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PRECAUTIONS

< 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 SR and SB section of this Service Manual.

WARNING:

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

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

WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT 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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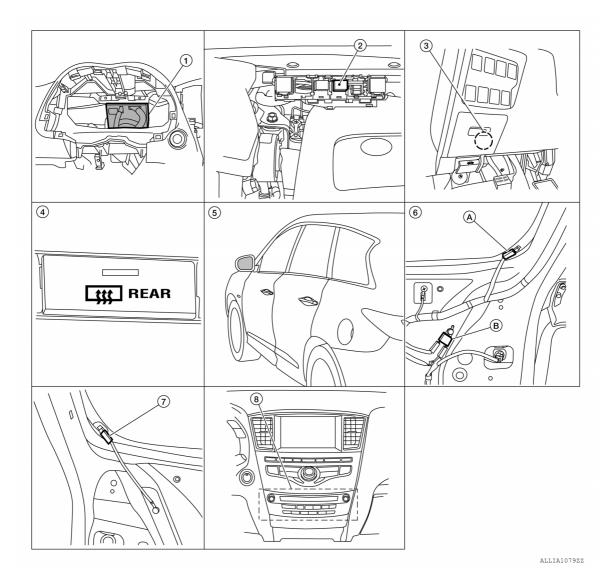
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SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

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- BCM (view with instrument panel removed)
- A/C and AV switch assembly (rear win- 5. dow defogger switch)
- Accessory relay-2
 - Door mirror (door mirror defogger) (RH similar)
- Fuse block (J/B) (Rear window defogger relay)
- A. Rear window defogger power connector
 B. Rear window defogger condenser (view with rear liftgate finisher re-

moved)

- Rear window defogger ground connec- 8. tor (view with rear liftgate finisher removed)
- AV control unit

COMPONENT PARTS

< SYSTEM DESCRIPTION >

Component Description

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Component	Description
AV control unit	AV control unit transmits A/C switch operation signal to the BCM via CAN communication line.
ВСМ	 Operates the rear window defogger relay 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.
A/C and AV switch assembly (rear window defogger switch)	 Transmits rear window defogger switch ON signal. Turns the indicator lamp ON when detecting the operation of rear window defogger.
Rear window defogger	Heats the heating wire with the power supply from the rear window defogger relay to prevent the rear window from fogging up.
Door mirror defogger	Heats the heating wire with the power supply from the rear window defogger relay to prevent the door mirror from fogging up.

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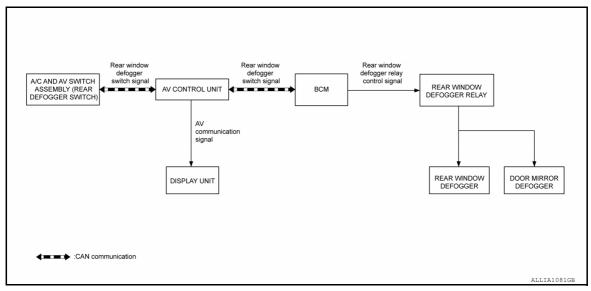
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SYSTEM

System Diagram

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System Description

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Operation Description

- When rear window defogger switch is turned ON while ignition switch is ON, the A/C and AV switch assembly transmits rear window defogger switch signal to BCM.
- BCM turns rear window defogger relay ON when rear window defogger switch signal is received.
- Rear window defogger and door mirror defogger are supplied with power and operate when rear window defogger relay turns ON.
- BCM transmits rear window defogger control signal to A/C and AV switch assembly when rear window defogger operates.
- Rear window defogger ON is displayed when signal is received.
- BCM transmits rear window defogger control signal to AV control unit via CAN communication when rear window defogger operates.

Timer function

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

INPUT/OUTPUT SIGNAL CHART

Switch	Switch Input signal to BCM		Actuator		
Rear window defogger switch	Defogger switch signal	Rear window defogger and door	Rear window defogger		
Push button ignition switch	Ignition signal	mirror defogger control	Door mirror defogger		

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description
Ecu Identification	The BCM part number is displayed.
Self Diagnostic Result	The BCM self diagnostic results are displayed.
Data Monitor	The BCM input/output data is displayed in real time.
Active Test	The BCM activates outputs to test components.
Work support	The settings for BCM functions can be changed.
Configuration	 The vehicle specification can be read and saved. The vehicle specification can be written when replacing BCM.
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.

SYSTEM APPLICATION

BCM can perform the following functions.

		Direct Diagnostic Mode						
System	Sub System	Ecu Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr
Door lock	DOOR LOCK		×	×	×	×		
Rear window defogger	REAR DEFOGGER			×	×	×		
Warning chime	BUZZER			×	×			
Interior room lamp timer	INT LAMP			×	×	×		
Exterior lamp	HEADLAMP			×	×	×		
Wiper and washer	WIPER			×	×	×		
Turn signal and hazard warning lamps	FLASHER			×	×			
Air conditioner	AIR CONDITIONER			×				
Intelligent Key system	INTELLIGENT KEY		×	×	×	×		
Combination switch	COMB SW			×				
BCM	BCM	×	×			×	×	×
Immobilizer	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		×	×	×	×		

REAR WINDOW DEFOGGER

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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

IFOID:000000000817752

DATA MONITOR

Monitor Item [Unit]	Description
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.
REAR DEF SW [On/Off]	Indicates condition of rear window defogger switch.

ACTIVE TEST

Test Item	Description
REAR DEFOGGER	This test is able to check rear window defogger operation [Off/On].

WORK SUPPORT

Support Item	Setting	Description
	MODE3	Rear defogger turns OFF after 1 minute.
SET R-DEF TIMER	MODE2	Rear defogger remains ON until turned OFF.
	MODE1*	Rear defogger turns OFF after 15 minutes.

