHECK REAR WINDOW DEFOGGER RELAY

Check rear window defogger relay.

Refer to DEF-12, "Component Inspection"

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace rear window defogger relay.

5. CHECK FUSE BLOCK (J/B)

- 1. Install the rear window defogger relay.
- 2. Turn ignition switch ON.
- 3. Check voltage between fuse block (J/B) (fuse block side) and ground.

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

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace fuse block (J/B).

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-42, "Intermittent Incident"

>> INSPECTION END.

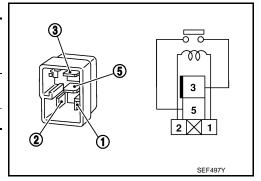
Component Inspection

INFOID:0000000008155806

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			
Rear window defogger 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.

RETRACTABLE HARD TOP CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

RETRACTABLE HARD TOP CONTROL UNIT

Description INFOID:000000000155807

Retractable hard top control unit detects roof state and controls rear defogger.

Component Function Check

INFOID:0000000008155808

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1. CHECK REAR WINDOW DEFOGGER

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

Is the inspection result normal?

YES >> Retractable hard top control unit is OK.

NO >> Refer to <u>DEF-13</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000008155809

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 RETRACTABLE HARD TOP CONTROL UNIT CIRCUIT

- 1. Disconnect retractable hard top control unit connector and fuse block (J/B) connector.
- 2. Check continuity between retractable hard top control unit and fuse block (J/B) harness connector.

Fuse block (J/B)		Retractable hard top control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B6	10G	B84	70	Existed
ВО	11G	D04	69	Existed

3. Check continuity between retractable hard top control unit and ground.

Fuse block (J/B)			Continuity
Connector	Terminal	Ground	Continuity
B6	10G	Ground	Existed
БО	11G		Existeu

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness and ground.

3.CHECK FUSE BLOCK (J/B)

- Turn ignition switch ON.
- 2. Check voltage between fuse block (J/B) (fuse block side) and ground.

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RETRACTABLE HARD TOP CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

`	(+) Fuse block (J/B)		Condition		Voltage (V) (Approx.)
Connector	Terminal				, , ,
	10G	- Ground	Rear window defogger switch	ON	Battery voltage
В6	100			OFF	0
00	11G			ON	Battery voltage
				OFF	0

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace fuse block (J/B).

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-42, "Intermittent Incident"

>> INSPECTION END.

REAR WINDOW DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER

Description INFOID:0000000008155810

Heats the heating wire with the power supply from the retractable hard top control unit to prevent the rear window from fogging up.

Component Function Check

INFOID:0000000008155811

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1. CHECK REAR WINDOW DEFOGGER

- 1. Perform Active Test ("REAR DEFOGGER") with CONSULT.
- 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-15</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000008155812

1. CHECK POWER SUPPLY CIRCUIT

- Turn ignition switch ON.
- Check voltage between rear window defogger connector and ground.

(+) Rear window defogger		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(Approx.)
B658	1	Ground	Rear window defogger ON		Battery voltage
5030	'	switch		OFF	0

Is the inspection result normal

YES >> GO TO 2.

NO >> GO TO 3.

2. CHECK GROUND CIRCUIT

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

Rear window defo		Continuity	
Connector	Terminal	Ground	Continuity
B659	2		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness and ground.

3.CHECK REAR WINDOW DEFOGGER CIRCUIT 1

- Turn ignition switch OFF.
- 2. Disconnect retractable hard top control unit connector and rear window defogger connector.
- Check continuity between retractable hard top control unit and rear window defogger harness connector.

Retractable hard top control unit		Rear window defogger		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B84	71	B658	1	Existed
D04	72	B659	I	

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REAR WINDOW DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

4. Check continuity between retractable hard top control unit and ground.

Retractable hard top cont		Continuity		
Connector	Terminal	Ground -	Continuity	
B84	71		Existed	
B04	72		⊨xisted	

Is the inspection result normal?

YES >> Replace retractable hard top control unit. Refer to RF-297, "Removal and Installation".

NO >> Repair or replace harness and ground.

4. CHECK FILAMENT

Check filament.

Refer to DEF-16, "Component Inspection"

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair filament.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-42, "Intermittent Incident"

>> INSPECTION END.

Component Inspection

INFOID:0000000008155813

1. CHECK FILAMENT

Check the filament for damage or blown.

Refer to DEF-77, "Inspection and Repair"

Is the inspection result normal?

YES >> INSPECTION END.

NO >> Repair filament.

DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

DOOR MIRROR DEFOGGER

Description INFOID:0000000008155814

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.
- 2. 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 the following.

- 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) (fuse block side) and ground.

	(+) Fuse block (J/B)		Condition		Voltage (V) (Approx.)
Connector	Terminal				(11 /
	9C M3	Ground	Rear window de- fogger switch	ON	Battery voltage
MO				OFF	0
IVIO				ON	Battery voltage
				OFF	0

Is the inspection result normal?

YES >> INSPECTION END.

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

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INFOID:0000000008155816

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Revision: 2012 July DEF-17 2013 G Convertible

DRIVER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

DRIVER SIDE DOOR MIRROR DEFOGGER

Description INFOID:000000008155817

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:0000000008155818

1. CHECK DRIVER SIDE DOOR MIRROR DEFOGGER

- 1. Perform Active Test ("REAR DEFOGGER") with CONSULT.
- 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:0000000008155819

1. CHECK POWER SUPPLY CIRCUIT

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

(+) Door mirror (driver side)		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				,
D3	12 4 Group	Ground Rear window de-		ON	Battery voltage
טט	4	Giouria	fogger switch	OFF	0

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

2.CHECK FUSE BLOCK (J/B) OUTPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect fuse block (J/B) connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between fuse block (J/B) harness connector and ground.

(+) Fuse block (J/B)		(-)	Con	Condition	
Connector	Terminal				(Approx.)
	10C	Ground Rear window do		ON	Battery voltage
IVIO	100	Giodila	fogger switch	OFF	0

Is the inspection result normal?

YES >> GO TO 3.

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

3.CHECK DRIVER SIDE DOOR MIRROR DEFOGGER CIRCUIT

- 1. Turn ignition switch OFF.
- Check continuity between fuse block (J/B) harness connector and door mirror (driver side) harness connector.

DRIVER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

Fuse block (J/B)		Door mi	Continuity		
Connector	Terminal	Connector	Terminal	Continuity	
M3	10C	D3	4	Existed	

3. Check continuity between fuse block (J/B) harness connector and ground.

Fuse bloo	ck (J/B)	Ground	Continuity	
Connector	Terminal	Glound	Continuity	
M3	10C	Ground	Not existed	

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

4. CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.

2. Check continuity between door mirror (driver side) harness connector and ground.

Door mirror (driver side)	Ground	Continuity	
Connector	Connector Terminal		Continuity	
D3	8	Ground	Existed	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. 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 6.

NO >> Replace door mirror (driver side). Refer to MIR-44, "DOOR MIRROR ASSEMBLY: Removal and Installation"

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-42, "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.
- Check continuity between door mirror terminals.

Door mirror	Continuity		
Connector	Teri	minal	Continuity
D3	4	8	Existed

Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace door mirror (driver side). Refer to MIR-44, "DOOR MIRROR ASSEMBLY: Removal and Installation"

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PASSENGER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE DOOR MIRROR DEFOGGER

Description INFOID:000000008155821

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:0000000008155822

1. CHECK PASSENGER SIDE DOOR MIRROR DEFOGGER

- 1. Perform Active Test ("REAR DEFOGGER") with CONSULT.
- 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:0000000008155823

1. CHECK POWER SUPPLY CIRCUIT

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

(+) Door mirror (Passenger side)		(-) Conc		dition	Voltage (V) (Approx.)	
Connector	Terminal					
D33	4 Ground	1 (Fround	Rear window de-	ON	Battery voltage	
D33		Ground	fogger switch	OFF	0	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

2.CHECK FUSE BLOCK (J/B) OUTPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect fuse block (J/B) connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between fuse block (J/B) harness connector and ground.

(+)			Condition		\/altaga (\/)	
Fuse block (J/B)		(-)			Voltage (V) (Approx.)	
Connector	Terminal					
M3	9C Ground	M3 9C Ground	Ground	Rear window de-	ON	Battery voltage
- IVIO	90	Ground	fogger switch	OFF	0	

Is the inspection result normal?

YES >> GO TO 3.

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

3. CHECK PASSENGER SIDE DOOR MIRROR DEFOGGER

- 1. Turn ignition switch OFF.
- Check continuity between fuse block (J/B) harness connector and door mirror (passenger side) harness connector.

PASSENGER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

Fuse block (J/B)		Door mir	ror (passenger side)	Continuity
Connector	Terminal	Connector Terminal		Continuity
М3	9C	D33	4	Existed

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

Fuse block (J/B)	Ground	Continuity		
Connector	Connector Terminal		Continuity	
M3	9C	Ground	Not existed	

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

4. CHECK GROUND CIRCUIT

Turn ignition switch OFF.

Check continuity between door mirror (passenger side) harness connector and ground.

Door mirror (passenge	Ground	Continuity	
Connector	Terminal	Ground	Continuity
D33	8	Ground	Existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. 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 6.

>> Replace door mirror (passenger side).Refer to MIR-44, "DOOR MIRROR ASSEMBLY: Removal NO and Installation"

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-42, "Intermittent Incident"

>> INSPECTION END.

Component Inspection

1. CHECK PASSENGER DOOR MIRROR DEFOGGER

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

Door mirror (pa	Continuity		
Connector	Terr	minal	Continuity
D33	4 8		Existed

Is the inspection result normal?

YES >> INSPECTION END.

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NO >> Replace door mirror (passenger side). Refer to MIR-44, "DOOR MIRROR ASSEMBLY: Removal and Installation".

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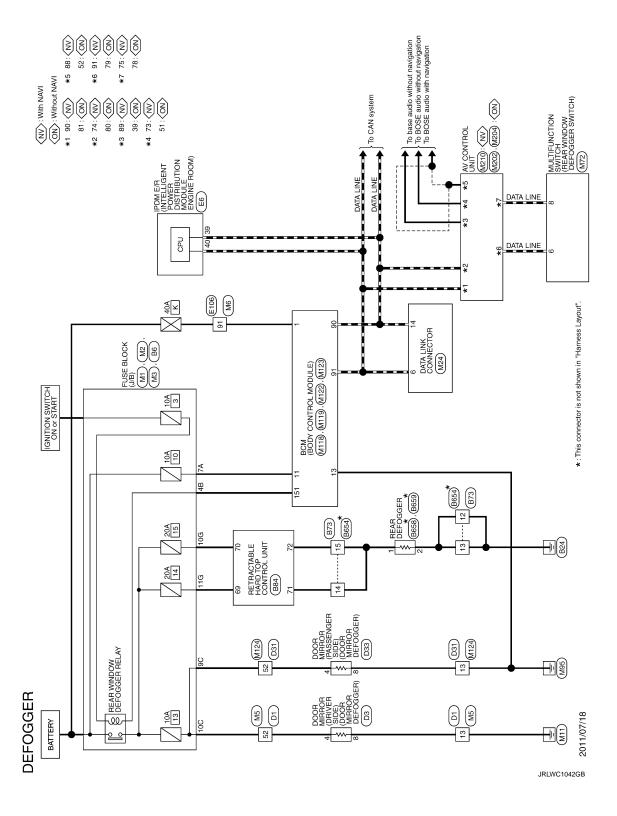
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REAR WINDOW DEFOGGER SYSTEM

Wiring Diagram - DEFOGGER -

For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".

