SECTION DEF В DEFOGGER c

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< PRECAUTION > 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.

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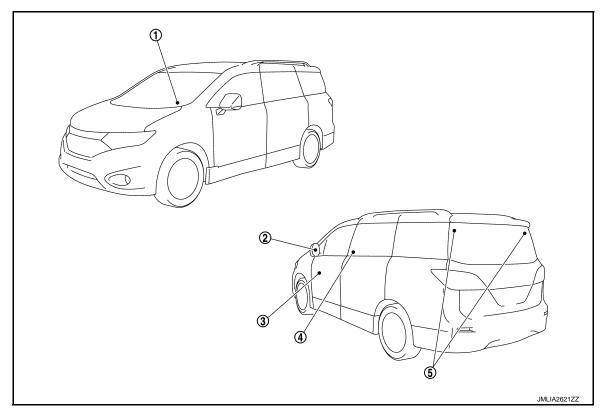
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< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION COMPONENT PARTS

Component Parts Location

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No.	Component	Function
1.	BCM	 Detects rear window defogger switch signal then turns rear window defogger relay ON. Performs the timer control of rear window defogger and door mirror defogger*³. Refer to <u>BCS-4</u>, "<u>BODY CONTROL SYSTEM</u> : <u>Component Parts Location</u>" for detailed installation location.
2.	Door mirror defogger*3	Refer to DEF-5, "Door mirror defogger".
3.	Rear window defogger relay (built in fuse block J/B)	Operates the rear window defogger and door mirror defogger* ³ with BCM control.
4.	 A/C auto amp.*¹ A/C amp.*² (Rear window defogger switch) 	 The rear window defogger switch is installed. Rear window defogger and door mirror defogger*³ are operated by turning the rear window defogger switch ON. The indicator lamp in the rear window defogger switch illuminates when the rear window defogger is operating. Refer to <u>HAC-8, "Component Parts Location"</u> for detailed installation location.
5.	Rear window defogger con- nector (Rear window defogger)	Refer to <u>DEF-5, "Rear window defogger"</u> .

*1: With auto A/C

*2: With manual A/C

*³: For models with door mirror defogger

< SYSTEM DESCRIPTION >

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.

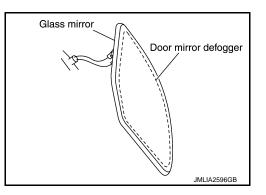
A Rear window defogger B Rear window defogger connector JMLIA2595GB

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Door mirror defogger

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



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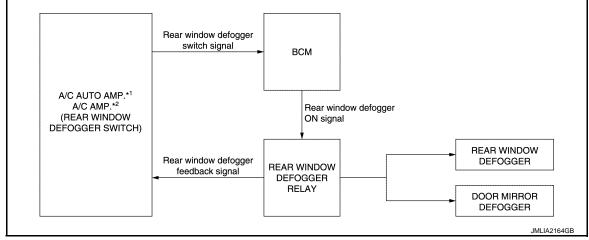
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< SYSTEM DESCRIPTION > SYSTEM

System Description

INFOID:000000008378160

SYSTEM DIAGRAM



*¹: With auto A/C

*2: With manual A/C

OPERATION DESCRIPTION

- When BCM receives rear window defogger switch signal, BCM transmits rear window defogger ON signal to rear window defogger relay (integrated in fuse block J/B) for approximately 15 minutes.
- When rear window defogger relay (integrated in fuse block J/B) turns ON, power supply is supplied to rear window defogger and door mirror defogger (For models with door mirror defogger).
- When rear window defogger and door mirror defogger (For models with door mirror defogger) are operated, rear window defogger feedback signal is transmitted to A/C auto amp.*¹ or A/C amp.*², and then indicator lamp of rear window defogger switch is turned ON.
- *¹: With auto A/C

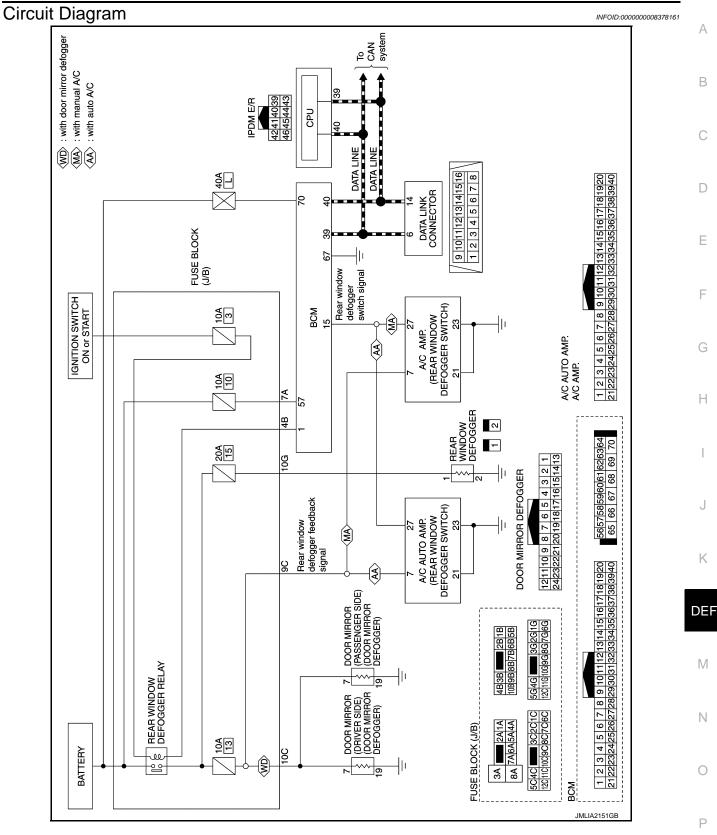
*²: With manual A/C

TIMER FUNCTION

- BCM transmits rear window defogger ON signal to rear window defogger relay (integrated in fuse block J/B) for approximately 15 minutes when rear window defogger switch is turned ON while ignition switch is ON.
- Timer is cancelled when rear window defogger switch is pressed again during timer operation. BCM stops the output of rear window defogger ON signal. The same reaction also occurs during timer operation when ignition switch is turned OFF.

