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## < BASIC INSPECTION > **BASIC INSPECTION** Α DIAGNOSIS AND REPAIR WORKFLOW Work Flow INFOID:0000000006234547 В **OVERALL SEQUENCE** Inspection start D 1. Get information for symptom Get the detailed information about symptom from the customer. Е 2. Check DTC Symptom is described. Symptom is not described. Symptom is described. DTC is detected. DTC is detected. DTC is not detected. 3. Confirm the symptom 4. Confirm the symptom Н Confirm the symptom described by the Confirm the symptom described by the customer. customer. 5. Perform DTC Confirmation Procedure 6. Detect malfunctioning system by **SYMPTOM DIAGNOSIS** K 7. Detect malfunctioning part by Diagnostic **Procedure** DEF 8. Repair or replace the malfunctioning part Ν 9. Final check NG (DTC is detected.) (Symptom remains.) Check that the symptom is not detected. Perform DTC Confirmation Procedure again, and then check that the malfunction can be repaired securely.

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**INSPECTION END** 

#### DIAGNOSIS AND REPAIR WORKFLOW

#### < 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-III.)
- 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-III 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-III 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

## ${f 5}$ . 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-III to the vehicle, and check diagnostic results in real time.

If two or more DTCs are detected, refer to <u>BCS-64, "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-39, "Intermittent Incident".

## $oldsymbol{6}$ . 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.

NOTE:

#### **DIAGNOSIS AND REPAIR WORKFLOW**

#### < 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-III.

## 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.

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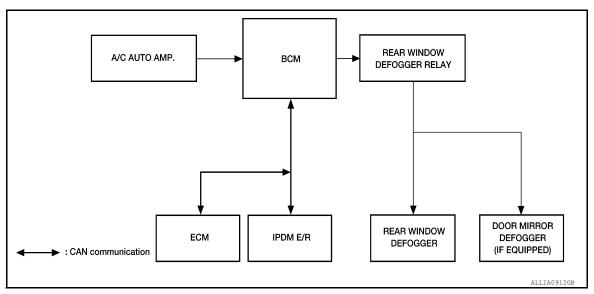
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# SYSTEM DESCRIPTION

## REAR WINDOW DEFOGGER SYSTEM

System Diagram



## System Description

INFOID:0000000006234549

#### Operation Description

- When rear window defogger switch is turned ON while ignition switch is ON, the A/C auto amp. (rear window defogger switch) 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 (with door mirror defogger) are supplied with power and operate when rear window defogger relay turns ON.
- BCM transmits rear window defogger control signal to IPDM E/R via CAN communication when rear window defogger operates.
- Rear window defogger ON is displayed when controller (A/C auto amp.) receives signals.

#### 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	Input signal to BCM	BCM function	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 *	

<sup>\*:</sup> With door mirror defogger

#### REAR WINDOW DEFOGGER SYSTEM

#### < SYSTEM DESCRIPTION >

## **Component Parts Location**

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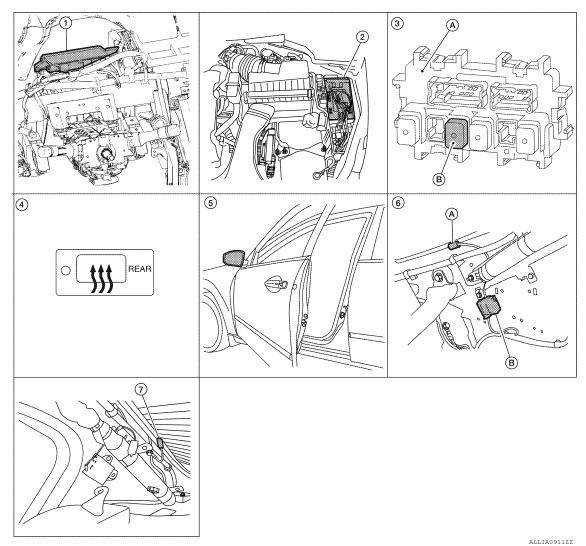
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- BCM M16, M17, M18, M19 (view with 2. instrument panel removed)
- A/C auto amp. (rear window defogger 5. switch) M37
- 7. Rear window defogger B54 (view with rear pillar finisher RH removed)
- IPDM E/R E17
- Door mirror (door mirror defogger) LH D4, RH D107 (if equipped)
- A. Fuse block (J/B)
  - B. Rear window defogger relay J-2
- A. Rear window defogger B53 B. Condenser B52 (view with rear pillar finisher LH removed)

## **Component Description**

INFOID:0000000006234551

BCM	<ul> <li>Operates the rear window defogger with the operation of rear window defogger switch.</li> <li>Performs the timer control of rear window defogger.</li> </ul>
Rear window defogger relay	Operates the rear window defogger and the door mirror defogger with the control signal from BCM.
A/C auto amp. (rear window defogger switch)	<ul> <li>The rear window defogger switch is turned ON.</li> <li>Turns the indicator lamp ON when detecting the operation of rear window defogger.</li> </ul>

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## **REAR WINDOW DEFOGGER SYSTEM**

## < SYSTEM DESCRIPTION >

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

<sup>\*:</sup> With heated mirrors

## **DIAGNOSIS SYSTEM (BCM)**

## < SYSTEM DESCRIPTION >

# **DIAGNOSIS SYSTEM (BCM)**

**COMMON ITEM** 

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

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#### APPLICATION ITEM

CONSULT-III performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description
Ecu Identification	The BCM part number is displayed.
Self Diagnostic Result	Displays the diagnosis results judged by BCM.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Work support	Changes the setting for each system function.
Configuration	<ul> <li>Enables to read and save the vehicle specification.</li> <li>Enables to write the vehicle specification when replacing BCM.</li> </ul>
CAN Diag Support Mntr	Monitors the reception status of CAN communication viewed from BCM.

#### 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			×	×	×		
Intelligent Key system	INTELLIGENT KEY			×	×	×		
Combination switch	COMB SW			×				
BCM	BCM	×	×			×	×	×
Immobilizer	IMMU		×	×	×			
Interior room lamp battery saver	BATTERY SAVER			×	×	×		
Trunk open	TRUNK			×	×			
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×				
Signal buffer system	SIGNAL BUFFER			×	×			
TPMS	AIR PRESSURE MONITOR		×	×	×	×		

## **REAR WINDOW DEFOGGER**

## **DIAGNOSIS SYSTEM (BCM)**

## < SYSTEM DESCRIPTION >

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

VECID-0000000006428163

#### **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].

#### REAR WINDOW DEFOGGER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

## DTC/CIRCUIT DIAGNOSIS

## REAR WINDOW DEFOGGER SWITCH

Description INFOID:0000000006234555

- 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

# 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.

NO >> Refer to DEF-11, "Diagnosis Procedure".

## Diagnosis Procedure

Regarding Wiring Diagram information, refer to <u>DEF-47</u>, "Wiring Diagram".

# 1. CHECK A/C AUTO AMP. (REAR WINDOW DEFOGGER SWITCH)

Check A/C auto amp. operation.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 2

# 2.check rear window defogger switch require signal

- Turn ignition switch ON.
- Check voltage between A/C auto amp. harness connector M37 terminal 27 and ground.

	Terminals			
(+)			Condition of rear window defogger	Voltage (V)
A/C auto amp. connector	Terminal	(–)	switch	(Approx.)
M37	27	Ground	ON	0
IVI37	21	Ground	OFF	5

#### Is the inspection result normal?

YES >> GO TO 3

NO >> GO TO 4

# ${f 3}.$ CHECK REAR WINDOW DEFOGGER SWITCH REQUIRE SIGNAL CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- Disconnect A/C auto amp harness connector M37.
- 3. Disconnect BCM harness connector M18.
- 4. Check continuity between A/C auto amp harness connector M37 terminal 27 and BCM harness connector M18 terminal 38.

BCM connector	Terminal	A/C auto amp. connector	Terminal	Continuity
M18	38	M37	27	Yes

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-80, "Removal and Installation".

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#### **REAR WINDOW DEFOGGER SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

NO >> Repair and replace harness.

# 4. CHECK REAR WINDOW DEFOGGER SWITCH REQUIRE SIGNAL CIRCUIT FOR SHORT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM harness connector M18.
- 3. Disconnect A/C auto amp harness connector M37.
- 4. Check continuity between BCM harness connector M18 terminal 38 and ground.

BCM connector	Terminal	Ground	Continuity
M18	38	Ground	No

#### Is the inspection result normal?

YES >> Replace A/C auto amp. Refer to <a href="HAC-212">HAC-212</a>, "Removal and Installation".

NO >> Repair or replace harness.

#### **REAR WINDOW DEFOGGER RELAY**

#### < DTC/CIRCUIT DIAGNOSIS >

## REAR WINDOW DEFOGGER RELAY

Description INFOID:0000000006234558

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-13</u>, "<u>Diagnosis Procedure</u>".

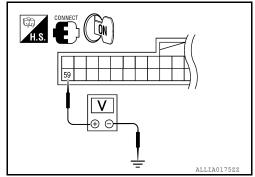
## Diagnosis Procedure

Regarding Wiring Diagram information, refer to <a href="DEF-47">DEF-47</a>, "Wiring Diagram".

# 1. CHECK REAR WINDOW DEFOGGER RELAY GROUND CIRCUIT

- 1. Turn ignition switch ON.
- 2. Check voltage between BCM harness connector M18 terminal 59 and ground.

