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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. 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 three minutes before performing any service.

Precaution for Work

- When removing or disassembling each component, be careful not to damage or deform it. If a component
 may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
- Water soluble dirt:
- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.
- Oily dirt:
- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

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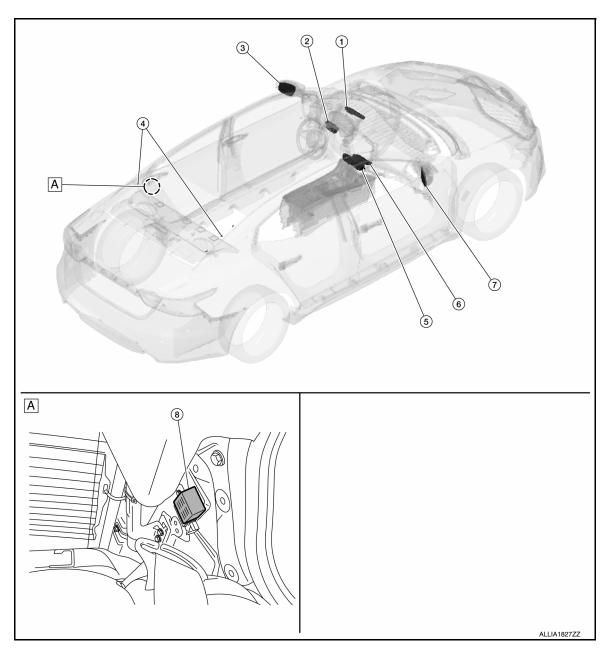
Revision: October 2015 DEF-3 2016 Maxima NAM

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

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A. Behind left rear pillar finisher

No.	Component	Function			
1.	ВСМ	Operates the rear window defogger with the operation of rear window defogger switch. Performs the timer control for rear window defogger. Refer to BCS-5, "BODY CONTROL SYSTEM: Component Parts Location" for detailed installation location.			
2.	Fuse block (J/B) (Rear window defogger relay)	Operates the rear window defogger and the door mirror defogger with the control signal from BCM.			
3.	Door mirror LH	Refer to DEF-5, "Door Mirror Defogger".			

COMPONENT PARTS

< SYSTEM DESCRIPTION >

No.	Component	Function
4.	Rear window defogger	Refer to DEF-5, "Rear Window Defogger".
5.	A/C 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. Refer to HAC-9 , "Component Parts Location" for detailed installation location.
6.	A/C auto amp.	Transmits rear window defogger switch ON signal to the BCM. Transmits the indicator lamp ON signal when detecting the operation of rear window defogger. Refer to HAC-9, "Component Parts Location" for detailed installation location.
7.	Door mirror RH	Refer to DEF-5, "Door Mirror Defogger".
8.	Rear window defogger condenser	Removes the noise that is generated when the rear window defogger turns ON/OFF.

Rear Window Defogger

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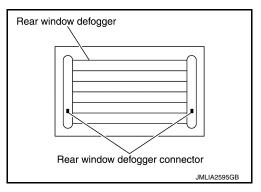
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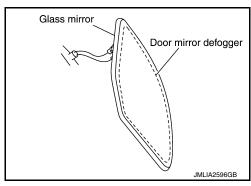
Heats the heating wire with the power supply from the rear window defogger relay to prevent the rear window from fogging up.



Door Mirror Defogger

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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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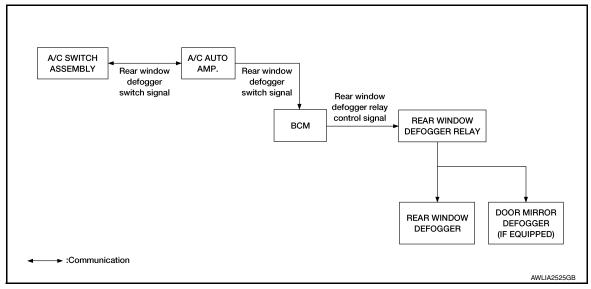
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SYSTEM

System Description

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SYSTEM DIAGRAM



OPERATION DESCRIPTION

- When rear window defogger switch is turned ON while ignition switch is ON, the rear window defogger switch signal is transmitted to the A/C auto amp.
- BCM turns rear window defogger relay ON when rear window defogger switch signal is received from A/C auto amp.
- 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 feedback signal to A/C auto amp. then communicates the signal to the A/C switch assembly when rear window defogger operates.
- Rear window defogger ON is displayed when signal is received.

TIMER FUNCTION

- BCM turns rear window defogger relay ON for approximately 15 minutes when rear window defogger switch is turned ON and the ignition switch is ON. It makes rear window defogger and door mirror defogger (if equipped) 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.