SYSTEM

< SYSTEM DESCRIPTION >



< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM) COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000008378162

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	Read and save the vehicle specification.Write the vehicle specification when replacing BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system. **NOTE:**

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

Curata m	Out austan a la tian itan	Diagnosis mode		
System	Sub system selection item	Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp control system	INT LAMP	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
Air conditioning control system	AIR CONDITONER		×	×*
Intelligent Key systemEngine start system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
NVIS	IMMU	×	×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	AIR PRESSURE MONITOR	×	×	×

NOTE:

*: For models with automatic air conditioning control system, this diagnosis mode is not used.

FREEZE FRAME DATA (FFD)

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

DEF-8

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit	Description		
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected		
Odo/Trip Meter	km	Total mileage (Odomete	r value) of the moment a particular DTC is detected	
	SLEEP>LOCK	-	While turning BCM status from low power consumption mode to normal mode [Power supply position is OFF (LOCK)]	
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode [Power supply position is OFF (OFF)]	
	LOCK>ACC		While turning power supply position from OFF (LOCK) to ACC	
	ACC>ON		While turning power supply position from ACC to ON	
	RUN>ACC		While turning power supply position from RUN to ACC (Except emergency stop operation)	
	CRANK>RUN	Power position status of the moment a particular DTC is detected*	While turning power supply position from CRANK to RUN	
	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)	
Vehicle Condition	OFF>LOCK		While turning power supply position from OFF (OFF) to OFF (LOCK)	
	OFF>ACC		While turning power supply position from OFF (OFF) to ACC	
	ON>CRANK		While turning power supply position from ON to CRANK	
	OFF>SLEEP		While turning BCM status from normal mode [Power supply posi- tion is OFF (OFF)] to low power consumption mode	
	LOCK>SLEEP		While turning BCM status from normal mode [Power supply posi- tion is OFF (LOCK)] to low power consumption mode	
	LOCK		Power supply position is OFF (LOCK)	
	OFF		Power supply position is OFF (OFF)	
	ACC		Power supply position is ACC	
	ON		Power supply position is ON	
	ENGINE RUN		Power supply position is RUN	
	CRANKING		Power supply position is CRANK	
IGN Counter	0 - 39	 The number of times that ignition switch is turned ON after DTC is detected The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 338 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. 		

- *: Refer to the following for details of the power supply position.
- OFF (OFF, LOCK): Ignition switch OFF
- ACC: Ignition switch ACC
- IGN: Ignition switch ON with engine stopped
- · RUN: Ignition switch ON with engine running
- CRANK: At engine cranking

Power supply position shifts to "OFF (LOCK)" from "OFF (OFF)", when ignition switch is in the OFF position, shift position is in the P position, and any of the following conditions are met.

- · Closing door
- Opening door
- · Door is locked using door request switch
- Door is locked using Intelligent Key

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

REAR WINDOW DEFOGGER

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< SYSTEM DESCRIPTION >

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

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DATA MONITOR

NOTE:

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

Monitor Item	Monitor Item Description	
REAR DEF SW	Displays "Press (ON)/other (OFF)" status determined with the rear window defogger switch.	
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.

ECU DIAGNOSIS INFORMATION BCM

List of ECU Reference

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ECU	Reference	
	BCS-40, "Reference Value"	
ВСМ	BCS-62, "Fail-safe"	
	BCS-62, "DTC Inspection Priority Chart"	D
	BCS-63, "DTC Index"	

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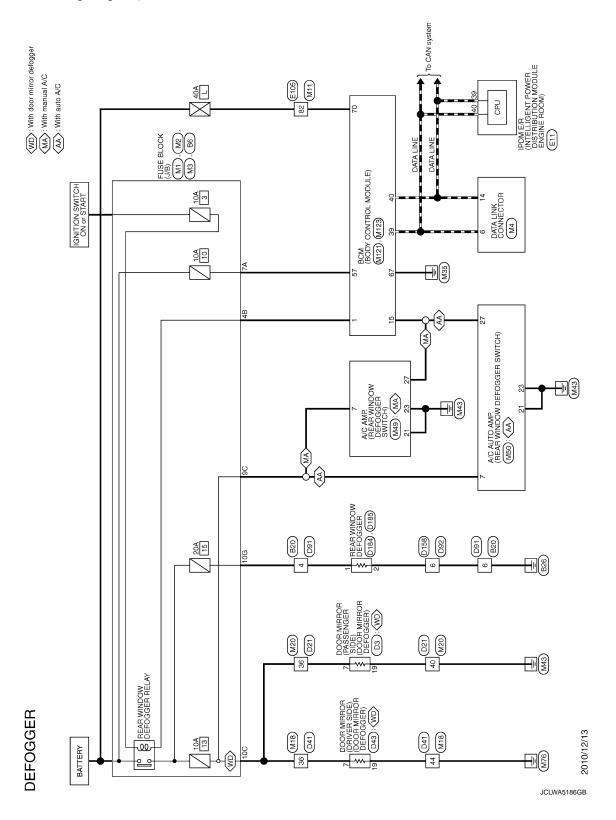
< WIRING DIAGRAM >

WIRING DIAGRAM REAR WINDOW DEFOGGER SYSTEM

Wiring Diagram

INFOID:000000008378165

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



< BASIC INSPECTION >	
BASIC INSPECTION	А
DIAGNOSIS AND REPAIR WORK FLOW	
Work Flow	В
DETAILED FLOW	
1.OBTAIN INFORMATION ABOUT SYMPTOM	С
Interview the customer to obtain the malfunction information (conditions and environment when the malfunc- tion occurred) as much as possible when the customer brings the vehicle in.	D
>> GO TO 2.	
2.CHECK FOR DTC	E
Perform self diagnosis with CONSULT	
Is any DTC detected?	F
YES >> BCM: Refer to <u>BCS-63, "DTC Index"</u> . NO >> GO TO 3.	I
3. REPRODUCE THE MALFUNCTION INFORMATION	G
Check the malfunction on the vehicle that the customer describes. Inspect the relation of the symptoms and the condition when the symptoms occur.	0
	Н
>> GO TO 4.	
4. IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"	I
Use "Symptom diagnosis" from the symptom inspection result in step 3. Then identify where to start perform- ing the diagnosis based on possible causes and symptoms.	I
>> GO TO 5.	J
5. IDENTIFY MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS"	
Perform the diagnosis with "Component diagnosis" of the applicable system.	Κ
>> GO TO 6.	
6. REPAIR OR REPLACE THE MALFUNCTIONING PARTS	DE
Repair or replace the specified malfunctioning parts.	
>> GO TO 7.	M
7.FINAL CHECK	
Check that malfunctions are not reproduced when obtaining the malfunction information from the customer, referring to the symptom inspection result in step 3.	Ν
Are all malfunctions corrected?	0
YES >> INSPECTION END NO >> GO TO 4.	
	Ρ

