# SECTION DEF
# DEFOGGER

## CONTENTS

# PRECAUTION

## PRECAUTIONS

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

INFOID:0000000011277714

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.**

### Handling for Adhesive and Primer

INFOID:0000000011277715

- Do not use an adhesive which is past its usable date. Shelf life of this product is limited to six months after the date of manufacture. Carefully adhere to the expiration or manufacture date printed on the box.
- Keep primers and adhesive in a cool, dry place. Ideally, they should be stored in a refrigerator.
- Open the seal of the primer and adhesive just before application. Discard the remainder.
- Before application, be sure to shake the primer container to stir the contents. If any floating material is found, do not use it.
- If any primer or adhesive contacts the skin, wipe it off with gasoline or equivalent and wash the skin with soap.
- When using primer and adhesive, always observe the precautions in the instruction manual.

### Precaution for Work

INFOID:0000000011377301

- 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.

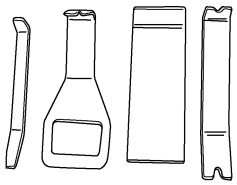
# PREPARATION

## PREPARATION

### Special Service Tools

INFOID:0000000011377300

The actual shape of the tools may differ from those illustrated here.

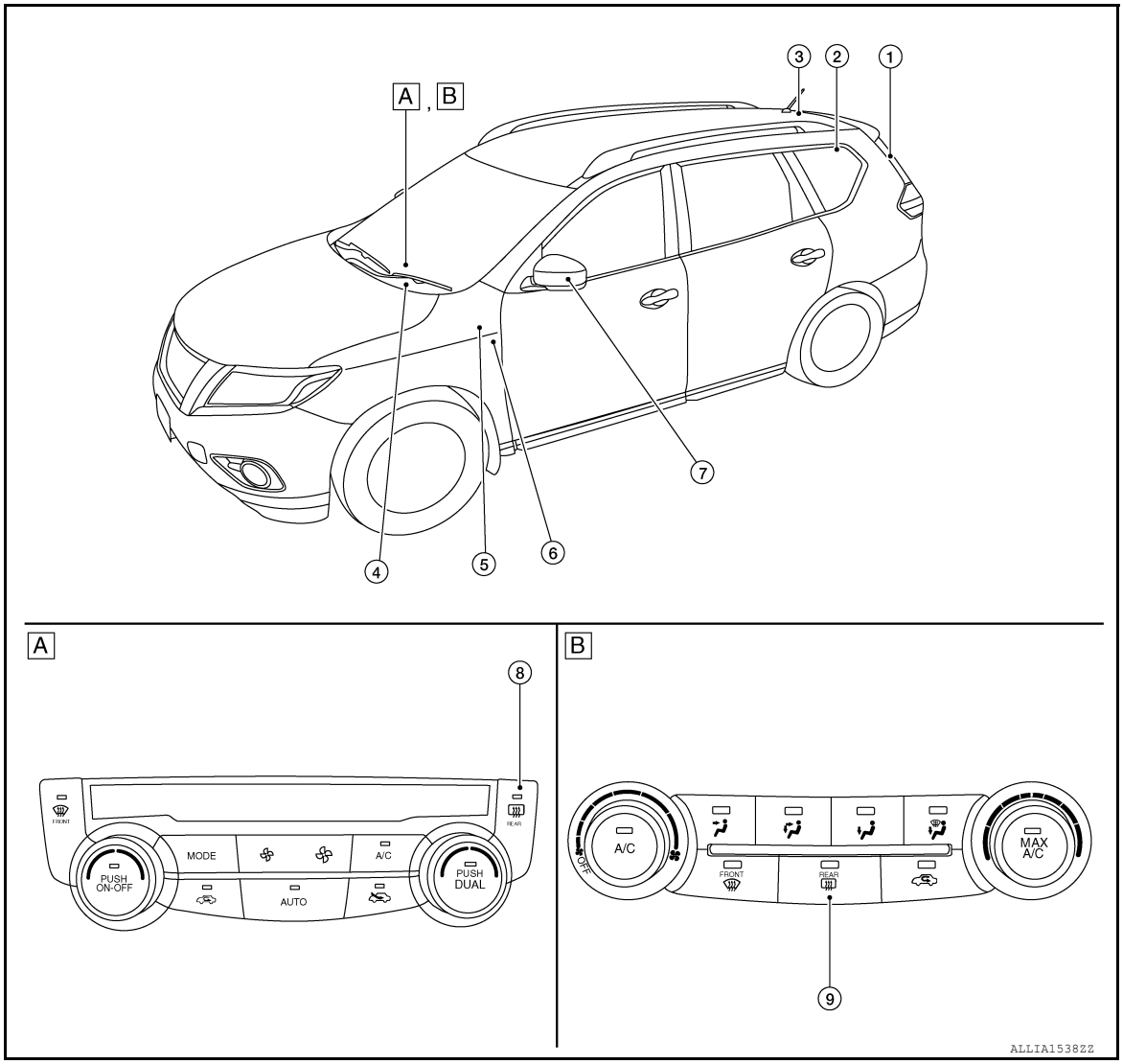
| Tool number<br>(TechMate No.)<br>Tool name | Description |
|---|---|
| —<br>(J-46534)<br>Trim Tool Set<br>  <br>AWJIA0483ZZ | Removing trim components |

# SYSTEM DESCRIPTION

## COMPONENT PARTS

### Component Parts Location

INFOID:0000000011277716




A. A/C switch (auto A/C) B. Front air control (manual A/C)

| No. | Component | Description |
|---|---|---|
| 1. | Rear window defogger connector (Rear window defogger) | Refer to DEF-7, "Rear window defogger". |
| 2. | | |
| 3. | Rear window defogger condenser | Removes the noise that is generated when rear window defogger turns ON/OFF. |
| 4. | A/C auto amp.[1] | • Displays the rear window defogger ON to the display when detecting the operation of the rear window defogger. |
| 5. | BCM | • Operates the rear window defogger with the operation of rear window defogger switch.<br>• Performs the timer control of rear window defogger. |
| 6. | Rear window defogger relay | • Operates the rear window defogger and the door mirror defogger with the control signal from BCM. |

| No. | Component | Description |
|---|---|---|
| 7. | Door mirror defogger[3] | Refer to DEF-7, "Door mirror defogger". |
| 8. | A/C switch[1] (rear window defogger switch) | • The rear window defogger switch is turned ON.<br>• Turns the indicator lamp ON when detecting the operation of rear window defogger. |
| 9. | Front air control[2] (rear window defogger switch) | • The rear window defogger switch is turned ON.<br>• Turns the indicator lamp ON when detecting the operation of rear window defogger. |

