

SECTION GW

GLASSES, WINDOW SYSTEM & MIRRORS

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PRECAUTIONS

PRECAUTIONS

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Precautions for Supplemental Restraint System (SRS) “AIR BAG” and “SEAT BELT PRE-TENSIONER”

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The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER”, used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SRS 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 SRS 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.

Handling for Adhesive and Primer

EIS007H9

- 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.

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PREPARATION

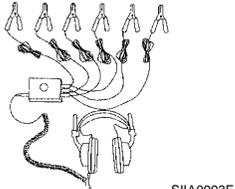
PREPARATION

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Special Service Tool

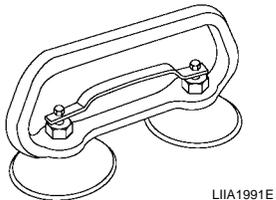
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The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name		Description
— (J-39570) Chassis ear	 <p>SIIA0993E</p>	Locating the noise
— (J-43980) NISSAN Squeak and Rattle Kit	 <p>SIIA0994E</p>	Repairing the cause of noise

Commercial Service Tool

EIS007HC

(Kent-Moore No.) Tool name		Description
(J-39565) Engine ear	 <p>SIIA0995E</p>	Locating the noise
(-) Suction lifter	 <p>LIA1991E</p>	Holding the door glass

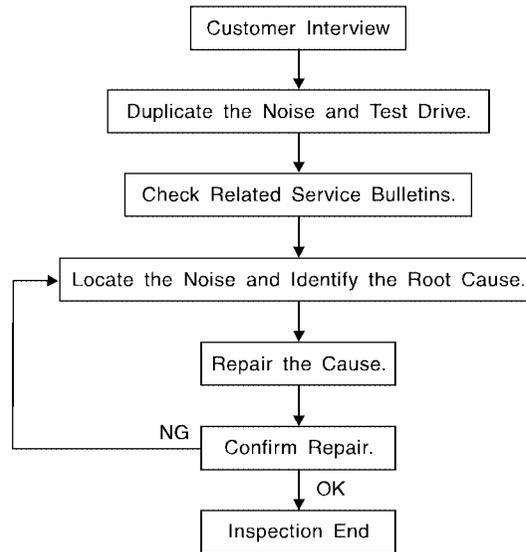
SQUEAK AND RATTLE TROUBLE DIAGNOSES

SQUEAK AND RATTLE TROUBLE DIAGNOSES

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Work Flow

EIS007HD



SBT842

CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any customer's comments; refer to [GW-9, "Diagnostic Worksheet"](#). This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by test driving the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak —(Like tennis shoes on a clean floor)
Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping.
- Creak—(Like walking on an old wooden floor)
Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle—(Like shaking a baby rattle)
Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock —(Like a knock on a door)
Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick—(Like a clock second hand)
Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump—(Heavy, muffled knock noise)
Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz—(Like a bumble bee)
Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending upon the person. A noise that you may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when you confirm the repair.

If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following:

- 1) Close a door.
 - 2) Tap or push/pull around the area where the noise appears to be coming from.
 - 3) Rev the engine.
 - 4) Use a floor jack to recreate vehicle "twist".
 - 5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on A/T model).
 - 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.
- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
 - If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to that concern or symptom.

If a TSB relates to the symptom, follow the procedure to repair the noise.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J-39570, Engine Ear: J-39565 and mechanic's stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:
 - removing the components in the area that you suspect the noise is coming from. Do not use too much force when removing clips and fasteners, otherwise clips and fasteners can be broken or lost during the repair, resulting in the creation of new noise.
 - tapping or pushing/pulling the component that you suspect is causing the noise. Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
 - feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.
 - placing a piece of paper between components that you suspect are causing the noise.
 - looking for loose components and contact marks.
Refer to [GW-7, "Generic Squeak and Rattle Troubleshooting"](#) .

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:
 - separate components by repositioning or loosening and retightening the component, if possible.
 - insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A NISSAN Squeak and Rattle Kit (J-43980) is available through your authorized NISSAN Parts Department.

CAUTION:

Do not use excessive force as many components are constructed of plastic and may be damaged.

Always check with the Parts Department for the latest parts information.

The following materials are contained in the NISSAN Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed.

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

76268-9E005: 100×135 mm (3.94×5.31 in)/76884-71L01: 60×85 mm (2.36×3.35 in)/76884-71L02: 15×25 mm (0.59×0.98 in)

INSULATOR (Foam blocks)

Insulates components from contact. Can be used to fill space behind a panel.

73982-9E000: 45 mm (1.77 in) thick, 50×50 mm (1.97×1.97 in)/73982-50Y00: 10 mm (0.39 in) thick, 50×50 mm (1.97×1.97 in)

INSULATOR (Light foam block)

SQUEAK AND RATTLE TROUBLE DIAGNOSES

80845-71L00: 30 mm (1.18 in) thick, 30×50 mm (1.18×1.97 in)

FELT CLOTH TAPE

Used to insulate where movement does not occur. Ideal for instrument panel applications.

68370-4B000: 15×25 mm (0.59×0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll. The following materials not found in the kit can also be used to repair squeaks and rattles.

UHMW (TEFLON) TAPE

Insulates where slight movement is present. Ideal for instrument panel applications.

SILICONE GREASE

Used instead of UHMW tape that will be visible or not fit.

Note: Will only last a few months.

SILICONE SPRAY

Use when grease cannot be applied.

DUCT TAPE

Use to eliminate movement.

CONFIRM THE REPAIR

Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.

Generic Squeak and Rattle Troubleshooting

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Refer to Table of Contents for specific component removal and installation information.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. The cluster lid A and instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar garnish
4. Instrument panel to windshield
5. Instrument panel mounting pins
6. Wiring harnesses behind the combination meter
7. A/C defroster duct and duct joint

These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicone spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

CAUTION:

Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair.

CENTER CONSOLE

Components to pay attention to include:

1. Shifter assembly cover to finisher
2. A/C control unit and cluster lid C
3. Wiring harnesses behind audio and A/C control unit

The instrument panel repair and isolation procedures also apply to the center console.

DOORS

Pay attention to the:

1. Finisher and inner panel making a slapping noise
2. Inside handle escutcheon to door finisher
3. Wiring harnesses tapping
4. Door striker out of alignment causing a popping noise on starts and stops

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks from the NISSAN Squeak and Rattle Kit (J-43980) to repair the noise.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the owner. In addition look for:

1. Trunk lid bumpers out of adjustment
2. Trunk lid striker out of adjustment
3. The trunk lid torsion bars knocking together
4. A loose license plate or bracket

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINER

Noises in the sunroof/headliner area can often be traced to one of the following:

1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
2. Sun visor shaft shaking in the holder
3. Front or rear windshield touching headliner and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

OVERHEAD CONSOLE (FRONT AND REAR)

Overhead console noises are often caused by the console panel clips not being engaged correctly. Most of these incidents are repaired by pushing up on the console at the clip locations until the clips engage.

In addition look for:

1. Loose harness or harness connectors.
2. Front console map/reading lamp lense loose.
3. Loose screws at console attachment points.

SEATS

When isolating seat noise it's important to note the position the seat is in and the load placed on the seat when the noise is present. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

1. Headrest rods and holder
2. A squeak between the seat pad cushion and frame
3. The rear seatback lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment.

Causes of transmitted underhood noise include:

1. Any component mounted to the engine wall
2. Components that pass through the engine wall
3. Engine wall mounts and connectors
4. Loose radiator mounting pins
5. Hood bumpers out of adjustment
6. Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

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Diagnostic Worksheet

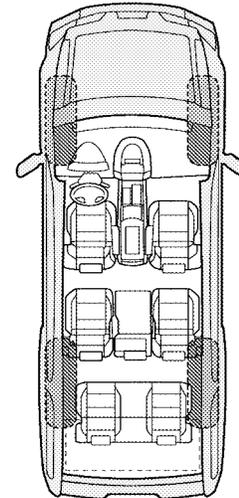
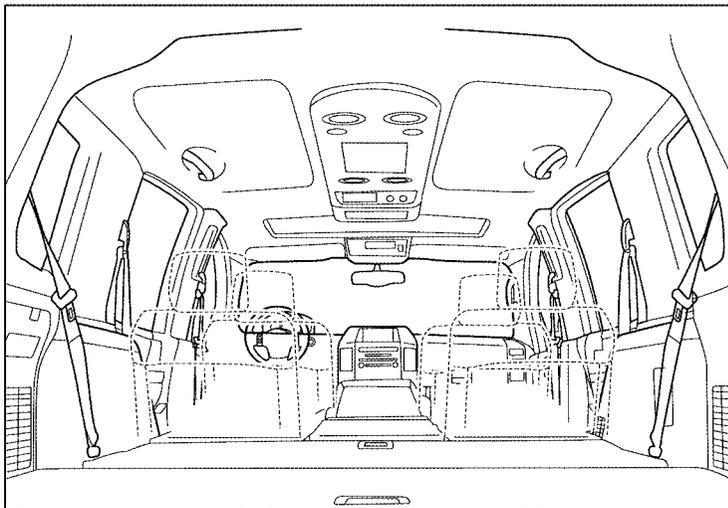
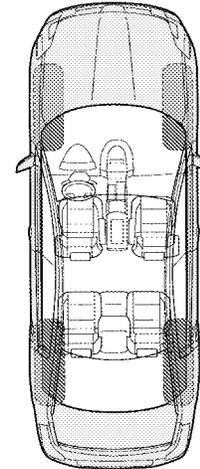
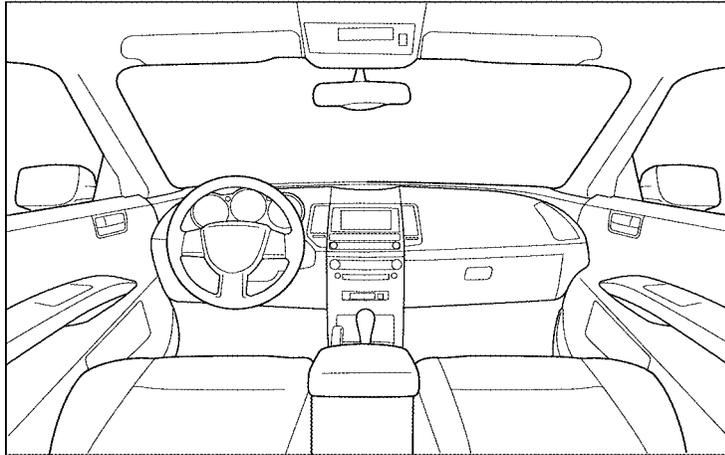
Dear Customer:

We are concerned about your satisfaction with your vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your vehicle right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service advisor or technician to ensure we confirm the noise you are hearing.