^{*:} Initial setting

BCS-49, "DTC Index"

ECU DIAGNOSIS INFORMATION

ECU

BCM

BCM

List of ECU Reference

Reference
BCS-27, "Reference Value"
BCS-47, "Fail Safe"
BCS-47, "DTC Inspection Priority Chart"

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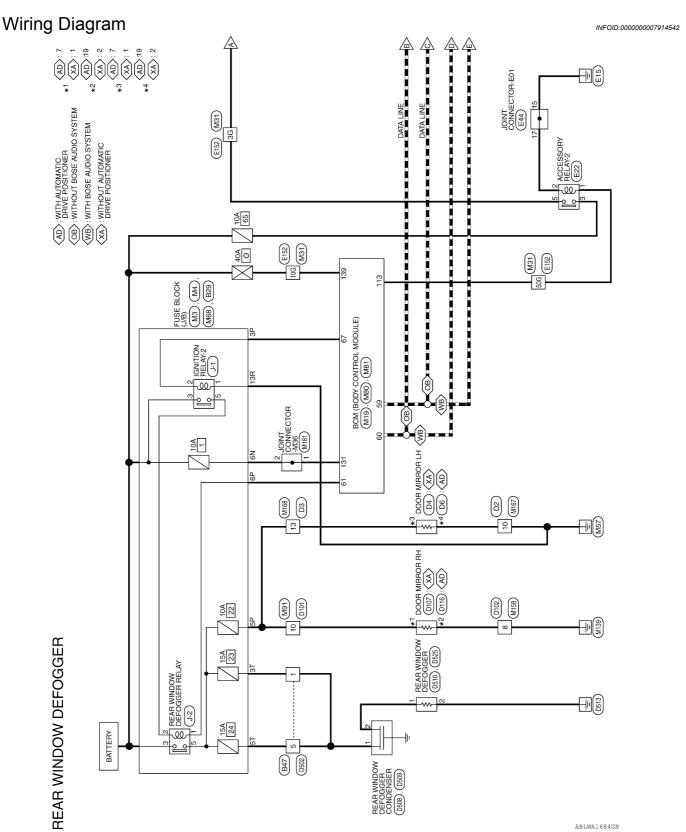
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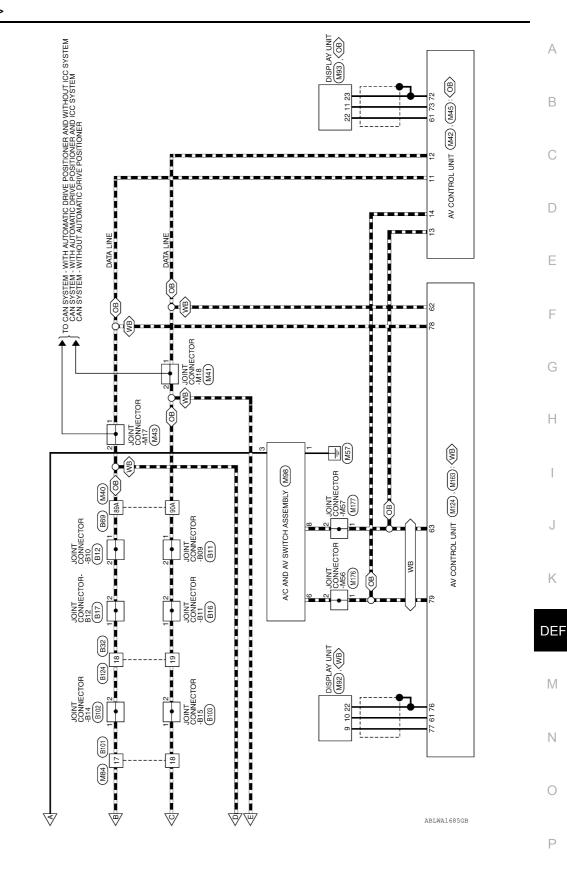
WIRING DIAGRAM

REAR WINDOW DEFOGGER SYSTEM



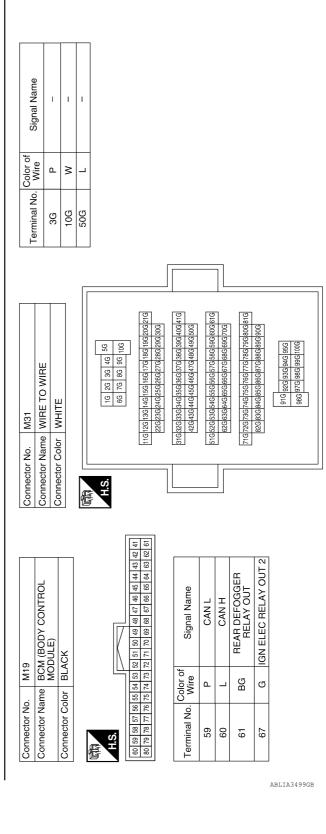
(WB): WITH BOSE AUDIO SYSTEM :WITHOUT BOSE AUDIO SYSTEM

(8)



REAR WINDOW DEFOGGER CONNECTORS

o. M3 Connector No. M4 olor WHITE Connector Color WHITE Image: Signal Name wire Signal Name Terminal No. Color of Signal Name Wire Signal Name Signal Name - Sp P -	Connector Name FUSE B								
Connector No Connector No Connector No Connector No Connector Constant Name Signal Name Terminal No. 5P 6P 6P	Connector No Connector No Connector No Connector No Connector Constant Name Signal Name Terminal No. 5P 6P 6P	+	JSE BLOCK (J/B)	HITE	P 4P 72P 1P P 1AP 1AP 1AP 1AP 1AP 1AP 1AP 1AP 1		ı	ı	ı
Signal Name	Signal Name	о. Щ	ame FL	olor	7P 6P 5	Color o	σ	۵	BG
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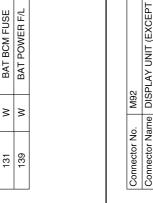
Connector No. M41	Connector No. M45)
Signal Name Wire Signal Name A L — — — — — — — — — — — — — — — — — —	Connector No. M43 Connector Name JOINT CONNECTOR-M17 Connector Color WHITE H.S. Image: Ima	-
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		LIA3500GE

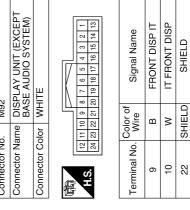
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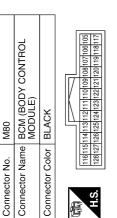






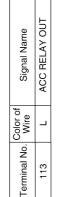






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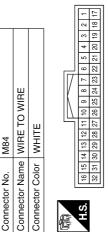
Connector No.	S	į.	_	M91	_											
Connector Name WIRE TO WIRE	r Na	l E	1	₹	Ш	Ĕ	16	∣₹	#						_	
Connector Color WHITE	ျွင်	힏	<u> </u>	∣ ₹	≒	ш										
E								I l	IV.	117						
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	윉	31 30 29 28 27 26 25 24 23 22 21 20	8	8	88	27	28	25	24	23	ผ	2	ನ	9	8	17

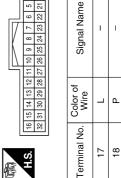
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me WIF	lor WHITE	15 14 13 12 11 10	31 30 29 28	Color of Wire	Ь
Connector Name	Connector Color	91 91	32 31	Terminal No.	10