1: With auto A/C

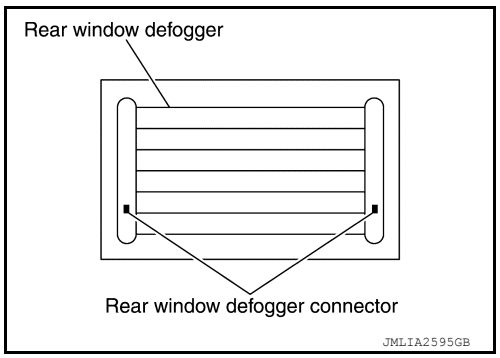
2: With manual A/C

3: With heated mirrors

## Rear window defogger

INFOID:0000000011277717

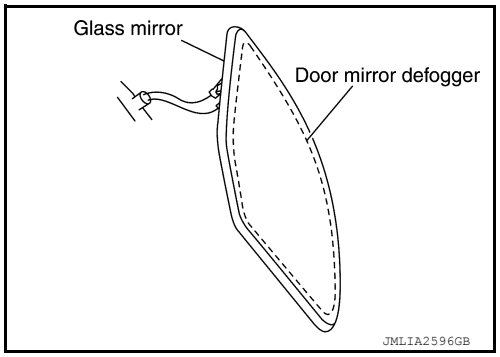
Heats the heating wire with the power supply from the rear window defogger relay to prevent the rear window from fogging up.




## Door mirror defogger

INFOID:0000000011277718

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

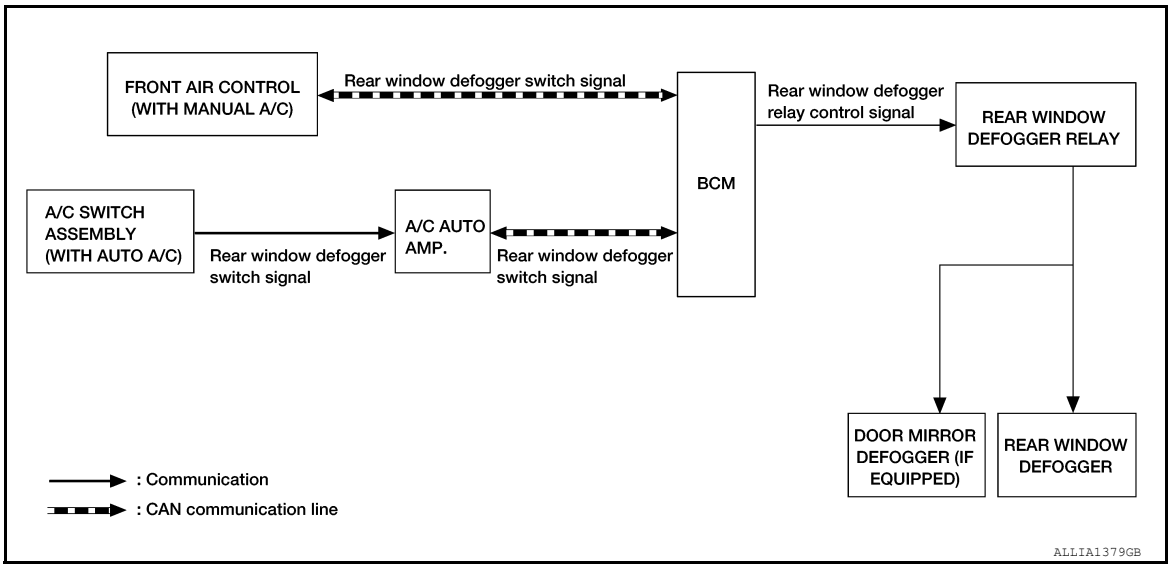


# SYSTEM

## System Description

INFOID:0000000011277719

### SYSTEM DIAGRAM




### OPERATION DESCRIPTION

- When rear window defogger switch is turned ON while ignition switch is ON, the 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.
- Rear window defogger ON is displayed when front air control (manual A/C) or A/C switch (auto A/C) 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 mirror defogger* control | Rear window defogger<br>Door mirror defogger * |

*: With door mirror defogger

# DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM)
# COMMON ITEM

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

INFOID:0000000011375876

### APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

| Direct Diagnostic Mode | Description |
|---|---|
| Ecu Identification | The BCM part number is displayed. |
| Self Diagnostic Result | The BCM self diagnostic results are displayed. |
| Data Monitor | The BCM input/output data is displayed in real time. |
| Active Test | The BCM activates outputs to test components. |
| Work support | The settings for BCM functions can be changed. |
| Configuration | • The vehicle specification can be read and saved.<br>• 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.

| System | Sub System | Direct Diagnostic Mode | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 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 | | | × | × | | | |
| Back door open | TRUNK | | | × | | | | |
| Vehicle security system | THEFT ALM | | | × | × | × | | |
| RAP system | RETAINED PWR | | | × | | | | |
| Signal buffer system | SIGNAL BUFFER | | | × | | | | |
| Air conditioner | AIR CONDITIONER | | | | × | | | |

# REAR DEFOGGER

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

INFOID:0000000011375875

## DATA MONITOR

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

## ACTIVE TEST

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

## WORK SUPPORT

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

* : Initial setting

# DIAGNOSIS SYSTEM (BCM) (WITHOUT INTELLIGENT KEY SYSTEM) COMMON ITEM

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

INFOID:0000000011375877

### APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

| Direct Diagnostic Mode | Description |
|---|---|
| Ecu Identification | The BCM part number is displayed. |
| Self Diagnostic Result | The BCM self diagnostic results are displayed. |
| Data Monitor | The BCM input/output data is displayed in real time. |
| Active Test | The BCM activates outputs to test components. |
| Work support | The settings for BCM functions can be changed. |
| Configuration | • The vehicle specification can be read and saved.<br>• 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.

| System | Sub System | Direct Diagnostic Mode | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 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 | | | × | × | × | | |
| Remote keyless entry system | MULTI REMOTE ENT | | | | | × | | |
| Exterior lamp | HEADLAMP | | | × | × | | | |
| Wiper and washer | WIPER | | | × | × | × | | |
| Turn signal and hazard warning lamps | FLASHER | | | × | × | | | |
| Combination switch | COMB SW | | | × | | | | |
| BCM | BCM | × | × | | | × | × | × |
| Immobilizer | IMMU | | × | | × | | | |
| Interior room lamp battery saver | BATTERY SAVER | | | × | × | | | |
| Back door open | TRUNK | | | × | | | | |
| Vehicle security system | THEFT ALM | | | × | × | × | | |
| RAP system | RETAINED PWR | | | × | | | | |
| TPMS | AIR PRESSURE MONITOR | | × | × | × | × | | |