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

II. WHEN DOES IT OCCUR? (please check the boxes that apply)

- | | |
|---|--|
| <input type="checkbox"/> Anytime | <input type="checkbox"/> After sitting out in the rain |
| <input type="checkbox"/> 1st time in the morning | <input type="checkbox"/> When it is raining or wet |
| <input type="checkbox"/> Only when it is cold outside | <input type="checkbox"/> Dry or dusty conditions |
| <input type="checkbox"/> Only when it is hot outside | <input type="checkbox"/> Other: |

III. WHEN DRIVING:

- Through driveways
- Over rough roads
- Over speed bumps
- Only about ____ mph
- On acceleration
- Coming to a stop
- On turns: left, right or either (circle)
- With passengers or cargo
- Other: _____
- After driving ____ miles or ____ minutes

IV. WHAT TYPE OF NOISE

- Squeak (like tennis shoes on a clean floor)
- Creak (like walking on an old wooden floor)
- Rattle (like shaking a baby rattle)
- Knock (like a knock at the door)
- Tick (like a clock second hand)
- Thump (heavy muffled knock noise)
- Buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

	YES	NO	Initials of person performing
Vehicle test driven with customer	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Noise verified on test drive	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Noise source located and repaired	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Follow up test drive performed to confirm repair	<input type="checkbox"/>	<input type="checkbox"/>	_____

VIN: _____ Customer Name _____

W.O.# _____ Date: _____

This form must be attached to Work Order

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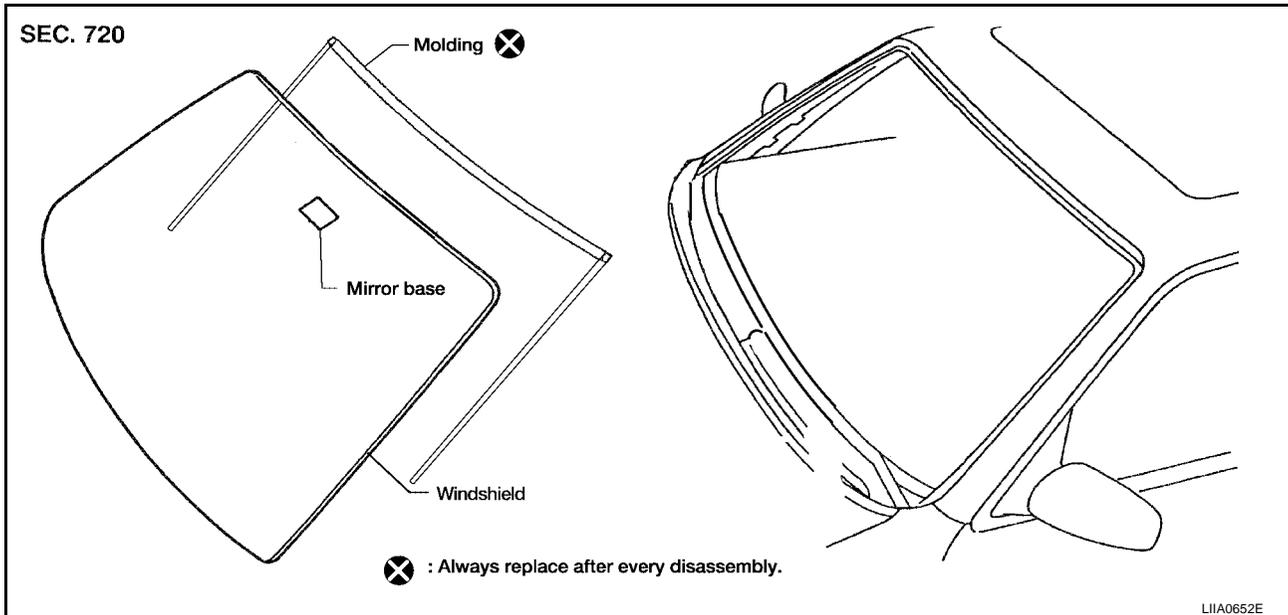
WINDSHIELD GLASS

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WINDSHIELD GLASS

Removal and Installation

EIS007HG



REMOVAL

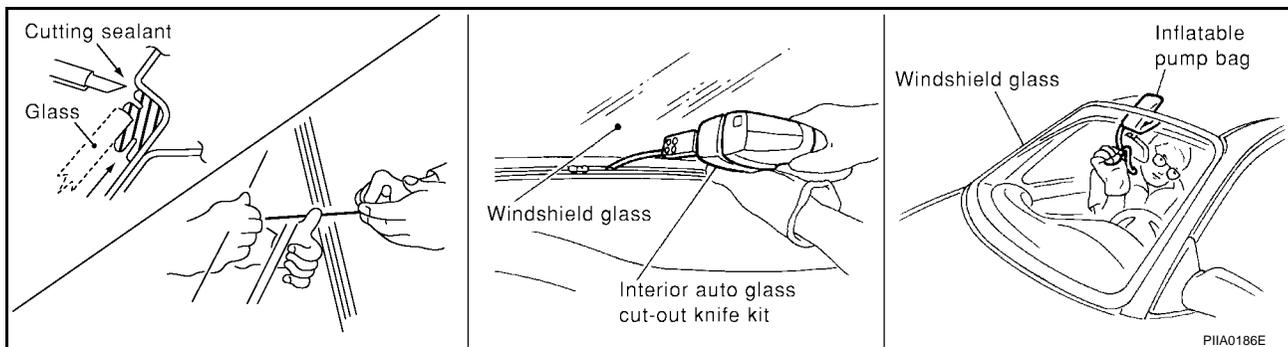
1. Remove inside mirror. Refer to [GW-91, "Inside Mirror"](#).
 2. Partially remove the headliner (front edge). Refer to [EI-40, "HEADLINING"](#).
 3. Remove cowl top cover. Refer to [EI-19, "Removal and Installation"](#).
 4. Apply protective tape around the windshield glass to protect the painted surface from damage.
- Remove glass using piano wire or power cutting tool and an inflatable pump bag.
 - If the windshield glass is to be reused, mark the body and the glass with mating marks.

WARNING:

When cutting the glass from the vehicle, always wear safety glasses and heavy gloves to help prevent glass splinters from entering your eyes or cutting your hands.

CAUTION:

- When a windshield glass is to be reused, do not use a cutting knife or power cutting tool.
- Be careful not to scratch the glass when removing.
- Do not set or stand glass on its edge. Small chips may develop into cracks.



INSTALLATION

Installation is in the reverse order of removal.

- Use a genuine NISSAN Urethane Adhesive Kit (if available) or equivalent and follow the instructions furnished with it.
- While the urethane adhesive is curing, open a door window. This will prevent the glass from being forced out by passenger compartment air pressure when a door is closed.

WINDSHIELD GLASS

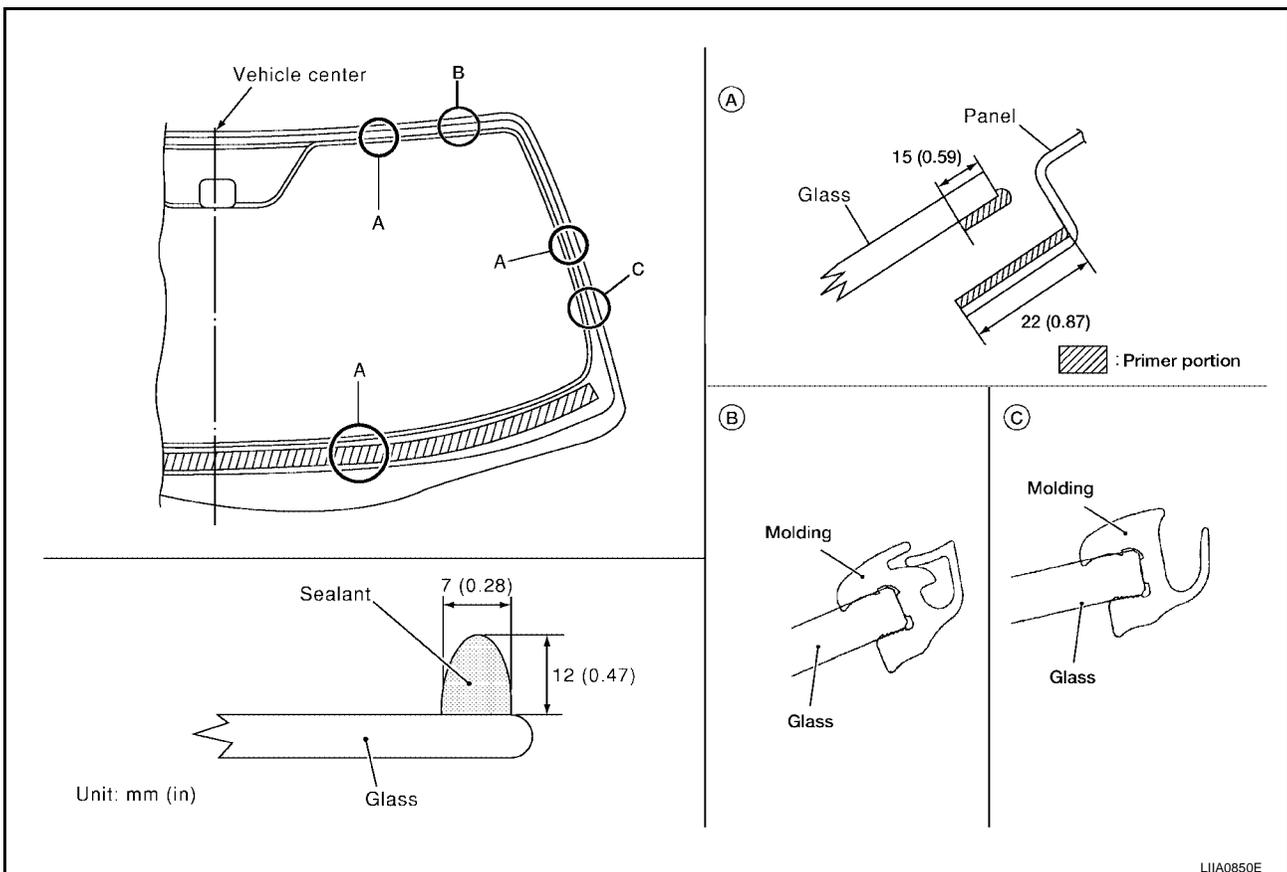
- The molding must be installed securely so that it is in position and leaves no gap.
- Inform the customer that the vehicle should remain stationary until the urethane adhesive has completely cured (preferably 24 hours). Curing time varies with temperature and humidity.