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	BCM self diagnostic results are displayed.			
Data Monitor	The BCM input/output data is displayed in real time.			
Active Test	ne 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 D	Diagnosti	c 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			×	×			
Trunk	TRUNK			×				
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×				
Signal buffer system	SIGNAL BUFFER			×	×			
TPMS	AIR PRESSURE MONITOR		×	×	×			

FREEZE FRAME DATA (FFD)

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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

CONSULT screen item	Indication/Unit	Description				
Vehicle Speed	km/h	Vehicle speed at the moment a particular DTC is detected				
Odo/Trip Meter	km	Total mileage (Odometer value) at the moment a particular DTC is detected				
	SLEEP>LOCK		While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK"*).			
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)			
	LOCK>ACC		While turning power supply position from "LOCK"*to "ACC"			
	ACC>ON		While turning power supply position from "ACC" to "IGN"			
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Vehicle is stopped and selector lever is in P position.)			
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)			
	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emergency stop operation)			
	ACC>OFF		While turning power supply position from "ACC" to "OFF"			
	OFF>LOCK	Power position status at the moment a particular DTC is detected*	While turning power supply position from "OFF" to "LOCK"*			
Vehicle Condition	OFF>ACC		' Vynile filming nower slinniy nosition from "Life" to "Δι 'l'"			
	ON>CRANK		While turning power supply position from "IGN" to "CRANKING"			
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode			
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK"*.) to low power consumption mode			
	LOCK		Power supply position is "LOCK" (Ignition switch OFF)*			
	OFF		Power supply position is "OFF" (Ignition switch OFF)			
	ACC		Power supply position is "ACC" (Ignition switch ACC)			
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)			
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)			
	CRANKING		Power supply position is "CRANKING" (At engine cranking)			
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 is switched OFF → ON. The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. 				

NOTE

- *: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever 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 "LOCK".

REAR DEFOGGER

REAR DEFOGGER : CONSULT Function (BCM - REAR DEFOGGER)

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DATA MONITOR

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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

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ECU DIAGNOSIS INFORMATION

BCM

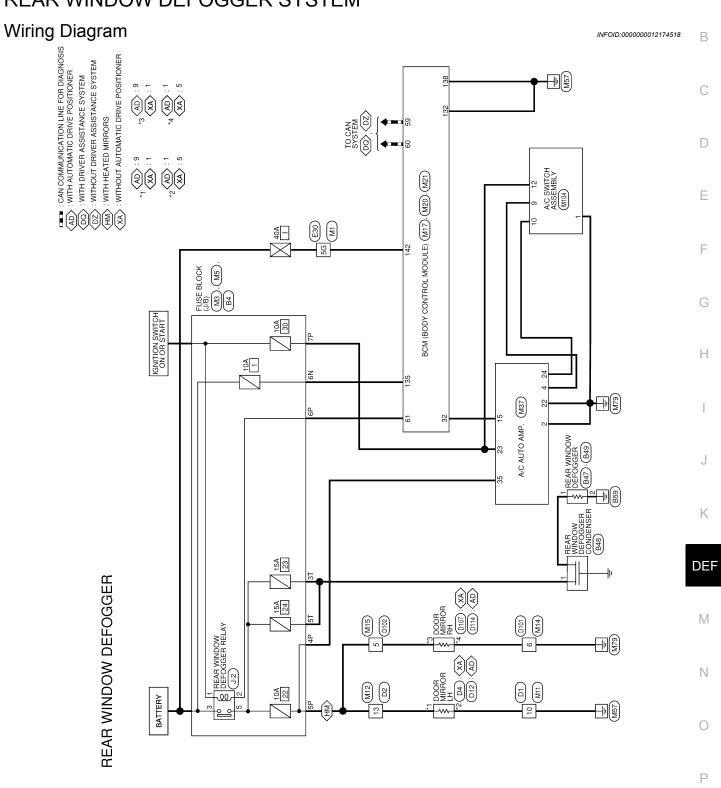
List of ECU Reference

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ECU	Reference
	BCS-31, "Reference Value"
BCM	BCS-51, "Fail Safe"
BCIVI	BCS-52, "DTC Inspection Priority Chart"
	BCS-53, "DTC Index"