INFOID:0000000008155825



< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value INFOID:0000000008815301

VALUES ON THE DIAGNOSIS TOOL

NOTE:

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

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
FK WIFEK FI	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
FR WIPER LOW	Front wiper switch LO	On
FR WASHER SW	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 IN	Front wiper switch INT/AUTO	On
ED WIDER STOR	Front wiper is not in STOP position	Off
FR WIPER STOP	Front wiper is in STOP position	On
INT VOLUME	Wiper volume dial is in a dial position 1 - 7	Wiper volume dial posi- tion
TUDNI CIONIAL D	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
TUDNI OLONIAL 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
HI BEAM SW	Other than lighting switch HI	Off
	Lighting switch HI	On
	Other than lighting switch 2ND	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
LIEAD LAMB CW/ 2	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
AUTO LIGHT SW	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
ED EOC CW	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
DOOD SW AS	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On

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Monitor Item	Condition	Value/Status					
DOOR SW-RR	NOTE: The item is indicated, but not monitored.	Off					
DOOR SW-RL	NOTE: The item is indicated, but not monitored.	Off					
DOOR SW-BK	NOTE: The item is indicated, but not monitored.	Off					
CDL LOCK SW	Other than power door lock switch LOCK	Off					
CDL LOCK SW	Power door lock switch LOCK						
CDL LINII OCK CW	Other than power door lock switch UNLOCK	Off					
CDL UNLOCK SW	Power door lock switch UNLOCK	On					
KEY OVI TR OW	Other than driver door key cylinder LOCK position	Off					
KEY CYL LK-SVV	EY CYL LK-SW Other than driver door key cylinder LOCK position Driver door key cylinder LOCK position						
KEY OVELINEOW	Other than driver door key cylinder UNLOCK position	Off					
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On					
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off					
114.74 DD 014/	Hazard switch is OFF	Off					
HAZARD SW	Hazard switch is ON	On					
REAR DEF SW	NOTE: The item is indicated, but not monitored.	Off					
TD CANCEL CW	Trunk lid opener cancel switch OFF	Off					
TR CANCEL SW	Trunk lid opener cancel switch ON	On					
TD/DD ODEN OW	Trunk lid opener switch OFF	Off					
TR/BD OPEN SW	While the trunk lid opener switch is turned ON	On					
TONIC/LIAT MANITO	Trunk lid closed	Off					
TRNK/HAT MNTR	Trunk lid opened	On					
REVERSE SW	NOTE: The item is indicated, but not monitored.	Off					
DIVE I COV	LOCK button of the Intelligent Key is not pressed	Off					
RKE-LOCK	LOCK button of the Intelligent Key is pressed	On					
DIVE LINII OOK	UNLOCK button of the Intelligent Key is not pressed	Off					
RKE-UNLOCK	UNLOCK button of the Intelligent Key is pressed	On					
DVE TD/DD	TRUNK OPEN button of the Intelligent Key is not pressed	Off					
RKE-TR/BD	TRUNK OPEN button of the Intelligent Key is pressed	On					
DICE DANIC	PANIC button of the Intelligent Key is not pressed	Off					
RKE-PANIC	PANIC button of the Intelligent Key is pressed	On					
DVE DAM ODEN	UNLOCK button of the Intelligent Key is not pressed	Off					
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is pressed and held	On					
RKE-MODE CHG	LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously	Off					
	LOCK/UNLOCK button of the Intelligent Key is pressed and held simultaneously	On					
ODTICAL SENSOR	Bright outside of the vehicle	Close to 5 V					
OPTICAL SENSOR	Dark outside of the vehicle	Close to 0 V					
DEO CW 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					

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status				
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off				
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off				
REQ SW -BD/TR Trun	Trunk lid opener request switch is not pressed	Off				
	Trunk lid opener request switch is pressed	On				
DIJOH OW	Push-button ignition switch (push switch) is not pressed	Off				
PUSH SW	Push-button ignition switch (push switch) is pressed	On				
IGN RLY2 -F/B	NOTE: The item is indicated, but not monitored.	Off				
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off				
01.1101.1.014	The clutch pedal is not depressed	Off				
CLUCH SW	The clutch pedal is depressed	On				
	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				
DDAKE OM O	The brake pedal is not depressed	Off				
BRAKE SW 2	The brake pedal is depressed	On				
DETE/CANOL CM	Selector lever in P position (Except M/T models) The clutch pedal is depressed (M/T models)					
DETE/CANCL SW	 Selector lever in any position other than P (Except M/T models) The clutch pedal is not depressed (M/T models) 	On				
CET DAI/ALC\A/	Selector lever in any position other than P and N	Off				
SFT PN/N SW	Selector lever in P or N position	On				
S/L -LOCK	NOTE: The item is indicated, but not monitored.	Off				
S/L -UNLOCK	NOTE: The item is indicated, but not monitored.	Off				
S/L RELAY-F/B	NOTE: The item is indicated, but not monitored.	Off				
UNLK SEN -DR	Driver door is unlocked	Off				
ONEN JEN -DK	Driver door is locked	On				
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off				
	Push-button ignition switch (push-switch) is pressed	On				
IGN RLY1 -F/B	Ignition switch in OFF or ACC position	Off				
	Ignition switch in ON position	On				
DETE SW -IPDM	Selector lever in any position other than P	Off				
DETE GVV -IF DIVI	Selector lever in P position	On				
SFT PN -IPDM	 Selector lever in any position other than P and N (Except M/T models) The clutch pedal is not depressed (M/T models) 	Off				
OI I IN THE DIVI	Selector lever in P or N position The clutch pedal is depressed	On				
SFT P -MET	Selector lever in any position other than P	Off				
OI I F -IVIE I	Selector lever in P position	On				
SET N MET	Selector lever in any position other than N	Off				
SFT N -MET	Selector lever in N position	On				

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Monitor Item	Condition	Value/Status
	Engine stopped	Stop
ENGINE STATE	While the engine stalls	Stall
LINGINE STATE	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	NOTE: The item is indicated, but not monitored.	Off
S/L UNLK-IPDM	NOTE: The item is indicated, but not monitored.	Off
S/L RELAY-REQ	NOTE: The item is indicated, but not monitored.	Off
VEH SPEED 1	While driving	Equivalent to speed- ometer reading
VEH SPEED 2	While driving	Equivalent to speed- ometer reading
	Driver door is locked	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (60 seconds)	READY
	Driver door is unlocked	UNLOCK
	Passenger door is locked	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (60 seconds)	READY
	Passenger door is unlocked	UNLOCK
ID OK FLAG	Driver side door is open after ignition switch is turned OFF (Selector lever is in the P position except for M/T models)	Reset
	Ignition switch ON	Set
PRMT ENG STRT	The engine start is prohibited	Reset
FRIMI ENG STRT	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
KEY SW -SLOT	The Intelligent Key is not inserted into key slot	Off
RET SW -SLOT	The Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	_
CONFRM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
CONFRIVI ID ALL	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done
CONFIRM ID4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
CONFIRM 1D4	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done
OONEIDM IDO	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet
CONFIRM ID3	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
CONFIKIVI IDZ	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status				
CONFIRM ID1	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				
TP 4	The ID of fourth Intelligent Key is not registered to BCM	Yet				
1P 4	The ID of fourth Intelligent Key is registered to BCM					
TP 3	The ID of third Intelligent Key is not registered to BCM	Yet				
1173	The ID of third Intelligent Key is registered to BCM	Done				
TP 2	The ID of second Intelligent Key is not registered to BCM	Yet				
IP Z	The ID of second Intelligent Key is registered to BCM	Done				
TP 1	The ID of first Intelligent Key is not registered to BCM	Yet				
IP1	The ID of first Intelligent Key is registered to BCM	Done				
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire				
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire				
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire				
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire				
ID DECCT ELA	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 REGST FR1	ID of front RH tire transmitter is not registered	Yet				
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 DECOT DI 4	ID of rear LH tire transmitter is registered	Done				
ID REGST RL1	ID of rear LH tire transmitter is not registered	Yet				
MAADAIING LAND	Tire pressure indicator OFF	Off				
WARNING LAMP	Tire pressure indicator ON	On				
DUZZED	Tire pressure warning alarm is not sounding	Off				
BUZZER	Tire pressure warning alarm is sounding	On				

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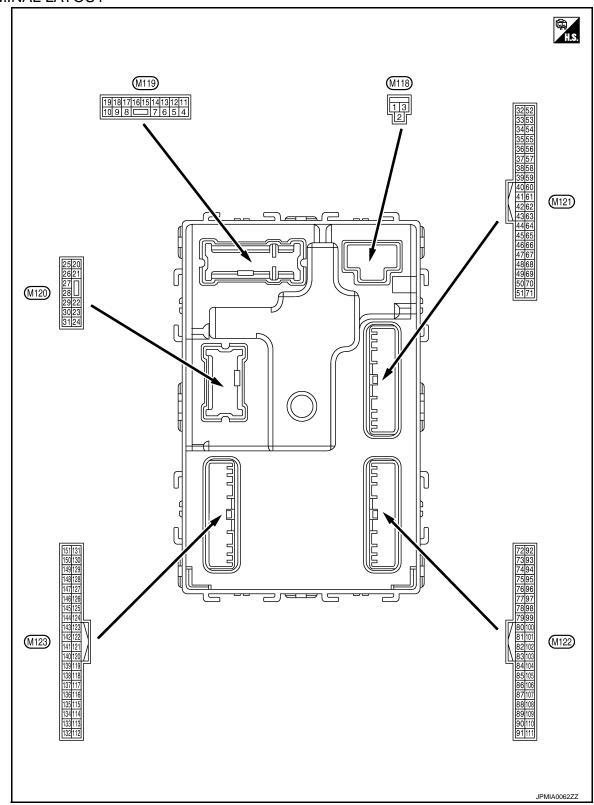
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TERMINAL LAYOUT



PHYSICAL VALUES

	Terminal No. Description (Wire color)			-	Value													
+	color)	Signal name	Input/ Output		Condition	(Approx.)												
1 (W)	Ground	Battery power supply	Input	Ignition switch (OFF	Battery voltage												
2 (Y)	Ground	P/W power supply (BAT)	Output	Ignition switch (OFF	12 V												
3 (BG)	Ground	P/W power supply (RAP)	Output	Ignition switch (ON	12 V												
					mp battery saver is activated. or room lamp power supply)	0 V												
4 (LG)	Ground	Interior room lamp power supply	Output	vated.	mp battery saver is not acti- erior room lamp power sup-	12 V												
5	Ground	Passenger door UN-	Output	Passenger	UNLOCK (Actuator is activated)	12 V												
(P)	Giound	LOCK	Output	door	Other than UNLOCK (Actuator is not activated)	0 V												
7	Ground	Step lamp	Output	Step lamp	ON	0 V												
(SB)	Oround	Step lamp	Output	Step lamp	OFF	12 V												
8	Ground	All doors, fuel lid	Output	All doors, fuel	LOCK (Actuator is activated)	12 V												
(V)	Ground	LOCK	lid	Caipai	lid	Other than LOCK (Actuator is not activated)	0 V											
9	Ground	Driver door, fuel lid		Driver door,	UNLOCK (Actuator is activated)	12 V												
(G)	Giodila	UNLOCK		- Capat	Jaipat	Jaipat	Jaipat	Jaiput	Output	Cutput	Cutput		Output	Carpar	Output	Output	fuel lid	Other than UNLOCK (Actuator is not activated)
11 (GR)	Ground	Battery power supply	Input	Ignition switch (OFF	Battery voltage												
13 (B)	Ground	Ground	_	Ignition switch (ON	0 V												
					OFF	0 V												
14 (W)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position. (V) 10 0 2 ms JSNIA0010GB												
15 (BG)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage												
(טט)					ACC	0 V												

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
17 (BR)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch OFF Turn signal switch RH	0 V (V) 15 10 5 11 1 s PKID0926E 6.5 V
					Turn signal switch OFF	0 V
18 (BG)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
19	Ground	Interior room lamp	Output	Interior room	OFF	12 V
(V)	Ground	control	Output	lamp	ON	0 V
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch OFF Turn signal switch RH	0 V (V) 15 10 1
23	Ground	Trunk lid open	Output	Trunk lid	OPEN (Trunk lid opener actuator is activated)	12 V
(Y)	Ground	Trunk na open	Odipui	Trunk nu	Other than OPEN (Trunk lid opener actuator is not activated)	0 V
					Turn signal switch OFF	0 V
25 (Y)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
30		T	0	Trunk room	ON	0 V
(P)	Ground	Trunk room lamp	Output	lamp	OFF	12 V

	nal No.	Description	1		0 1111	Value	А
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	
34	Ground	Trunk room antenna	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 11 1 s JMKIA0062GB	B C
(SB)	Glound	(-)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	E F G
35	Ground	Trunk room antenna	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	Н
(V)	Clound	(+)	Сири	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	J K
38	0	Rear bumper anten-	0.1.1	When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	M
(B)	Ground	na (–)	Output	quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	O