WARNING:

- Keep heat and open flames away as primers and adhesive are flammable.
- The materials contained in the kit are harmful if swallowed, and may irritate skin and eyes. Avoid contact with the skin and eyes.
- Use in an open, well ventilated location. Avoid breathing the vapors. They can be harmful if inhaled. If affected by vapor inhalation, immediately move to an area with fresh air.
- Driving the vehicle before the urethane adhesive has completely cured may affect the performance of the windshield in case of an accident.

CAUTION:

- Do not use an adhesive which is past its usable term. 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.
- Do not leave primers or adhesive cartridge unattended with their caps open or off.
- The vehicle should not be driven for at least 24 hours or until the urethane adhesive has completely cured. Curing time varies depending on temperature and humidities. The curing time will increase under lower temperatures and lower humidities.



Repairing Water Leaks for Windshield

Leaks can be repaired without removing and reinstalling glass.

If water is leaking between the urethane adhesive material and body or glass, determine the extent of leakage. This can be done by applying water to the windshield area while pushing glass outward.

To stop the leak, apply primer (if necessary) and then urethane adhesive to the leak point.

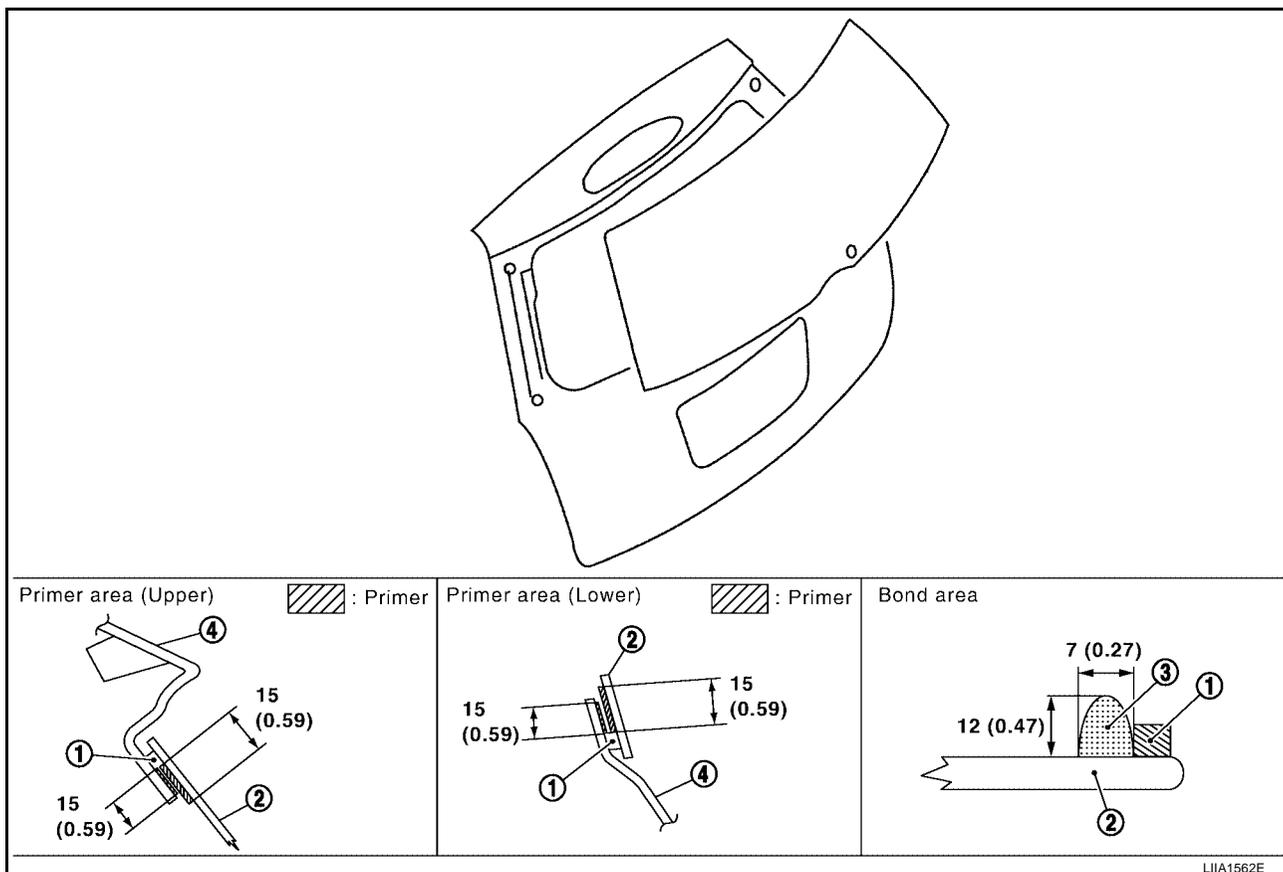
REAR WINDOW GLASS AND MOLDING

PF:79712

EIS007HH

REAR WINDOW GLASS AND MOLDING

Removal and Installation



1. Foam dam
 2. Back door window glass
 3. Bond
 4. Back door outer panel

LIA1562E

REMOVAL

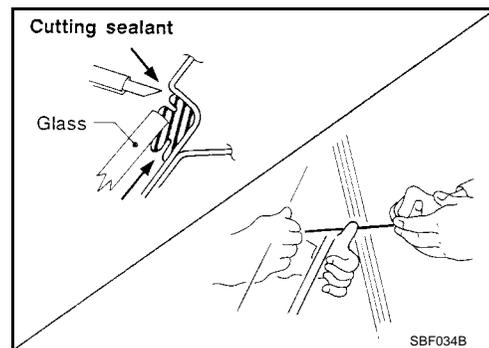
1. Remove the rear wiper arm and motor. Refer to [EI-32, "BODY SIDE TRIM"](#).
2. Remove the connectors and grounds for the rear window defogger.
 - Remove glass using piano wire or power cutting tool and an inflatable pump bag.
 - If the rear window glass is to be reused, mark the body and the glass with mating marks.

WARNING:

When cutting the glass from the vehicle, always wear safety glasses and heavy gloves to help prevent glass splinters from entering your eyes or cutting your hands.

CAUTION:

- When a windshield glass is to be reused, do not use a cutting knife or power cutting tool.
- Be careful not to scratch the glass when removing.
- Do not set or stand the glass on its edge. Small chips may develop into cracks.



INSTALLATION

Installation is in the reverse order of removal.

- Use a genuine NISSAN Urethane Adhesive Kit (if available) or equivalent and follow the instructions furnished with it.
- While the urethane adhesive is curing, open a door window. This will prevent the glass from being forced out by passenger compartment air pressure when a door is closed.
- The molding must be installed securely so that it is in position and leaves no gap.

REAR WINDOW GLASS AND MOLDING

- Check gap along bottom to confirm that glass does not contact sheet metal.
- Inform the customer that the vehicle should remain stationary until the urethane adhesive has completely cured (preferably 24 hours). Curing time varies with temperature and humidity.

WARNING:

- Keep heat and open flames away as primers and adhesive are flammable.
- The materials contained in the kit are harmful if swallowed, and may irritate skin and eyes. Avoid contact with the skin and eyes.
- Use in an open, well ventilated location. Avoid breathing the vapors. They can be harmful if inhaled. If affected by vapor inhalation, immediately move to an area with fresh air.
- Driving the vehicle before the urethane adhesive has completely cured may affect the performance of the windshield in case of an accident.

CAUTION:

- Do not use an adhesive which is past its usable term. 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.
- Do not leave primers or adhesive cartridge unattended with their caps open or off.
- The vehicle should not be driven for at least 24 hours or until the urethane adhesive has completely cured. Curing time varies depending on temperature and humidity. The curing time will increase under lower temperatures and lower humidities.

Repairing Water leaks for Rear Window Glass

Leaks can be repaired without removing or reinstalling glass.

If water is leaking between urethane adhesive material and body or glass, determine the extent of leakage.

This can be done by applying water to the rear window area while pushing glass outward.

To stop leak, apply primer (if necessary) and then urethane adhesive to the leak point.