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4	AV CONTROL UNIT (WITHOUT SURROUND SOUND SYSTEM)	TE TE	54 55 56 57 58 59 60 61 62 63 64 70 71 72 73 74 75 76 77 78 79 80	Signal Name	IT DISP
. M124		lor WH	67 68 69 70	Color of Wire	W
Connector No.	Connector Name	Connector Color WHITE	H.S. 65 66	Terminal No. Wire	61

Signal Name	IT DISP	CAN L	M-CAN L	DISP SHIELD	DISP IT	CANH	M-CAN H
Color of Wire	8	۵	LG	SHIELD	В	٦	SB
Terminal No. Wire	61	62	63	9/	2.2	28	79

	TINC ONC (M:		57 58 59 60 61 62 63 64	69 70 71 72 73 74 75 76 77 78 79 80
M163	AV CONTROL UNIT (WITH SURROUND SOUND SYSTEM)	WHITE	49 50 51 52 53 54 55 56	67 68
Connector No.	Connector Name	Connector Color WHITE	(1) (4) 50	65 66 65 66



86W	Connector Name A/C AND AV SWITCH ASSEMBLY	WHITE	2 4 6 8 10 12 14 16 1 3 5 7 9 11 13 15
Connector No.	Connector Name	Connector Color WHITE	斯 H.S.
M93	Name DISPLAY UNIT (BASE AUDIO SYSTEM)	Color WHITE	12 11 10 9 8 7 6 5 4 3 2 1
No.	Nam	Colo	12 1-2

Connector Name Connector Color

Connector No.

Signal Name	UART IN	UART OUT	UART GND
Color of Wire	>	В	SHIELD
Terminal No.	11	22	23

Signal Name

Color of Wire

Terminal No.

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M158	IRE TO WIRE	HITE	0 3 8 6 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Connector No. M	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S.

Signal Nam	_	
Color of Wire	GR	
Terminal No.	8	

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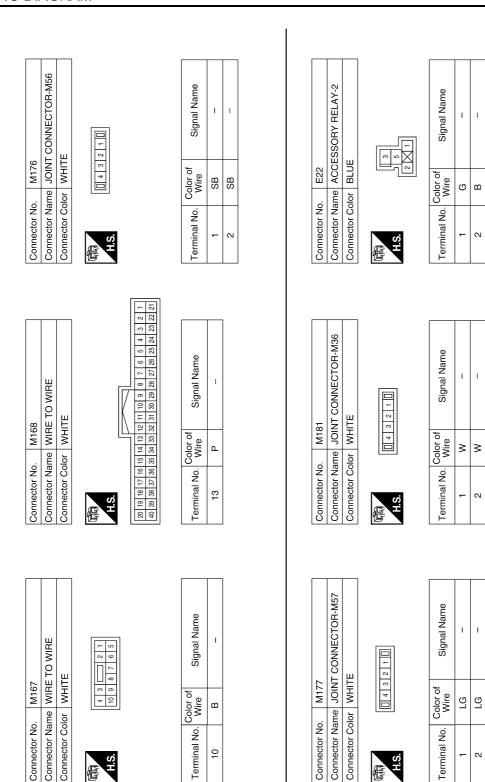
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					50G	G	1
9 8 7 6 5 4 3	H.S.	56 106	5G 4G 3G 2G 1G 10G 9G 8G 7G 6G				
33 32 31 30 29 28 27 26 25 24 29		21G20G19G18 30G29G28	21G20G19G17G17G16G15G14G13G12G11G 30G29G28G27G26G25G24G23G22G				
		41G40G39G38 50G49G48	41G40G39G38G37G36G35G34G33G32G31G 50G49G48G47G46G45G44G43G42G				
Terminal No. Color of Signal Name Wire		61G60G59G56	61G 600G 590G 580G 570G 560G 550G 540G 530G 520G 51G				
15 GR –		000000	700 6845 6845 695 695 695 695 695 695 695 695 695 69				
17 B –		81G80G79G77 90G89G86	81G80G79G778G77G776G75G774G73G72G71G 90G89G88G87G86G85G84G83G82G				
		956	95G 94G 93G 92G 91G 100G 99G 98G 97G 96G				
				, -,			
Connector No. B11	Connector No.	. B12		<u> </u>	Connector No.	. B16	
Connector Name JOINT CONNECTOR-B09 Connector Color WHITE	Connector Name Connector Color	ime JOINT	Connector Name JOINT CONNECTOR-B10 Connector Color WHITE		Connector Name Connector Color	me JOINT (Connector Name JOINT CONNECTOR-B11 Connector Color WHITE
	H.S.		1		高 H.S.		
Terminal No.	Terminal No.	Color of Wire	Signal Name		Terminal No.	Color of Wire	Signal Name
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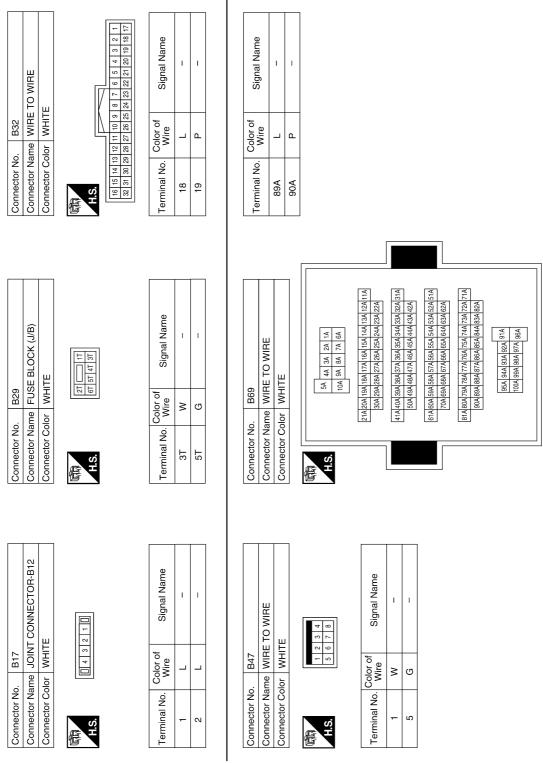
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< WIRING DIAGRAM >