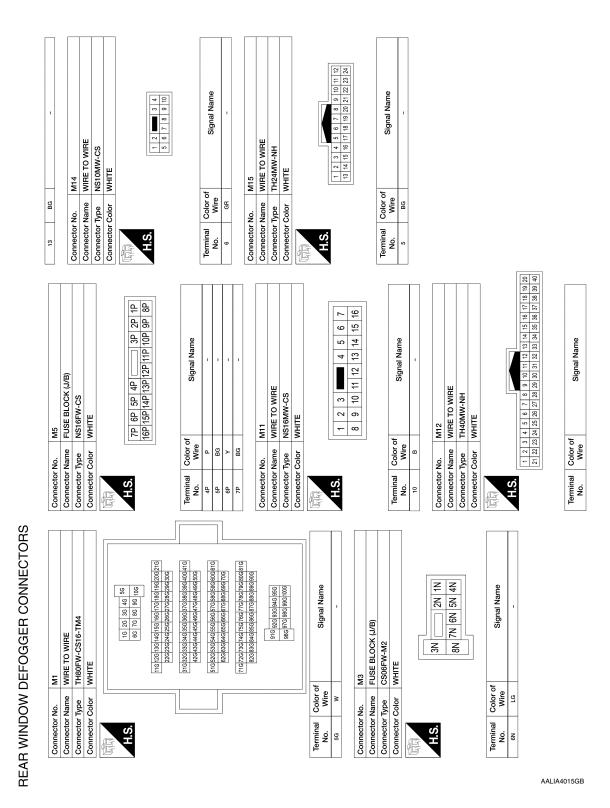
WIRING DIAGRAM

REAR WINDOW DEFOGGER SYSTEM



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REAR WINDOW DEFOGGER SYSTEM

	Connector Type TH80MW-CS16-TM4	Connector Color WHITE	1 11	74	H.S. 046 36 26 16 106 106 106 106 106 106 106 106 106		21G20G19G186 17G16G15G14G13G12G11G 5.36 37 38 39 40 30 3 39 40	4 16 44U5 3395 3805 375 3805 375 3805 375 3805 375 3805 375 3805 375 3805 375 3805 375 3805 3805 3805 3805 3805 3805 3805 380		91-G0006030407407407407407407407407407407407407407		81G80G79G77G76G76G74G73G72G71G	900 890 860 860 856 840 836 826		95G 94G 93G 93G	100G 99G 98G 97G 96G			No. Wire Signal Name	- P			Connector Name FUSE BLOCK (J/B)	Τ.	1			11 2 17 13 13	1 1			Terminal Color of Signal Name	Wire						
	\top	\neg		olor WHITE			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40		Color of Signal Name	0	GND GAND	LG BB DEF SW				P RR DEF F/B		b. M104	ime A/C SWITCH ASSEMBLY		olor WHITE			1 2 3 4 5 6	9 10 11			Color of Signal Name				BG -							
	Confinector No.	Connector Name	Connector Type	Connector Color	E	H.S.	1 2		펼		2 6	. 12	22	23	24	35		Connector No.	Connector Name	Connector Type	Connector Color	F	Ę	Ċ L				lal	5	6	10	12							
	FEA09FW-FHA6-SA	r WHITE			129 130 131 132 133 134 135 136 137	138 139 140 141 142 143	-	or of Signal Name		BAT		BAI-POWER		\top	$^{-}$		r BLACK				60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41			or of Signal Name		CAN-L	REAR DEF		M21	e BCM (BODY CONTROL MODULE)	TH40FG-NH	r GREEN		$\left\langle \cdot \right\rangle$	20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 1 1 1 10 9 8 7 7 9 5 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	67 00 10 70	or of Signal Name		
Connector No.	Connector Type	Connector Color		NATA.	H.S.			Terminal Color of No. Wire	132 B		138 B	142 W		Connector No.	Connector Name	Connector Type	Connector Color	E		Ai.S.	60 99	801/8		Terminal Color of		68 09			Connector No.	Connector Name	Connector Type	Connector Color		LIS.	20 19	80 04	Terminal Color of		

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Connector Name Connector Type	\vdash	Connector Name	WIRE TO WIRE	Connector Name	
Connector Type					DOOR MIRROR LH (WITH AUTOMATIC
	P01FB-A	Connector Type	NS16FW-CS		DRIVE POSITIONER)
Connector Color	BLACK	Connector Color	WHITE	Connector Type	TH24MW-NH
				Connector Color	WHITE
H.S.	2	H.S.	7 6 5 4 3 2 1 16 15 14 13 12 11 10 9 8	H.S.	12 11 10 9 8 7 6 5 4 3 2 1
<u></u>		la C			
No. Wire	Olgilal Naille	No. Wire	ogliai naille	اعا اعا	f Signal Name
2 B	1	10 B	1	No. Wire	1
Connector No	848	Connector No	ns	9 BG	1
Connector Name	REAR WINDOW DEFOGGER CONDENSER	Connector Name	WIRE TO WIRE		
Connector Type	M01FW-LC	Connector Type	TH40FW-NH	Connector No.	D101
Connector Color	WHITE	Connector Color	WHITE	Connector Name	WIRE TO WIRE
				Connector Type Connector Color	NS10FW-CS WHITE
HS		T.S.			
	-	8 4	19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 39 38 37 36 36 34 33 32 31 30 29 28 27 26 25 24 23 22 21	H.S.	4 3
Terminal Color of No. Wire	of Signal Name	Terminal Color of No. Wire	f Signal Name		
>	1	13 BG	1	Terminal Color of No. Wire	f Signal Name
Connector No.	849	Connector No.	D4	9 9	1
Connector Name	-	Connector Name	DOOR MIRROR LH (WITHOUT AUTOMATIC		
Connector Type	P01MB-X		DRIVE POSITIONER)	Connector No.	D102
Connector Color	BLACK	Connector Type	TH08MW-NH	Connector Name	WIRE TO WIRE
		Connector Color	WHITE	Connector Color	WHITE
H.S.	-	H.S.	4 α ω ν - α	H.S.	8 7 8 6 5 4 8
Terminal Color of					24 23 22 21 20 19 18 17 16 15 14 13
_	Signal Name	Terminal Color of	ار Signal Name	Г	_
1 B	1	No. Wire		Terminal Color of	f Signal Name
					-