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
39	Ground	Cround Rear bumper anten-	Output	When the trunk lid opener request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(W)	Glodina	na (+)	Gupur		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
47 (Y)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC	12 V 0 V
50 (G)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (Trunk lid is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
				-	ON (Trunk lid is opened)	0 V
		ound Starter relay control	Output	Ignition switch ON (A/T models) Ignition switch ON (M/T models)	When selector lever is in P or N position	12 V
52	Cround				When selector lever is not in P or N position	0 V
(BR)	Ground				When the clutch pedal is depressed	Battery voltage
				els)	When the clutch pedal is not depressed	0 V
60	Ground	Push-button ignition	Input	Push-button ig- nition switch	Pressed	0 V
(BR)		switch (Push switch)	•	(push switch)	Not pressed	Battery voltage
					ON (Pressed)	0 V
61 (SB)	Ground	Trunk lid opener request switch	Input	Trunk lid open- er request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V
64		Intelligent Key warn-		Intelligent Key	Sounding	0 V
(G)	Ground	ing buzzer (Engine room)	Output	warning buzzer (Engine room)	Not sounding	12 V

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description			0 111	Value								
+		Signal name	Input/ Output		Condition	(Approx.)								
					Pressed	0 V								
67 (GR)	Ground	Trunk lid opener switch	Input	Trunk lid open- er switch	Not pressed	15 10 5 0 10 ms 10 ms JPMIA0011GB								
					When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s								
72 (R)	Ground	Room antenna 2 (–) (Center console)	Output	Output	ut Ignition switch	Ignition switch	Ignition switch	Output Ignition switch	Output Ignition switch	tput Ignition switch OFF				
(**)												OFF		
					When Intelligent Key is in the passenger compartment	(V) 15 10 5 0								
73	Ground	Room antenna 2 (+)	Outout	Ignition switch		JMKIA0062GB								
(G)	Ground	(Center console) OFF		OFF		(V)								
					When Intelligent Key is not in the passenger compartment	150								
						JMKIA0063GB								

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Terminal No. (Wire color)		Description				Value	
+ (VVire	color)	Signal name	Input/ Output	Condition		(Approx.)	
74	Ground	Passenger door antenna (-)	Output	When the passenger 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 JMKIA0062GB	
(SB)					When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
75	Ground	Passenger door antenna (+)	Output	When the passenger 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 JMKIA0062GB	
(BR)					When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
76	Ground	Driver door antenna (-)	Output	When the driver door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
(V)					When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	

Terminal No. Description (Wire color)				O Province	Value	
+	- COIOF)	Signal name	Input/ Output		Condition	(Approx.)
77		Driver door antenna		When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(LG)	Ground	(+)	Output	t switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
78	0	Room antenna 1 (–)	0.4-4	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(Y)	Ground	(Instrument panel)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB
79	Ground	Room antenna 1 (+)	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB
(BR)		(Instrument panel)	Cuput	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB

Terminal No. (Wire color)		Description				Value	
+		Signal name	Input/ Output	Condition		(Approx.)	
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	
81 (W)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	
82 (R)	Ground	Ignition relay [Fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V 12 V	
83 (Y)	Ground	Remote keyless entry receiver communication	Input/ Output	During waiting		(V) 15 10 5 1 ms	
(1)				When operating either button on the Intelligent Key		(V) 15 10 5 0 1 ms JMKIA0065GB	
87 (Y)	Ground	Combination switch INPUT 5	Input		All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	
				Combination switch	Front fog lamp switch ON (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB	
					Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 2 Wiper volume dial 6 Wiper volume dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB	

	nal No.	Description				Value	۸
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	B C
88	Ground	Combination switch	Input	Combination	Lighting switch HI (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	E
(BG)		INPUT 3		switch	Lighting switch 2ND (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB	G H
					Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 2 Wiper volume dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V	J K
90 (P)	Ground	CAN-L	Input/ Output		_	_	
91 (L)	Ground	CAN-H	Input/ Output		_	_	M
92 (LG)	Ground	Key slot illumination	Output	Key slot illumi- nation	OFF Blinking ON	12 V (V) 15 10 5 0 1 s JPMIA0015GB 6.5 V 0 V	N O P
93 (V)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated) ON	Battery voltage	

	nal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
95	Cround	ACC relevinentral	Outroit	Innition quitab	OFF	0 V
(BG)	Ground	ACC relay control	Output	ut Ignition switch	ACC or ON	12 V
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output		_	12 V
		Selector lever P posi-			P position	0 V
		tion switch (A/T models)		Selector lever	Any position other than P	12 V
99 (R)	Ground	ASCD clutch switch	Input	ASCD clutch	OFF (Clutch pedal is depressed)	0 V
		(M/T models)		switch	ON (Clutch pedal is not depressed)	12 V
		Passenger door request switch	Input	Passenger door request switch	ON (Pressed)	0 V
100 (Y)	Ground				OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016G
					ON (Pressed)	0 V
101 (P)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016G
102		Blower fan motor re-	0 1 1	120	OFF or ACC	0 V
(BG)	Ground	lay control	Output	Ignition switch	ON	12 V
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch (DFF	12 V

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Terminal No. Description (Wire color)				Value	
	Signal name	Input/ Output		Condition	(Approx.)
				All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
				Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V
107 (LG) Gro	ound Combination switch INPUT 1	Input	Combination switch (Wiper volume dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB
				Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V
				Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB

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	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
108 (R)	Ground	Combination switch	Input	Combination	Lighting switch AUTO (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB
(R)		INPUT 4		switch	Lighting switch 1ST (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB
					Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 5 Wiper volume dial 6	(V) 15 10 5 0 2 ms JPMIA0039GB

Terminal No. (Wire color) Description				Value		
(Wire +	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 1.3 V
109 (W)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper volume dial 4)	Lighting switch 2ND	(V) 15 10 5 2 ms JPMIA0036GB 1.3 V
					Front wiper switch INT/ AUTO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V
					ON	0 V
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB

Termir	nal No.	Description				
(Wire	color)	Signal name	Input/ Output		Condition	Value (Approx.)
112 (BR)	Ground	Rain sensor serial link	Input/ Output	Ignition switch (DN	(V) 15 10 5 0 10ms JPMIA0156GB 8.7 V
113	Ground	Optical sensor	Input	Ignition switch	When bright outside of the vehicle	Close to 5 V
(G)	Ground	Optical sensor	Input	ON	When dark outside of the vehicle	Close to 0 V
114	Ground	Clutch interlock	Input	Clutchinterlock switch	OFF (Clutch pedal is not depressed)	0 V
(R)	Ground	switch	input		ON (Clutch pedal is depressed)	Battery voltage
116 (SB)	Ground	Stop lamp switch 1	Input		-	Battery voltage
		Stop lamp switch 2 (Without ICC) Stop lamp switch 2 (With ICC)		Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
118	Ground		- Input		ON (Brake pedal is depressed)	Battery voltage
(BR)	Ground				h OFF (Brake pedal is not ICC brake hold relay OFF	0 V
				Stop lamp switc pressed) or ICC	h ON (Brake pedal is de- brake hold relay ON	Battery voltage
119 (GR)	Ground	Driver side door lock assembly (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V
					UNLOCK status (Unlock switch sensor ON)	0 V
121	Ground	Key slot switch	Input	slot	gent Key is inserted into key	12 V
(SB)		,	,	When the Intelli- key slot	gent Key is not inserted into	0 V
123	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
(W)				<u> </u>	ON	Battery voltage

	nal No. color)	Description	Т		0 89	Value
+	–	Signal name	Input/ Output		Condition	(Approx.)
124 (BG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) 15 10 5 0 JPMIA0011GB 11.8 V
					ON (Door open)	0 V
				Trunk lid open-		(V) 15 10 5
	Trunk lid opener can- cel switch	Input	er cancel switch	CANCEL	10 ms JPMIA0012GB	
					ON	0 V
						(V)
132 (LG)	Ground	Power window switch and R.H.T. control unit communication	and R.H.T. control		DN	15 10 5 0
						JPMIA0013GB 10.2 V
				Ignition switch C	1	12 V
				Push-button ig-	ON (Tail lamps OFF)	9.5 V NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level.
133 (Y)	Ground	Push-button ignition switch illumination	Output	nition switch il- lumination	ON (Tail lamps ON)	15 10 5 0
					OFF	JPMIA0159GB
134	Ground	LOCK indicator lamp	Output	LOCKindicator	OFF	Battery voltage
(LG)	Ground	LOOK indicator lamp	Output	lamp	ON	0 V
137 (BG)	Ground	Receiver and sensor ground	Input	Ignition switch C	ON	0 V
138	Ground	Receiver and sensor	Output	Ignition ewitch	OFF	0 V
(Y)	Ground	power supply	Output	Ignition switch	ACC or ON	5.0 V

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
139	Ground	Tire pressure receiv-	Input/	Input/ Ignition switch Output ON	Standby state	(V) 6 4 2 0
(L)		er communication	Output		When receiving the signal from the transmitter	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
140	Ground	Selector lever P/N	Input	Selector lever	P or N position	12 V
(GR)		position			Except P and N positions ON	0 V
141 (R)	Ground	Security indicator lamp	Output	Security indicator lamp	Blinking	(V) 15 10 5 0 11.3 V
142 (BR)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper volume dial 4)	OFF All switches OFF Lighting switch 1ST Lighting switch HI Lighting switch 2ND Turn signal switch RH	12 V 0 V
143 (V)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switches OFF (Wiper volume dial 4) Front wiper switch HI (Wiper volume dial 4) Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 2 Wiper volume dial 3 Wiper volume dial 6	0 V (V) 15 10 5 0 2 ms JPMIA0032GB