Terminals			Condition of rear	V-11 0.0
(+)		(–)	window defogger	Voltage (V) (Approx.)
BCM connector	Terminal	(-)	switch	,
M18	59	Ground	ON	0
WITO	59	Orbuna	OFF	Battery voltage



#### Is the inspection result normal?

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

NO >> GO TO 2

## 2. CHECK HARNESS CONTINUITY

- Turn ignition switch OFF.
- 2. Disconnect BCM and fuse block (J/B).
- Check continuity between BCM harness connector M18 (A) terminal 59 and fuse block (J/B) harness connector M4 (B) terminal 4Q.

BCM connector	Terminal	Fuse block (J/B) connector	Terminal	Continuity
M18 (A)	59	M4 (B)	4Q	Yes

Check continuity between BCM harness connector M18 (A) terminal 59 and ground.

BCM connector	Terminal	Ground	Continuity
M18 (A)	59	Ground	No

# DISCONNECT OFF

#### Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

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#### REAR WINDOW DEFOGGER RELAY

#### < DTC/CIRCUIT DIAGNOSIS >

# $\overline{3}$ . CHECK REAR WINDOW DEFOGGER RELAY

Check rear window defogger relay.

Refer to DEF-14, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 4

NO >> Replace rear window defogger relay.

# 4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-39, "Intermittent Incident".

#### Is the inspection result normal?

YES

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

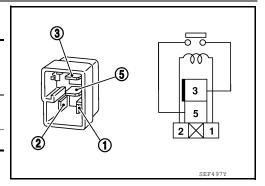
NO >> Repair or replace the malfunctioning parts.

## Component Inspection

# 1. CHECK REAR WINDOW DEFOGGER RELAY

Check rear window defogger relay.

Termin	nal		
Rear win defogger		Condition	Continuity
3	5	12V direct current supply between terminals 1 and 2.	Yes
		No current supply	No



INFOID:0000000006234561

#### 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 INFOID:0000000006234562

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

## 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-15</u>, "<u>Diagnosis Procedure</u>".

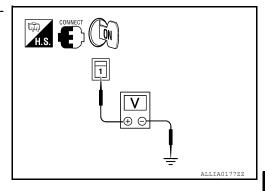
## Diagnosis Procedure

Regarding Wiring Diagram information, refer to <u>DEF-47</u>, "Wiring <u>Diagram"</u>.

# 1. CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch ON.
- 2. Check voltage between rear window defogger harness connector B53 terminal 1 and ground.

Terminals					
(+)			Condition of rear	Voltage (V)	
Rear window defogger connector	Terminal	(–)	window defogger switch	(Approx.)	
B53	1	Ground	ON	Battery voltage	
Б55	1	Oround	OFF	0	



#### Is the inspection result normal?

YES >> GO TO 2

NO >> GO TO 3

# 2. CHECK GROUND CIRCUIT

- Turn ignition switch OFF.
- Disconnect rear window defogger.
- Check continuity between rear window defogger harness connector B54 terminal 2 and ground.

Rear window defogger connector	Terminal	Ground	Continuity
B54	2	Olouliu	Yes

#### Is the inspection result normal?

YES >> GO TO 5

NO >> Repair or replace harness.

# H.S. DISCONNECT OFF

# ${f 3}.$ CHECK HARNESS CONTINUITY 1

1. Turn ignition switch OFF.

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#### REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

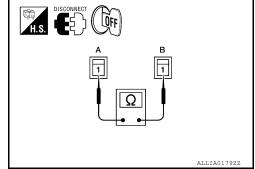
- 2. Disconnect condenser and rear window defogger.
- Check continuity between condenser harness connector B52
   (A) terminal 1 and rear window defogger harness connector B53
  - (B) terminal 1.

Condenser connector	Terminal	Rear window defogger connector	Terminal	Continuity
B52 (A)	1	B53 (B)	1	Yes

# Is the inspection result normal?

YES >> GO TO 4

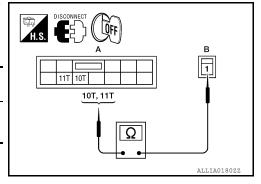
NO >> Replace condenser. Refer to <u>DEF-67</u>, "Removal and Installation".



## 4. CHECK HARNESS CONTINUITY 2

- Disconnect fuse block (J/B).
- 2. Check continuity between fuse block (J/B) harness connector B4 (A) terminal 10T, 11T and condenser harness connector B52 (B) terminal 1.

Fuse block (J/B) connector	Terminal	Condenser connector	Terminal	Continuity
B4 (A)	10T	B52 (B)	1	Yes
D4 (A)	11T	B32 (B)	'	165



#### Is the inspection result normal?

YES >> GO TO 6

NO >> Replace or repair harness.

## 5. CHECK FILAMENT

Check filament.

Refer to DEF-16, "Component Inspection".

#### Is the inspection result normal?

YES >> Refer to GI-39, "Intermittent Incident".

NO >> Repair filament. Refer to <u>DEF-65</u>, "Inspection and Repair".

## 6. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-39, "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:0000000006234565

## 1. CHECK FILAMENT

Check the filament for damage or open circuits.

Refer to DEF-65, "Inspection and Repair".

#### Is the inspection result normal?

YES >> Inspection End.

NO >> Repair filament. Refer to <a href="DEF-65">DEF-65</a>, "Inspection and Repair".

#### DRIVER SIDE DOOR MIRROR DEFOGGER

#### < DTC/CIRCUIT DIAGNOSIS >

## DRIVER SIDE DOOR MIRROR DEFOGGER

Description INFOID:0000000006234566

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 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?

YES >> Door mirror defogger is OK.

NO >> Refer to <u>DEF-17</u>, "<u>Diagnosis Procedure</u>".

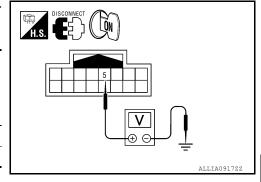
## Diagnosis Procedure

Regarding Wiring Diagram information, refer to DEF-47, "Wiring Diagram".

# 1. CHECK POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect door mirror LH.
- 3. Turn ignition switch ON.
- Check voltage between door mirror LH harness connector D4 terminal 5 and ground.

Terminals			Condition of	
(+)			rear window	Voltage (V)
Door mirror LH connector	Terminal	(-)	defogger switch	(Approx.)
D4	5	Ground	ON	Battery voltage
	3	Giodila	OFF	0



#### Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace harness.

## 2. CHECK GROUND CIRCUIT

- Turn ignition switch OFF.
- Check continuity between door mirror LH harness connector D4 terminal 13 and ground.

Door mirror LH connector	Terminal	Ground	Continuity
D4	13	Oround	Yes

#### Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

# 3. CHECK DOOR MIRROR DEFOGGER LH

Check door mirror defogger LH.

Refer to DEF-18, "Component Inspection".

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#### DRIVER SIDE DOOR MIRROR DEFOGGER

#### < DTC/CIRCUIT DIAGNOSIS >

#### Is the inspection result normal?

YES >> GO TO 4

NO >> Replace door mirror. Refer to MIR-19, "Removal and Installation".

# 4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-39, "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:0000000006234569

# 1. CHECK DOOR MIRROR DEFOGGER LH

- 1. Turn ignition switch OFF.
- 2. Disconnect door mirror LH.
- 3. Check continuity between door mirror terminals 5 and 13.

Terminal		Continuity	
5	13	Yes	

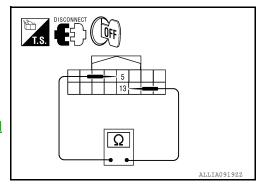
#### Is the inspection result normal?

YES

>> Inspection End.

NO

>> Replace door mirror LH. Refer to MIR-19, "Removal and Installation".



## PASSENGER SIDE DOOR MIRROR DEFOGGER

#### < DTC/CIRCUIT DIAGNOSIS >

## PASSENGER SIDE DOOR MIRROR DEFOGGER

Description INFOID:0000000006234570

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-19, "Diagnosis Procedure". NO

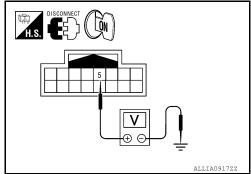
## Diagnosis Procedure

Regarding Wiring Diagram information, refer to DEF-47, "Wiring Diagram".

# 1. CHECK POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect door mirror RH.
- 3. Turn ignition switch ON.
- 4. Check voltage between door mirror RH harness connector D107 terminal 5 and ground.

	Terminals	0 1111 6			
(+)			Condition of rear window defogger	Voltage (V)	
Door mirror RH connector	Terminal	(-)	switch	(Approx.)	
D107	D107 5		ON	Battery voltage	
D107	3	Ground	OFF	0	



#### Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace harness.

## 2. CHECK GROUND CIRCUIT

- Turn ignition switch OFF.
- Check continuity between door mirror RH harness connector D107 terminal 13 and ground.

Door mirror RH connector	Terminal	Ground	Continuity
D107	13	Oround	Yes

#### Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

# ALLIA0918Z2

# 3. CHECK PASSENGER SIDE DOOR MIRROR DEFOGGER

Check door mirror defogger RH.

Refer to DEF-20, "Component Inspection".

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INFOID:0000000006234571

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#### PASSENGER SIDE DOOR MIRROR DEFOGGER

#### < DTC/CIRCUIT DIAGNOSIS >

#### Is the inspection result normal?

YES >> GO TO 4

NO >> Replace door mirror RH. Refer to MIR-19, "Removal and Installation".