# REAR DEFOGGER

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

INFOID:0000000011375878

### DATA MONITOR

| Monitor Item [Unit] | Description |
|---|---|
| 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 |
|---|---|---|
| SET R-DEF TIMER | MODE3 | Rear defogger turns OFF after 1 minute. |
| | MODE2 | Rear defogger remains ON until turned OFF. |
| | MODE1* | Rear defogger turns OFF after 15 minutes. |

* : Initial setting

# ECU DIAGNOSIS INFORMATION

## BCM (BODY CONTROL MODULE)

### List of ECU Reference

INFOID:0000000011277724

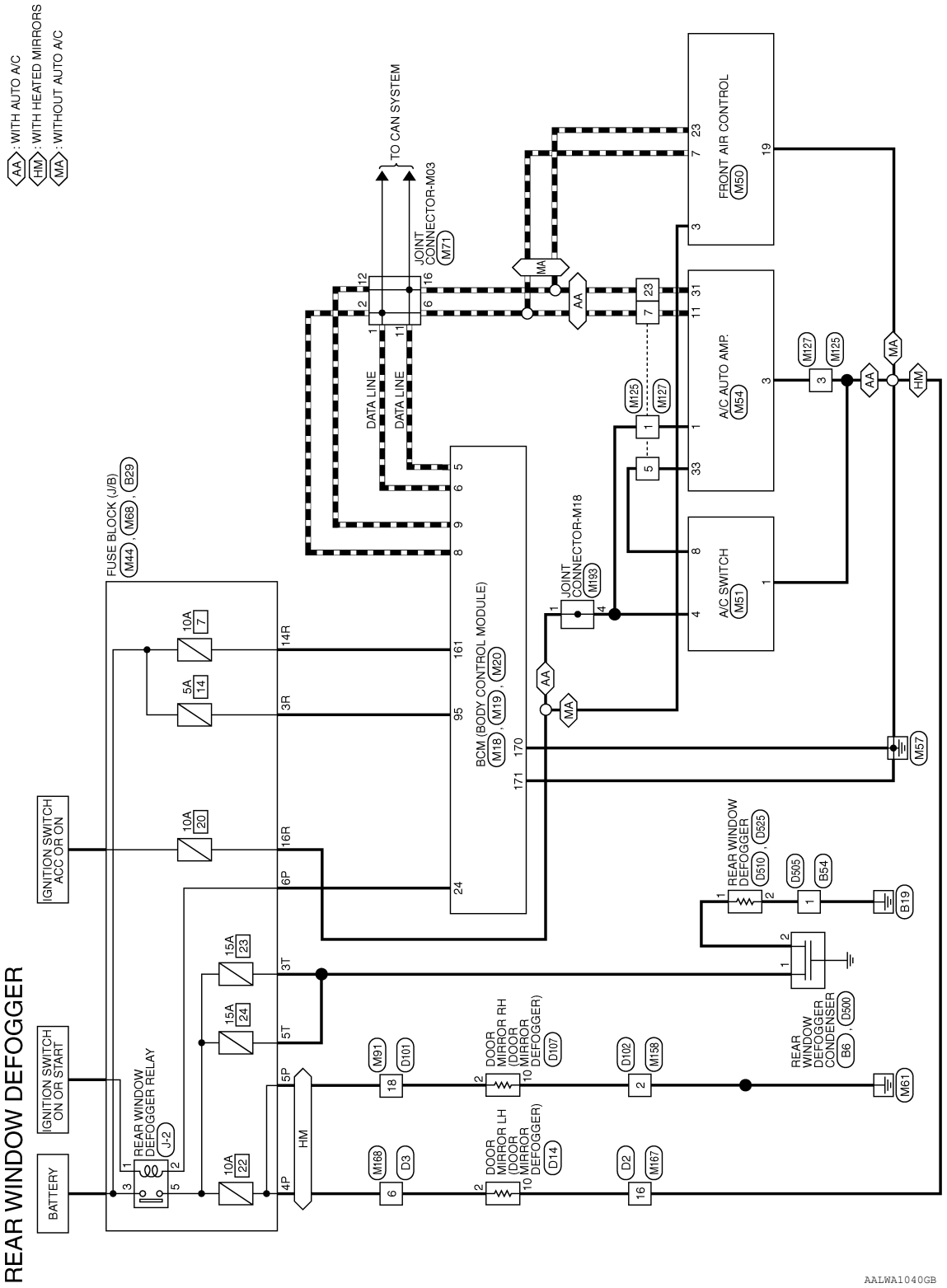
| ECU | Reference |
|---|---|
| BCM (with Intelligent Key system) | BCS-28, "Reference Value" |
| | BCS-46, "Fail Safe" |
| | BCS-46, "DTC Inspection Priority Chart" |
| | BCS-47, "DTC Index" |
| BCM (without Intelligent Key system) | BCS-96, "Reference Value" |
| | BCS-107, "Fail Safe" |
| | BCS-107, "DTC Inspection Priority Chart" |
| | BCS-108, "DTC Index" |

# WIRING DIAGRAM

## REAR WINDOW DEFOGGER SYSTEM

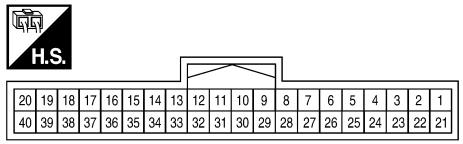
### Wiring Diagram

INFOID:0000000011277725



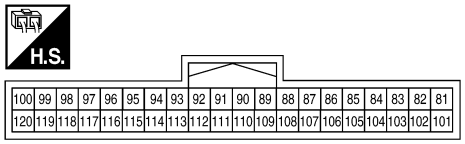
## REAR WINDOW DEFOGGER CONNECTORS

| Connector No. | M18 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | GRAY |



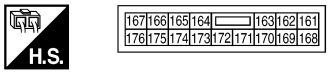

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 5 | R | CAN-L |
| 6 | L | CAN-H |
| 8 | L | CAN-H |
| 9 | R | CAN-L |
| 24 | LA/R | O DEFROSTER RL D |

| Connector No. | M19 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | BLACK |



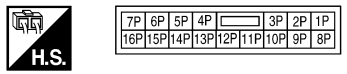

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 95 | V | I SHORTING PIN |

| Connector No. | M20 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | BROWN |



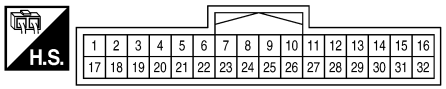

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 161 | W | I PWR ECU |
| 170 | B | I GND1 |
| 171 | B | I GND2 |

| Connector No. | M44 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |



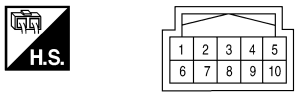

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 4P | LG | – |
| 5P | GR | – |
| 6P | LA/R | – |

| Connector No. | M50 |
|---|---|
| Connector Name | FRONT AIR CONTROL |
| Connector Color | WHITE |