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS REAR WINDOW DEFOGGER SWITCH WITH AUTO A/C

WITH AUTO A/C : Component Function Check

1.CHECK REAR WINDOW DEFOGGER SWITCH FUNCTION

1. Perform ("REAR DEF SW") in BCM - REAR DEFOGGER "DATA MONITOR" mode by using CONSULT.

2. Operate rear window defogger switch and check Monitor Status on CONSULT screen.

Monitor Item	Condition		Monitor Status
REAR DEF SW	Rear window defogger switch	Pressed	On
	Thear window delogger switch	Released	Off

Is the inspection result normal?

YES >> Rear window defogger switch function is OK.

NO >> Refer to <u>DEF-14, "WITH AUTO A/C : Diagnosis Procedure"</u>.

WITH AUTO A/C : Diagnosis Procedure

1.CHECK AUTO A/C

Check the operating condition of auto A/C

Does auto A/C operate normally?

YES >> GO TO 2.

NO >> Perform auto A/C diagnosis. Refer to <u>HAC-64, "Work Flow"</u>.

2. CHECK BCM OUTPUT SIGNAL

1. Turn ignition switch OFF.

2. Disconnect A/C auto amp. connector.

3. Check voltage between A/C auto amp. harness connector and ground by oscilloscope.

	(+) A/C auto amp.		Voltage (Approx.)	
Connector	Terminal	-	(Approx.)	
M50	27	Ground	(V) 15 10 5 0 10 ms JPMIA0012GB	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3.CHECK REAR WINDOW DEFOGGER SWITCH CIRCUIT

1. Disconnect BCM connector.

2. Check continuity between BCM harness connector and A/C auto amp. harness connector.

BCM		A/C auto amp.		Continuity	
Connector	Terminal	Connector Terminal			
M121	15	M50	27	Existed	

3. Check continuity between BCM harness connector and ground.

DEF-14

INFOID:000000008378167

INFOID:000000008378168

REAR WINDOW DEFOGGER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

B	СМ		
Connector	Terminal	Ground	Continuity
M121	15		Not existed
<u>s the inspection result norm</u> YES >> Replace BCM. F NO >> Repair or replac 4. REPLACE A/C AUTO AM	Refer to <u>BCS-86, "Remova</u> e harness.	l and Installation".	
 Turn ignition switch OFF Replace A/C auto amp. Turn ignition switch ON. Operate rear window desthe inspection result norm YES >> INSPECTION E NO >> GO TO 5. CHECK INTERMITTENT Refer to GI-42, "Intermittent is the inspection result norm >> INSPECTION E 	fogger switch and check th <u>al?</u> ND. INCIDENT <u>Incident"</u> . <u>al?</u>	ne operating condition.	
WITH MANUAL A/C			
WITH MANUAL A/C : 1. CHECK REAR WINDOW 1. Perform ("REAR DEF S	DEFOGGER SWITCH FL	INCTION IGGER "DATA MONITOR"	mode by using CONSULT. T screen.
WITH MANUAL A/C : 1.CHECK REAR WINDOW 1. Perform ("REAR DEF S" 2. Operate rear window de	DEFOGGER SWITCH FL W") in BCM - REAR DEFO fogger switch and check M	INCTION IGGER "DATA MONITOR" Ionitor Status on CONSUL	mode by using CONSULT. T screen.
WITH MANUAL A/C : 1. CHECK REAR WINDOW 1. Perform ("REAR DEF S	DEFOGGER SWITCH FL W") in BCM - REAR DEFO fogger switch and check M	INCTION IGGER "DATA MONITOR"	mode by using CONSULT.
WITH MANUAL A/C : 1. CHECK REAR WINDOW 1. Perform ("REAR DEF S" 2. Operate rear window de Monitor Item REAR DEF SW	DEFOGGER SWITCH FL W") in BCM - REAR DEFO fogger switch and check M Con Rear window defogger switch	INCTION GGER "DATA MONITOR" Ionitor Status on CONSUL	mode by using CONSULT. T screen. Monitor Status
WITH MANUAL A/C : 1.CHECK REAR WINDOW 1. Perform ("REAR DEF S" 2. Operate rear window de Monitor Item REAR DEF SW (s the inspection result norm YES >> Rear window de	DEFOGGER SWITCH FL W") in BCM - REAR DEFO fogger switch and check M Con Rear window defogger switch al? fogger switch function is C 5. "WITH MANUAL A/C : D	INCTION OGGER "DATA MONITOR" Ionitor Status on CONSUL dition Pressed Released K. iagnosis Procedure".	mode by using CONSULT. T screen. Monitor Status On
WITH MANUAL A/C : 1.CHECK REAR WINDOW 1. Perform ("REAR DEF S" 2. Operate rear window de Monitor Item REAR DEF SW Is the inspection result norm YES >> Rear window de NO >> Refer to DEF-15 WITH MANUAL A/C : 1.CHECK MANUAL A/C Check the operating condition Does manual A/C operate no YES >> GO TO 2.	DEFOGGER SWITCH FL W") in BCM - REAR DEFO fogger switch and check M Con Rear window defogger switch al? fogger switch function is C 5. "WITH MANUAL A/C : D Diagnosis Procedure on of manual A/C ormally? A/C diagnosis. Refer to H	INCTION GGER "DATA MONITOR" Ionitor Status on CONSUL dition Pressed Released K. iagnosis Procedure".	mode by using CONSULT. T screen. Monitor Status On Off

REAR WINDOW DEFOGGER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

	(+) A/C amp.		Voltage (Approx.)	
Connector	Terminal	-	(Αμριόλ.)	
M49	27	Ground	(V) 15 10 5 0 10 ms JPMIA0012GB	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3.CHECK REAR WINDOW DEFOGGER SWITCH CIRCUIT

1. Disconnect BCM connector.

2. Check continuity between BCM harness connector and A/C amp. harness connector.

BCM		A/C amp.		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M121	15	M49	27	Existed

3. Check continuity between BCM harness connector and ground.

ВС	BCM		Continuity	
Connector	ConnectorTerminalM12115		Continuity	
M121			Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-86, "Removal and Installation"</u>.