## 4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-39, "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:0000000006234573

# 1. CHECK DOOR MIRROR DEFOGGER RH

- Turn ignition switch OFF.
- Disconnect door mirror RH.
- Check continuity between door mirror terminals 5 and 13.

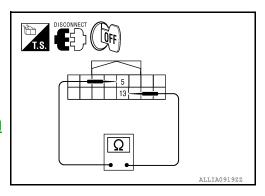
Tern	ninal	Continuity
5	13	Yes

#### Is the inspection result normal?

YES >> Inspection End.

NO

>> Replace door mirror RH. Refer to MIR-19, "Removal and Installation".



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< ECU DIAGNOSIS INFORMATION >

# **ECU DIAGNOSIS INFORMATION**

# **BCM (BODY CONTROL MODULE)**

Reference Value INFOID:0000000006423752

#### NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs
- Check Intelligent Key relative signal strength
- · Confirm vehicle Intelligent Key antenna signal strength

#### VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status	F
ED WIDED III	Other than front wiper switch HI	OFF	
FR WIPER HI	Front wiper switch HI	ON	
ED MIDED LOW	Other than front wiper switch LO	OFF	(
FR WIPER LOW	Front wiper switch LO	ON	
ED MACHED CM	Front washer switch OFF	OFF	
FR WASHER SW	Front washer switch ON	ON	
ED WIDED INT	Other than front wiper switch INT	OFF	
FR WIPER INT	Front wiper switch INT	ON	
ED WIDED STOD	Front wiper is not in STOP position	OFF	
FR WIPER STOP	Front wiper is in STOP position	ON	
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position	
TURN SIGNAL R	Other than turn signal switch RH	OFF	
TURN SIGNAL R	Turn signal switch RH	ON	k
TURN SIGNAL L	Other than turn signal switch LH	OFF	
TURN SIGNAL L	Turn signal switch LH	ON	
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	OFF	DE
TAIL LAWIP SW	Lighting switch 1ST or 2ND	ON	·
HI BEAM SW	Other than lighting switch HI	OFF	
HI BEAIN SW	Lighting switch HI	ON	
HEAD LAMP SW 1	Other than lighting switch 2ND	OFF	
HEAD LAIVIP SW 1	Lighting switch 2ND	ON	
HEAD LAMP SW 2	Other than lighting switch 2ND	OFF	
HEAD LAIVIP 3VV 2	Lighting switch 2ND	ON	
PASSING SW	Other than lighting switch PASS	OFF	
PASSING SW	Lighting switch PASS	ON	
AUTO LIGHT SW	Other than lighting switch AUTO	OFF	F
AUTO LIGHT SW	Lighting switch AUTO	ON	
FR FOG SW	Front fog lamp switch OFF	OFF	
FK FUG SW	Front fog lamp switch ON	ON	
	Driver door closed	OFF	
DOOR SW-DR	Driver door opened	ON	

**DEF-21** Revision: January 2012 2011 Maxima

Monitor Item	Condition	Value/Status
DOOR SW-AS	Passenger door closed	OFF
DOOR SW-AS	Passenger door opened	ON
DOOR SW-RR	Rear door RH closed	OFF
DOOR SW-RR	Rear door RH opened	ON
DOOR SW-RL	Rear door LH closed	OFF
DOOR SW-RL	Rear door LH opened	ON
CDL LOCK SW	Other than power door lock switch LOCK	OFF
CDL LOCK SW	Power door lock switch LOCK	ON
CDL UNLOCK SW	Other than power door lock switch UNLOCK	OFF
CDE UNLOCK SW	Power door lock switch UNLOCK	ON
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	OFF
REI GIL LR-SW	Driver door key cylinder LOCK position	ON
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	OFF
RETUTE ON-SW	Driver door key cylinder UNLOCK position	ON
HAZARD SW	When hazard switch is not pressed	OFF
HAZARD SW	When hazard switch is pressed	ON
REAR DEF SW	When rear window defogger switch is pressed	ON
TR CANCEL SW	Trunk lid opener cancel switch OFF	OFF
TR CANCEL 3W	Trunk lid opener cancel switch ON	ON
TR/BD OPEN SW	Trunk lid opener switch OFF	OFF
HVBD OF LIN SW	While the trunk lid opener switch is turned ON	ON
TRNK/HAT MNTR	Trunk lid closed	OFF
TRINGHAI WINTE	Trunk lid opened	ON
RKE-LOCK	When LOCK button of Intelligent Key is not pressed	OFF
RRE-LOCK	When LOCK button of Intelligent Key is pressed	ON
RKE-UNLOCK	When UNLOCK button of Intelligent Key is not pressed	OFF
RRE-UNLOCK	When UNLOCK button of Intelligent Key is pressed	ON
DVE TD/DD	When TRUNK OPEN button of Intelligent Key is not pressed	OFF
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is pressed	ON
RKE-PANIC	When PANIC button of Intelligent Key is not pressed	OFF
RRE-PAINIC	When PANIC button of Intelligent Key is pressed	ON
DKE DWY ODEN	When UNLOCK button of Intelligent Key is not pressed and held	OFF
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is pressed and held	ON
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF
INC-WODE GIIG	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON
ODTICAL CENCOD	When outside of the vehicle is bright	Close to 5 V
OPTICAL SENSOR	When outside of the vehicle is dark	Close to 0 V
DEO SW. DD	When front door request switch is not pressed (driver side)	OFF
REQ SW -DR	When front door request switch is pressed (driver side)	ON
DEO SW AS	When front door request switch is not pressed (passenger side)	OFF
REQ SW -AS	When front door request switch is pressed (passenger side)	ON
DEO SW. DI	When rear door request switch is not pressed (driver side)	OFF
REQ SW -RL	When rear door request switch is pressed (driver side)	ON

Monitor Item	Condition	Value/Status
REQ SW -RR	When rear door request switch is not pressed (passenger side)	OFF
REQ 3W -RR	When rear door request switch is pressed (passenger side)	ON
REQ SW -BD/TR	When trunk request switch is not pressed	OFF
CLQ SW -BD/TK	When trunk request switch is pressed	ON
PUSH SW	When engine switch (push switch) is not pressed	OFF
-03H 3W	When engine switch (push switch) is pressed	ON
GN RLY 2 -F/B	Ignition switch OFF or ACC	OFF
GN KLT 2 -F/D	Ignition switch ON	ON
ACC RLY -F/B	Ignition switch OFF	OFF
ACC RLY -F/B	Ignition switch ACC or ON	ON
DAKE OM 4	When the brake pedal is not depressed	ON
BRAKE SW 1	When the brake pedal is depressed	OFF
DETE/CANCL OW	When selector lever is in P position	OFF
DETE/CANCL SW	When selector lever is in any position other than P	ON
CET DAIM CW	When selector lever is in any position other than P or N	OFF
SFT PN/N SW	When selector lever is in P or N position	ON
INUX OFNI DD	Driver door UNLOCK status	OFF
UNLK SEN -DR	Driver door LOCK status	ON
	When engine switch (push switch) is not pressed	OFF
PUSH SW -IPDM	When engine switch (push switch) is pressed	ON
ION DIVA E/D	Ignition switch OFF or ACC	OFF
GN RLY1 -F/B	Ignition switch ON	ON
DETE ON IDDIA	When selector lever is in P position	OFF
DETE SW -IPDM	When selector lever is in any position other than P	ON
25T DV 100M	When selector lever is in any position other than P or N	OFF
SFT PN -IPDM	When selector lever is in P or N position	ON
25T D 145T	When selector lever is in any position other than P	OFF
SFT P -MET	When selector lever is in P position	ON
	When selector lever is in any position other than N	OFF
SFT N -MET	When selector lever is in N position	ON
	Engine stopped	STOP
-NOINE 07-7-	While the engine stalls	STALL
ENGINE STATE	At engine cranking	CRANK
	Engine running	RUN
/EH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading
	Driver door LOCK status	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door UNLOCK status	UNLK
	Passenger door LOCK status	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY
-	Passenger door UNLOCK status	UNLK
	Ignition switch ACC or ON	RESET
ID OK FLAG	Ignition switch OFF	SET

Monitor Item	Condition	Value/Status
PRMT ENG STRT	When the engine start is prohibited	RESET
PRIVITENG STRT	When the engine start is permitted	SET
KEN OM SLOT	When Intelligent Key is not inserted into key slot	OFF
KEY SW -SLOT	When Intelligent Key is inserted into key slot	ON
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
CONEDM ID ALL	The key ID that the key slot receives does not accord with any key ID registered to BCM.	YET
CONFRM ID ALL	The key ID that the key slot receives accords with any key ID registered to BCM.	DONE
CONFIDM IDA	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	YET
CONFIRM ID4	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	DONE
CONFIRM ID3	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	YET
CONFIRM IDS	The key ID that the key slot receives accords with the third key ID registered to BCM.	DONE
CONFIDM ID2	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	YET
CONFIRM ID2	The key ID that the key slot receives accords with the second key ID registered to BCM.	DONE
OONEIDM ID4	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	YET
CONFIRM ID1	The key ID that the key slot receives accords with the first key ID registered to BCM.	DONE
TD 4	The ID of fourth key is not registered to BCM	YET
TP 4	The ID of fourth key is registered to BCM	DONE
TD 0	The ID of third key is not registered to BCM	YET
TP 3	The ID of third key is registered to BCM	DONE
TD 0	The ID of second key is not registered to BCM	YET
TP 2	The ID of second key is registered to BCM	DONE
TP 1	The ID of first key is not registered to BCM	YET
IP I	The ID of first key is registered to BCM	DONE
AIR PRESS FL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID DECOT EL 4	When ID of front LH tire transmitter is registered	DONE
ID REGST FL1	When ID of front LH tire transmitter is not registered	YET
ID DECCT ED4	When ID of front RH tire transmitter is registered	DONE
ID REGST FR1	When ID of front RH tire transmitter is not registered	YET
ID DECCT DD4	When ID of rear RH tire transmitter is registered	DONE
ID REGST RR1	When ID of rear RH tire transmitter is not registered	YET
ID DECST DL1	When ID of rear LH tire transmitter is registered	DONE
ID REGST RL1	When ID of rear LH tire transmitter is not registered	YET

# < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
WARNING LAMP	Tire pressure indicator OFF	OFF
WARNING LAWP	Tire pressure indicator ON	ON
BUZZER	Tire pressure warning alarm is not sounding	OFF
BOZZEN	Tire pressure warning alarm is sounding	ON

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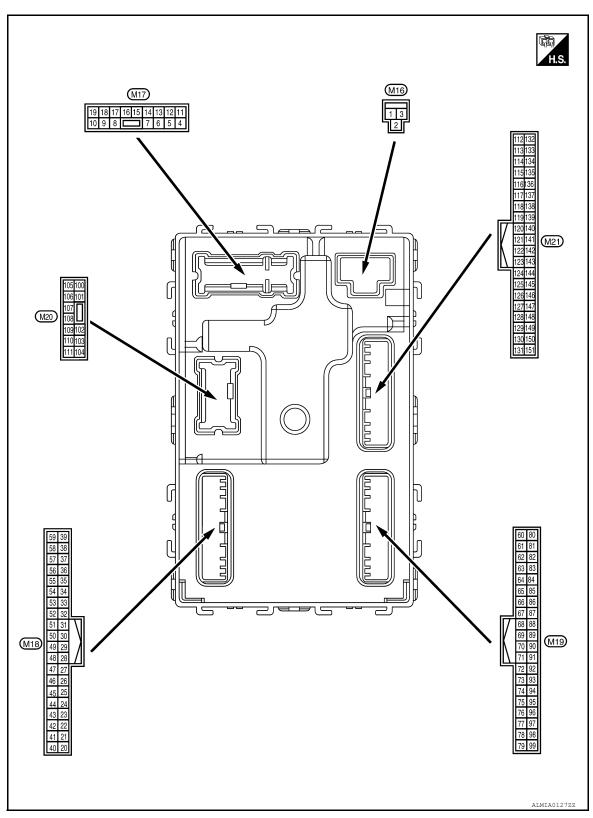
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Terminal Layout



Physical Values

	erminal No. Description Wire color) Condi		Condition	Value				
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)		
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage		
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OF	F	Battery voltage		
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON	1	Battery voltage		
4		Interior room lamp		After passing the ir er operation time	nterior room lamp battery sav-	ov		
(P/W)	Ground	power supply	Output	Any other time after lamp battery save	er passing the interior room roperation time	Battery voltage		
5		Front door RH UN-			UNLOCK (actuator is activated)	Battery voltage		
(G)	Ground	LOCK	Output	Front door RH	Other than UNLOCK (actuator is not activated)	ov		
7	Cround	Ston Jamp	Outout	Stop James	ON	0V		
(R/W)	Ground	Step lamp	Output	Step lamp	OFF	Battery voltage		
8	Ground	All doors I OOK	Output All de	0.45	All doors	LOCK (actuator is activated)	Battery voltage	
(V)	Ground	All doors LOCK	Output		Other than LOCK (actuato is not activated)	Other than LOCK (actuator is not activated)	0V	
9	C***********	Front door LH UN-	Output	Front door !!!	UNLOCK (actuator is activated)	Battery voltage		
(L)	Ground	LOCK		tput Front door LH	Other than UNLOCK (actuator is not activated)	ov		
10	Crown	Rear door RH and	Outton: 1	Rear door RH	UNLOCK (actuator is activated)	Battery voltage		
(G)	Ground	rear door LH UN- LOCK	Output	and rear door LH	Other than UNLOCK (actuator is not activated)	ov		
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage		
13 (B)	Ground	Ground	_	Ignition switch ON	1	ov	I	
					OFF	0V		
14 (GR/ W)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	ON	When the illumination brightening/dimming level is in the neutral position  (V)  10  2 ms		
15	Ground	ACC indicator lamp	Outout	Ignition switch	OFF	Battery voltage		
(Y/L)	Ground	ACC indicator lamp	Output	Ignition switch	ACC or ON	0V		

Term	inal No.	Description				
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
	. ,		•		Turn signal switch OFF	0V
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E
-					Turn signal switch OFF	0V
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s 1 s PKID0926E
19	Ground	Room lamp timer	Output	Interior room	OFF	Battery voltage
(Y)	Ground	control	Odipat	lamp	ON	0V
21 (P/B)	Ground	Optical sensor signal	Input	Ignition switch ON	When outside of the vehi- cle is bright  When outside of the vehi- cle is dark	Close to 5V  Close to 0V
24 (R/W)	Ground	Stop lamp switch 1	Input		_	Battery voltage
26 (O/L)	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (brake pedal is re- leased) ON (brake pedal is de- pressed)	0V  Battery voltage
27 (O)	Ground	Front door lock assembly LH (unlock sensor)	Input	Front door LH	LOCK status  UNLOCK status	(V) 15 10 5 0 10 ms  JPMIA0011GB 11.8V
				When Intelligent K	ey is inserted into key slot	Battery voltage
29 (Y)	Ground	Key slot switch	Input	_	ey is not inserted into key slot	0V
31		Rear window defog-	_	Rear window de-	OFF OFF	0V
(G)	Ground	ger feedback signal	Input	fogger switch	ON	Battery voltage

# < ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description	Т		0 1111	Value	
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	_
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	OFF (when front door RH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB	(
					ON (when front door RH opens)	11.8 V	-
37 (O)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB	(
					ON	0V	-
38		Rear window defog-		Rear window de-	OFF	5V	-
(GR/ W)	Ground	ger ON signal	Input	fogger switch	ON	0V	_
40 (Y/G)	Ground	Power window serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB	
				Ignition switch OF	F or ACC	0V	
41	Ground	Engine switch (push	Output	Engine switch (push switch) illu-	ON	5.5V	D
(W)	2.34.14	switch) illumination	Carpat	mination	OFF	0V	-
42 (R)	Ground	LOCK indicator lamp	Output	LOCK indicator	ON	0V	- '
		Danium Corre		lamp	OFF	Battery voltage	_
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON		0V	_
46	Ground	Receiver & sensor	Output	Ignition switch	OFF	0V	
(V/W)		power supply output	- 4		ACC or ON	5.0V	_

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	inal No.	Description				V-L -
(Wire	e color) (-)	Signal name	Input/ Output		Condition	Value (Approx.)
47 <sup>1</sup>	Ground	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 ••• 0.2s
(G/O)	Glound	er signal	Output	ON	When receiving the signal from the transmitter	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
48 (R/G)	Ground	Selector lever trans- mission range switch signal	Input	Selector lever	P or N position  Except P and N positions	12.0V 0V
-					ON	0V
49 (L/O)	Ground	Security indicator signal	Output	Security indicator	Blinking	(V) 15 10 5 0 1 s JPMIA0014GB
					OFF	Battery voltage
50 (LG/ B)	Ground	Combination switch INPUT 5	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF Lighting switch 1ST Lighting switch high-beam Lighting switch 2ND  Turn signal switch RH	0V  (V) 15 10 2 ms  JPMIA0031GB  10.7V
51 (L/W)	Ground	Combination switch INPUT 1	Output	Combination switch	All switch OFF (Wiper intermittent dial 4) Front wiper switch HI (Wiper intermittent dial 4) Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7	0V  (V) 15 10 5 0 2 ms  JPMIA0032GB