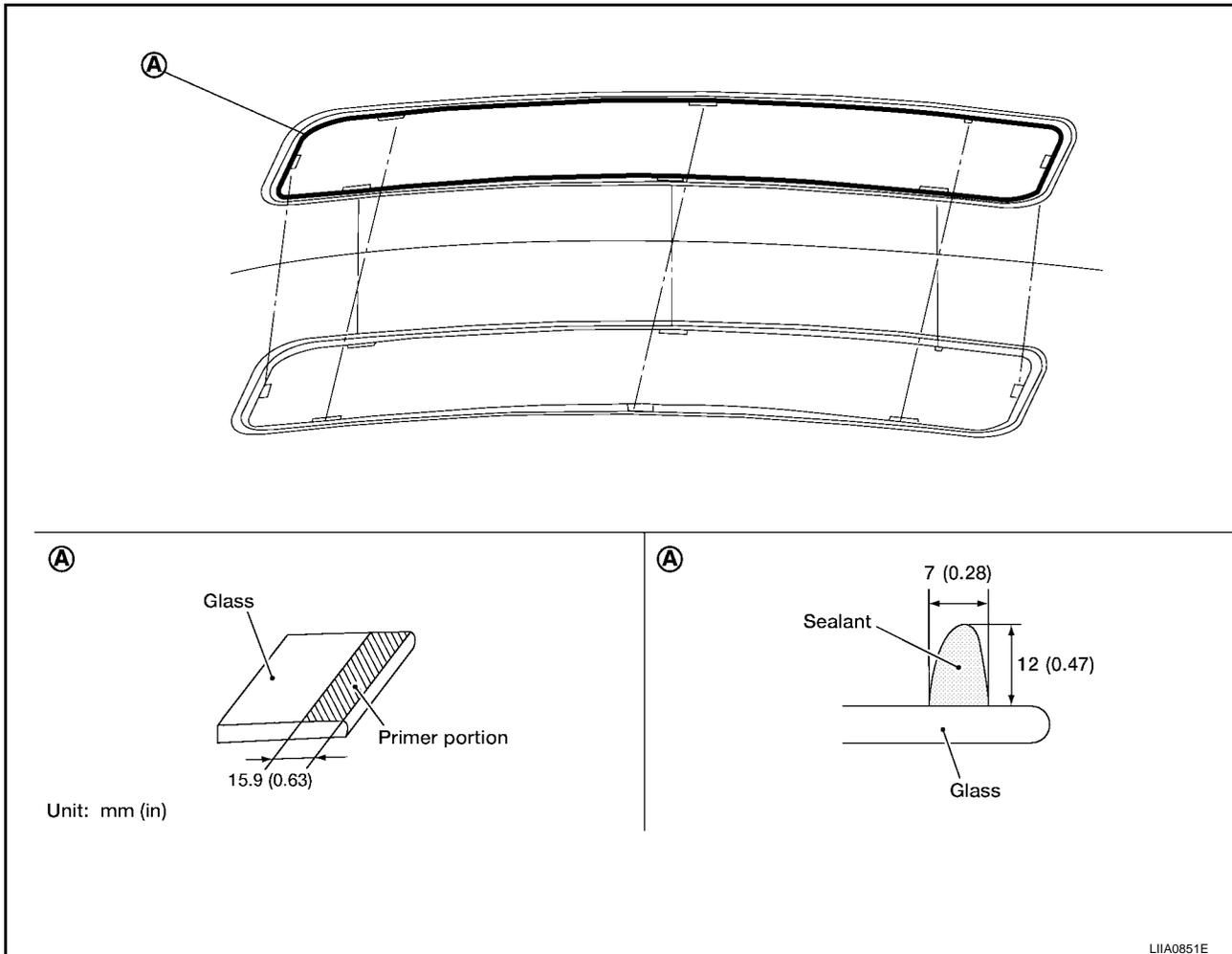
SKYVIEW ROOF

PF:79700

SKYVIEW ROOF

Removal and Installation

EIS007HI



REMOVAL

1. Remove the headliner. Refer to [EI-40, "HEADLINING"](#).
2. Apply protective tape around the skyview roof glass to protect the painted surface from damage.
3. Remove glass using piano wire or power cutting tool and an inflatable pump bag.

WARNING:

When cutting the glass from the vehicle, always wear safety glasses and heavy gloves to help prevent glass splinters from entering your eyes or cutting your hands.

CAUTION:

- When a skyview roof glass is to be reused, do not use a cutting knife or power cutting tool.
- Be careful not to scratch the glass when removing.
- Do not set or stand the glass on its edge. Small chips may develop into cracks.

INSTALLATION

Installation is in the reverse order of removal.

- Use a genuine NISSAN Urethane Adhesive Kit (if available) or equivalent and follow the instructions furnished with it.
- While the urethane adhesive is curing, open a window. This will prevent the glass from being forced out by passenger compartment air pressure when a door is closed.
- The rubber seal must be installed securely so that it is in position and leaves no gap.
- Inform customer that the vehicle should remain stationary until the urethane adhesive has completely cured (preferably 24 hours). Curing time varies with temperature and humidity.

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SKYVIEW ROOF

WARNING:

- Keep heat and open flames away as primers and adhesives are flammable.
- The materials contained in the kit are harmful if swallowed, and may irritate skin and eyes. Avoid contact with the skin and eyes.
- Use in an open, well ventilated location. Avoid breathing the vapors. They can be harmful if inhaled. If affected by vapor inhalation, immediately move to area with fresh air.
- Driving the vehicle before urethane adhesive has completely cured may affect the performance of the skyview roof in case of an accident.

CAUTION:

- Do not use an adhesive which is past its usable term. 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 adhesives in a cool dry place. Ideally they should be stored in a refrigerator.
- Do not leave primers and adhesive cartridge unattended with their caps off.
- The vehicle should not be driven for at least 24 hours or until the urethane adhesive has completely cured. Curing time depends on temperature and humidity. The curing time will increase under lower temperature and lower humidities.

Repairing Water Leaks for Skyview Roof Glass

Leaks can be repaired without removing and reinstalling glass.

If water is leaking between the urethane adhesive material and body or glass, determine the extent of leakage. This can be done by applying water to the glass area while pushing glass outward.

To stop the leak, apply primer (if necessary) and then urethane adhesive to the leak point.

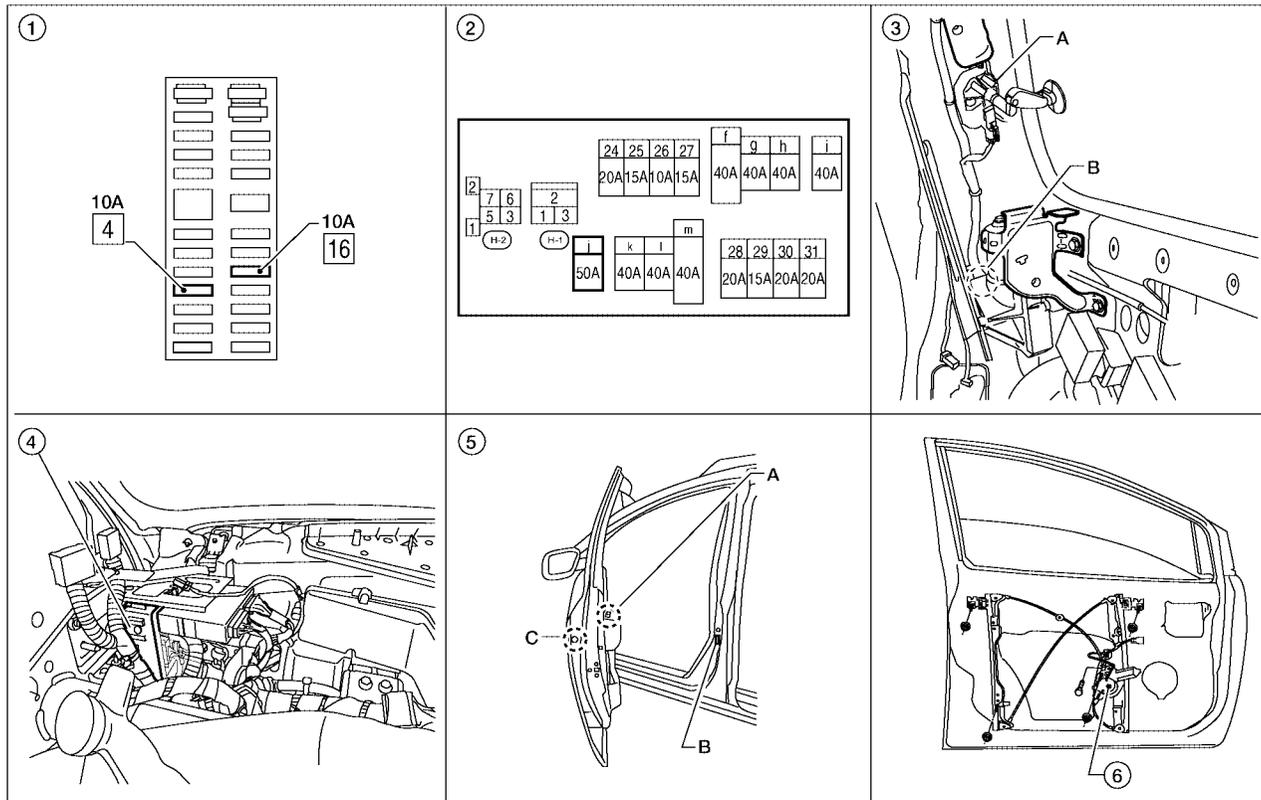
POWER WINDOW SYSTEM

PF25401

EIS007HJ

POWER WINDOW SYSTEM

Component Parts and Harness Connector Location



1. Fuse block (J/B)

2. Fuse and fusible link box

3. A. Rear power vent window motor
LH B52
Rear power vent window motor RH
B147
B. Condenser-3 B65
Condenser-4 B68
(View with rear finishers removed)

4. BCM M18, M19, M20 (View with
instrument panel removed)

5. A. Main power window and door
lock/unlock switch D7, D8
Power window and door lock/unlock
switch RH D105
B. Front door switch LH B8
Front door switch RH B108
C. Front door lock assembly LH (key
cylinder switch) D14

6. Front power window motor LH D9
Front power window RH D104
(View with door finisher removed)

LIA2311E

System Description

EIS007HK

Power is supplied at all time

- from 50A fusible link (letter j , located in the fuse and fusible link box)
- to BCM terminal 55
- through BCM terminal 54
- to main power window and door lock/unlock switch terminal 1 (without rear power vent windows) or 19 (with rear power vent windows)
- to power window and door lock/unlock switch RH terminal 10.

With ignition switch in ON or START position, power is supplied

- through 10A fuse [No.16, located in the fuse block (J/B)]
- to BCM terminal 38

POWER WINDOW SYSTEM

- through BCM terminal 53
- to main power window and door lock/unlock switch terminal 10.

With ignition switch in ACC or ON position, power is supplied

- through 10A fuse [No. 4, located in the fuse block (J/B)]
- to BCM terminal 11.

Ground is supplied

- to BCM terminal 52
- to main power window and door lock/unlock switch terminal 15 (without rear power vent windows) or 17 (with rear power vent windows)
- to power window and door lock/unlock switch RH terminal 11
- through body grounds M57, M61 and M79.

MANUAL OPERATION

Front Door LH

WINDOW UP

When the front LH switch in the main power window and door lock/unlock switch is pressed in the up position, power is supplied

- through main power window and door lock/unlock switch terminal 8
- to front power window motor LH terminal 2.

Ground is supplied

- through main power window and door lock/unlock switch terminal 11
- to front power window motor LH terminal 1.

Then, the motor raises the window until the switch is released.

WINDOW DOWN

When the front LH switch in the main power window and door lock/unlock switch is pressed in the down position, power is supplied

- through main power window and door lock/unlock switch terminal 11
- to front power window motor LH terminal 1.

Ground is supplied

- through main power window and door lock/unlock switch terminal 8
- to front power window motor LH terminal 2.

Then, the motor lowers the window until the switch is released.

Front Door RH

POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH OPERATION

WINDOW UP

When the power window and door lock/unlock switch RH is pressed in the up position, power is supplied

- through power window and door lock/unlock switch RH terminal 8
- to front power window motor RH terminal 3.

Ground is supplied

- through power window and door lock/unlock switch RH terminal 9
- to front power window motor RH terminal 1.