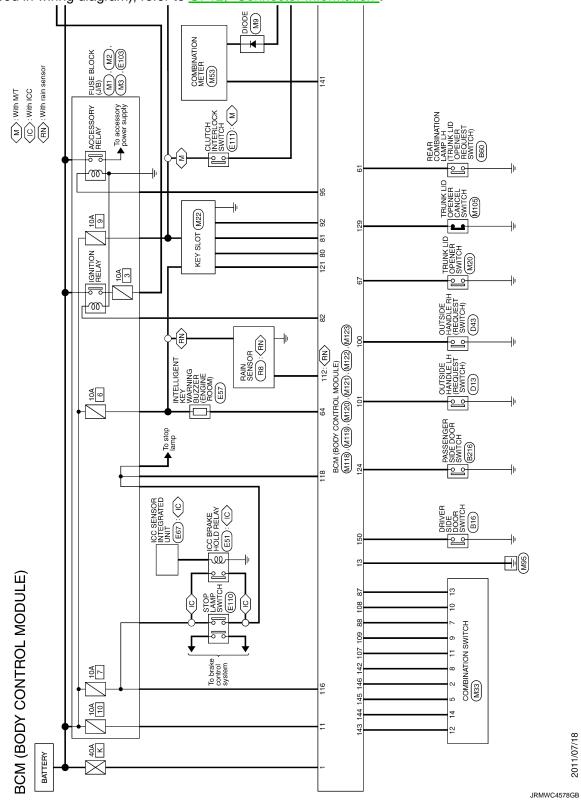
< ECU DIAGNOSIS INFORMATION >

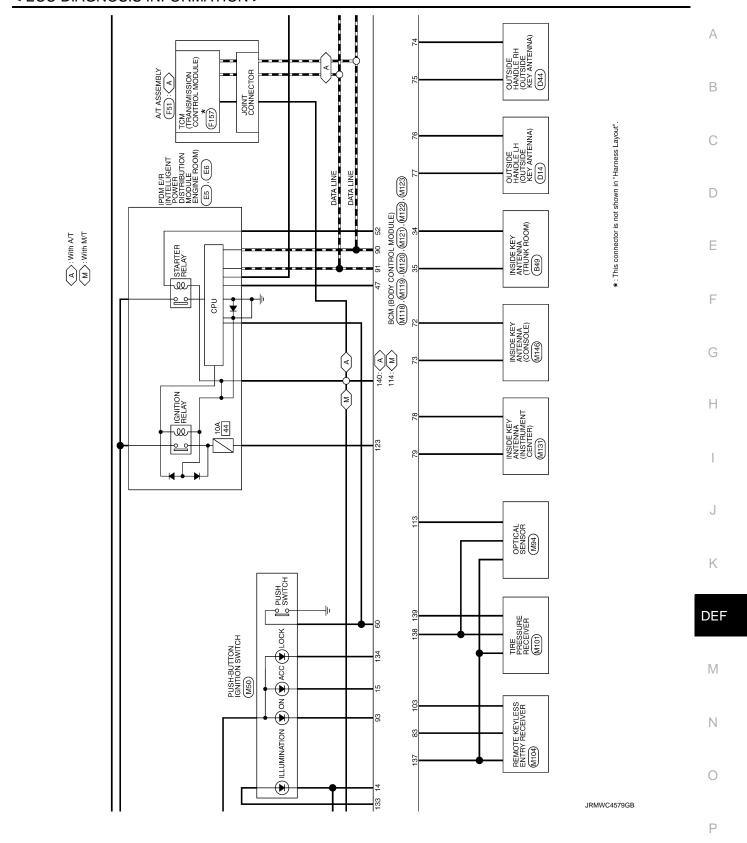
	nal No. color)	Description	1		0 10	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper volume dial 4)	0 V
					Front washer switch ON (Wiper volume dial 4)	(V)
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 5 Wiper volume dial 6	2 ms JPMIA0033GB
					All switches OFF	10.7 V
					Front wiper switch INT/ AUTO	(V)
145	Ground	Combination switch	Output	Combination switch	Front wiper switch LO	15 10 5
(L) Groun	2.34114	OUTPUT 3	23433	(Wiper volume dial 4)	Lighting switch AUTO	0 2 ms JPMIA0034GB
					All switches OFF	10.7 V
					Front fog lamp switch ON	
					Lighting switch 2ND	(V)
146		Combination switch	0 1 1	Combination switch	Lighting switch PASS	15
(SB)	Ground	OUTPUT 4	Output	(Wiper volume dial 4)	Turn signal switch LH	0 2 ms JPMIA0035GB
						10.7 V
150 (R)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB
						11.8 V
					ON (Door open)	0 V
151 (G)	Ground	Rear window defog- ger relay control	Output	Rear window	Active	0 V
(G)		ger relay control		defogger	Not activated	Battery voltage

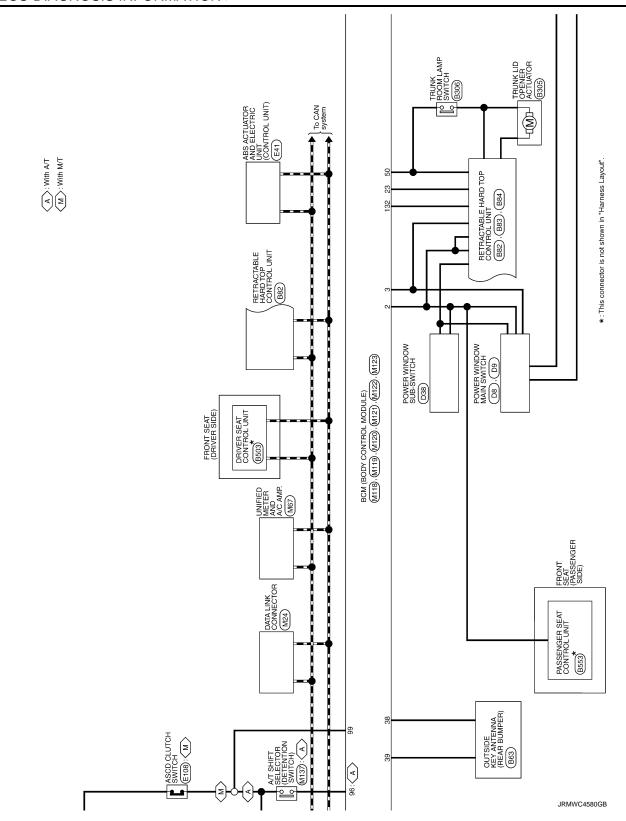
Wiring Diagram - BCM -

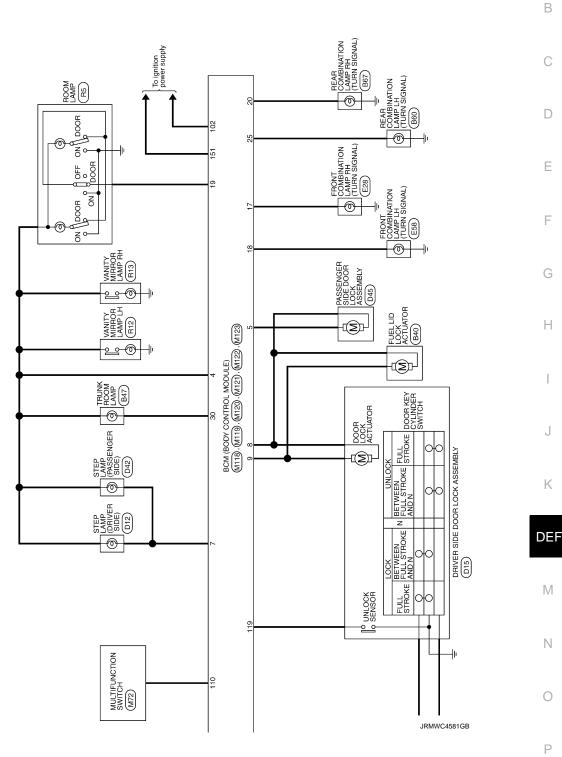
INFOID:0000000008815302

For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".









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Fail-safe INFOID:0000000008815303

FAIL-SAFE CONTROL BY DTC

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

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Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch $ON \rightarrow OFF$
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
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)
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (12 V) 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)
B2617: BCM	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E8: CLUTCH SW	Inhibit engine cranking	When any of the following BCM recognition conditions are fulfilled • Status 1 - Clutch switch signal (CAN from ECM): ON - Clutch interlock switch signal: OFF (0 V) • Status 2 - Clutch switch signal (CAN from ECM): OFF - Clutch interlock switch signal: ON (Battery voltage)

DTC Inspection Priority Chart

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

Priority	DTC
1	B2562: LOW VOLTAGE
2	U1000: CAN COMM U1010: CONTROL UNIT (CAN)
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI-SCANNING

< ECU DIAGNOSIS INFORMATION >

Priority	DTC	
	B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED	- A
	 B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION 	В
	 B2603: SHIFT POSI STATUS B2604: PNP/CLUTCH SW B2605: PNP/CLUTCH SW B2608: STARTER RELAY 	С
4	B2608: STARTER RELAT B260A: IGNITION RELAY B260F: ENG STATE SIG LOST B2614: BCM	D
	 B2615: BCM B2616: BCM B2617: BCM B2618: BCM 	Е
	 B261A: PUSH-BTN IGN SW B261E: VEHICLE TYPE B26E8: CLUTCH SW 	F
	B26EA: KEY REGISTRATION C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED	G
	 C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL 	Н
5	 C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RL 	I
	 C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RL C1734: CONTROL UNIT 	J
6	 B2621: INSIDE ANTENNA B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA 	K

DTC Index

NOTE:

The details of time display are as follows.

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

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to BCS-16, "COM-MON ITEM)".

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Refer- ence page
No DTC is detected. further testing may be required.	_	_	_	_	_
U1000: CAN COMM	_	_	_	_	BCS-36
U1010: CONTROL UNIT (CAN)	_	_	_	_	BCS-37
U0415: VEHICLE SPEED	_	_	_	_	BCS-38
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-40

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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	Refer- ence page
B2191: DIFFERENCE OF KEY	×	_	_	_	<u>SEC-43</u>
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-44
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-46
B2195: ANTI-SCANNING	×	_	_	_	SEC-47
B2553: IGNITION RELAY	_	×	_	_	PCS-47
B2555: STOP LAMP	_	×	_	_	<u>SEC-48</u>
B2556: PUSH-BTN IGN SW	_	×	×	_	<u>SEC-50</u>
B2557: VEHICLE SPEED	×	×	×	_	<u>SEC-52</u>
B2560: STARTER CONT RELAY	×	×	×	_	<u>SEC-53</u>
B2562: LOW VOLTAGE	_	×	_	_	BCS-39
B2601: SHIFT POSITION	×	×	×	_	<u>SEC-54</u>
B2602: SHIFT POSITION	×	×	×	_	<u>SEC-57</u>
B2603: SHIFT POSI STATUS	×	×	×	_	SEC-59
B2604: PNP/CLUTCH SW	×	×	×	_	SEC-62
B2605: PNP/CLUTCH SW	×	×	×	_	SEC-64
B2608: STARTER RELAY	×	×	×	_	SEC-66
B260A: IGNITION RELAY	×	×	×	_	PCS-49
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-68
B2614: BCM	_	×	×	_	PCS-51
B2615: BCM	_	×	×	_	PCS-54
B2616: BCM	_	×	×	_	PCS-57
B2617: BCM	×	×	×	_	SEC-72
B2618: BCM	×	×	×	_	PCS-60
B261A: PUSH-BTN IGN SW	_	×	×	_	PCS-61
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	SEC-74
B2621: INSIDE ANTENNA	_	×	_	_	DLK-61
B2622: INSIDE ANTENNA	_	×	_	_	DLK-63
B2623: INSIDE ANTENNA	_	×	_	_	DLK-65
B26E8: CLUTCH SW	×	×	×	_	<u>SEC-69</u>
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	SEC-71
C1704: LOW PRESSURE FL	_	_	_	×	
C1705: LOW PRESSURE FR	_	_	_	×	\/\/T_24
C1706: LOW PRESSURE RR	_	_	_	×	<u>WT-21</u>
C1707: LOW PRESSURE RL	_	_	_	×	
C1708: [NO DATA] FL	_	_	_	×	
C1709: [NO DATA] FR	_	_	_	×	<u>WT-23</u>
C1710: [NO DATA] RR			_	×	<u>vv 1-23</u>
C1711: [NO DATA] RL	_	_	_	×	

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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	Refer- ence page
C1716: [PRESSDATA ERR] FL	_	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	_	×	WT-26
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u> </u>
C1719: [PRESSDATA ERR] RL	_	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	_	×	<u>WT-27</u>
C1734: CONTROL UNIT	_	_	_	×	<u>WT-28</u>

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< ECU DIAGNOSIS INFORMATION >

RETRACTABLE HARD TOP CONTROL UNIT

Reference Value

VALUES ON THE DIAGNOSIS TOOL

NOTE:

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

CONSULT MONITOR ITEM

Monitor Item		Condition	Status/Value
		Lock	ON
LATCH LOCK SEN	State of roof latch	Other than above	OFF
		Roof latch lock sensor circuit is short	NG
		Operate	ON ⇔ OFF
LATCH STATE SEN	State of roof latch motor	Stop	ON or OFF
		Roof latch lock sensor circuit is short	NG
		Unlock is in operation	ON
LATCH OUT(ULK)	Operation of roof latch motor	Other than above	OFF
		Roof latch motor (UNLOCK) circuit is short	NG
		Lock is in operation	ON
LATCH OUT(LCK)	Operation of roof latch mo- tor	Other than above	OFF
		Roof latch motor (LOCK) circuit is short	NG
		Lock	0
LATCH VALUE	State of roof latch	Halfway position	1-77
		Unlock	78 or more
LATCH LIMIT SW	State of roof latch	Roof is fully close and roof latch is in LOCK	CLOSE
LATCH LIMIT 5W	State of roof fatch	Other than above	OPEN
		Initialization is not complete	NG
LATCH STATE	State of roof latch	LOCK	CLOSE
LAICH STATE	State of roof fatch	Halfway position	MID
		UNLOCK	OPEN
PS VALUE(DRAW)	State of parcel shelf	Тор	Retractable hard top ful- ly open state: 2246 Retractable hard top ful- ly closed state: 2220
		Bottom	1000
		Vertical	3190
PS VALUE(ROTA)	State of parcel shelf	Horizontal	Retractable hard top ful- ly open state: 1340 Retractable hard top ful- ly closed state: 1000
		Up operation is in operation	ON
PS OUT(UP)	Operation of parcel shelf	Other than above	OFF
		Parcel shelf (UP) circuit is short	NG
		DOWN operation is in operation	ON
PS OUT(DOWN)	Operation of parcel shelf	Other than above	OFF
		Parcel shelf (DOWN) circuit is short	NG

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Monitor Item		Condition	Status/Value
		Vertical operation is in operation	ON
PS OUT(VERT)	Operation of parcel shelf	Other than above	OFF
		Parcel shelf (VERTICAL) circuit is short	NG
		Horizontal operation is in operation	ON
PS OUT(HORI)	Operation of parcel shelf	Other than above	OFF
		Parcel shelf (HORIZONTAL) circuit is short	NG
DO OTATE (DD AMA)	2001	For the details, refer to RF-37, "PARCEL SHELF FUNCTION: System Description"	1-6
PS STATE(DRAW)	State of parcel shelf	State of parcel shelf status sensor (DRAW) is not recognized	NG
DO OTATE (DOTA)	State of a seal of 1/4	For the details, refer to RF-37, "PARCEL SHELF FUNCTION: System Description"	1-4
PS STATE(ROTA)	State of parcel shelf	State of parcel shelf status sensor (RO-TATE) is not recognized	NG
ROOF VALUE	Roof status sensor signal		0-1023
		Turning clockwise	ON
PUMP OUT(RH)	Operation of hydraulic pump motor	Other than above	OFF
	ραπρ ποιοι	Hydraulic pump motor (RH) circuit is short	NG
		Turning counterclockwise	ON
PUMP OUT(LH)	Operation of hydraulic pump motor	Other than above	OFF
	pump motor	Hydraulic pump motor (LH) circuit is short	NG
		Operate	ON
SWITCH VLV 1 OUT	Operation of switching valve 1	Stop	OFF
	vaive i	Switching valve 1 circuit is short	NG
		Operate	ON
SWITCH VLV 2 OUT	Operation of switching valve 2	Stop	OFF
	valve 2	Switching valve 2 circuit is short	NG
ROOF STATE	State of roof	For the details, refer to RF-20, "RETRACT-ABLE HARD TOP SYSTEM: System Description"	1-42
		State of roof is not recognized	NG
HYDRAULIC STATE	State of hydraulic system	For the details, refer to RF-31, "HYDRAU- LIC SYSTEM CONTROL FUNCTION: Sys- tem Description"	1-22
		State of hydraulic system is not recognized	NG
DOOE SWYODEN'	State of roof open/close	OPEN operation is in operation	ON
ROOF SW(OPEN)	switch	Other than above	OFF
BOOE SWILCH OSE,	State of roof open/close	CLOSE operation is in operation	ON
ROOF SW(CLOSE)	switch	Other than above	OFF
ROOF LINK STATE	State of roof link	For the details, refer to RF-31, "HYDRAU- LIC SYSTEM CONTROL FUNCTION: Sys- tem Description"	1-8
		State of roof is not recognized	NG
		LOCK	ON
TRUNK LINK SEN(RH)	State of trunk link lock (RH)	Other than above	OFF
, ,		Trunk link lock (RH) circuit is short or open	NG

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Monitor Item		Condition	Status/Value
		LOCK	ON
TRUNK LINK SEN(LH)	State of trunk link lock (LH)	Other than above	OFF
		Trunk link lock (LH) circuit is short or open	NG
	State of trunk lid	Open	ON
TR ROOM LAMP SW	(trunk room lamp switch)	Other than above	OFF
		Fully OPEN	ON
TRUNK STATUS SEN	State of trunk lid	Other than above	OFF
		Trunk status sensor circuit is short or open	NG
		OPEN operation is in operation	ON
TRUNK OPEN OUT	Operation of trunk lid open-	Other than above	OFF
	er actuator	Trunk lid opener actuator circuit is short	NG
FLPD LIMIT SW(DWN)	State of flipper door	Both of flipper door (LH/RH) are in DOWN position	ON
	отпо от тррот дост	Other than above	OFF
FLPD LIMIT SW(UP)	State of flipper door	Both of flipper door (LH/RH) are in UP position	ON
, ,		Other than above	OFF
		UP operation is in operation	ON
FLPD OUT(UP)	Operation of flipper door	Other than above	OFF
		Flipper door motor (UP) circuit is short	NG
		DOWN operation is in operation	ON
FLPD OUT(DWN)	Operation of flipper door	Other than above	OFF
		Flipper door motor (DOWN) circuit is short	NG
FLPD STATE	State of flipper door	For the details, refer to RF-39, "FLIPPER DOOR FUNCTION: System Description"	1, 2, 4
		State of flipper door is not recognized	NG
		UP operation is in operation	ON
R WIN LH OUT(UP)	Operation of rear power window (LH)	Other than above	OFF
	wildow (LH)	Rear power window LH (UP) circuit is short	NG
		DOWN operation is in operation	ON
R WIN LH OUT(DWN)	Operation of rear power	Other than above	OFF
K WIN LH OOT (DWN)	window (LH)	Rear power window LH (DOWN) circuit is short	NG
		UP operation is in operation	ON
R WIN RH OUT(UP)	Operation of rear power window (RH)	Other than above	OFF
	willdow (IXII)	Rear power window RH (UP) circuit is short	NG
		DOWN operation is in operation	ON
R WIN RH OUT(DWN)	Operation of rear power	Other than above	OFF
ix wild ixi i OO i (David)	window (RH)	Rear power window RH (DOWN) circuit is short	NG
DEAD DEE ON OLO	State of rear window defog-	While operating	ON
REAR DEF ON SIG	ger switch	Stop	OFF
		Operate	ON
REAR DEF OUT	State of rear window defog-	Stop	OFF
	ger system	Rear window defogger circuit is short	NG
R WIN CURENT(LH)	Current value to rear power		0-25.5 (A)

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Monitor Item		Condition	Status/Value
R WIN CURENT(RH)	Current value to rear power	0-25.5 (A)	
-		Upper	UP
RR WIN STATE(LH)	State of rear power window (LH)	Halfway	MID
	(11)	Lower end	DOWN
		Upper	UP
RR WIN STATE(RH)	State of rear power window (RH)	Halfway	MID
	(IXII)	Lower end	DOWN
DAD CICNAL	Ctate of DAD	Operate	ON
RAP SIGNAL	State of RAP	Stop	OFF
TD MODE CIONAL	Ctate of twenty made signal	Output	ON
TR MODE SIGNAL	State of trunk mode signal	Stop	OFF
		State of fully open	ON
ROOF STATE(AUDIO)	State of roof	Other than above	OFF
		Roof state signal (audio) circuit is short	NG
		Operate	ON
ROOF BUZZER OUT	State of roof warning buzzer	Stop	OFF
		Roof warning buzzer circuit is short	NG
LOCAL COMM 1		Normal	OK
	State of local communication 1	It is in sleep mode	SLEEP
	uon i	Communication error	NG
		Normal	OK
LOCAL COMM 2	State of local communication 2	It is in sleep mode	SLEEP
	tion 2	Communication error	NG
		Normal	OK
DOOFMODE	Roof operation mode	Only close operation is possible	CLOSE
ROOF MODE		Operation is stop	STOP
		Operation is inhibited	NG
POP-UP BAR DPLOY	Ctate of non-un hor	Normal	OK
POP-UP BAR DPLOT	State of pop-up bar	State of deployment	NG
DOD LID BAD DIAC	Self-diagnosis result of pop-	Normal	OK
POP-UP BAR DIAG	up bar	Malfunctioning is detected	NG
SWITCH VLV COND	Diagnosis result of retract-	Diagnosis result of retractable hard top control unit	ОК
SWITCH VEV GOIND	able hard top control unit	Switching valve (1/2) system is malfunctioning	NG
DWD COLIDOR COND	Power supply voltage state	Normal	OK
PWR SOURCE COND	of retractable hard top con- trol unit	Malfunction	NG
CPU COND	Diagnosis result of retract-	CPU is normal	OK
	able hard top control unit	CPU is not normal	NG
ROOF COND	Diagnosis result of retract-	Roof position is normal	OK
	able hard top control unit	Roof position is not normal	NG
SENSOR COND	Diagnosis result of retract-	Hole sensor system is normal	OK
52.1001. 00.1D	able hard top control unit	Hole sensor system is not normal	NG
IGN ON SIG(BCM)	Power position signal (via	ON	OK
	CAN from BCM)	Other than above	NG

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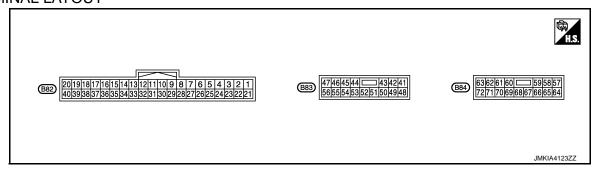
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Monitor Item		Condition	Status/Value
	Vehicle speed signal (via	0km/h	OK
VHCL STOP-METER	CAN from meter and A/C amp.)	Other than above	NG
CIRCUIT COND	Diagnosis result of retract-	Circuit system is normal	OK
CINCOTT COND	able hard top control unit	Circuit system is not normal	NG
ROOF TIMEOUT	State of roof operation	Normal	OK
ROOF THVILOOT	State of 1001 operation	Malfunction	NG
CAN COMM	CAN communication status	Normal	OK
CAN COMM	CAN communication status	Malfunction	NG
THERMO PROTECT 1	Thormo protection (Stage1)	In non-operation	OK
MERIMOFROTEGIT	Thermo protection (Stage1)	In operation	NG
SHIFT R SIG	Shift position	Other than R position	OK
SHIFT K SIG	Shirt position	R position	NG
DDMIT ENC ST/DCM)	Dormit angine start signal	Signal is not received	OK
PRMIT ENG ST(BCM)	Permit engine start signal	Signal is in receiving	NG
THERMO PROTECT-2	Thormo protoction (Stage?)	In non-operation	OK
THERINO PROTECT-2	Thermo protection (Stage2)	In operation	NG
TONNE ALL CW	Tonneau board	Set	OK
TONNEAU SW	Torineau board	Other than above	NG
DDK I VWD S/V/(DCW/)	Brake lamp switch signal	Brake is depressed	OK
BRK LAMP SW(BCM)	(via CAN from BCM)	Brake is released	NG
THERMO VALUE	Conversion value of thermo	protection	0-65535
PWR SOURCE VALUE	Power supply voltage value	of retractable hard top control unit	0-20 (V)
	Chata of northermine roof no	Registration of full open position is complete	OK
ROOF INITIAL(OPEN)	State of performing roof position initialization	Registration of full open position is not complete	NG
	State of performing roof po-	Registration of full closed position is complete	ОК
ROOF INITIAL(CLOSE)	sition initialization	Registration of full closed position is not complete	NG
	Otata af a anti-	Registration of rotation position is complete	OK
PSHELF INITIAL(ROTA)	State of performing parcel shelf position initialization	Registration of rotation position is not complete	NG
DOLLELE INITIAL (DD A)AC	State of performing parcel	Registration of draw position is complete	OK
PSHELF INITIAL(DRAW)	shelf position initialization	Registration of draw position is not complete	NG