# < ECU DIAGNOSIS INFORMATION >

Terminal No.		Description				Value	
(Wire	e color) (-)	Signal name	Input/ Output		Condition	Value (Approx.)	А
					All switch OFF (Wiper intermittent dial 4)	0V	В
					Front washer switch ON (Wiper intermittent dial 4)	( <u>v</u> )	
52 (G/B)	Ground	Combination switch INPUT 2	Output	Combination switch	Any of the conditions below with all switch OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 5  • Wiper intermittent dial 6	15 10 5 0 2 ms JPMIA0033GB	C D
-					All switch OFF	0V	Е
					Front wiper switch INT		
				Combination	Front wiper switch LO	(V) 15	F
53 (LG/ R)	Ground	Combination switch INPUT 3	Output	switch (Wiper intermit- tent dial 4)	Lighting switch AUTO	10 5 0 2 ms JPMIA0034GB	G
					All switch OFF	10.7V	Н
		Combination switch INPUT 4	Output		Front fog lamp switch ON		
				Combination	Lighting switch 2ND	(V) 15	
54 (G/Y)	Ground			switch (Wiper intermit- tent dial 4)	Lighting switch flash-to- pass	10 5 0	
					Turn signal switch LH	2 ms JPMIA0035GB	J
57 <sup>1</sup>	Ground	Tire pressure warn- ing check switch	Input		_	10.7V	K
(W)		ing check switch					DE
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE)	(V) 15 10 5 0 10 ms  JPMIA0011GB	M
					ON (for the LU ODE)	11.8V	
					ON (front door LH OPEN)	0V Retten weltere	
59 (G/R)	Ground	Rear window defog- ger relay	Output	Rear window de- fogger	Active  Not activated	Battery voltage  0V	0
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	inal No. e color)	Description		Condition		Value	
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	
60	Ground	Front console antenna 2 (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	
(B/R)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0  JMKIA0063GB	
61	Ground	Center console antenna 2 (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	
(W/R)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	
62	Ground	nd Front outside handle RH antenna (-)	Output	When the front door RH request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(V)					When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	

	inal No.	Description				Value	۸
(Wire (+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
63	Ground	Front outside handle RH antenna (+)	Output	When the front door RH request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 1   I   I   I   I   I   I   I   I   I	B C D
(P)					When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	E F
64	Ground	Front outside handle LH antenna (-)	Output	When the front door LH request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	G H
(V)					When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	J K
65	Ground	und Front outside handle LH antenna (+)		When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	M
(P)			switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	O	

	inal No. e color)	Description Input/		Condition		Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
68 (G/O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
69 (O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
70 (R/B)	Ground	Ignition relay-2 control	Output	Ignition switch	OFF or ACC	0V Battery voltage
71	Ground	Remote keyless entry receiver signal	Input/ Output	During waiting		(V) 15 10 5 1 ms JMKIA0064GB
(L/O)				When operating either button on Intelligent Key		(V) 15 10 5 1 ms  JMKIA0065GB
	Ground	Combination switch OUTPUT 5	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0  JPMIA0041GB 1.4V
75 (R/Y)					Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB
					Any of the conditions below with all switch OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 2  • Wiper intermittent dial 6  • Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3V

Terminal No.		Description				Value	
(Wire	e color) (-)	Signal name	Input/ Output	Condition		(Approx.)	
	Ground	Combination switch OUTPUT 3	Input		All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms  JPMIA0041GB 1.4V	
				Combination switch	Lighting switch high-beam (Wiper intermittent dial 4)	(V) 15 10 5 0	
76 (R/G)						1.3V	
					Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0	
						2 ms JPMIA0037GB 1.3V	
					Any of the conditions below with all switch OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 2  • Wiper intermittent dial 3	(V) 15 10 5 2 ms JPMIA0040GB	
78 (P)	Ground	CAN-L	Input/ Output			_	
79 (L)	Ground	CAN-H	Input/ Output		_	_	
80 (R/L)				Key slot illumina-	OFF	(V) 15 10 5	
	Ground		tion	Blinking	1 s JPMIA0015GB		
81	_	ON indicator lamp			ON OFF or ACC	Battery voltage  0V	
(LG)	Ground		Output	Ignition switch	ON Battery voltage		

Terminal No. (Wire color)		Description		O. adilia		Value				
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)				
83	Ground	ACC relay control	Output	Ignition switch	OFF	0V				
(L)	Giodila	ACC relay control	Output	ignition switch	ACC or ON	Battery voltage				
84 (Y/R)	Ground	CVT shift selector	Output		_	Battery voltage				
87	Ground	Selector lever P posi-	Input	Selector lever	P position	OV				
(G/B)	Cround	tion switch	mpat	CCICOIOI ICVCI	Any position other than P	Battery voltage				
					ON (pressed)	0V				
88 (R)	Ground	Front door RH request switch	Input	Front door RH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB				
					ON (pressed)	0V				
89 (R)	Ground	Front door LH request switch	Input	Front door LH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB				
90	Ground	Blower fan motor re-	Output	Ignition switch	OFF or ACC	OV				
(Y)	Siouila	lay control	Juiput	iginiion switon	ON	Battery voltage				
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		Battery voltage				

# < ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	٨
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
					All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB	ВС
					Turn signal switch LH	(V) 15 10 5 0 JPMIA0037GB 1.3V	E F
95 (R/W)	Ground	Combination switch OUTPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V	G H I
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB	J K <b>DEF</b>
					Front washer switch ON	(V) 15 10 5 2 ms  JPMIA0039GB	M
						1.3V	0

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	inal No.	Description				Value	
(VVIr	e color)	Signal name Input/ Condition Output		(Approx.)			
	,,		•		All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	
96	Ground	Combination switch	Input	Combination	Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB	
(P/B)		OUTPUT 4	Impat		switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB
					Any of the conditions below with all switch OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 5  • Wiper intermittent dial 6	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3V	

	inal No.	Description				Value		
(Wire	e color) (-)	Signal name	Signal name Input/ Output		Condition	(Approx.)	Α	
					All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB	B C	
					Lighting switch flash-to- pass	(V) 15 10 5 0 2 ms JPMIA0037GB	E F	
97 (R/B)	Ground	Combination switch OUTPUT 2	Input	Combination switch (Wiper intermittent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB	G H	
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB	J K	
					Front wiper switch HI	(V) 15 10 5 0 2 ms	M	
					Pressed	1.3V	0	
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0012GB	Р	

	inal No. e color)	Description			Condition	Value	
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)	
103 Ground		Trunk lid opening.	Output	Trunk lid	Open (trunk lid opener actuator is activated)	Battery voltage	
(V)	Ground	Trunk na opening.	Output	Trunk na	Close (trunk lid opener actuator is not activated)	0V	
110 (V/W)	Ground	Trunk room lamp	Output	Trunk room lamp	ON OFF	0V Battery voltage	
114	Canada	Trunk room antenna	Outout	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 1 1 s  JMKIA0062GB	
(B)	Ground	1 (-)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 1	
115	Ground	Trunk room antenna	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB	
(W)	Ground	1 (+) Outpu	Cutput	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0  JMKIA0063GB	

	inal No.	Description				Value	
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	/
118		Door humner enten		When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	(
(L/O)	Ground	Rear bumper antenna (-)	Output	lid request switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	I
119		Door humner enten		When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 0 1 s JMKIA0062GB	
(BR/ W)	Ground	Rear bumper antenna (+)	Output	lid request switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 1 s 1 s JMKIA0063GB	D
127		Ignition relay (IPDM	_		OFF or ACC	Battery voltage	
(BR/ W)	Ground	E/R) control	Output	Ignition switch	ON	0V	
130 (W)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (trunk is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V	
132 (R)	Ground	Starter motor relay control	Output	Ignition switch ON	ON (trunk is open)  When selector lever is in P or N position and the brake is depressed  When selector lever is in P or N position and the brake is not depressed	0V  Battery voltage  0V	

# < ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description				Value
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)
140	Ground	Engine switch (push	Input	Engine switch	Pressed	0V
(BR)	Giodila	switch)	IIIput	(push switch)	Not pressed	Battery voltage
					ON (pressed)	OV
141 (BR)	Ground	Trunk request switch	Input	Trunk request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
144	0	Request switch buzz-	0.44	Request switch	Sounding	0V
(GR)	Ground	er	Output	buzzer	Not sounding	Battery voltage
147	Ground	Trunk lid opener	Input	Trunk lid opener	Pressed	0V
(L/R)	Ground	switch	Input	switch	Not pressed	Battery voltage
148 (R/W)	Ground	Rear door RH switch	Input	Rear door RH switch	OFF (when rear door RH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (when rear door RH opens)	OV
149 (R/B)	Ground	Rear door LH switch	Input	Rear door LH switch	OFF (when rear door LH closes)	(V) 15 10 5 0 10 ms 11.8V
					ON (when rear door LH opens)	OV

<sup>1 :</sup> With low tire pressure monitoring system

Fail Safe

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Erase DTC

# < ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent  • Starter control relay signal  • Starter relay status signal
B2562: LO VOLTAGE	Inhibit engine cranking	100 ms after the power supply voltage increases to more than 8.8 V
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent  • Starter motor relay control signal  • Starter relay status signal (CAN)
B260A: IGNITION RELAY	Inhibit engine cranking	<ul> <li>500 ms after the following conditions are fulfilled</li> <li>IGN relay (IPDM E/R) control signal: OFF (Battery voltage)</li> <li>Ignition ON signal (CAN to IPDM E/R): OFF (Request signal)</li> <li>Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)</li> </ul>
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilled  • Power position changes to ACC  • Receives engine status signal (CAN)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B26E1: ENG STATE NO RECIV	Inhibit engine cranking	When any of the following conditions are fulfilled  • Power position changes to ACC  • Receives engine status signal (CAN)