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D107	DOOR MIRROR RH (WITHOUT AUTOMATIC DRIVE POSITIONER)	TH08MW-NH	WHITE	4 8 8 5 7 5 8 6 7 7 8	Signal Name	-	ı		D114	DOOR MIRROR RH (WITH AUTOMATIC DRIVE POSITIONER)	TH24MW-NH	WHITE	12 11 10 9 8 7 6 5 4 3 2 1	Signal Name	ı	1
					Color of Wire	BG	8	Ī				Ė		Color of Wire	В	BG
Connector No.	Connector Name	Connector Type	Connector Color	H.S.	Terminal No.	-	2		Connector No.	Connector Name	Connector Type	Connector Color	H.S.	Terminal No.	-	6

Signal Name	ı	1	
Color of Wire	В	BG	
Terminal No.	1	6	

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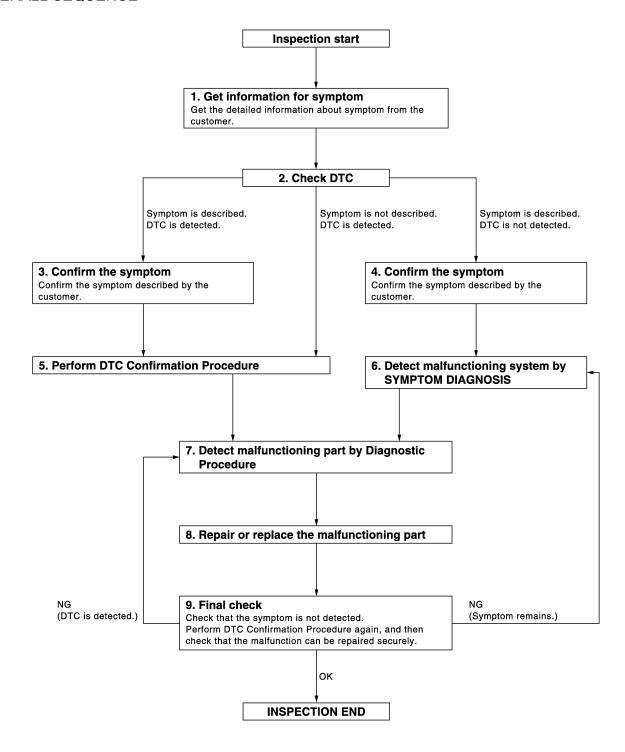
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BASIC INSPECTION

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

>> GO TO 2.

$\mathbf{2}$. 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.

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-52, "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-41, "Intermittent Incident".

6. DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

Detect malfunctioning system according to <u>DEF-6</u>. "System <u>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 after repair and replacement.
- 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.

When symptom was described by 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.

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

REAR WINDOW DEFOGGER SWITCH

Component Function Check

1. CHECK REAR WINDOW DEFOGGER SWITCH FUNCTION

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

YES >> Rear window defogger switch function is OK.

NO >> Refer to <u>DEF-19</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

Regarding Wiring Diagram information, refer to DEF-11, "Wiring Diagram".

1. CHECK REAR WINDOW DEFOGGER RELAY OPERATION

- 1. Push the ignition switch to ON.
- 2. Check that an operation noise of rear window defogger relay [located in fuse block (J/B)] can be heard when pressing the rear window defogger switch ON and OFF.

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 5.

2.CHECK FUSE

Check if fuse 22 from the rear window defogger relay output is blown.

Is the fuse blown?

YES >> Replace the blown fuse after repairing the affected circuit.

NO >> GO TO 3.

3. CHECK FOR VOLTAGE FROM THE REAR WINDOW DEFOGGER RELAY

- Press rear window defogger switch.
- 2. Check for voltage between fuse block (J/B) connector and ground.

(+) Fuse block	(J/B)	(–)	Con	dition	Voltage (V) (Approx.)
Connector	Terminal				()
M5	4P	Ground	Rear window defogger	ON	Battery voltage
IVIO	41	Giodila	switch	OFF	0

Is the inspection result normal?

YES >> GO TO 4.

NO >> Perform rear window defogger relay diagnosis. Refer to <u>DEF-23</u>, "<u>Diagnosis Procedure</u>".

4. CHECK REAR WINDOW DEFOGGER SWITCH INDICATOR CIRCUIT

- 1. Press rear window defogger switch.
- Check for voltage between A/C auto amp. connector and ground.