TERMINAL LAYOUT



PHYSICAL VALUES

	nal No. color)	Description			Condition		Value
+	_	Signal name	Input/ Output	Condition			(Approx.)
1 (G)	Ground	Roof open/close switch (OPEN)	Input	Ignition switch ON	Roof open/close switch (OPEN)	Pressed Released	0 V Battery voltage
2 (BR)	Ground	Roof open/close switch (CLOSE)	Input	Ignition switch ON	Roof open/close switch (CLOSE)	Pressed Released	0 V Battery voltage
3 (B)	Ground	Flipper door limit switch ground	_	Ignition switch ON	_		0 V
4 (L)	Ground	Tonneau board switch	Input	Ignition switch ON	Tonneau board	Hooked Released	Battery voltage 0 V
5 (SB)	Ground	Trunk room lamp switch	Input	Ignition switch ON	Trunk lid	Locked	(V) 15 10 5 0 10 ms JPMIA0011GB
						Other than above	0 V
6 (L)	Ground	Roof latch limit switch	Input	Ignition switch ON	Roof	Other than above	0 V Battery voltage
7 (W)	Ground	Flipper door limit switch (UP)	Input	Ignition switch ON	Flipper door LH and RH	Top Other than above	0 V Battery voltage
8 (G)	Ground	Flipper door limit switch (DOWN)	Input	Ignition switch ON	Flipper door LH and RH	Bottom Other than above	0 V Battery voltage
11 (W)	Ground	RAP signal	Input	Ignition switch ON	RAP function	Active Inactive	Battery voltage 0 V
12 (Y)	Ground	Back up lamp signal	Input	Ignition switch ON	Shift position	R position Other than above	Battery voltage 0 V
13 (BG)	Ground	Sensor power supply	Output	Ignition switch OFF	_	ı	5 V
14 (P)	Ground	Trunk link sensor (LH)	Input	Ignition switch ON	Trunk link lock (LH)	LOCK Other than above	0.3 V 1.5 V
15 (SB)	Ground	Trunk link sensor (RH)	Input	Ignition switch ON	Trunk link lock (RH)	LOCK Other than	0.3 V 1.5 V

	nal No. color)	Description			Condition		Value	
+	_	Signal name	Input/ Output		Condition		(Approx.)	
16 (GR)	Ground	Roof latch status sensor	Input	Ignition switch ON	Roof latch	Operate	(V) 6 4 2 0 ++10ms JMKIA4021GB	
						Stop	0.5 or 4.5 V	
17 (G)	Ground	Roof latch lock sen-	Input	Ignition switch	Roof latch	LOCK Other than	1.0 V	
		301		ON		above	3.8 V	
18	Ground	Trunk status sensor	Input	Ignition switch	Trunk lid (front)	Fully open Other than	1.0 V	
(LG)				ON	(1211)	above	3.8 V	
22 (V)	Ground	Roof status sensor power supply	Output	Ignition switch ON	_		5 V	
23 (B)	Ground	Roof status sensor ground	_	Ignition switch ON	_		0 V	
24 (GR)	Ground	Parcel shelf status sensor (DRAW)	Input	Ignition switch ON	Parcel shelf motor (DRAW)	Active	(V) 6 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
						Inactive	0.5 V or 5 V	
25 (R)	Ground	Parcel shelf status sensor (ROTATION)	Input	Ignition switch ON	Parcel shelf motor (ROTATE)	Active	(V) 6 4 2 0 ***10ms	
						Inactive	0.5 V or 5 V	
26 (P)	Ground	Roof status sensor signal	Input	Ignition switch ON	Roof	Fully close→Ful- ly open	0.5 V→5 V	
27		Trunk lid open re-	_			Operate	0 V →Battery voltage →0 V	
(Y)	Ground	quest signal (BCM)	Output	_	Trunk opener	Other than above	0 V	
28 (BG)	Ground	Flipper door motor ground	_	Ignition switch ON	_	1	0 V	

	nal No. color)	Description			Condition		Value
+	_	Signal name	Input/ Output		Condition		(Approx.)
29 (V)	Ground	Local communication (BCM)	Input/ Output	Ignition switch ON	_		(V) 15 10 5 0 MKIA4024GB
30 (GR)	Ground	Local communication (POWER WINDOW)	Input/ Output	Ignition switch ON	_		(V) 15 10 5 0
31 (L)	Ground	CAN-H	Input/ Output	_	_		-
32 (P)	Ground	CAN-L	Input/ Output	_	_		_
33 (V)	Ground	Roof status siganal (AUDIO)	Output	Ignition switch ON	Retractable hard top	Fully open Other than above	Battery voltage 0 V
35 (B)	Ground	Roof warning buzzer	Output	Ignition switch ON	Roof warning buzz- er	Sounds Not sounds	0 V Battery voltage
36 (Y)	Ground	Hydraulic pump relay (RH)	_	Ignition switch ON	Hydraulic pump motor (RH)	Active Inactive	0 V Battery voltage
37 (W)	Ground	Hydraulic pump relay (LH)	_	Ignition switch ON	Hydraulic pump motor (LH)	Active Inactive	0 V Battery voltage
38 (BR)	Ground	Hydraulic pump relay ground	_	Ignition switch ON	_		0 V
41 (SB)	Ground	Parcel shelf motor (UP)	Output	Ignition switch ON	Parcel shelf motor (DRAW-UP)	Active Inactive	Battery voltage 0 V
42 (W)	Ground	Parcel shelf motor (DOWN)	Output	Ignition switch ON	Parcel shelf motor (DRAW-DOWN)	Active Inactive	Battery voltage 0 V
43 (BR)	Ground	Hydraulic pump pow- er supply relay	Output	Ignition switch ON	Retractable hard top system	Active Inactive	Battery voltage 0 V
44 (R)	Ground	Parcel shelf motor (HORIZONTAL)	Output	Ignition switch ON	Parcel shelf motor (ROTATION-HORI- ZONTAL)	Active Inactive	Battery voltage 0 V
45 (BR)	Ground	Parcel shelf motor (VERTICAL)	Output	Ignition switch ON	Parcel shelf motor (ROTATION-VER- TICAL)	Active Inactive	Battery voltage 0 V
46	Ground	Flipper door motor	Output	Ignition switch	Flipper door motor	Active	Battery voltage

	nal No. color)	Description			Condition		Value
+	_	Signal name	Input/ Output				(Approx.)
47 (L)	Ground	Flipper door motor (DOWN)	Output	Ignition switch ON	Flipper door motor (DOWN)	Active Inactive	Battery voltage 0 V
40		Roof latch motor		Ignition	Roof latch motor	Active	Battery voltage
48 (R)	Ground	(OPEN)	Output	switch ON	(OPEN)	Inactive	0 V
49	Ground	Roof latch motor	Output	Ignition switch	Roof latch motor	Active	Battery voltage
(Y)	Giouna	(CLOSE)	Output	ON	(CLOSE)	Inactive	0 V
51 (SB)	Ground	Trunk lid opener actuator	Output	_	Trunk lid opener	Operate Stop	$0 \text{ V} \rightarrow \text{Battery voltage} \rightarrow 0 \text{ V}$ 0 V
52 (V)	Ground	Trunk lid opener actuator ground	_	Ignition switch ON	_	0.00	0 V
53		Rear power window		Ignition	Rear power window	Active	Battery voltage
(BG)	Ground	motor LH (UP)	Output	switch ON	motor LH (UP)	Inactive	0 V
54	Ground	Rear power window	Output	Ignition switch	Rear power window motor LH	Active	Battery voltage
(LG)	Ground	motor LH (DOWN)	Output	ON	(DOWN)	Inactive	0 V
55 (GR)	Ground	Rear power window motor RH (UP)	Output	Ignition switch ON	Rear power window motor RH (UP)	Active Inactive	Battery voltage 0 V
56	Cround	Rear power window	Outrout	Ignition	Rear power window	Active	Battery voltage
(P)	Ground	motor RH (DOWN)	Output	switch ON	motor RH (DOWN)	Inactive	0 V
57 (Y)	Ground	Power source (ROOF)	Input	1	_		Battery voltage
58 (Y)	Ground	Power source (ROOF)	Input		_		Battery voltage
59 (Y)	Ground	Power source (ROOF)	Input	_	_		Battery voltage
60 (B)	Ground	Ground (ROOF)	_	Ignition switch ON	_		0 V
61 (B)	Ground	Ground (ROOF)	_	Ignition switch ON	_		0 V
62 (GR)	Ground	Power source (POWER WINDOW)	Input	_	_		Battery voltage
63 (Y)	Ground	Power source (POWER WINDOW)	Input	_	_		Battery voltage
64 (B)	Ground	Ground (POWER WINDOW)	_	Ignition switch ON	_		0 V
65 (B)	Ground	Ground (POWER WINDOW)	_	Ignition switch ON	_		0 V
66	Ground	Switching valve 1	Output	Ignition switch	Switching valve 1	Active	Battery voltage
(P)	Ciound	Switching valve i	Juipui	ON	Switching valve i	Inactive	0 V

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Terminal No. (Wire color)		Description		- Condition		Value		
+	_	Signal name	Input/ Output		Condition		(Approx.)	
67	Cround	Switching value 2	Output	Ignition	Switching value 2	Active	Battery voltage	
(SB)	Ground	Switching valve 2	Output	switch ON	Switching valve 2	Inactive	0 V	
68 (L)	Ground	Switching valve ground	_	Ignition switch ON	_		0 V	(
69 (G)	Ground	Power source (REAR WINDOW DEFOGGER)	Input	_	_		Battery voltage	
70 (P)	Ground	Power source (REAR WINDOW DEFOGGER)	Input	_	_		Battery voltage	
71 (BR)	Ground	Rear window defog- ger power supply	Output	Ignition switch ON	Rear defogger switch ON and roof is fully closed		Battery voltage	
72 (W)	Ground	Rear window defog- ger power supply	Output	Ignition switch ON			Battery voltage	

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FAIL-SAFE CONTROL BY DTC

Retractable hard top control unit performs fail-safe control when any DTC are detected.

Display contents of CONSULT		Fail-safe	Cancellation
U1000	CAN COMM CIRCUIT	Inhibit retractable hard top operation.	Communication is normal
U1010	CONTROL UNIT (CAN)	Inhibit retractable hard top operation.	Communication is normal
U0140	LOCAL COMM-1	Inhibit retractable hard top operation.	Communication is normal
U0215	LOCAL COMM-1	Inhibit retractable hard top operation.	Communication is normal
B1701	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Replace retractable hard top control unit.
B1702	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Replace retractable hard top control unit.
B1709	ROOF SWITCH(OPEN)	Inhibit retractable hard top operation.	Detects roof open/close switch (OPEN) is OFF
B170A	ROOF SWITCH(CLOSE)	Inhibit retractable hard top operation.	Detects roof open/close switch (CLOSE) is OFF
B170B	ROOF SWITCH	Inhibit retractable hard top operation.	Detects roof open/close switch (OPEN/CLOSE) is OFF
B170C	TRUNK LINK SEN- SOR(LH)	Inhibit retractable hard top operation.	Detects normal value
B170D	TRUNK LINK SEN- SOR(RH)	Inhibit retractable hard top operation.	Detects normal value
B170F	SENSOR POWER SUP- PLY	Inhibit retractable hard top operation.	Detects normal value
B1710	LATCH STATUS SENSOR	Inhibit retractable hard top operation.	Detects normal value
B1711	LATCH LOCK SENSOR	Inhibit retractable hard top operation.	Detects normal value
B1712	TRUNK STATUS SENSOR	Inhibit retractable hard top operation.	Detects normal value
B1715	ROOF STATUS SEN PWR	Inhibit retractable hard top operation.	Detects normal value
B1716	PS STATUS SEN(DRAW)	Inhibit retractable hard top operation.	Detects normal value
B1718	PS STATUS SEN(ROTA)	Inhibit retractable hard top operation.	Detects normal value
B1719	ROOF STATUS SEN	Inhibit retractable hard top operation.	Detects normal value