Connector No. B101 Connector Name WIRE TO WIRE	B101 me WIRE T	O WIRE	Connector No.		B102 JOINT CONNECTOR-B14	Connec	Connector No.	Connector No. B103 Connector Name JOINT	Connector No. B103 Connector Name JOINT CONNECTOR-B15 Connector Color WHITE	
H.S.	4 5 6 20 21 22	7 8 9 10 11 12 13 14 15 16 23 24 25 28 27 28 29 30 31 32	H.S.	4 3	2 1 0	H.S.		4 3	3 2 1	
Terminal No.	Color of Wire	Signal Name	a No.	Color of Wire	Signal Name	Terminal No	-	Color of Wire	Signal Name	
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										l
Connector No. Connector Name Connector Color	-	B124 WIRE TO WIRE WHITE	Connector No. Connector Name Connector Color	ne WIRE TO WIRE or WHITE	O WIRE	Connec	Connector No. Connector Name Connector Color		D3 WIRE TO WIRE WHITE	
原动 H.S.			原 H.S.	~	m	H.S.				
1 2 3 4 5 17 18 19 20 21	6 7 8 9 10 22 23 24 25 26	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 11 12 16 11 12 18 14 15 16 11 12 18 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16		2 6 7	9 10	1 2 3	3 4 5 6 23 24 25 26	7 8 9 27 28 29	10 11 12 13 14 15 16 17 18 19 20 30 31 32 33 34 35 36 37 38 39 40	
Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name	Terminal No.		Color of Wire	Signal Name	
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19	۵	1								

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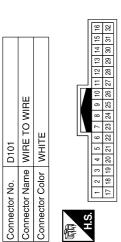
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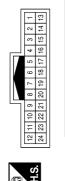


Signal Name	-
Color of Wire	BR
Terminal No.	10



Signal Name	_	ı
Color of Wire	BR	В
Terminal No.	7	19

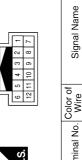






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Color of Wire	>	В	
Terminal No.	7	19	

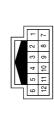
D107	Connector Name (WITHOUT AUTOMATIC DRIVE POSITIONER)	WHITE	
Connector No.	Connector Name	Connector Color WHITE	

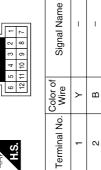


Sign			
Color of Wire	BR	В	
Terminal No.	-	2	

1

D4	Connector Name (WITHOUT AUTOMATIC DRIVE POSITIONER)	WHITE
Connector No.	Connector Name	Connector Color WHITE





D102	IRE TO WIRE	HITE	
Connector No. D1	Connector Name WIRE TO WIRE	Connector Color WHITE	





Signal Name	-	
Color of Wire	В	
Terminal No.	8	

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< WIRING DIAGRAM >

		А
P509 REAR WINDOW BLACK r of Signal Name		В
D509 DEAGR WINDOW BLACK r of Signal		С
		D
Connector No. Connector Color HS. Terminal No. W		Е
		F
D508 REAR WINDOW BLACK r of Signal Name -	P525 REAR WINDOW DEFOGGER BLACK 2 Signal Name ref 6	G
		Н
nector No nector No nector No ninal No.	nector No nector No nector No nector No nector No ninal No.	I
O O O O O O O O O O O O O O O O O O O		J
		K
WIRE Signal Name	Signal Name	DEF
WHITE WHITE A 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 A A D A A A A A A A A A A A A A A A A	M
No. D502 Name WIRE Color of		N
Connector No. D502 Connector Name WIRE TO WIRE Connector Color WHITE H.S. R Signal Terminal No. Wire Signal 5 R R	Connector No. Connector Name Connector Color H.S. 1 Col	0
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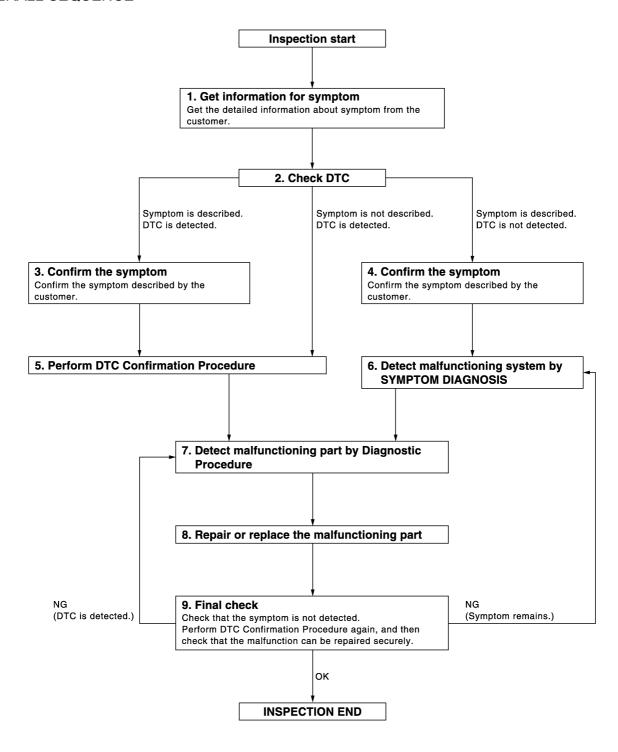
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

1. GET INFORMATION FOR SYMPTOM

Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2.

2. CHECK DTC

- 1. Check DTC.
- 2. Perform the following procedure if DTC is displayed.
- Record DTC and freeze frame data (Print them out with CONSULT.)
- Erase DTC.
- Study the relationship between the cause detected by DTC and the symptom described by the customer.
- 3. Check related service bulletins for information.

Is any symptom described and any DTC detected?

Symptom is described, DTC is displayed>>GO TO 3.

Symptom is described, DTC is not displayed>>GO TO 4.

Symptom is not described, DTC is displayed>>GO TO 5.

3. CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

4. CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6.

5. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check diagnostic results in real time.

If two or more DTCs are detected, refer to <u>BCS-47, "DTC Inspection Priority Chart"</u> and determine trouble diagnosis order.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC Confirmation Procedure is not included in Service Manual. This
 simplified check procedure is an effective alternative though DTC cannot be detected during this check.
 If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC Confirmation Procedure.

Is DTC detected?

YES >> GO TO 7.

NO >> Refer to GI-53, "Intermittent Incident".

6. DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

Detect malfunctioning system according to <u>DEF-6</u>, <u>"System Description"</u> based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

>> GO TO 7.

7. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

The Diagnostic Procedure described is based on open circuit inspection. A short circuit inspection is also required for the circuit check in the Diagnostic Procedure.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check voltage of related BCM terminals using CONSULT.

8. REPAIR OR REPLACE THE MALFUNCTIONING PART

- 1. Repair or replace the malfunctioning part.
- Reconnect parts or connectors disconnected during Diagnostic Procedure again after repair and replacement.
- 3. Check DTC. If DTC is displayed, erase it.

>> GO TO 9.

9. FINAL CHECK

When DTC was detected in step 2, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunction has been repaired securely.

When symptom was described from the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Does the symptom reappear?

YES (DTC is detected)>>GO TO 7.