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 3 | SB | IGN TEMPO |
| 7 | L | CAN-H |
| 19 | B | GND |
| 23 | R | CAN-L |

| Connector No. | M51 |
|---|---|
| Connector Name | A/C SWITCH |
| Connector Color | BLACK |




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | – |
| 4 | GR | – |
| 8 | LG | – |

AALIA2107GB

| Connector No. | M54 |
|---|---|
| Connector Name | A/C AUTO AMP. |
| Connector Color | BLACK |

H.S.

| 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 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | SB | AUTO ACC |
| 3 | B | GND |
| 11 | L | CAN-H |
| 31 | R | CAN-L |
| 33 | LG | LIN SW AMP |

| Connector No. | M68 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | BROWN |

H.S.

| 7R | 6R | 5R | 4R | | 3R | 2R | 1R |
|---|---|---|---|---|---|---|---|
| 16R | 15R | 14R | 13R | 12R | 11R | 10R | 9R | 8R |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 3R | V | – |
| 14R | W | – |
| 16R | GR | – |

| Connector No. | M71 |
|---|---|
| Connector Name | JOINT CONNECTOR-M03 |
| Connector Color | BLUE |

H.S.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 2 | 1 |
| 9 | 8 | 7 | 6 | 5 | 4 | 3 | | | |
| 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | L | – |
| 2 | L | – |
| 6 | L | – |
| 11 | R | – |
| 12 | R | – |
| 16 | R | – |

| Connector No. | M91 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |

H.S.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 18 | GR | – |

| Connector No. | M125 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |

H.S.

| 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 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | SB | – |
| 3 | B | – |
| 5 | LG | – |
| 7 | L | – |
| 23 | R | – |

| Connector No. | M127 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |

H.S.

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | 3 | 2 | 1 | |
| 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | | | | | | | |
| 32 | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | | | | |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | SB | – |
| 3 | B | – |
| 5 | LG | – |
| 7 | L | – |
| 23 | R | – |

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| Connector No. | M168 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |

H.S.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 6 | LG | – |

| Connector No. | M167 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |

H.S.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 16 | B | – |

| Connector No. | M158 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |

H.S.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 2 | GR | – |

| Connector No. | B29 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |

H.S.

| 2T | | 1T |
|---|---|---|
| 6T | 5T | 4T | 3T |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 3T | G | – |
| 5T | G | – |

| Connector No. | B6 |
|---|---|
| Connector Name | REAR WINDOW DEFOGGER CONDENSER |
| Connector Color | BLACK |

H.S.

| 1 |
|---|

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | G | – |

| Connector No. | M193 |
|---|---|
| Connector Name | JOINT CONNECTOR-M18 |
| Connector Color | WHITE |

H.S.

| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|---|---|---|---|---|---|---|---|

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | GR | – |
| 4 | GR | – |

AALIA2948GB

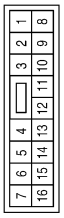
| Connector No. | B54 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |

H.S.

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | – |

| Connector No. | D2 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |

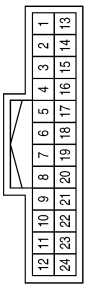
H.S.



| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 16 | B | – |

| Connector No. | D3 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |

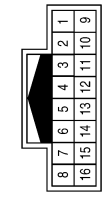
H.S.



| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 6 | LG | – |

| Connector No. | D14 |
|---|---|
| Connector Name | DOOR MIRROR LH |
| Connector Color | WHITE |

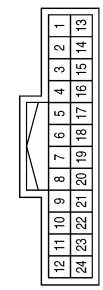
H.S.



| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 2 | LG | – |
| 10 | B | – |

| Connector No. | D101 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |

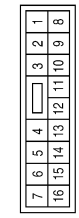
H.S.



| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 18 | GR | – |

| Connector No. | D102 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |

H.S.



| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 2 | LA/G | – |

AALIA2110GB

| Connector No. | D505 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |

H.S.

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | – |

| Connector No. | D500 |
|---|---|
| Connector Name | REAR WINDOW DEFOGGER CONDENSER |
| Connector Color | BLACK |

H.S.

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 2 | G | – |

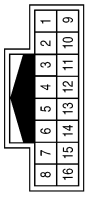
| Connector No. | D525 |
|---|---|
| Connector Name | REAR WINDOW DEFOGGER |
| Connector Color | BLACK |

H.S.

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 2 | B | – |

| Connector No. | D107 |
|---|---|
| Connector Name | DOOR MIRROR RH |
| Connector Color | WHITE |

H.S.



| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 2 | GR | – |
| 10 | LA/G | – |

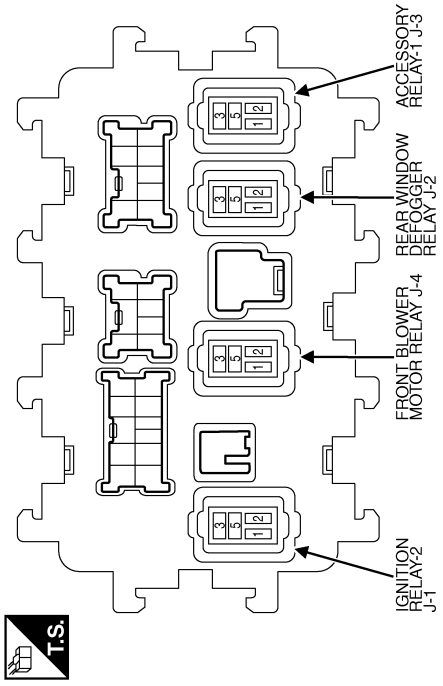
| Connector No. | D510 |
|---|---|
| Connector Name | REAR WINDOW DEFOGGER |
| Connector Color | BLACK |

H.S.