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	Display contents of CONSULT	Fail-safe	Cancellation
B171A	HYDRAULIC PMP(LH)	Inhibit retractable hard top operation.	Detects normal value
B171B	HYDRAULIC PMP(RH)	Inhibit retractable hard top operation.	Detects normal value
B171C	SWITCHING VALVE 1	Inhibit retractable hard top operation.	Detects normal value
B171D	SWITCHING VALVE 2	Inhibit retractable hard top operation.	Detects normal value
B171E	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value
B171F	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value
B1720	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value
B1721	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value
B1722	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value
B1723	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value
B1724	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value
B1725	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value
B1726	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value
B1728	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value
B1729	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value
B172A	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value
B172B	ROOF STATE SIG(AUDIO)	Inhibit retractable hard top operation.	Detects normal value
B172D	ROOF WARNING BUZZ- ER	Inhibit retractable hard top operation.	Detects normal value
B172E	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value
B172F	REAR PWR WINDOW(LH)	Inhibit retractable hard top operation.	Detects normal value
B1730	REAR PWR WIN- DOW(RH)	Inhibit retractable hard top operation.	Detects normal value
B1731	HYDRAULIC STATE 1	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1732	HYDRAULIC STATE 2	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1733	HYDRAULIC STATE 3	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1734	HYDRAULIC STATE 4	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1735	HYDRAULIC STATE 5	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1736	HYDRAULIC STATE 6	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1737	HYDRAULIC STATE 7	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1738	HYDRAULIC STATE 8	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1739	HYDRAULIC STATE 9	Inhibit retractable hard top operation.	Turn ignition switch OFF
B173A	HYDRAULIC STATE 10	Inhibit retractable hard top operation.	Turn ignition switch OFF
B173B	HYDRAULIC STATE 11	Inhibit retractable hard top operation.	Turn ignition switch OFF
B173C	HYDRAULIC STATE 12	Inhibit retractable hard top operation.	Turn ignition switch OFF
B173D	HYDRAULIC STATE 13	Inhibit retractable hard top operation.	Turn ignition switch OFF
B173E	HYDRAULIC STATE 14	Inhibit retractable hard top operation.	Turn ignition switch OFF
B173F	HYDRAULIC STATE 15	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1740	HYDRAULIC STATE 16	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1741	HYDRAULIC STATE 17	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1742	HYDRAULIC STATE 18	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1743	HYDRAULIC STATE 19	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1744	HYDRAULIC STATE 20	Inhibit retractable hard top operation.	Turn ignition switch OFF
B1745	HYDRAULIC STATE 21	Inhibit retractable hard top operation.	Turn ignition switch OFF

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	Display contents of CONSULT	Fail-safe	Cancellation	
B1746	HYDRAULIC STATE 22	Inhibit retractable hard top operation.	Turn ignition switch OFF	
B1747	P SHELF (DRAW) STATE 1	Inhibit retractable hard top operation.	Turn ignition switch OFF	
B1748	P SHELF (DRAW) STATE 2	Inhibit retractable hard top operation.	Turn ignition switch OFF	
B1749	P SHELF (DRAW) STATE 3	Inhibit retractable hard top operation.	Turn ignition switch OFF	
B174A	P SHELF (DRAW) STATE 4	Inhibit retractable hard top operation.	Turn ignition switch OFF	
B174B	P SHELF (DRAW) STATE 5	Inhibit retractable hard top operation.	Turn ignition switch OFF	
B174C	P SHELF (DRAW) STATE 6	Inhibit retractable hard top operation.	Turn ignition switch OFF	
B174D	P SHELF (ROT) STATE 1	Inhibit retractable hard top operation.	Turn ignition switch OFF	
B174E	P SHELF (ROT) STATE 2	Inhibit retractable hard top operation.	Turn ignition switch OFF	
B174F	P SHELF (ROT) STATE 3	Inhibit retractable hard top operation.	Turn ignition switch OFF	
B1750	P SHELF (ROT) STATE 4	Inhibit retractable hard top operation.	Turn ignition switch OFF	
B1751	ROOF LATCH STATE 1	Inhibit retractable hard top operation.	Turn ignition switch OFF	
B1752	ROOF LATCH STATE 2	Inhibit retractable hard top operation.	Turn ignition switch OFF	
B1753	ROOF LATCH STATE 3	Inhibit retractable hard top operation.	Turn ignition switch OFF	
B1754	FLIPPER DOOR STATE 1	Inhibit retractable hard top operation.	Turn ignition switch OFF	
B1755	FLIPPER DOOR STATE 2	Inhibit retractable hard top operation.	Turn ignition switch OFF	
B1756	FLIPPER DOOR STATE 3	Inhibit retractable hard top operation.	Turn ignition switch OFF	
B1757	FLIPPER DOOR STATE 4	Inhibit retractable hard top operation.	Turn ignition switch OFF	
B1758	THERMO PROTECTION	Inhibit retractable hard top operation.	It is not in thermo protection area (Refer to RF-20, "RETRACTABLE HARD TOP SYSTEM: System Description")	
B175C	PWR SOURCE(ROOF)	Inhibit retractable hard top operation.	Power source is 11.4 (V) or more for 0.5 second	
B175D	PWR SOURCE(ROOF)	Inhibit retractable hard top operation.	Power source is14.5 (V) or more for 4 seconds	
B175E	PWR SOURCE(WINDOW)	Inhibit retractable hard top operation and rear power window operation.	Power source (power window) is 9.5 (V) or less	
B175F	PWR SOURCE(WINDOW)	Inhibit retractable hard top operation and rear power window operation.	Power source (power window) is 15.5 (V) or more	
B1760	ROOF CONTROL UNIT	Inhibit rear window defogger operation.	Detects normal value	
B1761	ROOF CONTROL UNIT	Inhibit retractable hard top operation.	Detects normal value	
B1762	ROOF STATE	Inhibit retractable hard top operation.	Detects normal value	
B1763	HYDRAULIC STATE	Inhibit retractable hard top operation.	Detects normal value	
B1764	ROOF LATCH STATE	Inhibit retractable hard top operation.	Detects normal value	
B1765	FLIPPER DOOR STATE	Inhibit retractable hard top operation.	Detects normal value	

DTC Inspection Priority Chart

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

Priority	Display contents of CONSULT		
1	U1000	CAN COMM CIRCUIT	
	U1010	CONTROL UNIT (CAN)	

Priority		Display contents of CONSULT
	B175C	PWR SOURCE(ROOF)
2	B175D	PWR SOURCE(ROOF)
2	B175E	PWR SOURCE(WINDOW)
	B175F	PWR SOURCE(WINDOW)
	B1701	ROOF CONTROL UNIT
	B1702	ROOF CONTROL UNIT
	B171E	ROOF CONTROL UNIT
	B171F	ROOF CONTROL UNIT
	B1720	ROOF CONTROL UNIT
	B1721	ROOF CONTROL UNIT
	B1722	ROOF CONTROL UNIT
	B1723	ROOF CONTROL UNIT
3	B1724	ROOF CONTROL UNIT
	B1725	ROOF CONTROL UNIT
	B1726	ROOF CONTROL UNIT
	B1728	ROOF CONTROL UNIT
	B1729	ROOF CONTROL UNIT
	B172A	ROOF CONTROL UNIT
	B172E	ROOF CONTROL UNIT
	B1760	ROOF CONTROL UNIT
	B1761	ROOF CONTROL UNIT
4	B170F	SENSOR POWER SUPPLY
	U0140	LOCAL COMM-1
	U0215	LOCAL COMM-1
	B1709	ROOF SWITCH(OPEN)
	B170A	ROOF SWITCH(CLOSE)
	B170B	ROOF SWITCH
	B1758	THERMO PROTECTION
	B171A	HYDRAULIC PMP(LH)
	B171B	HYDRAULIC PMP(RH)
	B171C	SWITCHING VALVE 1
	B171D	SWITCHING VALVE 2
5	B172F	REAR PWR WINDOW(LH)
	B1730	REAR PWR WINDOW(RH)
	B1715	ROOF STATE SEN PWR
	B170C	TRUNK LINK SENSOR(LH)
	B170D	TRUNK LINK SENSOR(RH)
	B1710	LATCH STATUS SENSOR
	B1711	LATCH LOCK SENSOR
	B1712	TRUNK STATUS SENSOR
	B1716	PS STATUS SEN(ROTA)
	B1718	PS STATUS SEN(DRAW)
	B1719	ROOF STATUS SEN

< ECU DIAGNOSIS INFORMATION >

Priority		Display contents of CONSULT
	B1731	HYDRAULIC STATE 1
	B1732	HYDRAULIC STATE 2
	B1733	HYDRAULIC STATE 3
	B1734	HYDRAULIC STATE 4
	B1735	HYDRAULIC STATE 5
	B1736	HYDRAULIC STATE 6
	B1737	HYDRAULIC STATE 7
	B1738	HYDRAULIC STATE 8
	B1739	HYDRAULIC STATE 9
	B173A	HYDRAULIC STATE 10
	B173B	HYDRAULIC STATE 11
	B173C	HYDRAULIC STATE 12
	B173D	HYDRAULIC STATE 13
	B173E	HYDRAULIC STATE 14
	B173F	HYDRAULIC STATE 15
	B1740	HYDRAULIC STATE 16
	B1741	HYDRAULIC STATE 17
	B1742	HYDRAULIC STATE 18
	B1743	HYDRAULIC STATE 19
7	B1744	HYDRAULIC STATE 20
	B1745	HYDRAULIC STATE 21
	B1746	HYDRAULIC STATE 22
	B1747	P SHELF (DRAW) STATE 1
	B1748	P SHELF (DRAW) STATE 2
	B1749	P SHELF (DRAW) STATE 3
	B174A	P SHELF (DRAW) STATE 4
	B174B	P SHELF (DRAW) STATE 5
	B174C	P SHELF (DRAW) STATE 6
	B174D	P SHELF (ROT) STATE 1
	B174E	P SHELF (ROT) STATE 2
	B174F	P SHELF (ROT) STATE 3
	B1750	P SHELF (ROT) STATE 4
	B1751	ROOF LATCH STATE 1
	B1752	ROOF LATCH STATE 2
	B1753	ROOF LATCH STATE 3
	B1754	FLIPPER DOOR STATE 1
	B1755	FLIPPER DOOR STATE 2
	B1756	FLIPPER DOOR STATE 3
	B1757	FLIPPER DOOR STATE 4
_	B1707	ROOF OPEN STATE
8	B1708	ROOF CLOSE STATE
	B1764	ROOF LATCH STATE
9	B1765	FLIPPER DOOR STATE
10	B1762	ROOF STATE

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Priority		Display contents of CONSULT
11	B1763	HYDRAULIC STATE
12	B172B	ROOF STATE SIG(AUDIO)

DTC Index

NOTE:

For details of Freeze Frame Data, refer to <u>RF-45, "CONSULT Function"</u>.