Then, the motor raises the window until the switch is released.

WINDOW DOWN

When the power window and door lock/unlock switch RH is pressed in the down position, power is supplied

- through power window and door lock/unlock switch RH terminal 9
- to front power window motor RH terminal 1.

Ground is supplied

- through power window and door lock/unlock switch RH terminal 8
- to front power window motor RH terminal 3.

Then, the motor lowers the window until the switch is released.

MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OPERATION

Power window serial link signal is sent

POWER WINDOW SYSTEM

- though main power window and door lock/unlock switch terminal 12 (without rear power vent windows) or 14 (with rear power vent windows) A
- to power window and door lock/unlock switch RH terminal 16. B

The operation of power window after receiving the signal is the same as operating the power window with power window and door lock/unlock switch RH.

VENT WINDOW CLOSE (WITH REAR POWER VENT WINDOWS)

When the main power window and door lock/unlock switch (rear LH) is pressed in the close position, power is supplied C

- through main power window and door lock/unlock switch terminal 1
- to rear power vent window motor LH terminal 1. D

Ground is supplied

- through main power window and door lock/unlock switch terminal 3
- to rear power vent window motor LH terminal 2. E

Then, the motor closes the window until the switch is released.

When the main power window and door lock/unlock switch (rear RH) is pressed in the close position, power is supplied F

- through main power window and door lock/unlock switch terminal 7
- to rear power vent window motor RH terminal 1. G

Ground is supplied

- through main power window and door lock/unlock switch terminal 5
- to rear power window motor RH terminal 2. H

Then, the motor closes the window until the switch is released.

VENT WINDOW OPEN (WITH REAR POWER VENT WINDOWS)

When the main power window and door lock/unlock switch (rear LH) is pressed in the open position, power is supplied

- through main power window and door lock/unlock switch terminal 3
- to rear power vent window motor LH terminal 2. GW

Ground is supplied

- through main power window and door lock/unlock switch terminal 1
- to rear power vent window motor LH terminal 1. J

Then, the motor opens the window until the switch is released.

When the main power window and door lock/unlock switch (rear RH) is pressed in the open position, power is supplied K

- through main power window and door lock/unlock switch terminal 5
- to rear power vent window motor RH terminal 2. L

Ground is supplied

- through main power window and door lock/unlock switch terminal 7
- to rear power vent window motor RH terminal 1. M

Then, the motor opens the window until the switch is released.

AUTO OPERATION

The power window AUTO feature enables the driver to open or close the window without holding the window switch in the down or up position.

POWER WINDOW SERIAL LINK

Main power window and door lock/unlock switch, power window and door lock/unlock switch RH, and BCM transmit and receive the signal by power window serial link and BUS signal.

The signal is transmitted from BCM to main power window and door lock/unlock switch and power window and door lock/unlock switch RH

- Front door window RH operation signal.
- Power window control by front door lock assembly (key cylinder switch) signal.
- Power window lock signal.
- Keyless power window down signal.

POWER WINDOW SYSTEM

- Retained power operation signal.

POWER WINDOW LOCK

The power window lock is designed to lock operation of all windows except for front door window LH. When in the lock position, the power window lock signal is transmitted to power window and door lock/unlock switch RH by power window serial link. This prevents the power window motor from operating.

RETAINED POWER OPERATION

When the ignition switch is turned to the OFF position from ON or START position, power is supplied for 45 seconds

- to main power window and door lock/unlock switch terminal 10
- from BCM terminal 53.

When power and ground are supplied, the BCM continues to be energized, and the power window can be operated.

The retained power operation is canceled when the front LH or front RH door is opened.

Retained power operation period can be changed by CONSULT-II. Refer to [GW-38, "CONSULT-II Function \(BCM\)"](#).

ANTI-PINCH SYSTEM

Main power window and door lock/unlock switch and power window and door lock/unlock switch RH monitor the power window motor operation and the power window position (full closed or other) for front LH and front RH power window by the signals from encoder and limit switch in front power window motor LH and RH.

When main power window and door lock/unlock switch or power window and door lock/unlock switch RH detects interruption during the following close operation,

- automatic close operation when ignition switch is in the ON position
- automatic close operation during retained power operation

Main power window and door lock/unlock switch or power window and door lock/unlock switch RH controls each front power window motor for open and the power window will be lowered about 150 mm (5.91 in).

POWER WINDOW CONTROL BY THE FRONT DOOR LOCK ASSEMBLY LH (KEY CYLINDER SWITCH)

When ignition switch is OFF, front power window LH and RH can be opened or closed by turning the front door lock assembly LH (key cylinder switch) to the UNLOCK/LOCK position for more than 3 seconds.

- Front power windows can be opened as the front door lock assembly LH (key cylinder switch) is kept fully turned to the UNLOCK position.
- Front power windows can be closed as the front door lock assembly LH (key cylinder switch) is kept fully turned to the LOCK position.
- While performing open/close operation for the windows, power window is stopped when the front door lock assembly LH (key cylinder switch) is placed in the NEUTRAL position.
- When the ignition switch is turned ON while the power window opening operation is performed, the power window opening stops.

CAN Communication System Description

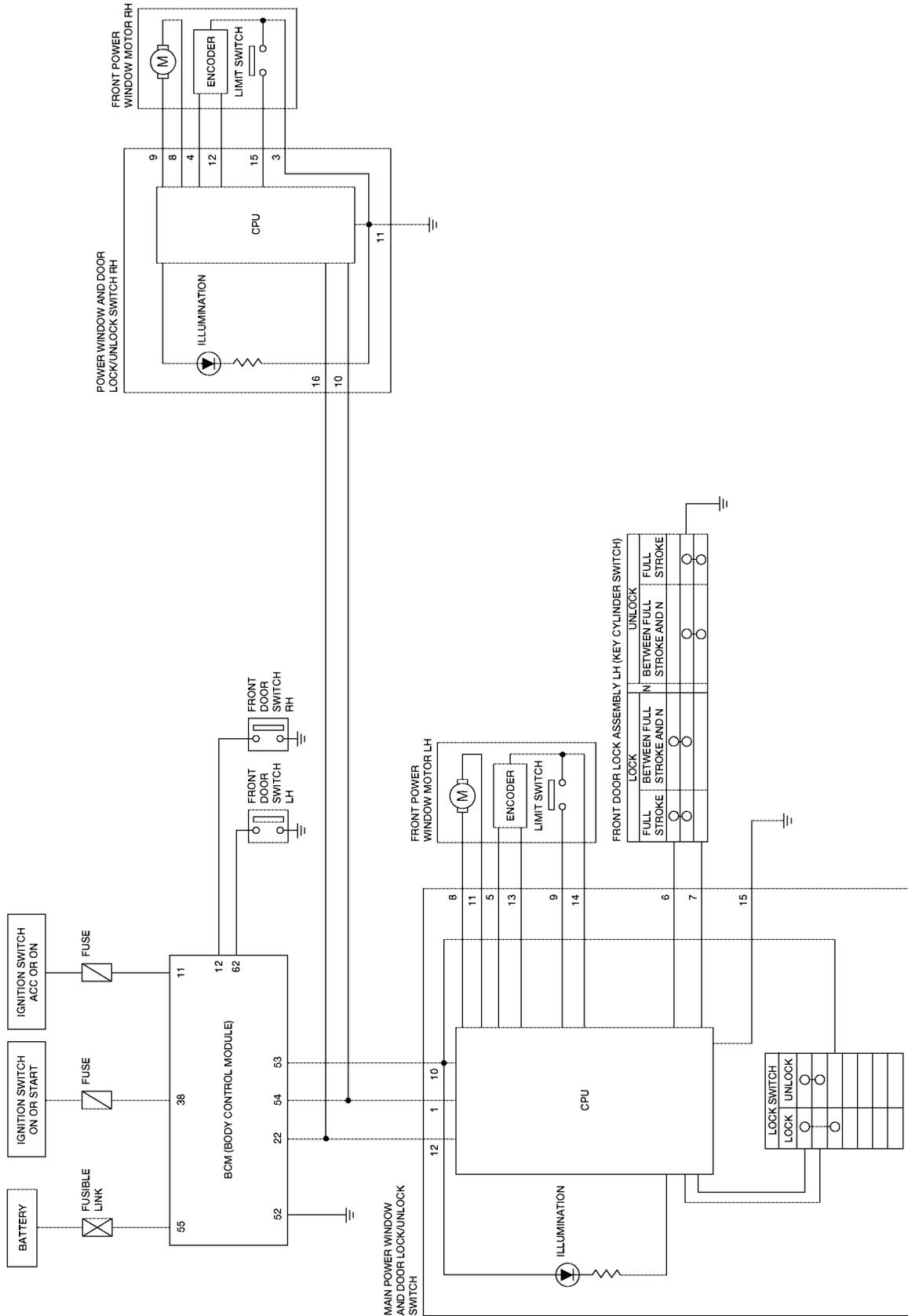
EIS007HL

Refer to [LAN-24, "CAN COMMUNICATION"](#).