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< DTC/CIRCUIT DIAGNOSIS >

(+) A/C auto a	mp.	(–)	Con	dition	Voltage (V) (Approx.)	
Connector	Terminal			, , ,		
M37	35	Ground	Rear window defogger	ON	Battery voltage	
IVIO/	33	Giouna	switch	OFF	0	

Is the inspection result normal?

YES >> Replace A/C auto amp. Refer to <u>HAC-100, "Removal and Installation"</u>.

NO >> Repair or replace harness.

$5.\mathsf{check}$ a/c auto amp. (rear window defogger switch) function

(P)CONSULT

- Select "REAR DEFOGGER" of "BCM".
- Select "REAR DEF SW" in "Data Monitor" mode.
- Check that the function operates normally according to the following conditions:

Monitor Item	Con	dition	Status
REAR DEF SW	Rear window defogger switch	Pressed	On
NEAR DEL OW	iteai wiiidow deloggei switch	Released	Off

Is the inspection result normal?

YES >> GO TO 8.

NO >> GO TO 6.

6. CHECK REAR WINDOW DEFOGGER ON SIGNAL CIRCUIT

Check voltage between BCM connector and ground.

(+) BCM		(–)	Con	dition	Voltage (V) (Approx.)
Connector	Terminal			(11 -)	
M21	32	Ground	Rear window defogger	ON	0
IVIZI	32	Ground	switch	OFF	5

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-82, "Removal and Installation".

NO >> GO TO 7.

7. CHECK HARNESS CONTINUITY

- 1. Push ignition switch to OFF.
- Disconnect BCM and front air control.
- 3. Check continuity between BCM connector and A/C auto amp.

ВСМ		A/C auto ar	np.	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M21	32	M37	15	Yes

4. Check continuity between BCM harness connector and ground.

ВСМ			Continuity
Connector	Terminal	Ground	Continuity
M21	32		No

Is the inspection result normal?

YES >> Replace A/C auto amp. Refer to HAC-100, "Removal and Installation".

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS >

8. CHECK REAR WINDOW DEFOGGER RELAY GROUND CIRCUIT

CONSULT

- 1. Select "REAR DEFOGGER" of "BCM".
- Select "REAR DEFOGGER" in "Active Test" mode.
- Turn rear defogger active test ON and OFF.
- Check voltage between fuse block (J/B) connector and ground.

(+)					14.11	
Fuse block	(J/B)	(–)	Con	dition	Voltage (V) (Approx.)	
Connector	Terminal			(11 -)		
M5	6P	Ground	Rear window defogger	ON	0	
UIU	OF .	Ground	active test	OFF	Battery voltage	

Is the inspection result normal?

YES >> GO TO 11.

NO >> GO TO 9.

$oldsymbol{9}$. CHECK REAR WINDOW DEFOGGER RELAY CIRCUIT

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

(+) Fuse block	(J/B)	(–)	Con	dition	Voltage (V) (Approx.)
Connector	Terminal				(44)
M5	6P	Ground	Rear window defogger	ON	0
IVIO	UP .	Giouna	switch	OFF	Battery voltage

Is the inspection result normal?

YES >> Replace rear window defogger relay.

NO >> GO TO 10.

10. CHECK HARNESS CONTINUITY

- Push ignition switch to OFF.
- 2. Disconnect BCM and fuse block (J/B).
- Check continuity between BCM connector and fuse block (J/B) connector.

BCM		Fuse block (J/B)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M20	61	M5	6P	Yes

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

Fuse block (J	l/B)		Continuity
Connector	Terminal	Ground	Continuity
M5	6P		No

Is the inspection result normal?

YES >> Perform rear window defogger relay component inspection. Refer to DEF-23, "Component Inspection". If OK, replace BCM. Refer to BCS-82, "Removal and Installation".

>> Repair or replace harness. NO

11. CHECK REAR WINDOW DEFOGGER RELAY

Check rear window defogger relay. Refer to DEF-23, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 12.

NO >> Replace rear window defogger relay.

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< DTC/CIRCUIT DIAGNOSIS >

12. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Check the following:

- Battery power supply circuitFuse block (J/B)
- >> Repair or replace the malfunctioning parts. NO

REAR WINDOW DEFOGGER RELAY

< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER RELAY

Component Function Check

INFOID:0000000012174522

1. CHECK REAR WINDOW DEFOGGER RELAY POWER SUPPLY CIRCUIT

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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 DEF-23, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012174523

Regarding Wiring Diagram information, refer to DEF-11, "Wiring Diagram".

1. CHECK REAR WINDOW DEFOGGER RELAY GROUND CIRCUIT

Turn ignition switch ON.

Check voltage between BCM connector and ground.

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(+) BCM		(–)	Condition		Voltage (V)
Connector	Terminal				(Approx.)
M20	61	Ground	Rear window defogger switch	ON	0
IVIZO	01	Ground	ixear willdow delogger switch	OFF	Battery voltage

Is the inspection result normal?