YES (Symptom remains)>>GO TO 6.

NO >> Inspection End.

REAR WINDOW DEFOGGER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

REAR WINDOW DEFOGGER SWITCH

Description INFOID:0000000008130095

- The rear window defogger is operated by turning the rear window defogger switch ON.
- Turns the indicator lamp in the rear window defogger switch ON when operating the rear window defogger.

Component Function Check

${f 1}$. CHECK REAR WINDOW DEFOGGER SWITCH FUNCTION

Check that the indicator lamp of rear window defogger illuminates with rear window defogger switch ON.

Is the inspection result normal?

YES >> Rear window defogger switch function is OK.

>> Refer to DEF-25, "Diagnosis Procedure". NO

Diagnosis Procedure

Regarding Wiring Diagram information, refer to DEF-10, "Wiring Diagram".

 ${f 1}$. CHECK A/C AND AV SWITCH ASSEMBLY (REAR WINDOW DEFOGGER SWITCH) CIRCUIT

Operate the rear window defogger switch.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 2.

2.CHECK A/C AND AV SWITCH ASSEMBLY (REAR WINDOW DEFOGGER SWITCH) CIRCUIT VOLTAGE

Turn ignition switch ON.

Check voltage between A/C and AV switch assembly harness connector M98 terminal 3 and ground.

A/C auto	amp.	(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(
M98	3	Ground	Ignition switch	ON	Battery voltage
10190	3	Ground	ignition switch	OFF	0

Is the inspection result normal?

>> Replace A/C and AV switch assembly. Refer to HAC-156, "Removal and Installation". YES

NO >> GO TO 3.

 ${f 3}.$ CHECK A/C AND AV SWITCH ASSEMBLY (REAR WINDOW DEFOGGER SWITCH) CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- Disconnect accessory relay-2 connector E22.
- Disconnect A/C and AV switch assembly connector M98.
- Check continuity between A/C and AV switch assembly connector M98 terminal 3 and accessory relay-2 connector E22 terminal 5.

A/C and AV swite	A/C and AV switch assembly		Accessory relay-2	
Connector	Terminal	Connector	Terminal	Continuity
M98	3	E22	5	Yes

Is the inspection result normal?

YES >> GO TO 4.

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REAR WINDOW DEFOGGER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

>> Repair and replace harness. NO

4. CHECK A/C AND AV SWITCH ASSEMBLY (REAR WINDOW DEFOGGER SWITCH) CIRCUIT FOR **SHORT**

- 1. Turn ignition switch OFF.
- 2. Disconnect accessory relay-2 connector E22.
- 3. Disconnect A/C and AV switch assembly connector M98.
- 4. Check continuity between A/C and AV switch assembly connector M98 terminal 3 and ground.

A/C and AV switc	h assembly		Continuity
Connector	Terminal	Ground	Continuity
M98	3		No

Is the inspection result normal?

YES

- >> Check the following:
 - · Accessory relay-2.
 - · Battery power supply circuit.
- >> Repair or replace harness. NO

REAR WINDOW DEFOGGER RELAY

< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER RELAY

Description INFOID:0000000008130114

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

Component Function Check

1. CHECK REAR WINDOW DEFOGGER RELAY POWER SUPPLY CIRCUIT

Check that an operation noise of rear window defogger relay [located in fuse block (J/B)] can be heard when turning the rear window defogger switch ON.

Is the inspection result normal?

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

NO >> Refer to <u>DEF-27</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

Regarding Wiring Diagram information, refer to <u>DEF-10, "Wiring Diagram"</u>.

1. CHECK REAR WINDOW DEFOGGER RELAY GROUND CIRCUIT

1. Turn ignition switch ON.

2. Check voltage between BCM connector and ground.

(+) BCM	1	(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(
M19	61	Ground	Rear window defogger	ON	0
WHY	01	Ground	switch	OFF	Battery voltage

Is the inspection result normal?

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

NO >> GO TO 2.

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.

- 2. Disconnect BCM and fuse block (J/B).
- 3. Check continuity between BCM connector and fuse block (J/B) connector.

BCM	1	Fuse block	(J/B)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M19	61	M4	6P	Yes

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK REAR WINDOW DEFOGGER RELAY

Check rear window defogger relay.

Refer to DEF-28, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-53, "Intermittent Incident"

NO >> Replace rear window defogger relay.

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REAR WINDOW DEFOGGER RELAY

< DTC/CIRCUIT DIAGNOSIS >

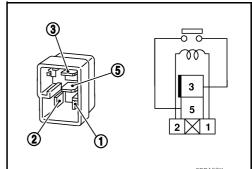
Component Inspection

INFOID:0000000008130117

1. CHECK REAR WINDOW DEFOGGER RELAY

Check rear window defogger relay.

Terminal Rear window defogger relay			
		Condition	Continuity
3	5	12V direct current supply between terminals 1 and 2.	Yes
		No current supply	No



Is the inspection result normal?

YES >> Inspection End.

NO >> Replace rear window defogger relay.

REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

Description

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

Component Function Check

INFOID:0000000008130119

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1. CHECK REAR WINDOW DEFOGGER

Check that the heating wire of rear window defogger is heated when turning the rear window defogger switch ON.

Is the inspection result normal?

YES >> Rear window defogger is OK.

NO >> Refer to <u>DEF-29</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000008130120

Regarding Wiring Diagram information, refer to DEF-10, "Wiring Diagram".

1. CHECK FUSES

Check if any of the following fuses in fuse block (J/B) are blown.

COMPONENT PARTS	AMPERE	FUSE NO.
Fuse block (J/B)	15A	23
T use block (a/b)	15A	24

Is the inspection result normal?

YES >> GO TO 2.

NO >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.

2. CHECK POWER SUPPLY CIRCUIT

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

(+) Rear window defogger		(–)	Condition		Voltage (V)
Connector	Terminal				(Approx.)
D510	1	Ground	Rear window defogger	ON	Battery voltage
D310	i Grour	Ground	switch	OFF	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 4.

3. CHECK GROUND CIRCUIT

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

Rear window defogge		Continuity	
Connector	Terminal	Ground	Continuity
D525	2		Yes

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REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

4. CHECK HARNESS CONTINUITY 1

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

Rear window defogger con- denser		Rear window defogger		Continuity
Connector	Terminal	Connector	Terminal	
D508	2	D525	1	Yes

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace or repair harness.

CHECK HARNESS CONTINUITY 2

- 1. Disconnect fuse block (J/B).
- 2. Check continuity between fuse block (J/B) connector and rear window defogger condenser connector.