# DTC Inspection Priority Chart

INFOID:0000000006423757

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

Priority	DTC	1
1	B2562: LO VOLTAGE	
2	U1000: CAN COMM CIRCUIT     U1010: CONTROL UNIT (CAN)	K
3	B2190: NATS ANTENNA AMP     B2191: DIFFERENCE OF KEY     B2192: ID DISCORD BCM-ECM     B2193: CHAIN OF BCM-ECM	DEF
	<ul> <li>B2553: IGNITION RELAY</li> <li>B2555: STOP LAMP</li> <li>B2556: PUSH-BTN IGN SW</li> <li>B2557: VEHICLE SPEED</li> <li>B2560: STARTER CONT RELAY</li> <li>B2601: SHIFT POSITION</li> </ul>	М
4	<ul> <li>B2602: SHIFT POSITION</li> <li>B2603: SHIFT POSI STATUS</li> <li>B2604: PNP SWITCH</li> <li>B2605: PNP SWITCH</li> <li>B2608: STARTER RELAY</li> <li>B260A: IGNITION RELAY</li> </ul>	N O
	<ul> <li>B260F: ENG STATE SIG LOST</li> <li>B2614: ACC RELAY CIRC</li> <li>B2615: BLOWER RELAY CIRC</li> <li>B2616: IGN RELAY CIRC</li> <li>B2617: STARTER RELAY CIRC</li> <li>B2618: BCM</li> <li>B261A: PUSH-BTN IGN SW</li> <li>B26E1: ENG STATE NO RECIV</li> <li>C1729: VHCL SPEED SIG ERR</li> </ul>	P

#### < ECU DIAGNOSIS INFORMATION >

Priority	DTC
5	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] FR C1711: [NO DATA] RR C1711: [NO DATA] RR C1711: [OHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1716: [PRESSDATA ERR] FL C1716: [PRESSDATA ERR] FR C1717: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1719: [POBESSDATA ERR] RR C1719: [CODE ERR] FR C1720: [CODE ERR] FR C1721: [CODE ERR] RR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FR C1725: [BATT VOLT LOW] FR C1726: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RL C1734: CONTROL UNIT
6	B2622: INSIDE ANTENNA     B2623: INSIDE ANTENNA

DTC Index

#### NOTE:

Details of time display

- CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.
- 1 39: Displayed if any previous malfunction is present when current condition is normal. It increases 1 → 2
   → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter
   remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch
   OFF → ON after returning to the normal condition if the malfunction is detected again.

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	BCS-32
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-33
U0415: VEHICLE SPEED SIG	_	_	_	BCS-34
B2190: NATS ANTENNA AMP	×	_	_	<u>SEC-37</u>
B2191: DIFFERENCE OF KEY	×	_	_	SEC-40
B2192: ID DISCORD BCM-ECM	×	_	_	<u>SEC-41</u>
B2193: CHAIN OF BCM-ECM	×	_	_	<u>SEC-42</u>
B2553: IGNITION RELAY	_	_	_	PCS-46
B2555: STOP LAMP	_	_	_	SEC-43
B2556: PUSH-BTN IGN SW	_	×	_	SEC-46
B2557: VEHICLE SPEED	×	×	_	SEC-48
B2560: STARTER CONT RELAY	×	×	_	<u>SEC-49</u>

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2562: LOW VOLTAGE	_	_	_	BCS-35
B2601: SHIFT POSITION	×	×	_	SEC-50
B2602: SHIFT POSITION	×	×	_	SEC-53
B2603: SHIFT POSI STATUS	×	×	_	SEC-56
B2604: PNP SWITCH	×	×	_	SEC-59
B2605: PNP SWITCH	×	×	_	SEC-61
B2608: STARTER RELAY	×	×	_	SEC-63
B260A: IGNITION RELAY	×	×	_	PCS-48
B260F: ENG STATE SIG LOST	×	×	_	SEC-65
B2614: ACC RELAY CIRC	_	×	_	PCS-50
B2615: BLOWER RELAY CIRC	_	×	_	PCS-53
B2616: IGN RELAY CIRC	_	×	_	PCS-56
B2617: STARTER RELAY CIRC	×	×	_	SEC-67
B2618: BCM	×	×	_	PCS-59
B261A: PUSH-BTN IGN SW	_	×	_	PCS-60
B2622: INSIDE ANTENNA	_	_	_	DLK-56
B2623: INSIDE ANTENNA	_	_	_	DLK-59
B26E1: ENG STATE NO RES	×	×	_	SEC-66
C1704: LOW PRESSURE FL	_	_	×	<u>WT-43</u>
C1705: LOW PRESSURE FR	_	_	×	<u>WT-43</u>
C1706: LOW PRESSURE RR	_	_	×	<u>WT-43</u>
C1707: LOW PRESSURE RL	_	_	×	<u>WT-43</u>
C1708: [NO DATA] FL	_	_	×	<u>WT-13</u>
C1709: [NO DATA] FR	_	_	×	<u>WT-13</u>
C1710: [NO DATA] RR	_	_	×	<u>WT-13</u>
C1711: [NO DATA] RL	_	_	×	<u>WT-13</u>
C1712: [CHECKSUM ERR] FL	_	_	×	<u>WT-15</u>
C1713: [CHECKSUM ERR] FR	_	_	×	<u>WT-15</u>
C1714: [CHECKSUM ERR] RR	_	_	×	<u>WT-15</u>
C1715: [CHECKSUM ERR] RL	_	_	×	<u>WT-15</u>
C1716: [PRESSDATA ERR] FL	_	_	×	<u>WT-17</u>
C1717: [PRESSDATA ERR] FR	_	_	×	<u>WT-17</u>
C1718: [PRESSDATA ERR] RR	_	_	×	<u>WT-17</u>
C1719: [PRESSDATA ERR] RL	_	_	×	<u>WT-17</u>
C1720: [CODE ERR] FL	_	_	×	<u>WT-15</u>
C1721: [CODE ERR] FR	_	_	×	<u>WT-15</u>
C1722: [CODE ERR] RR	_	_	×	<u>WT-15</u>
C1723: [CODE ERR] RL	_	_	×	<u>WT-15</u>
C1724: [BATT VOLT LOW] FL	_	_	×	<u>WT-15</u>
C1725: [BATT VOLT LOW] FR	_	_	×	<u>WT-15</u>
C1726: [BATT VOLT LOW] RR	_	_	×	WT-15
C1727: [BATT VOLT LOW] RL	_	_	×	<u>WT-15</u>

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1729: VHCL SPEED SIG ERR	_	_	×	<u>WT-19</u>
C1734: CONTROL UNIT	_	_	×	<u>WT-20</u>

# WIRING DIAGRAM

# **REAR WINDOW DEFOGGER**

Wiring Diagram INFOID:0000000006425583 В

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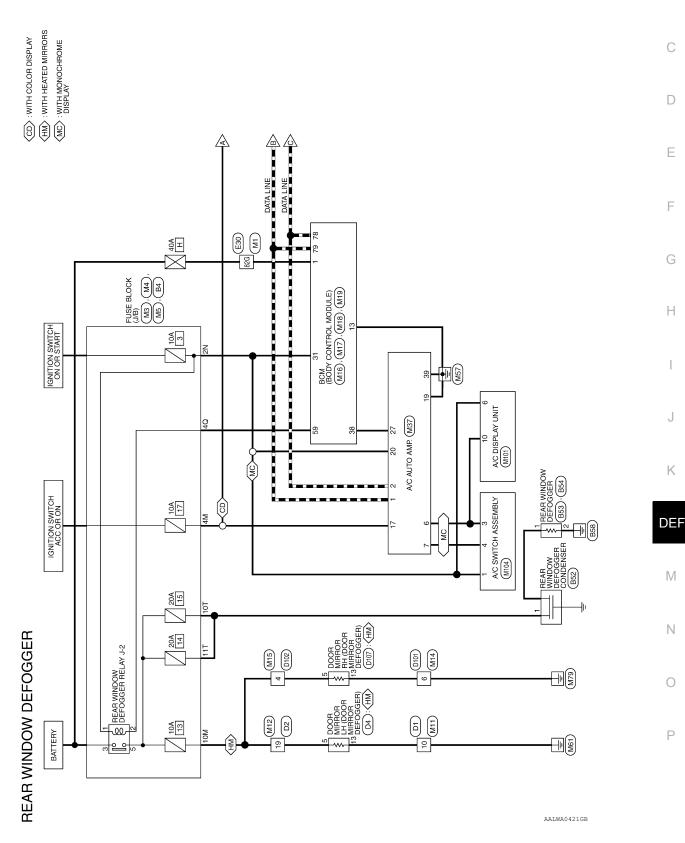
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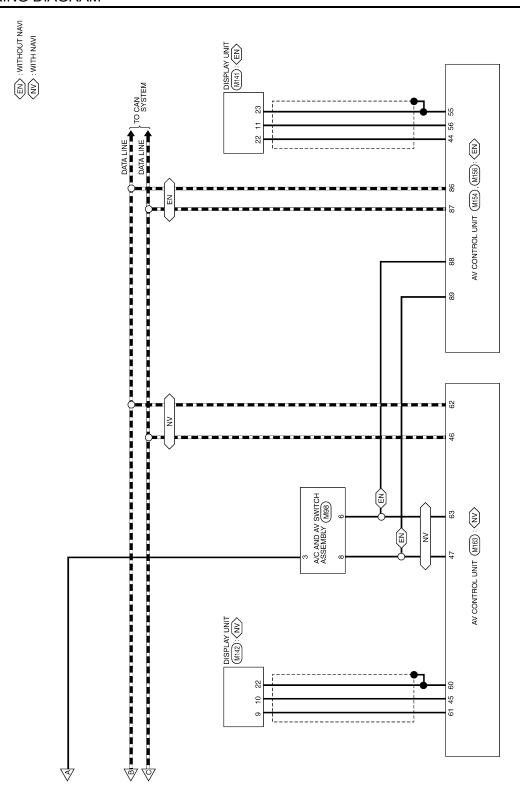
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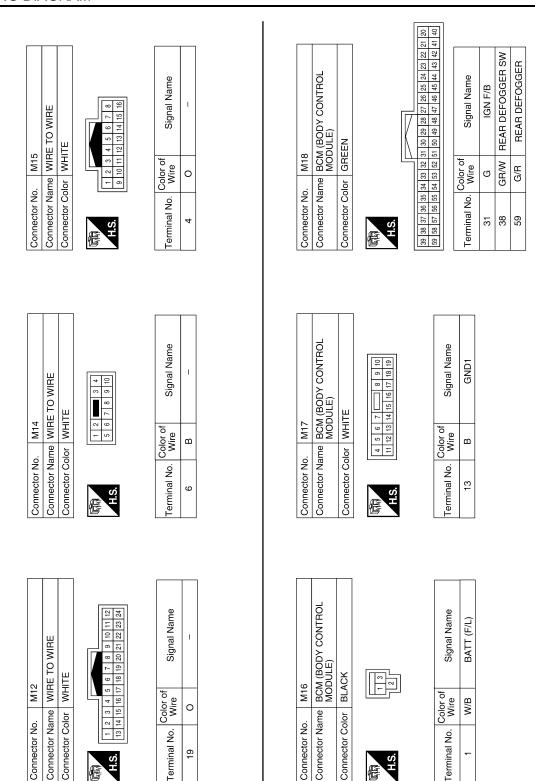
ABLWA1132GB