NO >> Repair or replace harness.

4.REPLACE A/C AMP.

- 1. Turn ignition switch OFF.
- 2. Replace A/C amp.
- 3. Turn ignition switch ON.

4. Operate rear window defogger switch and check the operating condition.

Is the inspection result normal?

YES >> INSPECTION END.

NO >> GO TO 5.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

Is the inspection result normal?

>> INSPECTION END

REAR WINDOW DEFOGGER RELAY

< DTC/CIRCUIT DIA					
REAR WINDO	W DEFOGO	ER RELAY			А
Component Fun	ction Check				INFOID:000000008378171
1. CHECK REAR W		GER RELAY PO	WER SUPPLY CI	RCUIT	В
 Touch "ON". Check that the rest 	ctive Test ("REAR ear window heatir				C
	ndow defogger rel DEF-17, "Diagno		circuit function is	SOK.	D
Diagnosis Proce	dure				INFOID:00000008378172
1. CHECK FUSE					E
Is the inspection resu	[No.3, located in ult normal?	fuse block (J/B)]			F
YES >> GO TO 2 NO >> Replace 2. CHECK REAR W	the blown fuse a	• •	affected circuit if	a fuse is blown.	G
 Turn ignition swi Check voltage be 	tch ON. etween BCM harr	ness connector a	ind ground.		F
(+)				
BC		()	Co	ndition	Voltage (V) (Approx.)
Connector	Terminal			ON	0-0.6
M121	1	Ground	Rear window de- fogger switch	OFF	J 9 – 16
	6. FO 3. >Replace BCM. F INDOW DEFOGO tch OFF. I connector and fu	GER CIRCUIT 2 use block (J/B).		<u>stallation"</u> . J/B) harness conr	K DE nector.
	BCM		Fuse block (J/B)	Continuity
Connector	Terminal	Con	nector	Terminal	Continuity
M121	1	1	M2	4B	Existed
Is the inspection result YES >> GO TO 4 NO >> Repair o 4.CHECK REAR W	4. r replace harness				C
Check rear window of Refer to <u>DEF-18</u> , "Co <u>Is the inspection resu</u> YES >> GO TO 5	omponent Inspect ult normal?				

NO >> Replace rear window defogger relay.

5.CHECK FUSE BLOCK (J/B)

REAR WINDOW DEFOGGER RELAY

< DTC/CIRCUIT DIAGNOSIS >

- 1. Install the rear window defogger relay.
- 2. Turn ignition switch ON.

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

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

Is the inspection result normal?

YES >> GO TO 7.

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

6.CHECK REAR WINDOW DEFOGGER RELAY 2

Check rear window defogger relay.

Refer to <u>DEF-18</u>, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace rear window defogger relay.

7. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

>> INSPECTION END

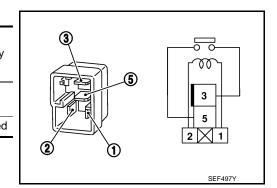
Component Inspection

1.CHECK REAR WINDOW DEFOGGER RELAY

1. Turn ignition switch OFF.

- 2. Disconnect rear window defogger relay.
- 3. Check rear window defogger relay.

1	D	·		
_	Rear window defogger relay		Condition	Continuity
-	Terr	ninal		
	3	5	12 V direct current supply between termi- nals 1 and 2	Existed
-			No current supply	Not existed



Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace rear window defogger relay.

INFOID:000000008378173

< DTC/CIRCUIT DIAGNOSIS >				
REAR WINDOW DEFC	OGGER			
Component Function Che	ck			INFOID:00000008378174
1.CHECK REAR WINDOW DEI	FOGGER			
 Perform Active Test ("REAR Touch "ON". Check that the rear window I 	,			
<u>Is the inspection result normal?</u> YES >> Rear window defogg				
NO >> Refer to <u>DEF-19, "D</u>	agnosis Procedur	r <u>e"</u> .		
Diagnosis Procedure				INFOID:000000008378175
1.CHECK FUSE				
 Turn ignition switch OFF. Check 20A fuse [No.15, local 	ted in fuse block	(J/B)].		
Is the inspection result normal?				
YES >> GO TO 2. NO >> Replace the blown fu	use after repairing	the affected circuit if a	a fuse is blown.	
2.CHECK POWER SUPPLY CI				
 Disconnect rear window defo Turn ignition switch ON. Check voltage between rear 			1.	
(+)				
Rear window defogger	(-)	Condit	ion	Voltage (V)
Connector Terminal				(Approx.)
D184 1	Ground	Rear window defogger switch	ON	Battery voltage
Is the inspection result normal?		SWIICH	OFF	0
YES >> GO TO 3. NO >> GO TO 4.				
3. CHECK GROUND CIRCUIT 1. Turn ignition switch OFF.				
 Turn ignition switch OFF. Check continuity between re 	ar window defogg	er harness connector	and ground.	
Rear window de	fogger			Continuity
Connector	Terminal	Ground		-
D185 Is the inspection result normal?	2			Existed
YES >> GO TO 6. NO >> Repair or replace ha	rness or connecto	or between rear window	w defender and a	around
4.CHECK REAR WINDOW DEI			พ นธาบบูบูธา สาเน เ	ground.
 Turn ignition switch OFF. Disconnect fuse block (J/B) 				

REAR WINDOW DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

Fuse bl	Fuse block (J/B)		Rear window defogger		
Connector	Terminal	Connector Terminal		Continuity	
B6	10G	D184	1	Existed	

Is the inspection result normal?

YES >> GO TO 5.

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

5.CHECK FUSE BLOCK (J/B)

1. Turn ignition switch ON.

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

	+) ock (J/B)	(-) Condition		Condition	
Connector	Terminal				(Approx.)
B6	10G	Ground	Rear window defogger	ON	Battery voltage
Во	100	Ground	switch	OFF	0

Is the inspection result normal?

YES >> GO TO 7.

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

6.CHECK FILAMENT

Check the filament for damage or blown.

Refer to DEF-33, "Inspection and Repair".