POWER WINDOW SYSTEM

Schematic (Without Rear Power Vent Windows)

EIS007HM



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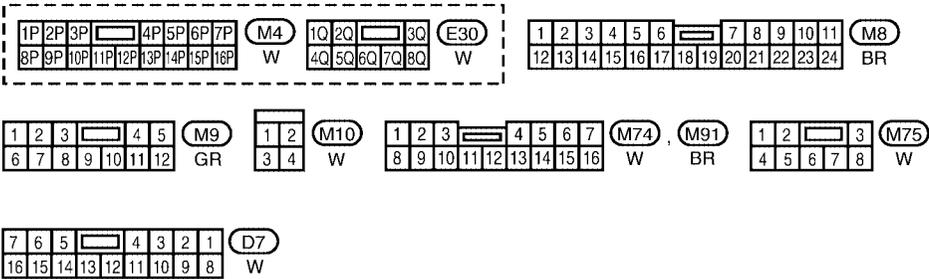
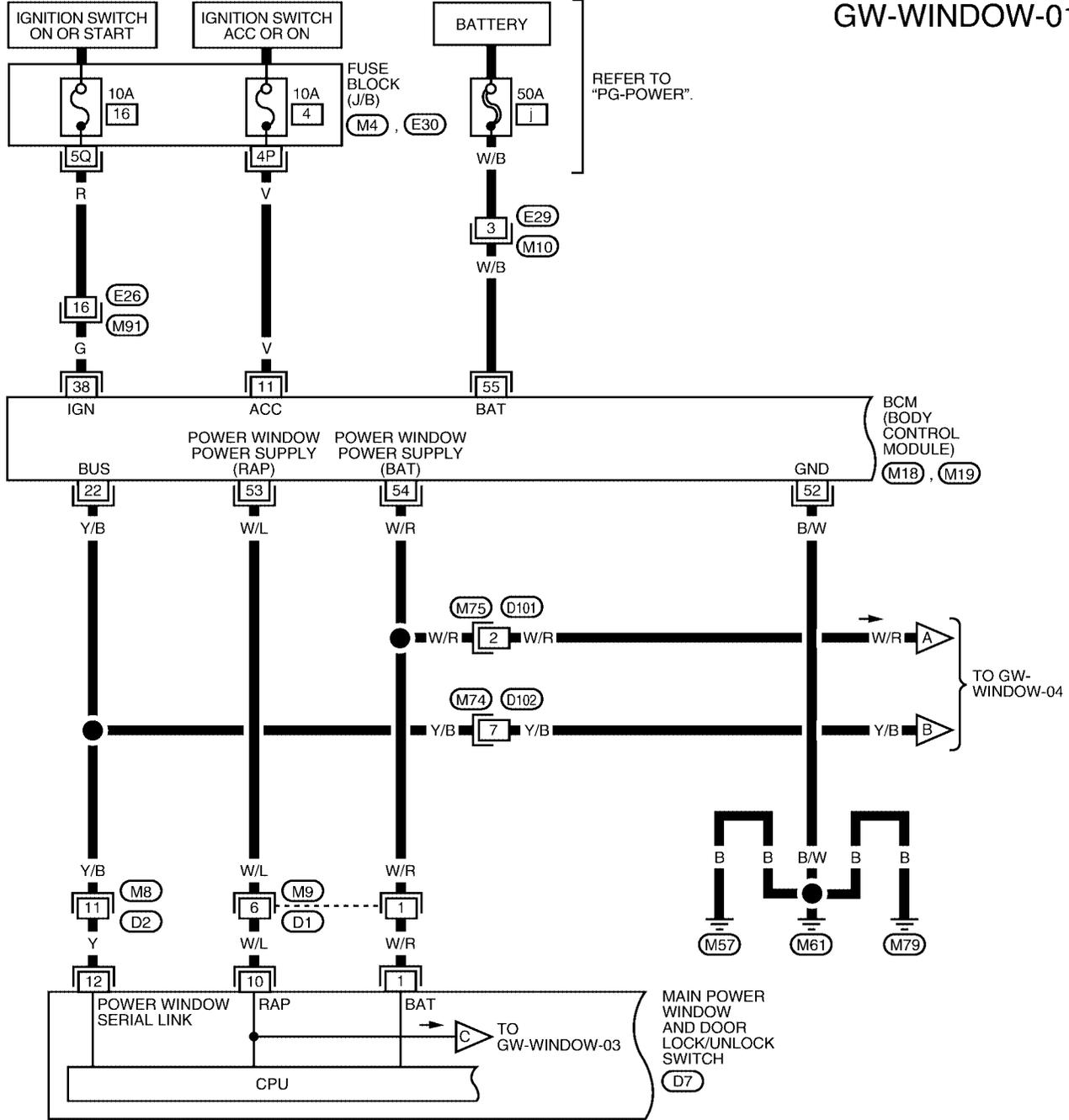
GW

POWER WINDOW SYSTEM

Wiring Diagram — WINDOW — (Without Rear Power Vent Windows)

EIS007HN

GW-WINDOW-01



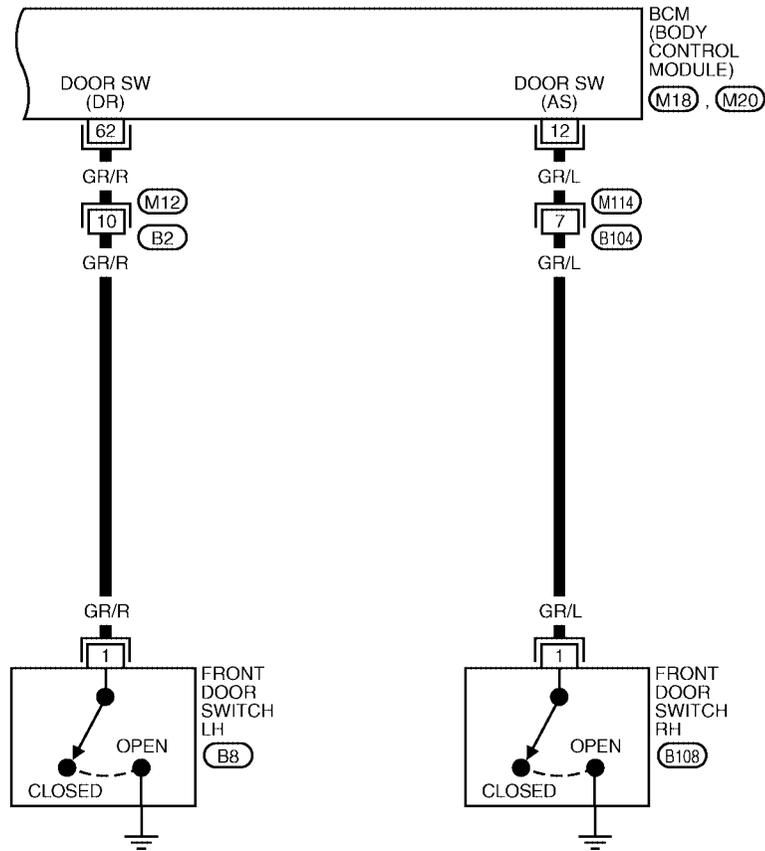
REFER TO THE FOLLOWING.
 (M18), (M19) - ELECTRICAL
 UNITS

WIWA1030E

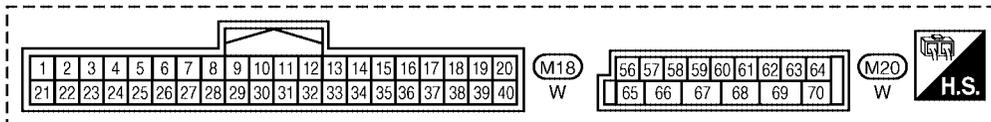
POWER WINDOW SYSTEM

GW-WINDOW-02

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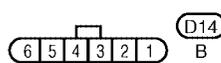
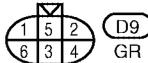
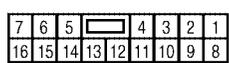
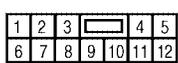
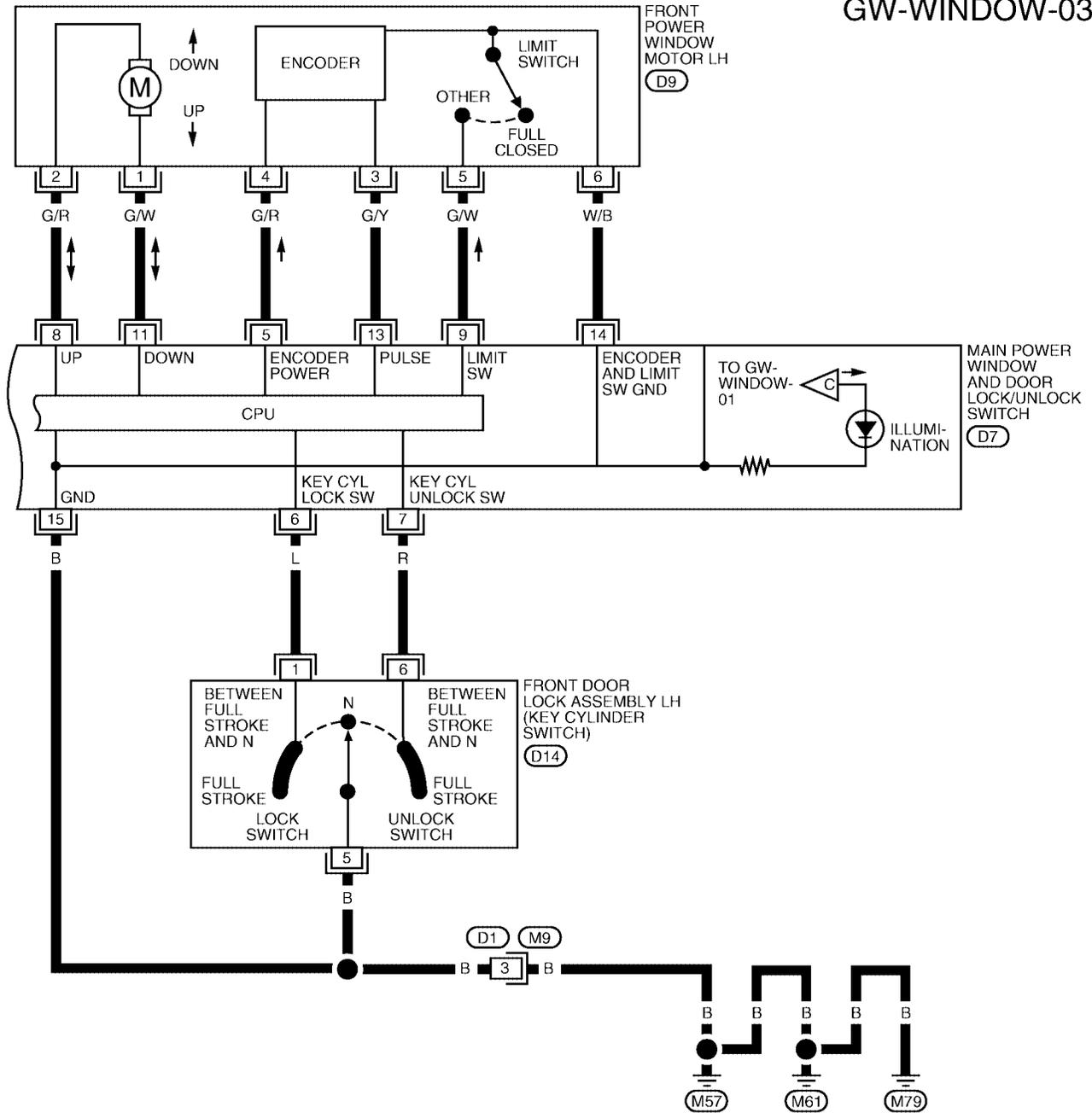