Fuse block	(J/B)	Rear window defogger con- denser		Continuity
Connector	Terminal	Connector	Terminal	
B29	3T	D508	1	Yes
529	5T	2500	1	163

Is the inspection result normal?

YES >> Replace rear window defogger condenser.

NO >> Replace or repair harness.

6. CHECK FILAMENT

Check filament. Refer to DEF-30, "Component Inspection".

Is the inspection result normal?

YES >> Refer to GI-53, "Intermittent Incident".

NO >> Repair filament. Refer to <u>DEF-47</u>, "Inspection and Repair".

Component Inspection

INFOID:0000000008130121

1. CHECK FILAMENT

Check the filament for damage or open circuits.

Refer to DEF-47, "Inspection and Repair".

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair filament. Refer to DEF-47, "Inspection and Repair".

DOOR MIRROR DEFOGGER LH (WITHOUT AUTOMATIC DRIVE POSITIONER)

< DTC/CIRCUIT DIAGNOSIS >

DOOR MIRROR DEFOGGER LH (WITHOUT AUTOMATIC DRIVE POSI-TIONER)

Description INFOID:0000000008130098

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

${f 1}$. CHECK DOOR MIRROR DEFOGGER LH

Check that heating wire of door mirror defogger LH is heated when turning the rear window defogger switch ON.

Is the inspection result normal?

>> Door mirror defogger is OK.

>> Refer to <u>DEF-31. "Diagnosis Procedure"</u>. NO

Diagnosis Procedure

Regarding Wiring Diagram information, refer to <u>DEF-10</u>, "Wiring <u>Diagram"</u>.

1. CHECK POWER SUPPLY

Check if the following fuse in the fuse block (J/B) is blown.

COMPONENT PARTS	AMPERE	FUSE NO.
Fuse block (J/B)	10A	22

Is the inspection result normal?

YES >> GO TO 2.

NO >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.

2. CHECK DOOR MIRROR DEFOGGER POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect door mirror LH.
- Turn ignition switch ON.
- Check voltage between door mirror LH connector D4 terminal 1 and ground.

(+	+)		Condition) / a (a a a a a a a a a a a a a a a a a
Door m	irror LH	(-)			Voltage (V) (Approx.)
Connector	Terminal				(
D4	1	Ground	Rear window defogger	ON	Battery voltage
D 4		Ground	switch	OFF	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

$oldsymbol{3}.$ CHECK DOOR MIRROR DEFOGGER GROUND CIRCUIT

- Turn ignition switch OFF.
- Check continuity between door mirror LH connector and ground.

Door mirror LH		Continuity	
Connector	Terminal	Ground	Continuity
D4	2		Yes

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DOOR MIRROR DEFOGGER LH (WITHOUT AUTOMATIC DRIVE POSITIONER)

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK DOOR MIRROR DEFOGGER LH

Check door mirror defogger LH.

Refer to DEF-32, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door mirror. Refer to MIR-29, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-53, "Intermittent Incident".

Is the inspection result normal?

YES >> Check the following:

- · Battery power supply circuit
- Fuse block (J/B)

NO >> Repair or replace the malfunctioning parts.

Component Inspection

INFOID:0000000008130101

1. CHECK DOOR MIRROR DEFOGGER

- Turn ignition switch OFF.
- 2. Disconnect door mirror LH.
- 3. Check continuity between door mirror terminals.

Terr	minal	Continuity
1	2	Yes

Is the inspection result normal?

YES >> Check the condition of the harness and the connector.

NO >> Replace malfunctioning door mirror LH. Refer to MIR-29, "Removal and Installation".

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DOOR MIRROR DEFOGGER LH (WITH AUTOMATIC DRIVE POSITIONER)

< DTC/CIRCUIT DIAGNOSIS >

DOOR MIRROR DEFOGGER LH (WITH AUTOMATIC DRIVE POSITIONER)

Description INFOID:0000000008130102

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

${f 1}$. CHECK DOOR MIRROR DEFOGGER LH

Check that heating wire of door mirror defogger LH is heated when turning the rear window defogger switch ON.

Is the inspection result normal?

>> Door mirror defogger is OK.

>> Refer to DEF-33, "Diagnosis Procedure". NO

Diagnosis Procedure

Regarding Wiring Diagram information, refer to <u>DEF-10</u>, "Wiring Diagram".

$oldsymbol{1}$. CHECK POWER SUPPLY

Check if the following fuse in the fuse block (J/B) is blown.

COMPONENT PARTS	AMPERE	FUSE NO.
Fuse block (J/B)	10A	22

Is the inspection result normal?

YES >> GO TO 2.

NO >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.

$oldsymbol{2}$. CHECK DOOR MIRROR DEFOGGER POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- Disconnect door mirror LH.
- Turn ignition switch ON.
- Check voltage between door mirror LH connector D6 terminal 7 and ground.

Door mi	,	(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				([[]
D6	7	Ground	Rear window defogger	ON	Battery voltage
7 Ground	switch	OFF	0		

Is the inspection result normal?

YES >> GO TO 3.

>> Repair or replace harness. NO

$3.\,$ CHECK DOOR MIRROR DEFOGGER GROUND CIRCUIT

- Turn ignition switch OFF.
- Check continuity between door mirror LH connector and ground.

Door mirror LH		Continuity	
Connector	Terminal	Ground	Continuity
D6	19		Yes
		•	•

Is the inspection result normal?

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DOOR MIRROR DEFOGGER LH (WITH AUTOMATIC DRIVE POSITIONER)

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK DOOR MIRROR DEFOGGER LH

Check door mirror defogger LH.

Refer to DEF-34, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door mirror. Refer to MIR-29, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-53, "Intermittent Incident".

Is the inspection result normal?

YES

- >> Check the following:
 - · Battery power supply circuit
 - Fuse block (J/B)

NO >> Repair or replace the malfunctioning parts.

Component Inspection

INFOID:0000000008130105

1. CHECK DOOR MIRROR DEFOGGER

- Turn ignition switch OFF.
- 2. Disconnect door mirror LH.
- 3. Check continuity between door mirror terminals.

Terr	minal	Continuity	
7	19	Yes	

Is the inspection result normal?

YES >> Check the condition of the harness and the connector.

NO >> Replace malfunctioning door mirror LH. Refer to MIR-29, "Removal and Installation".

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DOOR MIRROR DEFOGGER RH (WITHOUT AUTOMATIC DRIVE POSITIONER)

< DTC/CIRCUIT DIAGNOSIS >

DOOR MIRROR DEFOGGER RH (WITHOUT AUTOMATIC DRIVE POSI-TIONER)

Description INFOID:0000000008130106

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

1. CHECK DOOR MIRROR DEFOGGER RH

Check that the heating wire of door mirror defogger RH is heated when turning the rear window defogger switch ON.