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair filament.

I.CHECK INTERMITTENT INCIDENT

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

>> INSPECTION END

< DTC/CIRCUIT DI					
	DR DEFOGO	SER			
Component Fur	nction Check				INFOID:00000008378176
1.CHECK DOOR N		GER			
	Test ("REAR DEF	OGGER") with	CONSULT.		
 Touch "ON". Check that both 	side door mirror	glasses are ge	tting warmer.		
s the inspection res	ult normal?		-		
	irror defoggers ar DEF-21, "Diagno		".		
Diagnosis Proce			-		INFOID:00000008378177
.CHECK DOOR N					
. Turn ignition sw		JER CIRCUIT			
. Disconnect doo	r mirror (both side	es) connectors.			
. Turn ignition sw . Check voltage b		or (driver side)	connector and grour	nd.	
		,			
		(-)	Condition		Voltage (V)
Connector	Terminal	()			(Approx.)
D43	7	Ground	Rear window defogger	ON	Battery voltage
			switch	OFF	0
<u>the inspection res</u> YES >> GO TO					
NO >> GO TO					
CHECK FUSE B					
 Turn ignition sw Disconnect fuse 	itch OFF. e block (J/B) harne	ess connector			
Turn ignition sw	itch ON.		tor (fuse block side) a		
	between fuse bloc	K (J/D) CONNEC	tor (luse block side) a	and ground.	
	+)				Voltage (V)
Fuse bio	ock (J/B) Terminal	(-)	Conditi	on	(Approx.)
			Rear window defogger	ON	Battery voltage
M3	10C	Ground	switch	OFF	0
the inspection res					
	or replace harnes e fuse block (J/B).		between fuse block (J/B) and door m	hirror (driver side).

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

Is the inspection result normal?

>> INSPECTION END

Ρ

< DTC/CIRCUIT DIAGNOSIS >

DRIVER SIDE DOOR MIRROR DEFOGGER

Component Function Check

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-22</u>, "Diagnosis Procedure".

Diagnosis Procedure

1.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect door mirror (driver side) connector.

3. Turn ignition switch ON.

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

	+) (driver side)	(-) Condition	Condition		Voltage (V) (Approx.)
Connector	Terminal				(, , , , , , , , , , , , , , , , , , ,
D43	7	Ground	Rear window defogger	ON	Battery voltage
D43	1	Giouna	switch	OFF	0

Is the inspection result normal?

YES >> GO TO 2.

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

2. CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.

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

Door mirror	(driver side)		Continuity
Connector	Connector Terminal		Continuity
D43	19		Existed

Is the inspection result normal?

YES >> Replace glass mirror (driver side).

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

INFOID:000000008378178

INFOID:000000008378179

PASSENG	ER SIDE DOO	R MIRROR	R DEFOGGER						
Component	Function Check				INFOID:00000008378180				
1. CHECK PAS	SENGER SIDE DOC	OR MIRROR DE	FOGGER						
1. Perform Ac 2. Touch "ON	tive Test ("REAR DE	FOGGER") with	CONSULT.						
3. Check that	the passenger side d	loor mirror glass	s is getting warmer.						
	<u>n result normal?</u> ssenger side door mii	rror defogger is	OK						
	fer to <u>DEF-23, "Diagn</u>								
Diagnosis P	rocedure				INFOID:000000008378181				
	VER SUPPLY CIRCU	ШΤ							
	n switch OFF.								
2. Disconnec	door mirror (passeng	ger side) connec	ctor.						
	n switch ON. age between door mir	rror (passenger	side) harness connec	tor and ground.					
	(+)	<u> </u>							
Door mir	ror (Passenger side)	(-)	Conditio	on	Voltage (V)				
Connecto		_			(Approx.)				
D3	7	Ground	Rearwindowdefogger	ON	Battery voltage				
	n result normal?		switch	OFF	0				
NO >> Re sid 2.CHECK GR 1. Turn ignitic	e). OUND CIRCUIT n switch OFF. inuity between door r	mirror (passenge	or between fuse block er side) harness conn						
	Door mirror (passenger	side)	Continuity						
			Ground		Continuity				
	nector	Terminal 19	Ground		Continuity Existed				
[nector	Terminal	Ground		·				

REAR WINDOW DEFOGGER FEEDBACK SIGNAL

< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER FEEDBACK SIGNAL

WITH AUTO A/C

WITH AUTO A/C : Component Function Check

1.CHECK REAR WINDOW DEFOGGER FEEDBACK SIGNAL

Check that the indicator lamp of rear window defogger switch is illuminated when turning the rear window defogger switch ON.

Is the inspection result normal?

- YES >> Rear window defogger feedback signal is OK.
- NO >> Refer to <u>DEF-24</u>, "WITH AUTO A/C : Diagnosis Procedure".

WITH AUTO A/C : Diagnosis Procedure

1.CHECK FUSE

- 1. Turn ignition switch OFF.
- 2. Check 10A fuse [No.13, located in fuse block (J/B)]

Is the inspection result normal?

YES >> GO TO 2.

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

2.CHECK REAR WINDOW DEFOGGER FEEDBACK SIGNAL

1. Disconnect A/C auto amp. connector.

- 2. Turn ignition switch ON.
- 3. Check voltage between A/C auto amp. harness connector and ground.

	+) to amp.		Condition		Voltage (V) (Approx.)
Connector	Terminal				(Appiox.)
M50	7 Ground Rear wi		Rear window defogger	ON	Battery voltage
IVIOU	1	Ground	switch	OFF	0

Is the inspection result normal?

YES >> Replace A/C auto amp.

NO >> GO TO 3.

3.CHECK REAR WINDOW DEFOGGER CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect fuse block (J/B) connector.

3. Check continuity between fuse block (J/B) harness connector and A/C auto amp. harness connector.

Fuse bl	ock (J/B)	A/C auto amp.		A/C auto amp.		Continuity
Connector	Terminal	Connector				
M3	9C	M50	7	Existed		

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

Fuse bl	ock (J/B)		Continuity
Connector	Connector Terminal		Continuity
M3	9C		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK FUSE BLOCK (J/B)

INEOID:000000008378183

INFOID:000000008378182

REAR WINDOW DEFOGGER FEEDBACK SIGNAL

< DTC/CIRCUIT DIAGNOSIS >

1.