			А
	ame ()		В
	Connector No. M3 Connector Name FUSE BLOCK (J/B) Connector Color WHITE    M	M11   M11   M12   M12   M14   M18   M18   M18   M18   M18   M18   M19	С
	No. M3 No. M3 No. Color of SN No. SN	Connector No. M11  Connector Name WIRE TO WIRE  Connector Color WHITE      2   3   1   1   1   1   1   1   1   1   1	D
	Connector No. Connector Name Connector Color Terminal No. W	Connector Na. Connector Nan Connector Nan Terminal No. 10	Е
			F
	Signal Name	M5	G H
	W/B W/B		I
33	Terminal No.	Connector No. Connector Name Connector Color H.S.  AM V 10M Color	J
CONNECTORS			K
	M1	BLOCK (J/B)  □	<b>DEF</b>
REAR WINDOW DEFOGGER	nector No nector Na nector Co	Connector No. M4  Connector Name FUSE BLOCK (J/B)  Connector Color MHITE  Terminal No. Wire Signal Na  4Q G/R	N
REAR \	Condition	S S S S AALIA0612GB	0
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#### **REAR WINDOW DEFOGGER**

#### < WIRING DIAGRAM >



ABLIA1734GB

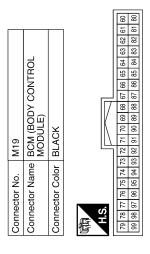
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# **REAR WINDOW DEFOGGER**

#### < WIRING DIAGRAM >

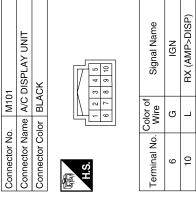
Color of Signal Name	L CAN-H	P CAN-L	L TX (WITH MONOCHROME DISPLAY)	P RX (WITH MONOCHROME DISPLAY)	V/Y ACC	B GND	G IGN	GR/W RR DEF ON	B GND (POWER)
Terminal No.	-	2	9	7	17	19	20	27	30

					ı	ı			ı				
Connector No.	M37												
Connector Name A/C AUTO AMP	A/C	AUT	0	M	٠.								
Connector Color WHITE	MH	ш											
H.S.										1			
	L				Г								
1 2 3 4 5 6	2	6.	10 11 12 13	12	<u>'</u>	4	5	16	1	18	6	Ę	_
23 24 25	26 27 28 29 30 31 32 33 34 35	29	31	윉	33	34	35	8	36 37 38	38	စ္တ	9	
			ł	l			1	l	]		1	1	_



Signal Name	CAN-L	CAN-H	
Color of Wire	Ь	٦	
Terminal No. Wire	78	79	

	Connector No.	M104	
YY UNIT	Connector Name	Connector Name   A/C SWITCH ASSEMBLY	SEMBLY
	Connector Color WHITE	WHITE	
	明.S.	7 8 9 3 10 11 12	
gnal Name	Terminal No. Wire	lor of Signal Name	Vame
IGN	-	G	7
AMP>DISP)	3	L RX (AMP>SW)	(MS <c< td=""></c<>
	4	P TX (SW>AMP)	>AMP)



•	A/C AND AV SWITCH ASSEMBLY	<u></u>	8 10 12 14 16 13 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Signal Name	ACC	CAN-H
MS8		lor WH	2 - 4 8 6 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Color of Wire	Λ/Λ	٦
Connector No.	Connector Name	Connector Color WHITE	H.S.	Terminal No.	3	9

AALIA0613GB

CAN-L

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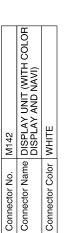
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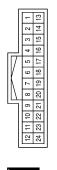
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Connector Color WHITE	ONTR	OL UN NAVI)	=	
Connector Name AV C (WIT)  Connector Color   WHIT	ONTR	OL UN NAVI)	늘	
Connector Color WHIT	ш			
	ĺ	7		
47 46 45 44 43 42 41 40 39 38 37	43 42 4	1 40 36	98 6	37 36
59 58 57 56 55 54 53 52 51 50 49	55 54 5	3 52 51	1 50 4	19 48

Signal Name	DISP IT	SHIELD	IT DISP	
Color of Wire	BR	SHIELD	>	
Terminal No.	44	55	99	



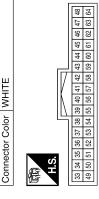




Signal Name	DISP IT	IT DISP	SHIELD	
Color of Wire	BB	<b>\</b>	SHIELD	
Terminal No.	6	10	22	

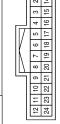
	,			
Signal Name	IT DISP	DISP IT	BUS GND	
Color of Wire	>	BR	SHIELD	
Terminal No.	11	22	53	

M163	Connector Name AV CONTROL UNIT (WITH NAVI)	WHITE
Connector No.	Connector Name	Connector Color WHITE



I No. Wire Signal Name	Y IT DISP	P CAN-L	P M-CAN L	SHIELD SHIELD	BR DISPIT	L CAN-H	
Terminal No.	45	46	47	09	61	62	63

tor No.	M141	141									
tor Name DISPLAY UNIT (WITH COLOR DISPLAY WITHOUT NAVI)	ᅙᅙ	SP	25	> >	5₹	l⊑∓	≥రై	Ęς	ΞŽ	000 (VI)	Я
tor Color WHITE	≥		ш								
		f		IN.	IV.	17	┙				
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24 23 22 21 20 19 18 17 16 15 14 13	82	21	8	9	8	17	16	15	4	13	
	I	$\ $	II	Ш	Ш	$\ $	$\ $	Ш	Ш	ī	





Connector No.	M156
Connector Name	Connector Name AV CONTROL UNIT (WITHOUT NAVI)
Connector Color WHITE	WHITE



Signal Name	CAN-H	CAN-L	M-CAN H	M-CAN L
Color of Wire	٦	۵	٦	Ь
Terminal No. Wire	98	87	88	68

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# **REAR WINDOW DEFOGGER**

#### < WIRING DIAGRAM >

Connector No.   B4	Connector No. B54 Connector Name REAR WINDOW DEFOGGER Connector Color BLACK  A.S.  Terminal No. Wire Signal Name  2 B	A B C D
		F
Signal Name	Connector No. B53 Connector Name REAR WINDOW DEFOGGER Connector Color BLACK  Terminal No. Wire Signal Name  1 B -	G
	BES3 BLACK  ire 6  B B B B B B B B B B B B B B B B B B	Н
No. Wire	Connector No. B53 Connector Name REAR V Connector Color BLACK LS.  Terminal No. Wire  1 B	I
Terminal No.	Connector Nan Connector Colc Terminal No.	J
		K
E30   WIRE TO WIRE   36 46 56 66 76 86 96   20 106 116 126 136 146 156 166 176   20 106 116 126 136 146 156 166 176   306 276 286 286 306 316 226 286 346   306 386 376 386 306 316 226 386 346   306 386 376 386 306 316 226 386 346   306 386 376 386 376 386 26 56 56 56 56 56 56 56 56 56 56 56 56 56	Connector No. B52 Connector Name REAR WINDOW DEFOGGER CONDENSER CONDECTOR WHITE  Terminal No. Color of Signal Name  1 Y -	DEF
E30   WIRE TO WIRE	WINDOW DEFO	M
16 26 106 17 186 196 276 38 18 18 18 18 18 18 18 18 18 18 18 18 18	ame REAR v CONDE	N
Connector No. E30  Connector Name WIRE TO WIRE  Connector Color WHITE  To 26 106 116 126 136 14  Sec 36 376 386 39  Sec 36 377 386 386 39  Sec 386 377 386 386 386  Sec 386 377 386 376 386 386  Sec 386 377 386 376 376 376 376 376  Sec 386 377 376 376 376 376  Sec 386 377 376 376  Sec 386 377 376 376 376  Sec 386 377 376 376 376  Sec 386 377 376 376  Sec 386 377  Sec 377  S	Connector No.	
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Revision: January 2012 **DEF-53** 2011 Maxima

#### **REAR WINDOW DEFOGGER**

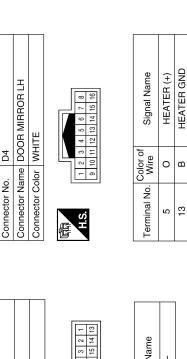
#### < WIRING DIAGRAM >

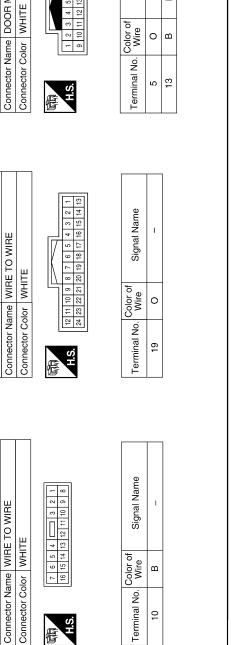
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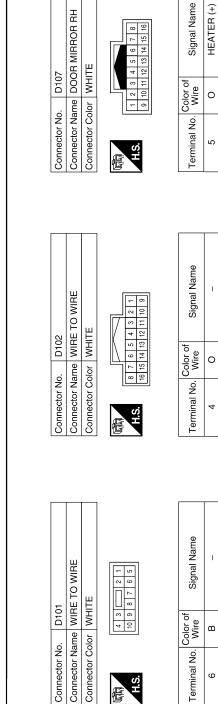
Connector No.