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | G | – |

AALIA2111GB

| Connector No. | J-2 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) (REAR WINDOW DEFOGGER RELAY) |
| Connector Color | – |




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | – | – |
| 2 | – | – |
| 3 | – | – |
| 5 | – | – |

AALIA2238GB

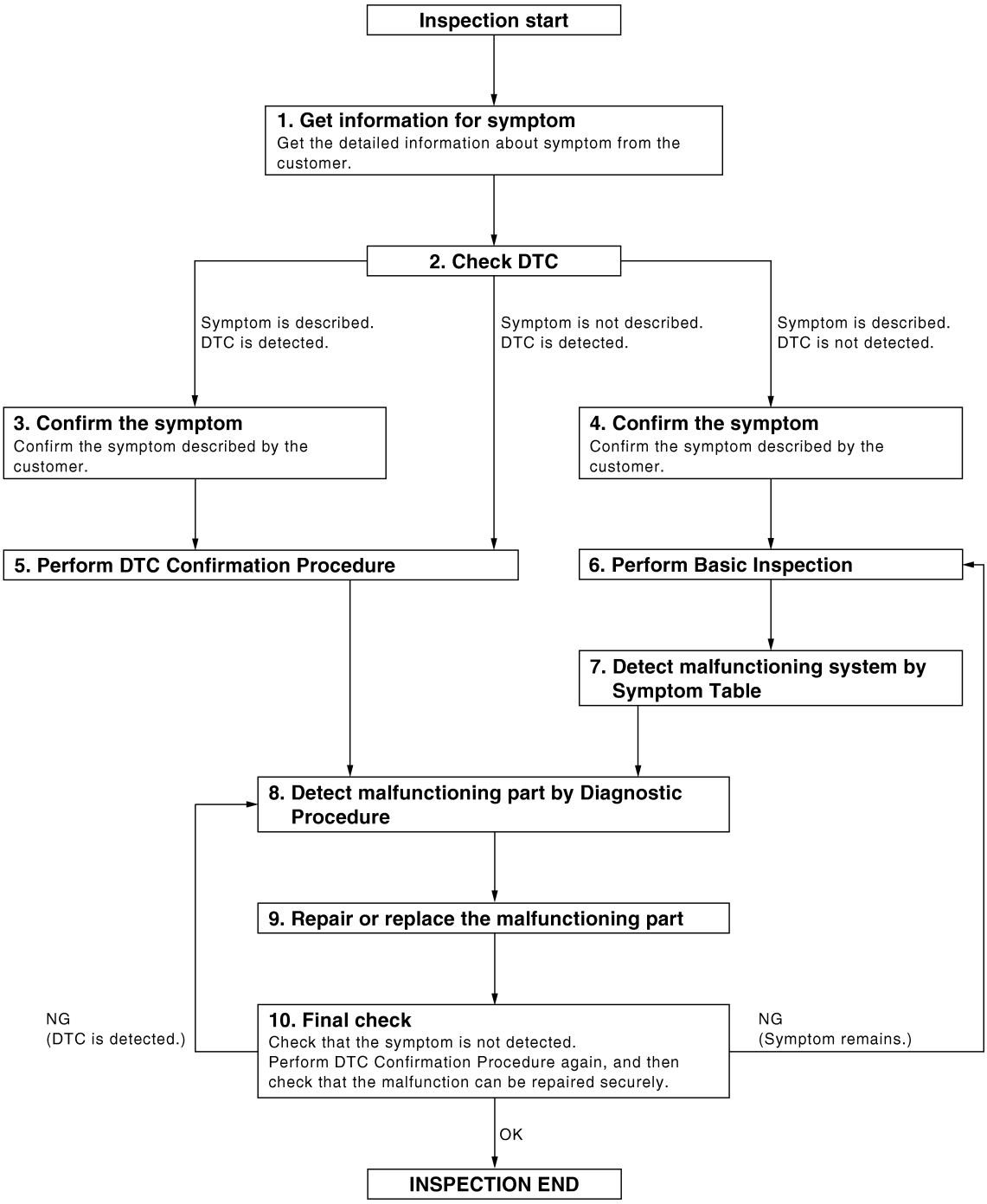
# BASIC INSPECTION

## DIAGNOSIS AND REPAIR WORKFLOW

### Work Flow

INFOID:0000000011277726

#### OVERALL SEQUENCE




JMKIA0101GB

#### DETAILED FLOW

## 1. GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

## 2. CHECK DTC

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

Is any symptom described and any DTC detected?

Symptom is described, DTC is displayed>>GO TO 3.
Symptom is described, DTC is not displayed>>GO TO 4.
Symptom is not described, DTC is displayed>>GO TO 5.

## 3. CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.
Connect CONSULT to the vehicle in “Data Monitor” mode and check real time diagnosis results.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

## 4. CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.
Connect CONSULT to the vehicle in “Data Monitor” mode and check real time diagnosis results.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6.

## 5. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again.
At this time, always connect CONSULT to the vehicle, and check diagnostic results in real time.
If two or more DTCs are detected, refer to BCS-46, "DTC Inspection Priority Chart" (with Intelligent Key system) or BCS-107, "DTC Inspection Priority Chart" (without Intelligent Key system) 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 8.
NO >> Refer to GI-44, "Intermittent Incident".

## 6. PERFORM BASIC INSPECTION

Perform DEF-21, "Work Flow".

>> GO TO 7.

## 7. DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

Detect malfunctioning system according to DEF-8, "System Description" based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

>> GO TO 8.

## 8. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

**NOTE:**

The Diagnostic Procedure described 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 9.
NO >> Check voltage of related BCM terminals using CONSULT.

## 9. REPAIR OR REPLACE THE MALFUNCTIONING PART

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

>> GO TO 10.

## 10. FINAL CHECK

When DTC was detected in step 2, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunction have 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 8.
YES (Symptom remains)>>GO TO 6.
NO >> Inspection End.

# DTC/CIRCUIT DIAGNOSIS

## REAR WINDOW DEFOGGER SWITCH

## WITH MANUAL A/C

### WITH MANUAL A/C : Description

INFOID:0000000011277727

- The rear window defogger is operated by pressing the rear window defogger switch ON.
- The indicator lamp in the rear window defogger switch illuminates while the rear window defogger is ON.

### WITH MANUAL A/C : Component Function Check

INFOID:0000000011277728

#### 1. CHECK REAR WINDOW DEFOGGER SWITCH FUNCTION

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

Is the inspection result normal?

YES >> Rear window defogger switch function is OK.
NO >> Refer to DEF-24, "WITH MANUAL A/C : Diagnosis Procedure".

### WITH MANUAL A/C : Diagnosis Procedure

INFOID:0000000011277729

Regarding Wiring Diagram information, refer to DEF-14, "Wiring Diagram".

#### 1.CHECK REAR WINDOW DEFOGGER SWITCH OPERATION

With CONSULT
1. Select “REAR DEFOGGER” of “BCM”.
2. Select “REAR DEF SW” in “Data Monitor”.
3. Check “REAR DEF SW” indication under the following conditions.

| Monitor item | Condition | | Status |
|---|---|---|---|
| REAR DEF SW | Rear window defogger switch | Pressed | On |
| | | Not Pressed | Off |

Is the inspection result normal?

YES >> Rear window defogger switch is OK.
NO >> Replace front air control. Refer to HAC-182, "Removal and Installation".

## WITH AUTO A/C

### WITH AUTO A/C : Description

INFOID:0000000011277730

- The rear window defogger is operated by pressing the rear window defogger switch ON.
- The indicator lamp in the rear window defogger switch illuminates while the rear window defogger is ON.