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

(+) Fuse block (J/B)			Voltage		Voltage (V)				
		(-)	Conditio	Londition	(Approx.)				
Connector	Terminal		Rear window defogger ON Bat	Rear window defogger ON Bi	Roor window defeager ON Br				Detter line
М3	9C	Ground	Rear window defogger	ON	Battery voltage				
the inspection re				-					
(ES >> GO TC NO >> Replac) 5. ce fuse block (J/E	3)							
	MITTENT INCIDE	,							
heck intermittent									
	ermittent Inciden	<u>t"</u> .							
	CTION END								
/ITH MANUA									
	L A/C : Comp	onent Fun	ction Check						
					INFOID:0000000837818				
	WINDOW DEFO								
heck that the inc fogger switch Ol		ear window de	fogger switch is illumina	ted when tu	ning the rear window				
the inspection re									
	vindow defogger								
			al is OK. C : Diagnosis Procedure'						
NO >> Refer		H MANUAL A/	C : Diagnosis Procedure		INFOID:0000000837818				
NO >> Refer	to <u>DEF-25, "WITH</u>	H MANUAL A/	C : Diagnosis Procedure		INFOID:00000000837818				
NO >> Refer to /ITH MANUA .CHECK FUSE Turn ignition sv	to <u>DEF-25, "WITH</u> L A/C : Diagn witch OFF.	H MANUAL A/	<u>C : Diagnosis Procedure'</u> dure		INFOID:00000000837818				
NO >> Refer to /ITH MANUA .CHECK FUSE Turn ignition so Check 10A fus	to <u>DEF-25, "WITH</u> L A/C : Diagn witch OFF. se [No.13, located	H MANUAL A/	<u>C : Diagnosis Procedure'</u> dure		INFOID:00000000837818				
NO >> Refer to VITH MANUA CHECK FUSE Turn ignition so Check 10A fus the inspection re	to <u>DEF-25, "WITH</u> L A/C : Diagn witch OFF. se [No.13, located esult normal?	H MANUAL A/	<u>C : Diagnosis Procedure'</u> dure		INFOID:00000000837818				
NO >> Refer to /ITH MANUA .CHECK FUSE Turn ignition so Check 10A fus the inspection re (ES >> GO TO	to <u>DEF-25, "WITH</u> L A/C : Diagn witch OFF. se [No.13, located sult normal? D 2.	H MANUAL A/	<u>C : Diagnosis Procedure'</u> dure		INFOID:00000000837818				
NO >> Refer to /ITH MANUA .CHECK FUSE Turn ignition so Check 10A fus the inspection ref (ES >> GO TO NO >> Replace	to <u>DEF-25, "WITH</u> L A/C : Diagn witch OFF. se [No.13, located sult normal? D 2.	A MANUAL A/	<u>C : Diagnosis Procedure'</u> dure (J/B)] g the affected circuit if a fi		INFOID:00000000837818				
NO >> Refer to /ITH MANUA .CHECK FUSE Turn ignition so Check 10A fus the inspection ref /ES >> GO TO NO >> Replace .CHECK REAR 12 Disconnect A/0	to <u>DEF-25, "WITH</u> L A/C : Diagn witch OFF. se [No.13, located sult normal? D 2. ce the blown fuse WINDOW DEFO C amp. connecto	H MANUAL A/	<u>C : Diagnosis Procedure'</u> dure (J/B)] g the affected circuit if a fi		INFOID:00000000837818				
NO >> Refer to /ITH MANUA .CHECK FUSE Turn ignition so Check 10A fus the inspection ref /ES >> GO TO NO >> Replace .CHECK REAR 10 Disconnect A/0 Turn ignition so	to <u>DEF-25, "WITH</u> L A/C : Diagn witch OFF. te [No.13, located sult normal? D 2. te the blown fuse WINDOW DEFO C amp. connecto witch ON.	H MANUAL A/ Dosis Proce	<u>C : Diagnosis Procedure'</u> dure (J/B)] g the affected circuit if a fe BACK SIGNAL		INFOID:00000000837818				
NO >> Refer to /ITH MANUA .CHECK FUSE Turn ignition so Check 10A fus the inspection ref (ES >> GO TO NO >> Replace .CHECK REAR Disconnect A/C Turn ignition so Check voltage	to <u>DEF-25, "WITH</u> L A/C : Diagn witch OFF. se [No.13, located sult normal? D 2. ce the blown fuse WINDOW DEFO C amp. connecto witch ON. between A/C am	H MANUAL A/ Dosis Proce	<u>C : Diagnosis Procedure'</u> dure (J/B)] g the affected circuit if a fi		INFOID:00000000837816				
NO >> Refer to /ITH MANUA .CHECK FUSE Turn ignition so Check 10A fus the inspection ref /ES >> GO TO NO >> Replace .CHECK REAR ' Disconnect A/0 Turn ignition so Check voltage	to <u>DEF-25, "WITH</u> L A/C : Diagn witch OFF. te [No.13, located sult normal? D 2. te the blown fuse WINDOW DEFO C amp. connecto witch ON. between A/C am	H MANUAL A/ OSIS Proce in fuse block after repairing GGER FEEDE r. op. harness co	C : Diagnosis Procedure' dure (J/B)] g the affected circuit if a f BACK SIGNAL nnector and ground.		Voltage (V)				
NO >> Refer to /ITH MANUA .CHECK FUSE Turn ignition so Check 10A fus the inspection ref (ES >> GO TO NO >> Replace .CHECK REAR Disconnect A/C Turn ignition so Check voltage	to <u>DEF-25</u> , "WITH L A/C : Diagn witch OFF. se [No.13, located sult normal? D 2. ce the blown fuse WINDOW DEFO C amp. connecto witch ON. between A/C am	H MANUAL A/ Dosis Proce	<u>C : Diagnosis Procedure'</u> dure (J/B)] g the affected circuit if a fe BACK SIGNAL						
NO >> Refer to /ITH MANUA .CHECK FUSE Turn ignition so Check 10A fus the inspection ref /ES >> GO TO NO >> Replace .CHECK REAR ' Disconnect A/0 Turn ignition so Check voltage	to <u>DEF-25, "WITH</u> L A/C : Diagn witch OFF. te [No.13, located sult normal? D 2. te the blown fuse WINDOW DEFO C amp. connecto witch ON. between A/C am	H MANUAL A/ OSIS Proce in fuse block after repairing GGER FEEDE r. op. harness co	C : Diagnosis Procedure' dure (J/B)] g the affected circuit if a f BACK SIGNAL nnector and ground. Condition		Voltage (V) (Approx.)				
NO >> Refer to /ITH MANUA .CHECK FUSE Turn ignition so Check 10A fus the inspection ref (ES >> GO TO NO >> Replace .CHECK REAR Disconnect A/C Turn ignition so Check voltage	to <u>DEF-25</u> , "WITH L A/C : Diagn witch OFF. se [No.13, located sult normal? D 2. ce the blown fuse WINDOW DEFO C amp. connecto witch ON. between A/C am	H MANUAL A/ OSIS Proce in fuse block after repairing GGER FEEDE r. op. harness co	C : Diagnosis Procedure' dure (J/B)] g the affected circuit if a f BACK SIGNAL nnector and ground.	use is blown.	Voltage (V)				
NO >> Refer to /ITH MANUA .CHECK FUSE Turn ignition so Check 10A fuse the inspection ref /ES >> GO TO NO >> Replace .CHECK REAR ' Disconnect A/0 Turn ignition so Check voltage (+ A/C a Connector	to <u>DEF-25, "WITH</u> L A/C : Diagn witch OFF. se [No.13, located sult normal? D 2. ce the blown fuse WINDOW DEFO C amp. connecto witch ON. between A/C am Terminal	H MANUAL A/ Dosis Proce d in fuse block e after repairing GGER FEEDE r. np. harness co (-)	C : Diagnosis Procedure' dure (J/B)] g the affected circuit if a fr BACK SIGNAL nnector and ground. Condition Rear window defogger	use is blown.	Voltage (V) (Approx.) Battery voltage				
NO >> Refer to /ITH MANUA .CHECK FUSE Turn ignition so Check 10A fus the inspection ref (ES >> GO TO NO >> Replace .CHECK REAR Disconnect A/C Turn ignition so Check voltage (+ A/C a Connector M49 the inspection ref	to <u>DEF-25</u> , "WITH L A/C : Diagn witch OFF. se [No.13, located sult normal? 0 2. ce the blown fuse WINDOW DEFO C amp. connecto witch ON. between A/C am Terminal 7 sult normal? ce A/C amp.	H MANUAL A/ Dosis Proce d in fuse block e after repairing GGER FEEDE r. np. harness co (-)	C : Diagnosis Procedure' dure (J/B)] g the affected circuit if a fr BACK SIGNAL nnector and ground. Condition Rear window defogger	use is blown.	Voltage (V) (Approx.) Battery voltage				