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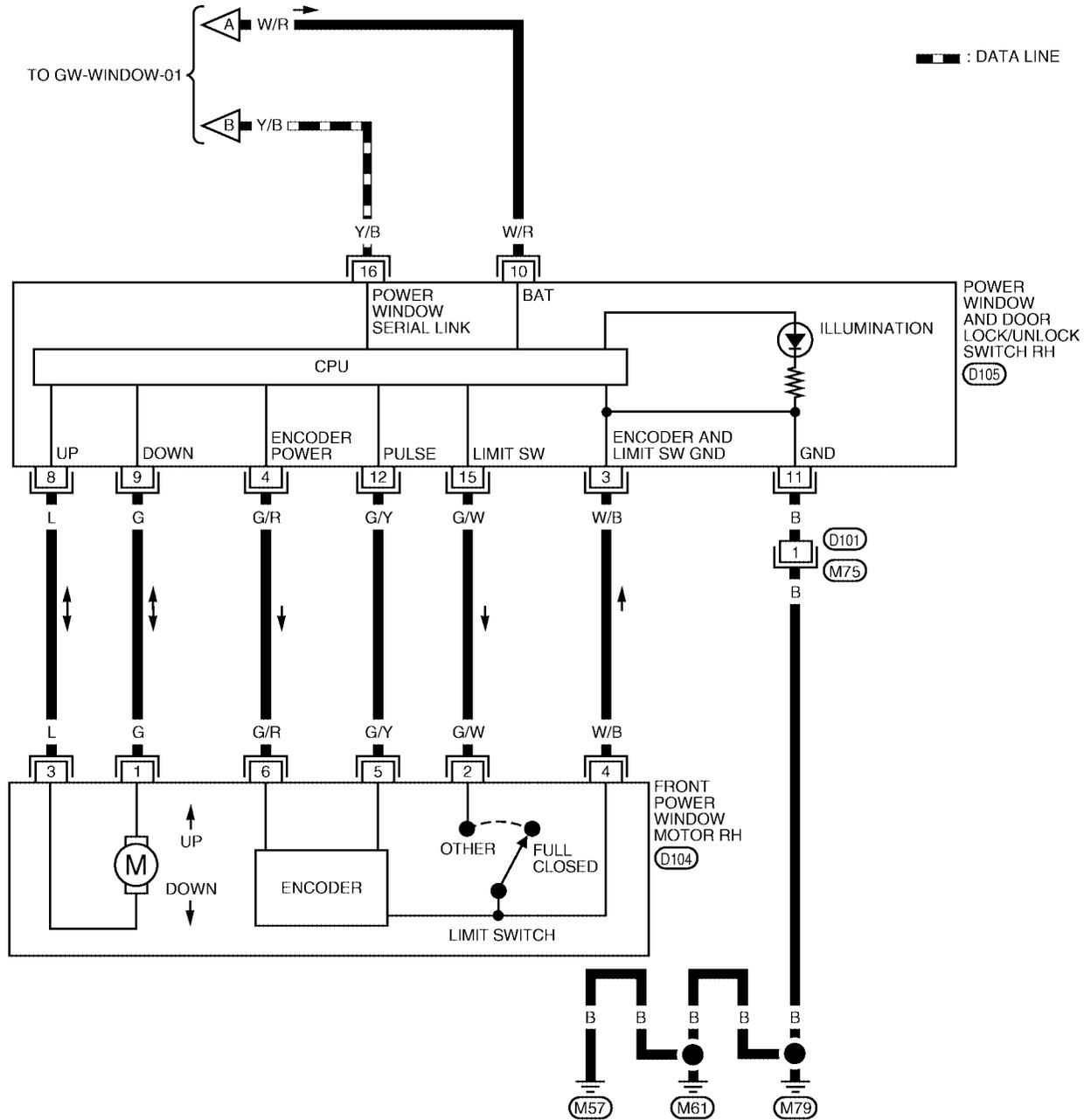
POWER WINDOW SYSTEM

GW-WINDOW-03



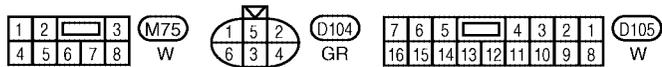
POWER WINDOW SYSTEM

GW-WINDOW-04



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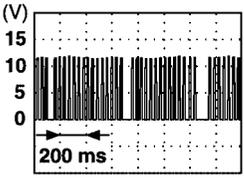
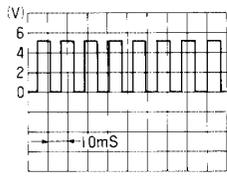


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POWER WINDOW SYSTEM

Terminal and Reference Value for Main Power Window and Door Lock/Unlock Switch (Without Rear Power Vent Windows)

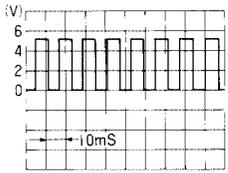
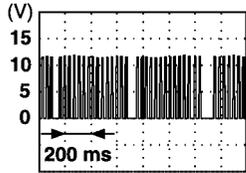
EIS007HO

Terminal	Wire Color	Item	Condition	Voltage (V) (Approx.)
1	W/R	Battery power supply	—	Battery voltage
5	G/R	Encoder power supply	Ignition switch ON or power window timer operates	10
6	L	Front door lock assembly LH (key cylinder switch) lock signal	Key position (Neutral → Locked)	5 → 0
7	R	Front door lock assembly LH (key cylinder switch) unlock signal	Key position (Neutral → Unlocked)	5 → 0
8	G/R	Front power window motor LH UP signal	Front power window motor LH is operated UP	Battery voltage
9	G/W	Limit switch signal	Front door window LH is between fully-open and just before fully-closed position (ON)	0
			Front door window LH is between just before fully-closed position and fully-closed position (OFF)	5
10	W/L	RAP signal	Ignition switch ON	Battery voltage
			Within 45 second after ignition switch is turned to OFF	Battery voltage
			More than 45 second after ignition switch is turned to OFF	0
			Front door LH or RH open or power window timer operates	0
11	G/W	Front power window motor LH DOWN signal	Front power window motor LH is operated DOWN	Battery voltage
12	Y	Power window serial link	Ignition switch ON or power window timer operates	 <p style="text-align: right; font-size: small;">PIIA2344J</p>
13	G/Y	Encoder pulse signal	Front power window motor LH operates	 <p style="text-align: right; font-size: small;">OCC3383D</p>
14	W/B	Limit switch and encoder ground	—	0
15	B	Ground	—	0

POWER WINDOW SYSTEM

Terminal and Reference Value for Power Window and Door Lock/ Unlock Switch RH (Without Rear Power Vent Windows)

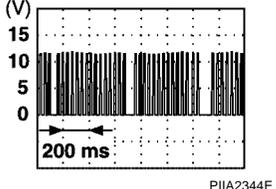
EIS007HP

Terminal	Wire Color	Item	Condition	Voltage (V) (Approx.)
3	W/B	Limit switch and encoder ground	—	0
4	G/R	Encoder power supply	Ignition switch ON or power window timer operates	10
8	L	Front power window motor RH UP signal	Front power window motor RH is operated UP	Battery voltage
9	G	Front power window motor RH DOWN signal	Front power window motor RH is operated DOWN	Battery voltage
10	W/R	Battery power supply	—	Battery voltage
11	B	Ground	—	0
12	G/Y	Encoder pulse signal	Front power window motor RH operates	 <p style="text-align: right; font-size: small;">OCC3383D</p>
15	G/W	Limit switch signal	Front door window RH is between fully-open and just before fully-closed position (ON)	0
			Front door window RH is between just before fully-closed position and fully-closed position (OFF)	5
16	Y/B	Power window serial link	Ignition switch ON or power window timer operates	 <p style="text-align: right; font-size: small;">PIIA2344J</p>

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POWER WINDOW SYSTEM

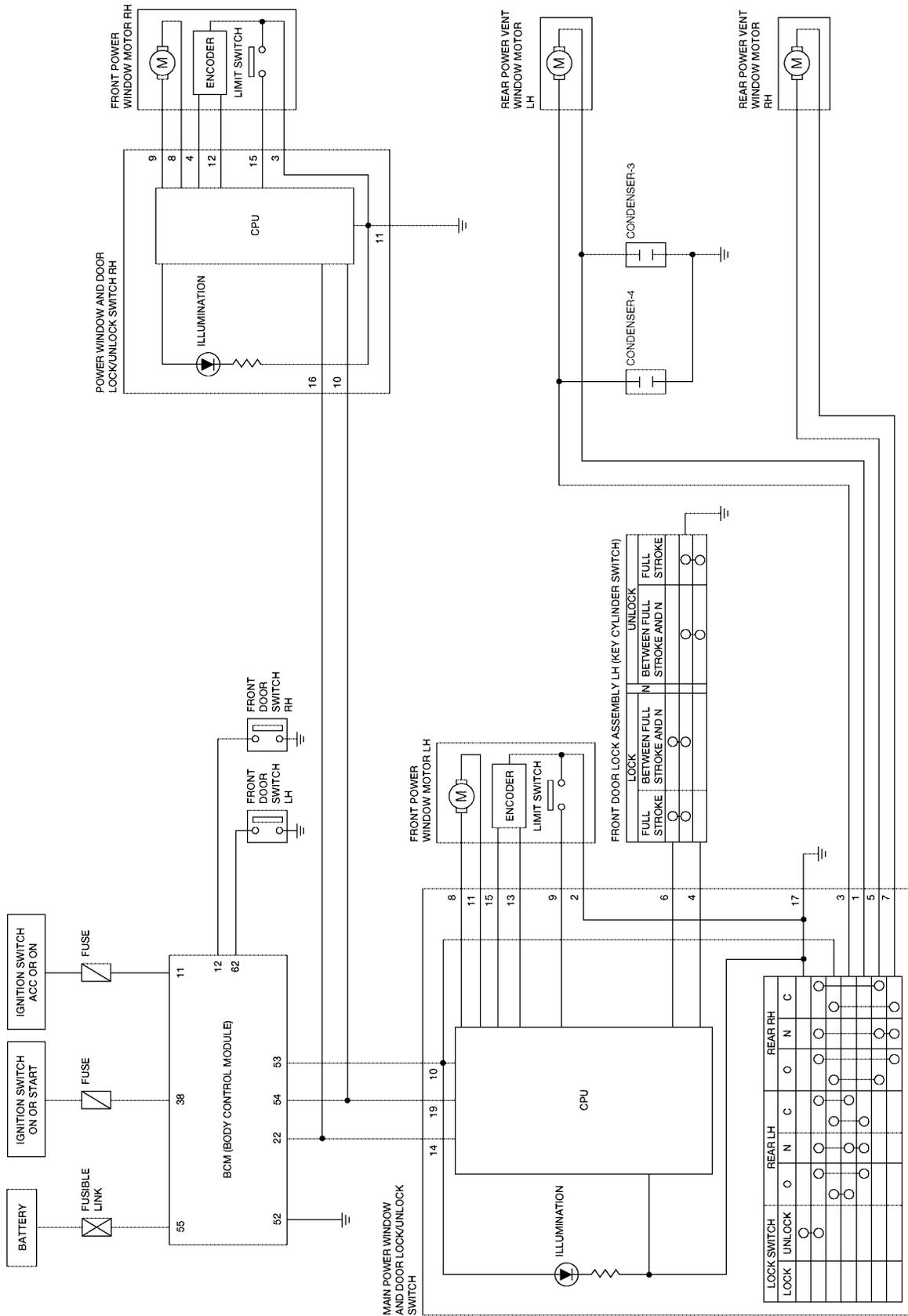
Terminal and Reference Value for BCM (Without Rear Power Vent Windows) EIS007HQ