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Connector No.







HEATER GND

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		FRONT BLOWER MOTOR RELAY J-4
(REAR ER RELAY)		ACCESSORY RELAY J-3
J-2 FUSE BLOCK (J/B) (REAR WINDOW DEFOGGER RELAY)		REAR WINDOW DEFOGGER RELAY J-2
Connector No. Connector Name Connector Color	S. S	IGNITION RELAY - 2 J-1

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

< SYMPTOM DIAGNOSIS >

# SYMPTOM DIAGNOSIS

# REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGER DO NOT OPERATE.

Diagnosis Procedure

INFOID:0000000006234581

Regarding Wiring Diagram information, refer to DEF-47, "Wiring Diagram".

# 1. CHECK REAR WINDOW DEFOGGER SWITCH

Check rear window defogger switch.

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

#### Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

# 2. CHECK REAR WINDOW DEFOGGER RELAY

Check rear window defogger relay.

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

#### Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace the malfunctioning parts.

# 3. 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)	20A	14
r use block (o/b)	20A	15

#### Is the inspection result normal?

YES >> GO TO 4

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

# 4. CHECK REAR WINDOW DEFOGGER POWER SUPPLY CIRCUIT

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

	Terminals			
(+)			Condition of rear window defogger	Voltage (V)
Fuse block (J/B) connector	Terminal	(–)	switch	(Approx.)
B4	10T, 11T	Ground	ON	Battery voltage
	101, 111	Orburia	OFF	0

#### Is the inspection result normal?

YES >> GO TO 5

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

#### 5. CHECK REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

Check rear window defogger power supply and ground circuit.

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

#### Is the inspection result normal?

YES >> GO TO 6

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# REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGER DO NOT OPER-

#### ATE. < SYMPTOM DIAGNOSIS > NO >> Repair or replace the malfunctioning parts.

6. CHECK DOOR MIRROR DEFOGGER	
Check door mirror defogger. Refer to <u>DEF-59</u> , " <u>Diagnosis Procedure</u> ".	
Is the inspection result normal?	

YES >> Check intermittent incident. Refer to GI-39, "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:0000000006234582

1. CHECK REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

Check rear window defogger power supply and ground circuit. Refer to <u>DEF-15</u>, "Component Function Check".

#### Is the inspection result normal?

YES >> Refer to GI-39, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

#### 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:0000000006234583

Regarding Wiring Diagram information, refer to DEF-47, "Wiring Diagram".

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# CHECK DOOR MIRROR DEFORGGER FUSE

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

COMPONENT PARTS	AMPERE	FUSE NO.
Fuse block (J/B)	10A	13

#### Is the inspection result normal?

YES >> GO TO 3

NO >> GO TO 2

# 2. CHECK DOOR MIRROR DEFORGGER POWER SUPPLY CIRCUIT FOR A SHORT

- Turn ignition switch OFF.
- Disconnect the following harness connectors. 2.
- Fuse block (J/B) connector M5
- Door mirror LH
- Door mirror RH
- Check continuity between fuse block (J/B) harness connector M5 and ground.

Fuse block (J/B) connector	Terminal	Ground	Continuity
M5	10M	Ground	No

#### Is the inspection result normal?

YES >> Replace fuse 13 (10A).

NO >> Repair or replace harness.

# ${f 3.}$ CHECK DOOR MIRROR DEFORGGER POWER SUPPLY CIRCUIT

- Turn ignition switch ON.
- Check voltage between fuse block (J/B) harness connector M5 and ground.

7	Terminals		0 1111	
(+)			Condition of rear window defogger	Voltage (V)
Fuse block (J/B) connector	Terminal	(-)	switch	(Approx.)
M5	10M	Ground	ON	Battery voltage
WIS	TOIVI	Ground	OFF	0

#### Is the inspection result normal?

YES >> GO TO 4

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

### 4. CHECK DOOR MIRROR DEFOGGER

Check door mirror LH.

Refer to DEF-17, "Component Function Check".

Check door mirror RH.

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

#### Is the inspection result normal?

>> Refer to GI-39, "Intermittent Incident". YES

>> Repair or replace the malfunctioning parts. NO

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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:0000000006234584

# 1. CHECK DOOR MIRROR DEFOGGER LH

Check door mirror defogger LH.

Refer to DEF-17, "Component Function Check".

#### Is the inspection result normal?

YES >> Refer to GI-39, "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. Α Diagnosis Procedure INFOID:0000000006234585 1. CHECK DOOR MIRROR DEFOGGER RH В Check door mirror defogger RH. Refer to DEF-19, "Component Function Check". C Is the inspection result normal? YES >> Refer to GI-39, "Intermittent Incident". NO >> Repair or replace the malfunctioning parts. D Е F Н J K DEF M Ν 0

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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:0000000006234586

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

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

YES >> Refer to GI-39, "Intermittent Incident".

NO >> Refer to <u>DEF-11</u>, "<u>Diagnosis Procedure</u>".

#### **PRECAUTIONS**

#### < PRECAUTION >

# **PRECAUTION**

#### **PRECAUTIONS**

# Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRF-TFNSIONER"

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
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precaution for Work INFOID:0000000006766200

- 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 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, and wring the water out of the cloth to wipe the dirty
  - Then rub with a soft and 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, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and 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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#### **PREPARATION**

#### < PREPARATION >

# **PREPARATION**

# **PREPARATION**

# Special Service Tool

INFOID:0000000006793823

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name		Description
 (J-46534) Trim tool set	AWJIA0483ZZ	Removing trim components

# **Commercial Service Tool**

INFOID:0000000006234590

Tool name		Description
Power tool		Loosening bolts, screws and nuts
	PIIB1407E	

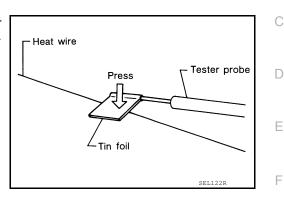
# REMOVAL AND INSTALLATION

# **FILAMENT**

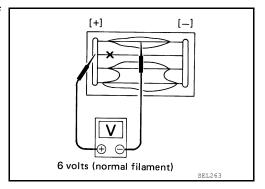
# Inspection and Repair

#### INSPECTION

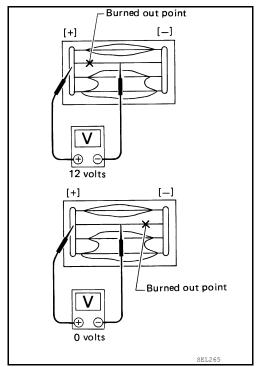
1. When measuring voltage, wrap tin foil around the top of the negative probe. Then press the foil against the wire with your finger.



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



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

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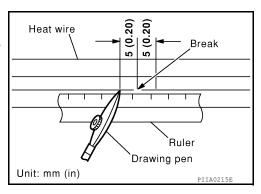
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#### < REMOVAL AND INSTALLATION >

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

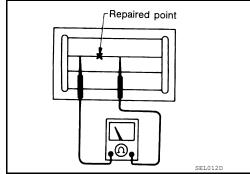
#### REPAIRING PROCEDURE

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



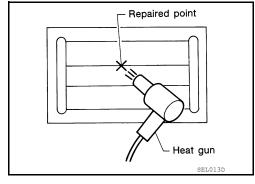
4. After repair has been completed, check repaired wire for continuity. This check should be conducted 10 minutes after silver composition is deposited.

Do not touch repaired area while test is being conducted.



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

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



#### **CONDENSER**

#### < REMOVAL AND INSTALLATION >

# **CONDENSER**

# Removal and Installation

#### INFOID:0000000006234592

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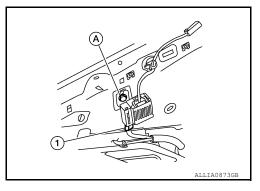
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#### **REMOVAL**

- 1. Remove the rear pillar finisher LH. Refer to <a href="INT-24">INT-24</a>, "Removal and Installation".
- 2. Disconnect the electrical connector, remove bolt (A), and then remove condenser (1) from the vehicle body.



#### **INSTALLATION**

Installation is in the reverse order of removal.

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