iginu 2. Disconnect fuse block (J/B) connector. А

REAR WINDOW DEFOGGER FEEDBACK SIGNAL

< DTC/CIRCUIT DIAGNOSIS >

3. Check continuity between fuse block (J/B) harness connector and A/C amp. harness connector.

Fuse bl	ock (J/B)	A/C amp. Connector Terminal		Continuity	
Connector	Terminal				
M3	9C	M49	7	Existed	

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

Fuse blo	ock (J/B)		Continuity
Connector	Connector Terminal		Continuity
M3	9C		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK FUSE BLOCK (J/B)

1. Turn ignition switch ON.

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

	+) ock (J/B)	(-)	(-) Condition		Voltage (V) (Approx.)
Connector	Terminal				(//pp/0x.)
M3	9C	Ground	Rear window defogger	ON	Battery voltage
CIVI	90	Giouna	switch	OFF	0

Is the inspection result normal?

YES >> GO TO 5.

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

5.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

REAR WINDOW DEFOGGER DOES NOT OPERATE
< SYMPTOM DIAGNOSIS >
SYMPTOM DIAGNOSIS
REAR WINDOW DEFOGGER DOES NOT OPERATE
Description
For models without door mirror defogger.
Diagnosis Procedure
1.CHECK REAR WINDOW DEFOGGER SWITCH
Check rear window defogger switch.
Refer to <u>DEF-14</u> , "WITH AUTO A/C : Component Function Check" (with auto A/C) or <u>DEF-15</u> , "WITH MAN- <u>UAL A/C : Component Function Check"</u> (with manual A/C).
Is the inspection result normal?
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.
2. CHECK REAR WINDOW DEFOGGER RELAY
Check rear window defogger relay.
Refer to <u>DEF-17, "Component Function Check"</u> . Is the inspection result normal?
YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.
3. CHECK REAR WINDOW DEFOGGER
Check rear window defogger.
Refer to <u>DEF-19</u> , "Component Function Check". Is the inspection result normal?
YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.
4.CONFIRM THE OPERATION
Confirm the operation again.
Is the inspection result normal?
YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> . NO >> GO TO 1.

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Revision: 2012 August

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

< SYMPTOM DIAGNOSIS >

REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGERS DO NOT OPERATE

Description

INFOID:000000008378188

For models with door mirror defogger.

Diagnosis Procedure

INFOID:000000008378189

1.CHECK REAR WINDOW DEFOGGER SWITCH

Check rear window defogger switch.

Refer to <u>DEF-14</u>, "WITH AUTO A/C : Component Function Check" (with auto A/C) or <u>DEF-15</u>, "WITH MAN-UAL A/C : Component Function Check" (with manual A/C).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK REAR WINDOW DEFOGGER RELAY

Check rear window defogger relay. Refer to DEF-17, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK REAR WINDOW DEFOGGER

Check rear window defogger.

Refer to DEF-19, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

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

NO >> GO TO 1.