### WITH AUTO A/C : Component Function Check

INFOID:0000000011277731

#### 1. CHECK REAR WINDOW DEFOGGER SWITCH FUNCTION

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

Is the inspection result normal?

YES >> Rear window defogger switch function is OK.
NO >> Refer to DEF-24, "WITH MANUAL A/C : Diagnosis Procedure".

### WITH AUTO A/C : Diagnosis Procedure

INFOID:0000000011277732

Regarding Wiring Diagram information, refer to DEF-14, "Wiring Diagram".

## 1. CHECK REAR WINDOW DEFOGGER SWITCH OPERATION

With CONSULT
1. Select “REAR DEFOGGER” of “BCM”.
2. Select “REAR DEF SW” in “Data Monitor”.
3. Check “REAR DEF SW” indication under the following conditions.

| Monitor item | Condition | | Status |
|---|---|---|---|
| REAR DEF SW | Rear window defogger switch | Pressed | On |
| | | Not Pressed | Off |

Is the inspection result normal?

YES >> Rear window defogger switch is OK.
NO >> Replace A/C switch. Refer to HAC-102, "Removal and Installation".

# REAR WINDOW DEFOGGER RELAY

## Description

INFOID:0000000011277733

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

## Component Function Check

INFOID:0000000011277734

### 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 DEF-26, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000011277735

Regarding Wiring Diagram information, refer to DEF-14, "Wiring Diagram".

### 1. CHECK REAR WINDOW DEFOGGER RELAY GROUND CIRCUIT

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

| (+) | | (–) | Condition | | Voltage (V) (Approx.) |
|---|---|---|---|---|---|
| BCM | | | | | |
| Connector | Terminal | | | | |
| M18 | 24 | Ground | Rear window defogger switch | ON | 0 |
| | | | | OFF | Battery voltage |

Is the inspection result normal?

YES >> Rear window defogger power supply circuit is OK.
NO >> GO TO 2.

### 2. CHECK HARNESS CONTINUITY

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

| BCM | | Fuse block (J/B) | | Continuity |
|---|---|---|---|---|
| Connector | Terminal | Connector | Terminal | |
| M18 | 24 | M44 | 6P | Yes |

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness.

### 3. CHECK REAR WINDOW DEFOGGER RELAY

Check rear window defogger relay.
Refer to DEF-27, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-44, "Intermittent Incident".
NO >> Replace rear window defogger relay.

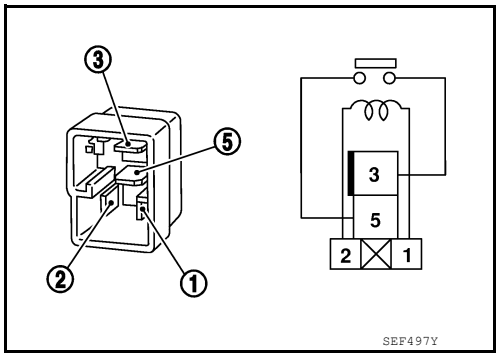
## Component Inspection

INFOID:0000000011277736

### 1. CHECK REAR WINDOW DEFOGGER RELAY

Check rear window defogger relay.

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




Is the inspection result normal?

YES >> Inspection End.
NO >> Replace rear window defogger relay.

# REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

## Description

INFOID:0000000011277737

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

## Component Function Check

INFOID:0000000011277738

### 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 DEF-28, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000011277739

Regarding Wiring Diagram information, refer to DEF-14, "Wiring Diagram".

### 1. CHECK FUSES

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

| COMPONENT PARTS | AMPERE | FUSE NO. |
|---|---|---|
| Fuse block (J/B) | 15A | 23 |
| | 15A | 24 |

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace the blown fuse after repairing the affected circuit.

### 2. CHECK REAR WINDOW DEFOGGER POWER SUPPLY CIRCUIT

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

| (+) | | (–) | Condition | | Voltage (V) (Approx.) |
|---|---|---|---|---|---|
| Fuse block (J/B) | | | | | |
| Connector | Terminal | | | | |
| B29 | 3T, 5T | Ground | Rear window defogger switch | ON | Battery voltage |
| | | | | OFF | 0 |

Is the inspection result normal?

YES >> GO TO 3.
NO >> Perform rear window defogger relay diagnosis. Refer to DEF-26, "Diagnosis Procedure".

### 3. CHECK POWER SUPPLY CIRCUIT

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

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> GO TO 5.

## 4. CHECK GROUND CIRCUIT

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

| Rear window defogger | | Ground | Continuity |
|---|---|---|---|
| Connector | Terminal | | |
| D525 | 2 | | Yes |

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace harness.

## 5. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect fuse block (J/B).
3. Check continuity between fuse block (J/B) connector and rear window defogger condenser connector.

| Fuse block (J/B) | | Rear window defogger condenser | | Continuity |
|---|---|---|---|---|
| Connector | Terminal | Connector | Terminal | |
| B29 | 3T | B6 | 1 | Yes |
| | 5T | | | |

Is the inspection result normal?

YES >> Replace rear window defogger condenser. Refer to DEF-43, "Removal and Installation".
NO >> Replace or repair harness.

## 6. CHECK FILAMENT

Check filament.
Refer to DEF-29, "Component Inspection".

Is the inspection result normal?

YES >> Refer to GI-44, "Intermittent Incident".
NO >> Repair filament. Refer to DEF-41, "Inspection and Repair".

# Component Inspection

INFOID:0000000011277740

## 1. CHECK FILAMENT

Check the filament for damage or open circuits.
Refer to DEF-41, "Inspection and Repair".

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair filament. Refer to DEF-41, "Inspection and Repair".

# DRIVER SIDE DOOR MIRROR DEFOGGER

## Description

INFOID:0000000011277741

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

## Component Function Check

INFOID:0000000011277742

### 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 DEF-30, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000011277743

Regarding Wiring Diagram information, refer to DEF-14, "Wiring Diagram".

### 1. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect door mirror LH.
3. Turn ignition switch ON.
4. Check voltage between door mirror LH connector and ground.

| (+) | | (–) | Condition | | Voltage (V) (Approx.) |
|---|---|---|---|---|---|
| Door mirror LH | | | | | |
| Connector | Terminal | | | | |
| D14 | 2 | Ground | Rear window defogger switch | ON | Battery voltage |
| | | | | OFF | 0 |

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

### 2. CHECK GROUND CIRCUIT

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

| Door mirror LH | | Ground | Continuity |
|---|---|---|---|
| Connector | Terminal | | |
| D14 | 10 | | 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-31, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace door mirror. Refer to MIR-22, "Removal and Installation".