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

NO >> GO TO 2.

f 2 . CHECK HARNESS CONTINUITY

- Turn ignition switch OFF.
- Disconnect BCM and fuse block (J/B).
- Check continuity between BCM connector and fuse block (J/B) connector.

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BCM	BCM		Fuse block (J/B)	
Connector	Terminal	Connector Terminal		- Continuity
M20	61	M5	6P	Yes

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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-23, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

>> Replace rear window defogger relay.

Component Inspection

INFOID:0000000012174524

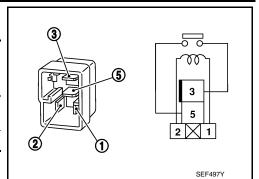
${f 1}$. CHECK REAR WINDOW DEFOGGER RELAY

REAR WINDOW DEFOGGER RELAY

< DTC/CIRCUIT DIAGNOSIS >

Check rear window defogger relay.

Teri	minal		
	window jer relay	Condition	Continuity
3	5	12 V 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

Component Function Check

INFOID:0000000012174525

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1. CHECK REAR WINDOW DEFOGGER

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

Is the inspection result normal?

YES >> Rear window defogger is OK.

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

Diagnosis Procedure

INFOID:0000000012174526

Regarding Wiring Diagram information, refer to DEF-11, "Wiring Diagram".

1. CHECK FUSES

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

Component	Capacity	Fuse No.
Fuse block (I/R)	15 A	23
Fuse block (J/B)	15 A	24

Is the inspection result normal?

YES >> GO TO 2.

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

$2.\,$ CHECK POWER SUPPLY CIRCUIT

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

(+) Rear window defogger		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(44.5)
B49	1	Ground	Rear window defogger switch	ON	Battery voltage
			ixeai wiildow deloggei Swilch	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 connector.
- Check continuity between rear window defogger connector and ground.

Rear window defogger		Continuity	
Connector	Ground	Continuity	
B47	2		Yes

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

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REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

4. CHECK POWER SUPPLY CIRCUIT

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

(+) Rear window defogger condenser		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(11 - 7
B48	1	Ground	Rear window defogger switch	ON	Battery voltage
D 4 0	1	Giouna	ixear willdow delogger switch	OFF	0

Is the inspection result normal?

YES >> Replace rear window defogger condenser. Refer to <u>DEF-45</u>, "Removal and Installation".

NO >> Repair or replace harness.

5. CHECK FILAMENT

Check filament. Refer to DEF-26, "Component Inspection".

Is the inspection result normal?

YES >> Refer to GI-41, "Intermittent Incident".

NO >> Repair filament. Refer to <u>DEF-43, "Inspection and Repair"</u>.

Component Inspection

INFOID:0000000012174527

1. CHECK FILAMENT

Check the filament for damage or open circuits. Refer to DEF-43, "Inspection and Repair".

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair filament. Refer to <u>DEF-43</u>, "Inspection and Repair".

DOOR MIRROR DEFOGGER LH (WITHOUT AUTOMATIC DRIVE POSITIONER)

< DTC/CIRCUIT DIAGNOSIS >

DOOR MIRROR DEFOGGER LH (WITHOUT AUTOMATIC DRIVE POSITIONER)

Component Function Check

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1. CHECK DOOR MIRROR DEFOGGER LH

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

Is the inspection result normal?

YES >> Door mirror defogger is OK.

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

Diagnosis Procedure

INFOID:0000000012174529

Regarding Wiring Diagram information, refer to DEF-11, "Wiring Diagram".

1. CHECK POWER SUPPLY

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

Component	Capacity	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 POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect door mirror LH.
- Turn ignition switch ON.

(+)

4. Check voltage between door mirror LH connector and ground.

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-	Door mi	rror LH	(-)	Condition		Voltage (V) (Approx.)
	Connector	Terminal				(,
_	D4	1	Ground	Rear window defogger switch	ON	Battery voltage
	D4	i Gioui	Ground	Real willdow delogger switch	OFF	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

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

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

Door mirror LH		Continuity	
Connector	Terminal	Ground	Continuity
D4	5		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

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DOOR MIRROR DEFOGGER LH (WITHOUT AUTOMATIC DRIVE POSITIONER)

< DTC/CIRCUIT DIAGNOSIS >

4. CHECK DOOR MIRROR DEFOGGER LH

Check door mirror defogger LH. Refer to DEF-28, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door mirror. Refer to MIR-20, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to GI-41, "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:0000000012174530

1. CHECK DOOR MIRROR DEFOGGER

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

Terr	ninal	Continuity
1	5	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-20, "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)

Component Function Check

1. CHECK DOOR MIRROR DEFOGGER LH

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

Is the inspection result normal?

YES >> Door mirror defogger is OK.

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

Diagnosis Procedure

Regarding Wiring Diagram information, refer to DEF-11, "Wiring Diagram".

CHECK POWER SUPPLY

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

Component	Capacity	Fuse No.
Fuse block (J/B)	10 A	22

Is the inspection result normal?