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

REAR WINDOW DEFOGGER DOES NOT OPERATE BUT BOTH DOOR A MIRROR DEFOGGERS OPERATE Description Description INFOIL:00000008379197 B For models with door mirror defogger. Diagnosis Procedure INFOIL:00000008379197 C 1.CHECK REAR WINDOW DEFOGGER INFOIL:00000008379197 C C Check rear window defogger. Refer to <u>DEF-19, "Component Function Check".</u> D D Is the inspection result normal? YES >> GO TO 2. E D Q.CONFIRM THE OPERATION C E C Confirm the operation again Is the inspection result normal? F YES >> Check intermittent incident. Refer to <u>GI-42. "Intermittent Incident".</u> G G	< SYMPTOM DIAGNOSIS >		
For models with door mirror defogger. Diagnosis Procedure 1.CHECK REAR WINDOW DEFOGGER Check rear window defogger. Refer to DEF-19, "Component Function Check". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION Confirm the operation again Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-42. "Intermittent Incident".		H DOOR	A
For models with door mirror defogger. Diagnosis Procedure INFOLD:00000008378191 1.CHECK REAR WINDOW DEFOGGER Check rear window defogger. Refer to DEF-19, "Component Function Check". Is the inspection result normal? YES PACONFIRM THE OPERATION Confirm the operation again Is the inspection result normal? YES > Confirm the operation again Is the inspection result normal? YES YES > Check intermittent incident. Refer to GI-42, "Intermittent Incident".	Description	INFOID:000000008378190	B
1.CHECK REAR WINDOW DEFOGGER Check rear window defogger. Refer to DEF-19, "Component Function Check". Is the inspection result normal? YES YES NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION Confirm the operation again Is the inspection result normal? YES YES YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".	For models with door mirror defogger.		D
Check rear window defogger. P Refer to DEF-19, "Component Function Check". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION F Confirm the operation again F Is the inspection result normal? YES YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".	Diagnosis Procedure	INFOID:000000008378191	С
Refer to DEF-19, "Component Function Check". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION Confirm the operation again Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".	1.CHECK REAR WINDOW DEFOGGER		
YES >> GO TO 2. E NO >> Repair or replace the malfunctioning parts. E 2.CONFIRM THE OPERATION Confirm the operation again F Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". Confirm the operation operatin operatin operatin operation operatin operation operation operat			D
Confirm the operation again F Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".	YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.		E
<u>Is the inspection result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .			_
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DOOR MIRROR DEFOGGER DOES NOT OPERATE < SYMPTOM DIAGNOSIS >	
DOOR MIRROR DEFOGGER DOES NOT OPERATE BOTH SIDES	
BOTH SIDES : Description	INFOID:000000008378192
Driver side and passenger side door mirror defoggers do not operate. BOTH SIDES : Diagnosis Procedure	INFOID:000000008378193
1. CHECK DOOR MIRROR DEFOGGER	
Check door mirror defogger. Refer to DEF-21, "Component Function Check". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION Confirm the operation again. Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".	
NO >> GO TO 1. DRIVER SIDE	
DRIVER SIDE : Description	INFOID:000000008378194
Driver side door mirror defogger does not operate.	
DRIVER SIDE : Diagnosis Procedure	INFOID:000000008378195
1. CHECK DRIVER SIDE DOOR MIRROR DEFOGGER	
Check driver side door mirror defogger. Refer to <u>DEF-22</u> , "Component Function Check". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2. CONFIRM THE OPERATION Confirm the operation again. Is the inspection result normal? YES >> Check intermittent incident. Refer to <u>GI-42</u> , "Intermittent Incident".	
NO >> GO TO 1. PASSENGER SIDE	
PASSENGER SIDE : Description	INFOID:000000008378196
Passenger side door mirror defogger does not operate. PASSENGER SIDE : Diagnosis Procedure	INFOID:000000008378197
1. CHECK PASSENGER SIDE DOOR MIRROR DEFOGGER.	
Check passenger side door mirror defogger. Refer to <u>DEF-23</u> , "Component Function Check". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION	

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DOOR MIRROR DEFOGGER DOES NOT OPERATE

< SYM	IPTOM DIAGNOSIS >	
	n the operation again.	
	inspection result normal?	A
YES	>> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	
NO	>> GO TO 1.	В
		С
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REAR WINDOW DEFOGGER INDICATOR DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >

REAR WINDOW DEFOGGER INDICATOR DOES NOT ILLUMINATE

Diagnosis Procedure

INFOID:000000008378198

1.CHECK REAR WINDOW DEFOGGER FEEDBACK SIGNAL

Check rear window defogger feedback signal.

Refer to <u>DEF-24</u>, "WITH AUTO A/C : Component Function Check" (With auto A/C) or <u>DEF-25</u>, "WITH MAN-UAL A/C : Component Function Check" (With manual A/C).

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 <u>GI-42, "Intermittent Incident"</u>.

NO >> GO TO 1.

< REMOVAL AND INSTALLATION > **REMOVAL AND INSTALLATION** FILAMENT

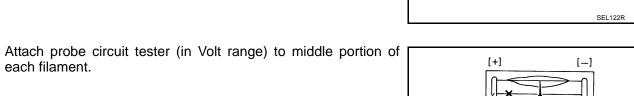
Inspection and Repair

INSPECTION

2.

each filament.

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



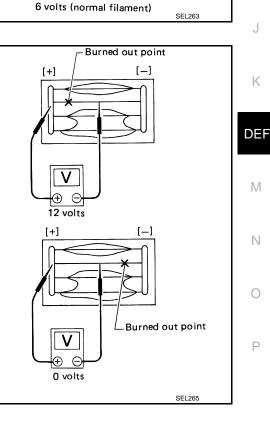
- Heat wire

Press

∠ Tin foil

Æ e

- 3. If a filament is burned out, circuit tester registers 0 or battery voltage.
- 4. 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)

DEF-33

А

В

С

D

Е

F

Н

INFOID:000000008378199

Tester probe

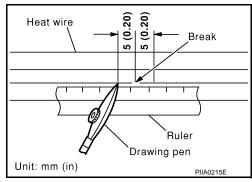
- < REMOVAL AND INSTALLATION >
- Ruler 30 cm (11.8 in) long
- Drawing pen
- Heat gun
- Alcohol
- Cloth

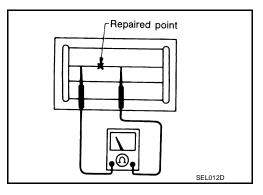
REPAIRING PROCEDURE

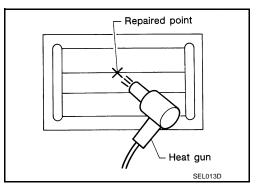
- 1. Wipe broken heat wire and its surrounding area clean with a cloth dampened in alcohol.
- 2. Apply a small amount of conductive silver composition to tip of drawing pen.

Shake silver composition container before use.

 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.

5. 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.