## 4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-44, "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:0000000011277744

## 1. CHECK DOOR MIRROR DEFOGGER LH

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

| Terminal | | Continuity |
|---|---|---|
| 2 | 10 | Yes |

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace door mirror LH. Refer to MIR-22, "Removal and Installation".

# PASSENGER SIDE DOOR MIRROR DEFOGGER

## Description

INFOID:0000000011277745

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

## Component Function Check

INFOID:0000000011277746

### 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?

YES >> Door mirror defogger RH is OK.
NO >> Refer to DEF-32, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000011277747

Regarding Wiring Diagram information, refer to DEF-14, "Wiring Diagram".

### 1. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect door mirror RH.
3. Turn ignition switch ON.
4. Check voltage between door mirror RH connector and ground.

| (+) | | (–) | Condition | | Voltage (V) (Approx.) |
|---|---|---|---|---|---|
| Door mirror RH | | | | | |
| Connector | Terminal | | | | |
| D107 | 2 | Ground | Rear window defogger switch | ON | Battery voltage |
| | | | | OFF | 0 |

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

### 2. CHECK GROUND CIRCUIT

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

| Door mirror RH | | Ground | Continuity |
|---|---|---|---|
| Connector | Terminal | | |
| D107 | 10 | | Yes |

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness.

### 3. CHECK PASSENGER SIDE DOOR MIRROR DEFOGGER

Check door mirror defogger RH.
Refer to DEF-33, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace door mirror RH. Refer to MIR-22, "Removal and Installation".

## 4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-44, "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:0000000011277748

## 1. CHECK DOOR MIRROR DEFOGGER RH

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

| Terminal | | Continuity |
|---|---|---|
| 2 | 10 | Yes |

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace door mirror RH. Refer to MIR-22, "Removal and Installation".

# SYMPTOM DIAGNOSIS

## DEFOGGER SYSTEM SYMPTOMS

### Symptom Table

INFOID:0000000011277749

| Symptom | Reference page |
|---|---|
| Rear window defoggers and door mirror defoggers* do not operate. | Refer to DEF-35, "Diagnosis Procedure". |
| Rear window defoggers do not operate but both of the door mirror defoggers* operate. | Refer to DEF-36, "Diagnosis Procedure". |
| Both door mirror defoggers* don’t operate but rear window defoggers operate. | Refer to DEF-37, "Diagnosis Procedure". |
| Driver side door mirror defogger* does not operate. | Refer to DEF-38, "Diagnosis Procedure". |
| Passenger side door mirror defogger* does not operate. | Refer to DEF-39, "Diagnosis Procedure". |
| Rear window defogger switch does not light, but rear window defogger operates. | Refer to DEF-40, "Diagnosis Procedure". |

*:if equipped

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

## Diagnosis Procedure

INFOID:0000000011277750

Regarding Wiring Diagram information, refer to DEF-14, "Wiring Diagram".

### 1. CHECK REAR WINDOW DEFOGGER SWITCH

Check rear window defogger switch.
Refer to DEF-24, "WITH MANUAL A/C : 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-26, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

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

Check rear window defogger power supply and ground circuit.
Refer to DEF-28, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

### 4. CHECK DOOR MIRROR DEFOGGER POWER SUPPLY

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

| (+) | | (–) | Condition | | Voltage (V) (Approx.) |
|---|---|---|---|---|---|
| Fuse block (J/B) | | | | | |
| Connector | Terminal | | | | |
| M44 | 4P, 5P | Ground | Rear window defogger switch | ON | Battery voltage |
| | | | | OFF | 0 |

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace fuse block (J/B).

### 5. CHECK BOTH DOOR MIRROR DEFOGGER

1. Check door mirror LH. Refer to DEF-30, "Component Function Check".
2. Check door mirror RH. Refer to DEF-32, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-44, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

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

## Diagnosis Procedure

INFOID:0000000011277751

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

Check rear window defogger power supply and ground circuit.
Refer to DEF-28, "Component Function Check".

Is the inspection result normal?

YES >> Refer to GI-44, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

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

## Diagnosis Procedure

INFOID:0000000011277752

Regarding Wiring Diagram information, refer to DEF-14, "Wiring Diagram".

### 1. CHECK DOOR MIRROR DEFOGGER FUSE

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

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace the blown fuse after repairing the affected circuit.

### 2. CHECK DOOR MIRROR DEFOGGER POWER SUPPLY CIRCUIT

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

| (+) | | (–) | Condition | | Voltage (V) (Approx.) |
|---|---|---|---|---|---|
| Fuse block (J/B) | | | | | |
| Connector | Terminal | | | | |
| M44 | 4P, 5P | Ground | Rear window defogger switch | ON | Battery voltage |
| | | | | OFF | 0 |

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace fuse block (J/B).

### 3. CHECK BOTH DOOR MIRROR DEFOGGER

1. Check door mirror LH. Refer to DEF-30, "Component Function Check".
2. Check door mirror RH. Refer to DEF-32, "Component Function Check".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-44, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

# DRIVER SIDE DOOR MIRROR DEFOGGER DOES NOT OPERATE.

## Diagnosis Procedure

INFOID:0000000011277753

### 1. CHECK DOOR MIRROR DEFOGGER LH

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

Is the inspection result normal?

YES >> Refer to GI-44, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

# PASSENGER SIDE DOOR MIRROR DEFOGGER DOES NOT OPERATE.

## Diagnosis Procedure

INFOID:0000000011277754

### 1. CHECK DOOR MIRROR DEFOGGER RH

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

Is the inspection result normal?

YES >> Refer to GI-44, "Intermittent Incident".
NO >> Repair or replace the malfunctioning parts.

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

## Diagnosis Procedure

INFOID:0000000011277755

### 1. CHECK REAR WINDOW DEFOGGER SWITCH

Check that the rear window defogger switch is operating normally.

Is the inspection result normal?

YES >> Refer to GI-44, "Intermittent Incident".
NO >> Refer to DEF-24, "WITH MANUAL A/C : Diagnosis Procedure" or DEF-24, "WITH AUTO A/C : Diagnosis Procedure".