YES >> GO TO 2.

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

$oldsymbol{2}$. 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 and ground.

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Door mirror LH		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				, , ,
D12	9	Ground	Rear window defogger switch		Battery voltage
DIZ	9 GIO	Ground	rtear window delogger switch	OFF	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

${f 3}.$ 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
D12	1		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

$oldsymbol{4}$. CHECK DOOR MIRROR DEFOGGER LH

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DOOR MIRROR DEFOGGER LH (WITH AUTOMATIC DRIVE POSITIONER)

< DTC/CIRCUIT DIAGNOSIS >

Check door mirror defogger LH. Refer to DEF-30, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door mirror. Refer to MIR-20, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to GI-41, "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:0000000012193916

1. CHECK DOOR MIRROR DEFOGGER

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

Terr	minal	Continuity	
1	9	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-20, "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)

Component Function Check

INFOID:0000000012174531

1. CHECK DOOR MIRROR DEFOGGER RH

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

Is the inspection result normal?

YES >> Door mirror defogger RH is OK.

NO >> Refer to DEF-31, "Diagnosis Procedure".

Diagnosis Procedure

Regarding Wiring Diagram information, refer to DEF-11, "Wiring Diagram".

1. CHECK POWER SUPPLY

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

Component	Capacity	Fuse No.
Fuse block (J/B)	10 A	22

Is the inspection result normal?

YES >> GO TO 2.

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

$oldsymbol{2}$. 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 and ground.

_	(+ Door mi	,	(-)	Condition		Voltage (V) (Approx.)
_	Connector	Terminal				(
_	D107	1	Ground	Rear window defogger switch	ON	Battery voltage
	D101		Oround	rteal willdow delogger switch	OFF	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

$3.\,$ 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	5		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

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DOOR MIRROR DEFOGGER RH (WITHOUT AUTOMATIC DRIVE POSITIONER)

< DTC/CIRCUIT DIAGNOSIS >

4. CHECK DOOR MIRROR DEFOGGER RH

Check door mirror defogger RH. Refer to DEF-32, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door mirror. Refer to MIR-20, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to GI-41, "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:0000000012174533

1. CHECK DOOR MIRROR DEFOGGER

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

Terr	minal	Continuity
1	5	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-20, "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)

Component Function Check

1. CHECK DOOR MIRROR DEFOGGER RH

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

Is the inspection result normal?

YES >> Door mirror defogger RH is OK.

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

Diagnosis Procedure

Regarding Wiring Diagram information, refer to DEF-11, "Wiring Diagram".

1. CHECK POWER SUPPLY

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

Component	Capacity	Fuse No.
Fuse block (J/B)	10 A	22

Is the inspection result normal?

YES >> GO TO 2.

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

${f 2}.$ 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 and ground.

(+) Door mirror RH		(-)	Condition		Voltage (V) (Approx.)	
_	Connector	Terminal				(
_	D114	9	Ground Rear v	Rear window defogger switch	ON	Battery voltage
		9	Oround	rteal willdow delogger switch	OFF	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

$3.\,$ 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
D114	1		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

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DOOR MIRROR DEFOGGER RH (WITH AUTOMATIC DRIVE POSITIONER)

< DTC/CIRCUIT DIAGNOSIS >

4. CHECK DOOR MIRROR DEFOGGER RH

Check door mirror defogger RH. Refer to DEF-34, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door mirror. Refer to MIR-20, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to GI-41, "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:0000000012193919

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	9	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-20, "Removal and Installation".

DEFOGGER SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

DEFOGGER SYSTEM SYMPTOMS

Symptom Table

Symptom	Reference page
Rear window defogger and door mirror defoggers do not operate.	Refer to DEF-36, "Diagnosis Procedure".
Rear window defogger does not operate but both of the door mirror defoggers operate.	Refer to DEF-37, "Diagnosis Procedure".
Both door mirror defoggers don't operate but rear window defogger operates.	Refer to DEF-38, "Diagnosis Procedure".
Driver side door mirror defogger does not operate.	Refer to DEF-40, "Diagnosis Procedure".
Passenger side door mirror defogger does not operate.	Refer to DEF-41, "Diagnosis Procedure".
Rear window defogger switch does not light, but rear window defogger operates.	Refer to DEF-42, "Diagnosis Procedure".

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REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGERS DO NOT OPERATE

< SYMPTOM DIAGNOSIS >

REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGERS DO NOT OPERATE

Diagnosis Procedure

INFOID:0000000012174535

1. CHECK REAR WINDOW DEFOGGER SWITCH

Check rear window defogger switch.

Refer to DEF-19, "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-23, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

${f 3}.$ CHECK REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

Check rear window defogger power supply and ground circuit.