Is the inspection result normal?

>> Door mirror defogger RH is OK.

>> Refer to DEF-35, "Diagnosis Procedure". NO

Diagnosis Procedure

Regarding Wiring Diagram information, refer to <u>DEF-10</u>, "Wiring <u>Diagram"</u>.

1. CHECK POWER SUPPLY

Check if the following fuse in the fuse block (J/B) is blown.

COMPONENT PARTS	AMPERE	FUSE NO.
Fuse block (J/B)	10A	22

Is the inspection result normal?

YES >> GO TO 2.

NO >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.

2. CHECK DOOR MIRROR DEFOGGER POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect door mirror RH.
- Turn ignition switch ON.
- Check voltage between door mirror RH connector D107 terminal 1 and ground.

(+	+)				
Door mi	irror RH	(-)	Con	dition	Voltage (V) (Approx.)
Connector	Terminal				()
D107	1	Ground	Rear window defogger	ON	Battery voltage
D101 I GIOUIIU	switch OFF		0		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

$oldsymbol{3}.$ CHECK DOOR MIRROR DEFOGGER GROUND CIRCUIT

- Turn ignition switch OFF.
- Check continuity between door mirror RH connector and ground.

Door mirror RH		Continuity	
Connector	Terminal	Ground	Continuity
D107	2		Yes

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DOOR MIRROR DEFOGGER RH (WITHOUT AUTOMATIC DRIVE POSITIONER)

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK DOOR MIRROR DEFOGGER RH

Check door mirror defogger RH.

Refer to DEF-36, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door mirror. Refer to MIR-29, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-53, "Intermittent Incident".

Is the inspection result normal?

YES >> Check the following:

- · Battery power supply circuit
- Fuse block (J/B)

NO >> Repair or replace the malfunctioning parts.

Component Inspection

INFOID:0000000008130109

1. CHECK DOOR MIRROR DEFOGGER

- 1. Turn ignition switch OFF.
- 2. Disconnect door mirror RH.
- 3. Check continuity between door mirror terminals.

Terr	minal	Continuity
1	2	Yes

Is the inspection result normal?

YES >> Check the condition of the harness and the connector.

NO >> Replace malfunctioning door mirror RH. Refer to MIR-29, "Removal and Installation".

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DOOR MIRROR DEFOGGER RH (WITH AUTOMATIC DRIVE POSITIONER)

< DTC/CIRCUIT DIAGNOSIS >

DOOR MIRROR DEFOGGER RH (WITH AUTOMATIC DRIVE POSITION-ER)

Description INFOID:0000000008130110

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

CHECK DOOR MIRROR DEFOGGER RH

Check that the heating wire of door mirror defogger RH is heated when turning the rear window defogger switch ON.

Is the inspection result normal?

>> Door mirror defogger RH is OK.

>> Refer to DEF-37, "Diagnosis Procedure". NO

Diagnosis Procedure

Regarding Wiring Diagram information, refer to <u>DEF-10</u>, "Wiring <u>Diagram"</u>.

1. CHECK POWER SUPPLY

Check if the following fuse in the fuse block (J/B) is blown.

COMPONENT PARTS	AMPERE	FUSE NO.
Fuse block (J/B)	10A	22

Is the inspection result normal?

YES >> GO TO 2.

NO >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.

2. CHECK DOOR MIRROR DEFOGGER POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect door mirror RH.
- Turn ignition switch ON.
- Check voltage between door mirror RH connector D116 terminal 7 and ground.

(+	-)		Condition		
Door mi	rror RH	(-)			Voltage (V) (Approx.)
Connector	Terminal				() ,
D116	7	Ground	Rear window defogger	ON	Battery voltage
D110	7 Ground	Ground	switch	OFF	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

$oldsymbol{3}.$ CHECK DOOR MIRROR DEFOGGER GROUND CIRCUIT

- Turn ignition switch OFF.
- Check continuity between door mirror RH connector and ground.

Door mirror RH			Continuity	
Connector	Terminal	Ground	Continuity	
D116	19		Yes	

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DOOR MIRROR DEFOGGER RH (WITH AUTOMATIC DRIVE POSITIONER)

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK DOOR MIRROR DEFOGGER RH

Check door mirror defogger RH. Refer to DEF-38. "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door mirror. Refer to MIR-29, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-53, "Intermittent Incident".

Is the inspection result normal?

YES

- >> Check the following:
 - · Battery power supply circuit
 - Fuse block (J/B)
- NO >> Repair or replace the malfunctioning parts.

Component Inspection

INFOID:0000000008130113

1. CHECK DOOR MIRROR DEFOGGER

- 1. Turn ignition switch OFF.
- 2. Disconnect door mirror RH.
- 3. Check continuity between door mirror terminals.

Terminal		Continuity	
7	19	Yes	

Is the inspection result normal?

YES >> Check the condition of the harness and the connector.

NO >> Replace malfunctioning door mirror RH. Refer to MIR-29, "Removal and Installation".

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DEFOGGER SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

DEFOGGER SYSTEM SYMPTOMS

Symptom Table

Symptom	Reference page	
Rear window defoggers and door mirror defoggers do not operate.	Refer to DEF-40, "Diagnosis Procedure".	
Rear window defoggers do not operate but both of the door mirror defoggers operate.	Refer to DEF-41, "Diagnosis Procedure".	
Both door mirror defoggers don't operate but rear window defoggers operate.	Refer to DEF-42, "Diagnosis Procedure".	
Driver side door mirror defogger does not operate.	Refer to DEF-42, "Diagnosis Procedure".	
Passenger side door mirror defogger does not operate.	Refer to DEF-45, "Diagnosis Procedure".	
Rear window defogger switch does not light, but rear window defogger operates.	Refer to DEF-46, "Diagnosis Procedure".	

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REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGER DO NOT OPER-ATE.

< SYMPTOM DIAGNOSIS >

REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGER DO NOT OPERATE.

Diagnosis Procedure

INFOID:0000000008129730

1. CHECK REAR WINDOW DEFOGGER SWITCH

Check rear window defogger switch.

Refer to DEF-25, "Component Function Check".

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-27, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

Check rear window defogger power supply and ground circuit.

Refer to DEF-29, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK DOOR MIRROR DEFOGGER

Check door mirror defogger.