	Display contents of CONSULT		Freeze Frame Data	Reference page
No DTC i	s detected. Further testing may be required.	_	_	_
U1000	CAN COMM CIRCUIT	×	×	<u>RF-78</u>
U1010	CONTROL UNIT (CAN)	×	×	<u>RF-79</u>
U0140	LOCAL COMM-1	×	×	<u>RF-80</u>
U0215	LOCAL COMM-2	×	×	<u>RF-81</u>
B1701	ROOF CONTROL UNIT	×	×	<u>RF-83</u>
B1702	ROOF CONTROL UNIT	×	×	<u>RF-84</u>
B1707	ROOF OPEN STATE	_	×	<u>RF-85</u>
B1708	ROOF CLOSE STATE	_	×	<u>RF-87</u>
B1709	ROOF SWITCH(OPEN)	×	×	RF-89
B170A	ROOF SWITCH(CLOSE)	×	×	<u>RF-91</u>
B170B	ROOF SWITCH	×	×	<u>RF-93</u>
B170C	TRUNK LINK SENSOR(LH)	×	×	<u>RF-95</u>
B170D	TRUNK LINK SENSOR(RH)	×	×	<u>RF-97</u>
B170F	SENSOR POWER SUPPLY	×	×	<u>RF-99</u>
B1710	LATCH STATUS SENSOR	×	×	<u>RF-102</u>
B1711	LATCH LOCK SENSOR	×	×	<u>RF-104</u>
B1712	TRUNK STATUS SENSOR	×	×	<u>RF-106</u>
B1715	ROOF STATUS SEN PWR	×	×	<u>RF-108</u>
B1716	PS STATUS SEN(DRAW)	×	×	<u>RF-110</u>
B1718	PS STATUS SEN(ROTA)	×	×	<u>RF-112</u>
B1719	ROOF STATUS SEN	×	×	<u>RF-114</u>
B171A	HYDRAULIC PMP(LH)	×	×	<u>RF-116</u>
B171B	HYDRAULIC PMP(RH)	×	×	RF-118
B171C	SWITCHING VALVE 1	×	×	<u>RF-120</u>
B171D	SWITCHING VALVE 2	×	×	<u>RF-122</u>
B171E	ROOF CONTROL UNIT	×	×	<u>RF-124</u>
B171F	ROOF CONTROL UNIT	×	×	<u>RF-125</u>
B1720	ROOF CONTROL UNIT	×	×	<u>RF-126</u>
B1721	ROOF CONTROL UNIT	×	×	<u>RF-127</u>
B1722	ROOF CONTROL UNIT	×	×	<u>RF-128</u>
B1723	ROOF CONTROL UNIT	×	×	<u>RF-129</u>
B1724	ROOF CONTROL UNIT	×	×	<u>RF-130</u>
B1725	ROOF CONTROL UNIT	×	×	<u>RF-131</u>
B1726	ROOF CONTROL UNIT	×	×	<u>RF-132</u>
B1728	ROOF CONTROL UNIT	×	×	RF-133

< ECU DIAGNOSIS INFORMATION >

	Display contents of CONSULT	Fail-safe	Freeze Frame Data	Reference page
B1729	ROOF CONTROL UNIT	×	×	RF-134
B172A	ROOF CONTROL UNIT	×	×	<u>RF-135</u>
B172B	ROOF STATE SIG(AUDIO)	×	×	<u>RF-136</u>
B172D	ROOF WARNING BUZZER	×	×	<u>RF-138</u>
B172E	ROOF CONTROL UNIT	×	×	<u>RF-140</u>
B172F	REAR PWR WINDOW(LH)	×	×	<u>RF-141</u>
B1730	REAR PWR WINDOW(RH)	×	×	RF-143
B1731	HYDRAULIC STATE 1	×	×	<u>RF-145</u>
B1732	HYDRAULIC STATE 2	×	×	<u>RF-147</u>
B1733	HYDRAULIC STATE 3	×	×	<u>RF-149</u>
B1734	HYDRAULIC STATE 4	×	×	<u>RF-151</u>
B1735	HYDRAULIC STATE 5	×	×	<u>RF-153</u>
B1736	HYDRAULIC STATE 6	×	×	<u>RF-155</u>
B1737	HYDRAULIC STATE 7	×	×	<u>RF-156</u>
B1738	HYDRAULIC STATE 8	×	×	<u>RF-157</u>
B1739	HYDRAULIC STATE 9	×	×	<u>RF-158</u>
B173A	HYDRAULIC STATE 10	×	×	<u>RF-159</u>
B173B	HYDRAULIC STATE 11	×	×	<u>RF-160</u>
B173C	HYDRAULIC STATE 12	×	×	<u>RF-161</u>
B173D	HYDRAULIC STATE 13	×	×	<u>RF-162</u>
B173E	HYDRAULIC STATE 14	×	×	<u>RF-163</u>
B173F	HYDRAULIC STATE 15	×	×	<u>RF-164</u>
B1740	HYDRAULIC STATE 16	×	×	<u>RF-165</u>
B1741	HYDRAULIC STATE 17	×	×	<u>RF-168</u>
B1742	HYDRAULIC STATE 18	×	×	<u>RF-169</u>
B1743	HYDRAULIC STATE 19	×	×	<u>RF-171</u>
B1744	HYDRAULIC STATE 20	×	×	<u>RF-173</u>
B1745	HYDRAULIC STATE 21	×	×	<u>RF-175</u>
B1746	HYDRAULIC STATE 22	×	×	<u>RF-177</u>
B1747	P SHELF (DRAW) STATE 1	×	×	<u>RF-179</u>
B1748	P SHELF (DRAW) STATE 2	×	×	<u>RF-180</u>
B1749	P SHELF (DRAW) STATE 3	×	×	<u>RF-181</u>
B174A	P SHELF (DRAW) STATE 4	×	×	<u>RF-182</u>
B174B	P SHELF (DRAW) STATE 5	×	×	<u>RF-183</u>
B174C	P SHELF (DRAW) STATE 6	×	×	<u>RF-184</u>
B174D	P SHELF (ROT) STATE 1	×	×	<u>RF-185</u>
B174E	P SHELF (ROT) STATE 2	×	×	<u>RF-186</u>
B174F	P SHELF (ROT) STATE 3	×	×	<u>RF-187</u>
B1750	P SHELF (ROT) STATE 4	×	×	<u>RF-188</u>
B1751	ROOF LATCH STATE 1	×	×	RF-189
B1752	ROOF LATCH STATE 2	×	×	RF-190
B1753	ROOF LATCH STATE 3	×	×	RF-191
B1754	FLIPPER DOOR STATE 1	×	×	RF-192
B1755	FLIPPER DOOR STATE 2	×	×	RF-193

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	Display contents of CONSULT	Fail-safe	Freeze Frame Data	Reference page
B1756	FLIPPER DOOR STATE 3	×	×	<u>RF-194</u>
B1757	FLIPPER DOOR STATE 4	×	×	<u>RF-195</u>
B1758	THERMO PROTECTION	×	×	<u>RF-196</u>
B175C	PWR SOURCE(ROOF)	×	×	<u>RF-197</u>
B175D	PWR SOURCE(ROOF)	×	×	<u>RF-198</u>
B175E	PWR SOURCE(WINDOW)	×	×	<u>RF-199</u>
B175F	PWR SOURCE(WINDOW)	×	×	RF-201
B1760	ROOF CONTROL UNIT	×	×	RF-203
B1761	ROOF CONTROL UNIT	×	×	RF-204
B1762	ROOF STATE	×	×	<u>RF-205</u>
B1763	HYDRAULIC STATE	×	×	RF-208
B1764	ROOF LATCH STATE	×	×	<u>RF-210</u>
B1765	FLIPPER DOOR STATE	×	×	<u>RF-211</u>

REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGERS DO NOT OP-ERATE

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS Α REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGERS DO NOT **OPERATE** В **Diagnosis Procedure** INFOID:0000000008155835 ${f 1}$.CHECK POWER SUPPLY AND GROUND CIRCUIT Check power supply and ground circuit. Refer to DEF-9, "BCM (BODY CONTROL MODULE): Diagnosis Procedure". D Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. Е 2.CHECK REAR WINDOW DEFOGGER SWITCH Check rear window defogger switch. Refer to DEF-10, "Component Function Check". F 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. Н Refer to DEF-11, "Component Function Check". Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. f 4.CONFIRM THE OPERATION Confirm the operation again. Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". >> GO TO 1. NO K

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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:0000000008155836

1. CHECK RETRACTABLE HARD TOP CONTROL UNIT CIRCUIT

Check retractable hard top control unit circuit.

Refer to DEF-13, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK REAR WINDOW DEFOGGER

Check rear window defogger.

Refer to DEF-15, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> GO TO 1.

DOOR MIRROR DEFOGGER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

< SYMPTOM DIAGNOSIS >	
DOOR MIRROR DEFOGGER DOES NOT OPERATE BOTH SIDES	А
BOTH SIDES : Diagnosis Procedure	В
1. CHECK DOOR MIRROR DEFOGGER	Ь
Check door mirror defogger. Refer to DEF-17, "Component Function Check". Is the inspection result normal?	С
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	D
2.CONFIRM THE OPERATION Confirm the operation again.	Е
Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". NO >> GO TO 1. DRIVER SIDE	F
DRIVER SIDE : Diagnosis Procedure	G
1. CHECK DRIVER SIDE DOOR MIRROR DEFOGGER	
Check driver side door mirror defogger. Refer to DEF-18, "Component Function Check".	Н
Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION	ı
Confirm the operation again.	J
Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". NO >> GO TO 1. PASSENGER SIDE	K
PASSENGER SIDE : Diagnosis Procedure	DEF
1. CHECK PASSENGER SIDE DOOR MIRROR DEFOGGER.	M
Check passenger side door mirror defogger. Refer to DEF-20, "Component Function Check".	IVI
Is the inspection result normal? YES >> GO TO 2.	Ν
NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION	0
Confirm the operation again.	
Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". NO >> GO TO 1.	Р

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:0000000008155840

1. CHECK AV CONTROL UNIT FUNCTION

Check that the AV control unit is operating normally.

Base audio without navigation refer to AV-53, "Work Flow".

Bose audio without navigation refer to AV-170, "Work Flow".

Bose audio with navigation refer to AV-300, "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-42, "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:0000000008155841 1. CHECK MULTIFUNCTION SWITCH (REAR WINDOW DEFOGGER SWITCH) В Check rear window defogger operate. YES >> Replace multifunction switch (rear window defogger switch). Refer to AV-107, "Removal and Installation" NO >> Check rear window defogger system. Refer to DEF-3, "Work Flow" D Е F Н J Κ DEF M Ν 0

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

WARNING:

Always observe the following items for preventing accidental activation.

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

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

WARNING:

Always observe the following items for preventing accidental activation.

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

Precaution for Battery Service

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

Service Procedure Precautions for Models with a Pop-up Roll Bar

INFOID:0000000008155844

INFOID:0000000008155843

WARNING:

Always observe the following items for preventing accidental activation.

- Risk of passenger injury or death may increase if the pop-up roll bar does not deploy during a roll over collision. In order to reduce the chance of an incident where the pop-up roll bar is inoperative, all maintenance must be performed by a NISSAN or INFINITI dealer.
- Before removing and installing the pop-up roll bar component parts and harness, always turn the
 ignition switch OFF, disconnect the battery negative terminal, and wait for 3 minutes or more. (The
 purpose of this operation is to discharge electricity that is accumulated in the auxiliary power supply
 circuit in the air bag diagnosis sensor unit.)
- When repairing, removing, and installing a pop-up roll bar, always refer to SRS AIR BAG and SRS AIR BAG CONTROL warnings in the Service Manual.

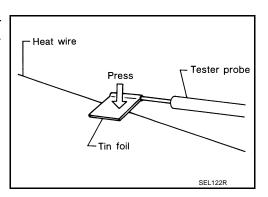
REMOVAL AND INSTALLATION

FILAMENT

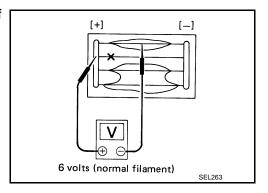
Inspection and Repair

INSPECTION

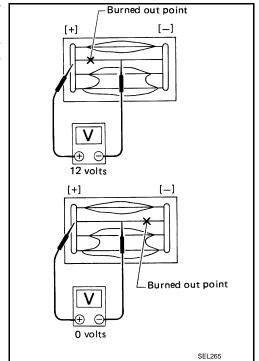
1. When measuring voltage, wrap tin foil around the top of the negative probe. Then press the foil against the wire with your finger.



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



- 3. 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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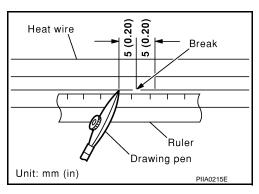
FILAMENT

< REMOVAL AND INSTALLATION >

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

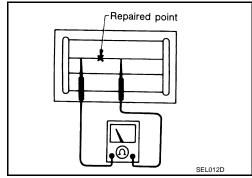
REPAIRING PROCEDURE

- 1. 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.
- 3. 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.