# REMOVAL AND INSTALLATION

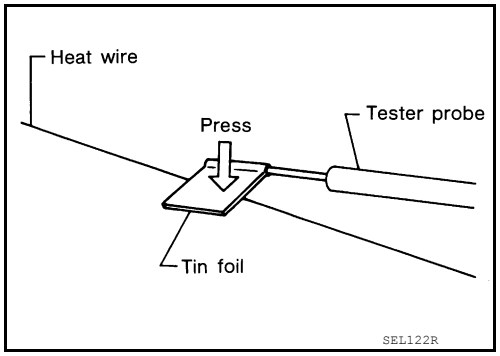
## FILAMENT

### Inspection and Repair

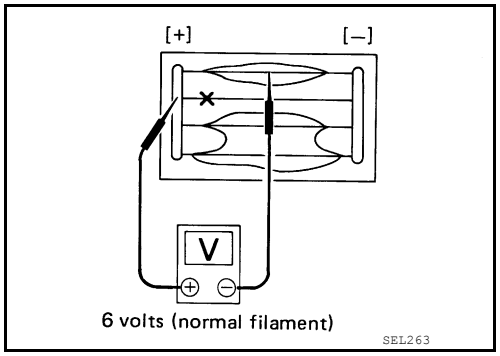
INFOID:0000000011277756

#### INSPECTION

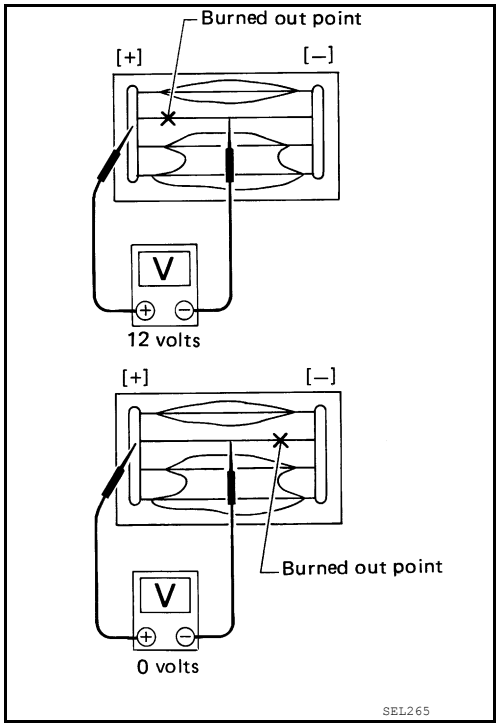
1. When measuring voltage, wrap tin foil around the top of the negative probe. Then press the foil against the wire with your finger.




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




3. If a filament is burned out, circuit tester registers 0 or battery voltage.
4. To locate burned out point, move probe to left and right along filament. Test needle will swing abruptly when probe passes the point.




#### REPAIR

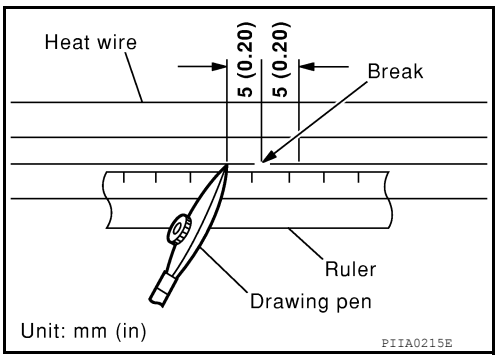
REPAIR EQUIPMENT

- Conductive silver composition (Dupont No. 4817 or equivalent)

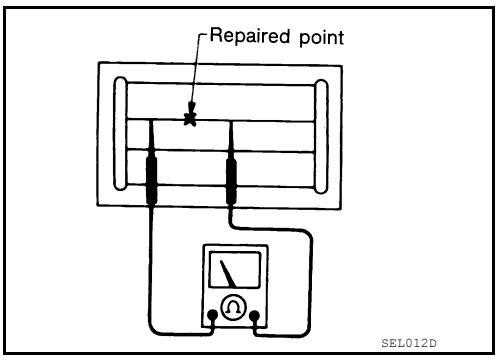
- Ruler 30 cm (11.8 in) long
- Drawing pen
- Heat gun
- Alcohol
- Cloth

REPAIRING PROCEDURE

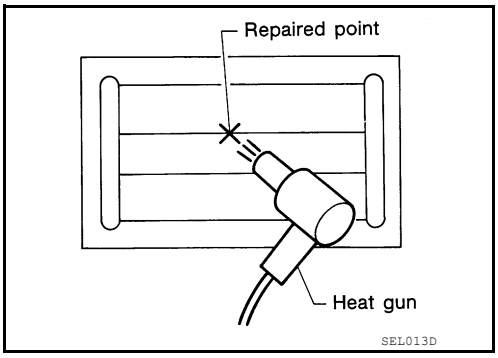
1. Wipe broken heat wire and its surrounding area clean with a cloth dampened in alcohol.
2. Apply a small amount of conductive silver composition to tip of drawing pen.
   Shake silver composition container before use.
3. Place ruler on glass along broken line. Deposit conductive silver composition on break with drawing pen. Slightly overlap existing heat wire on both sides [preferably 5 mm (0.20 in)] of the break.




4. After repair has been completed, check repaired wire for continuity. This check should be conducted 10 minutes after silver composition is deposited.
   Do not touch repaired area while test is being conducted.




5. Apply a constant stream of hot air directly to the repaired area for approximately 20 minutes with a heat gun. A minimum distance of 3 cm (1.2 in) should be kept between repaired area and hot air outlet.
   If a heat gun is not available, let the repaired area dry for 24 hours.



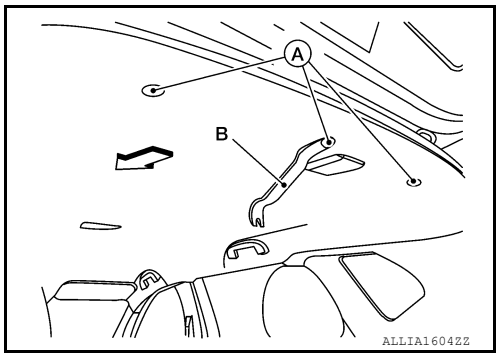
# CONDENSER

## Removal and Installation

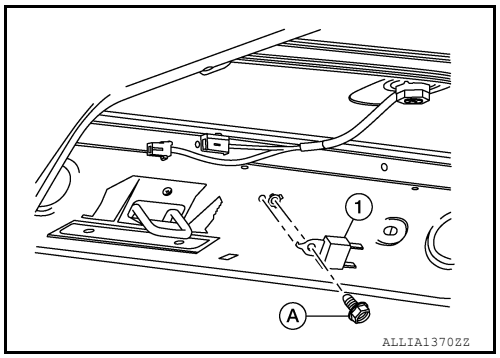
INFOID:0000000011277757

### REMOVAL

1. Remove luggage side upper finisher (LH/RH). Refer to INT-36, "LUGGAGE SIDE UPPER FINISHER : Removal and Installation".
2. Remove headlining clips (A) using suitable tool (B) and partially lower headlining (rear).




3. Disconnect the harness connectors from the condenser.
4. Remove the bolt (A) and the condenser (1).




### INSTALLATION

Installation is in the reverse order of removal.