Refer to <u>DEF-31</u>, "<u>Diagnosis Procedure</u>" (LH without automatic drive positioner), <u>DEF-33</u>, "<u>Diagnosis Procedure</u>" (LH with automatic drive positioner), <u>DEF-35</u>, "<u>Diagnosis Procedure</u>" (RH without automatic drive positioner), <u>DEF-37</u>, "<u>Diagnosis Procedure</u>" (RH with automatic drive positioner).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-53, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

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REAR WINDOW DEFOGGER DOES NOT OPERATE BUT BOTH OF DOOR MIR-ROR DEFOGGER OPERATE.

< SYMPTOM DIAGNOSIS >

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

Diagnosis Procedure

INFOID:0000000008129731

1. CHECK REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

Check rear window defogger power supply and ground circuit. Refer to <u>DEF-29</u>, "Component Function Check".

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to GI-53, "Intermittent Incident".
- NO >> Repair or replace the malfunctioning parts.

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BOTH DOORS MIRROR DEFOGGER DON'T OPERATE BUT REAR WINDOW DEFOGGER OPERATES

< SYMPTOM DIAGNOSIS >

BOTH DOORS MIRROR DEFOGGER DON'T OPERATE BUT REAR WIN-DOW DEFOGGER OPERATES

Diagnosis Procedure

INFOID:0000000008129732

Regarding Wiring Diagram information, refer to DEF-10, "Wiring Diagram".

1. CHECK DOOR MIRROR DEFOGGER FUSE

Check if the following fuse in fuse block (J/B) is blown.

COMPONENT PARTS	AMPERE	FUSE NO.
Fuse block (J/B)	10A	22

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace the blown fuse after repairing the affected circuit.

2. CHECK DOOR MIRROR DEFOGGER CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect the following harness connectors.
- Fuse block (J/B) connector M4
- Door mirror LH D4 (without automatic drive positioner), D6 (with automatic drive positioner)
- Door mirror RH D107 (without automatic drive positioner), D116 (with automatic drive positioner)
- Check continuity between fuse block (J/B) harness connector and door mirror defogger harness connectors.

Fuse block (J/B) Connector	Terminal	Door mirror Connectors	Terminal	Continuity
		D4 (LH without auto- matic drive positioner)		
M4	5P	D107 (RH without automatic drive positioner)	1	Yes
		D6 (LH with automatic drive positioner)	7	
		D116 (RH with automatic drive positioner)	7	

4. Check continuity between fuse block (J/B) harness connector M4 terminal 5P and ground.

Fuse block (J/B) connector	Terminal	Ground	Continuity
M4	5P		No

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK DOOR MIRROR DEFOGGER

Check door mirror LH.

Refer to <u>DEF-31</u>, "Component Function Check" (without automatic drive positioner) or <u>DEF-33</u>, "Component Function Check" (with automatic drive positioner).

Check door mirror RH.

Refer to <u>DEF-35</u>, "Component Function Check" (without automatic drive positioner) or <u>DEF-37</u>, "Component Function Check" (with automatic drive positioner).

Is the inspection result normal?

BOTH DOORS MIRROR DEFOGGER DON'T OPERATE BUT REAR WINDOW DEFOGGER OPERATES

< SYMPTOM DIAGNOSIS >

YES >> Check intermittent incident. Refer to GI-53, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

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DRIVER SIDE DOOR MIRROR DEFOGGER DOES NOT OPERATE.

< SYMPTOM DIAGNOSIS >

DRIVER SIDE DOOR MIRROR DEFOGGER DOES NOT OPERATE.

Diagnosis Procedure

INFOID:0000000008129733

1. CHECK DOOR MIRROR DEFOGGER LH

Check door mirror defogger LH.

Refer to <u>DEF-31</u>, "Component Function Check" (without automatic drive positioner) or <u>DEF-33</u>, "Component Function Check" (with automatic drive positioner).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-53, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

PASSENGER SIDE DOOR MIRROR DEFOGGER DOES NOT OPERATE.

< SYMPTOM DIAGNOSIS >

PASSENGER SIDE DOOR MIRROR DEFOGGER DOES NOT OPERATE.

Diagnosis Procedure

INFOID:0000000008129734

1. CHECK DOOR MIRROR DEFOGGER RH

Check door mirror defogger RH.

Refer to <u>DEF-35</u>, "Component Function Check" (without automatic drive positioner) or <u>DEF-37</u>, "Component Function Check" (with automatic drive positioner).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-53, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

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REAR WINDOW DEFOGGER SWITCH DOES NOT LIGHT, BUT REAR WINDOW DEFOGGER OPERATES

< SYMPTOM DIAGNOSIS >

REAR WINDOW DEFOGGER SWITCH DOES NOT LIGHT, BUT REAR WINDOW DEFOGGER OPERATES

Diagnosis Procedure

INFOID:0000000008129735

1. CHECK A/C AND AV SWITCH ASSEMBLY (REAR WINDOW DEFOGGER SWITCH)

Check that A/C and AV switch assembly (rear window defogger switch) is operating normally. Is the inspection result normal?

- YES >> Check intermittent incident. Refer to GI-53, "Intermittent Incident".
- NO >> Check rear window defogger switch. Refer to <u>DEF-25</u>, "<u>Diagnosis Procedure</u>".

REMOVAL AND INSTALLATION

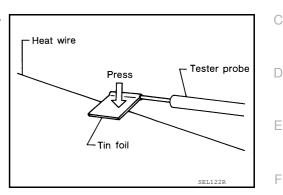
FILAMENT

INSPECTION

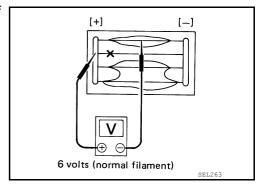
Inspection and Repair

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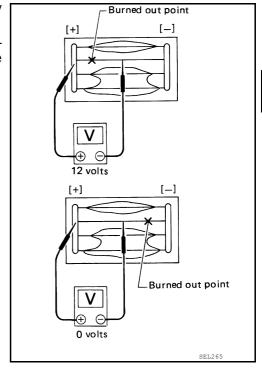
1. When measuring voltage, wrap tin foil around the top of the negative probe. Then press the foil against the wire with your finger.



2. 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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< REMOVAL AND INSTALLATION >

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

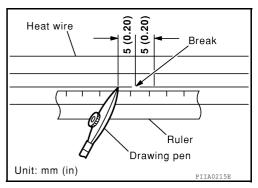
REPAIRING PROCEDURE

- 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.

NOTE:

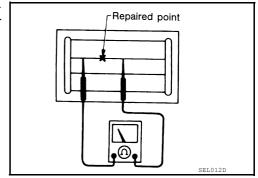
Shake silver composition container before use.

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.