Refer to DEF-25, "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-27</u>, "<u>Diagnosis Procedure</u>" (LH without automatic drive positioner), <u>DEF-29</u>, "<u>Diagnosis Procedure</u>" (LH with automatic drive positioner), <u>DEF-31</u>, "<u>Diagnosis Procedure</u>" (RH without automatic drive positioner) or <u>DEF-33</u>, "<u>Diagnosis Procedure</u>" (RH with automatic drive positioner).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

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

< SYMPTOM DIAGNOSIS >

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

Diagnosis Procedure

INFOID:0000000012174536

1. CHECK REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

Check rear window defogger power supply and ground circuit. Refer to <u>DEF-25</u>, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-41, "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:0000000012174537

Regarding Wiring Diagram information, refer to DEF-11, "Wiring Diagram".

1. CHECK DOOR MIRROR DEFOGGER FUSE

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

Component	Capacity	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

- 1. Turn ignition switch OFF.
- 2. Disconnect the following harness connectors:
- Fuse block (J/B) connector M5
- Door mirror LH D4 (without automatic drive positioner), D12 (with automatic drive positioner)
- Door mirror RH D107 (without automatic drive positioner), D114 (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
	5P	D4 (LH without automatic drive positioner)	1	- Yes
M5		D107 (RH without automatic drive positioner)	'	
MS)F	D12 (LH with automatic drive positioner)	9	
		D114 (RH with automatic drive positioner)		

4. Check continuity between fuse block (J/B) harness connector M5 terminal 5P and ground.

Fuse block (J/B) connector	Terminal	Ground	Continuity
M5	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-27</u>, "Component Function Check" (without automatic drive positioner) or <u>DEF-29</u>, "Component Function Check" (with automatic drive positioner).

Check door mirror RH.

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?

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

< SYMPTOM DIAGNOSIS >

YES	>> Check intermittent incident. Refer to GI-41 , "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:0000000012174538

1. CHECK DOOR MIRROR DEFOGGER LH

Check door mirror defogger LH.

Refer to <u>DEF-27</u>, "Component Function Check" (without automatic drive positioner) or <u>DEF-29</u>, "Component Function Check" (with automatic drive positioner).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-41, "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:0000000012174539

1. CHECK DOOR MIRROR DEFOGGER RH

Check door mirror defogger RH.

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-41, "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

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

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

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

NO >> Check rear window defogger switch. Refer to <u>DEF-19</u>, "<u>Diagnosis Procedure</u>".

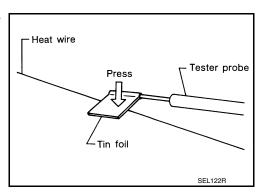
REMOVAL AND INSTALLATION

FILAMENT

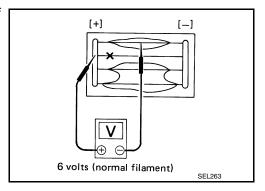
Inspection and Repair

INSPECTION

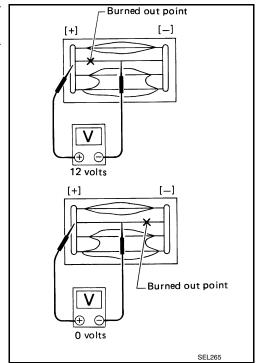
1. When measuring voltage, wrap tin foil around top of negative probe. Then press foil against wire with your finger.



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



- 3. If a filament is burned out, circuit tester registers zero 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)

Revision: October 2015 DEF-43 2016 Maxima NAM

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< REMOVAL AND INSTALLATION >

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

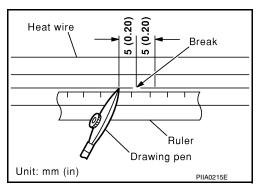
REPAIRING PROCEDURE

- 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.

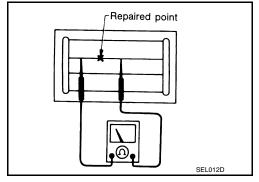
 Place ruler on glass along broken line. Deposit conductive silver composition on break with drawing pen. Slightly overlap existing heat wire on both sides [preferably 5 mm (0.20 in)] of the break.



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

CAUTION:

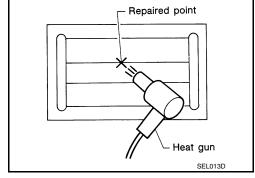
Do not touch repaired area while test is being conducted.



 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.

NOTE:

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



CONDENSER

< REMOVAL AND INSTALLATION >

CONDENSER

Removal and Installation

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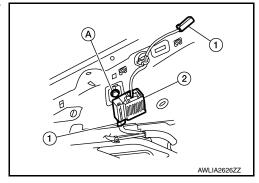
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REMOVAL

- 1. Remove the rear pillar finisher LH. Refer to INT-37, "REAR PILLAR FINISHER: Removal and Installation".
- 2. Remove the headlining. Refer to INT-48, "Removal and Installation".
- 3. Disconnect the harness connectors (1) from the rear window defogger condenser (2).
- 4. Remove bolt (A) and rear window defogger condenser.



INSTALLATION

Installation is in the reverse order of removal.

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