Terminal	Wire Color	Item	Condition	Voltage (V) (Approx.)
11	V	Ignition switch (ACC or ON)	Ignition switch (ACC or ON position)	Battery voltage
12	GR/L	Front door switch RH signal	ON (Open)	0
			OFF (Close)	Battery voltage
22	Y/B	BUS signal	Ignition switch is ON or power window timer operates	
38	G	Ignition switch (ON or START)	Ignition switch (ON or START position)	Battery voltage
52	B/W	Ground	—	0
53	W/L	RAP signal	Ignition switch is ON	Battery voltage
			Within 45 second after ignition switch is turned to OFF	Battery voltage
			More then 45 second after ignition switch is turned to OFF	0
			Front door LH or RH is open or power window timer is operating	0
54	W/R	Power window power supply	—	Battery voltage
55	W/B	Battery power supply	—	Battery voltage
62	GR/R	Front door switch LH signal	ON (Open)	0
			OFF (Close)	Battery voltage

POWER WINDOW SYSTEM

Schematic (With Rear Power Vent Windows)

EIS007HR



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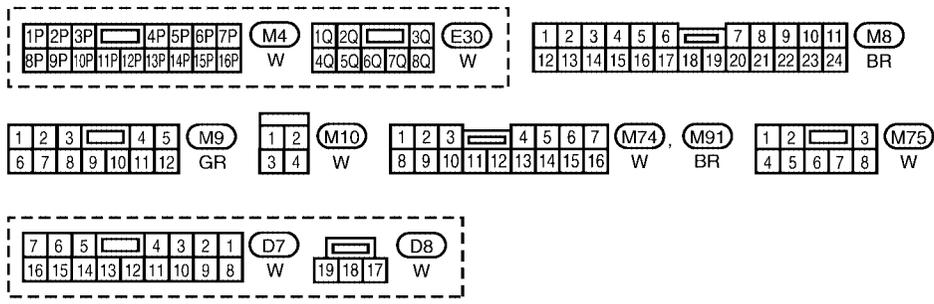
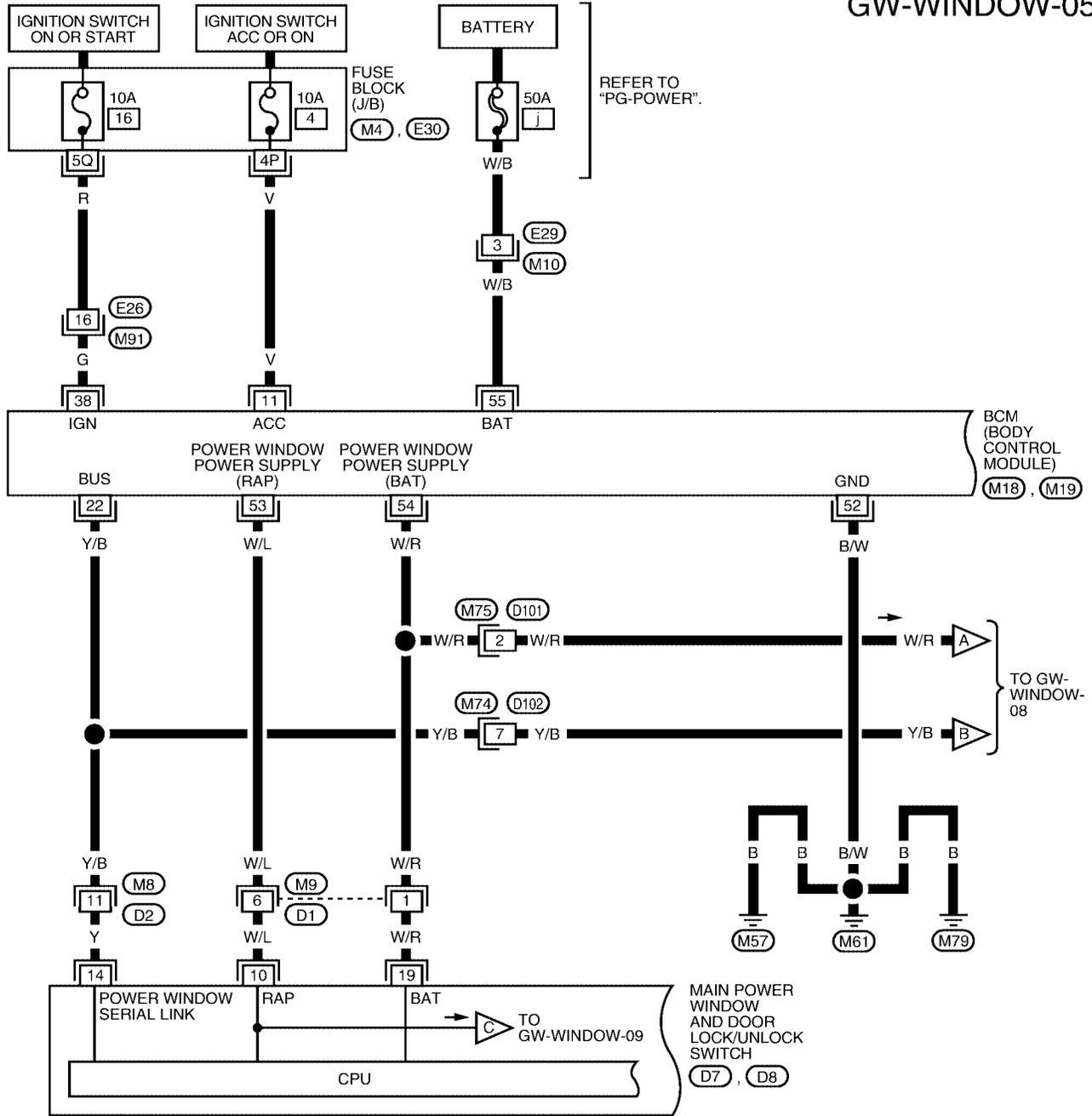
GW

POWER WINDOW SYSTEM

Wiring Diagram — WINDOW — (With Rear Power Vent Windows)

EIS007HS

GW-WINDOW-05



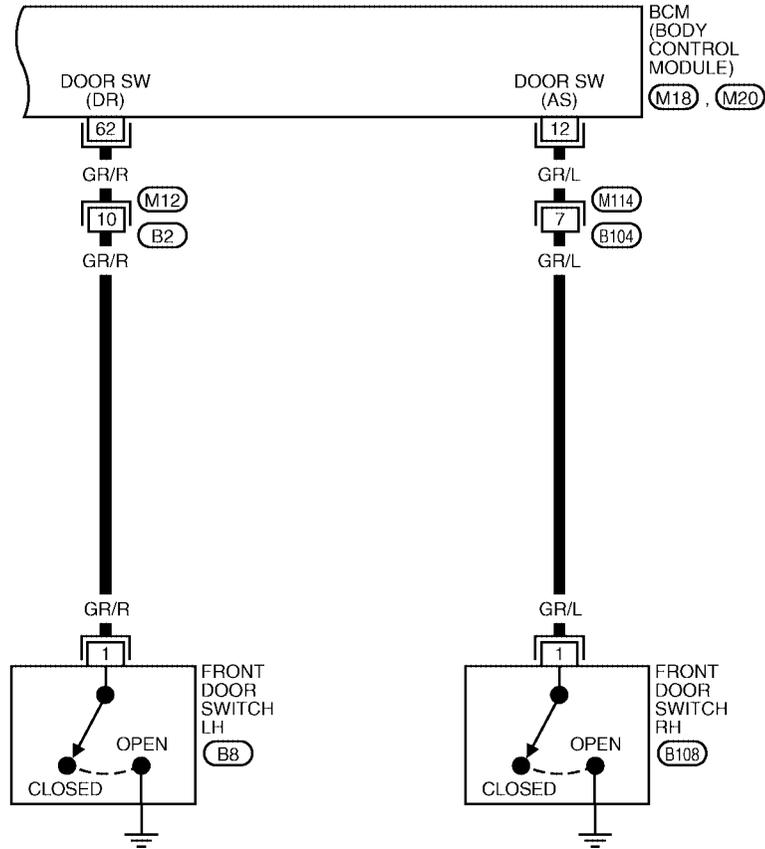
REFER TO THE FOLLOWING.
 (M18) . (M19) - ELECTRICAL
 UNITS

WIWA1031E

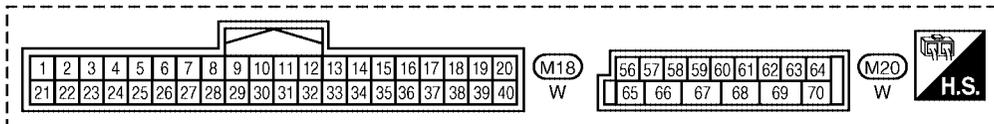
POWER WINDOW SYSTEM

GW-WINDOW-06

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											GR	W

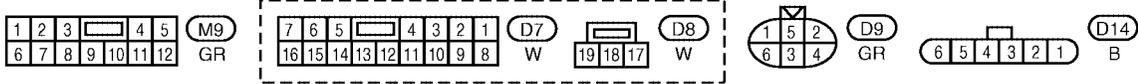
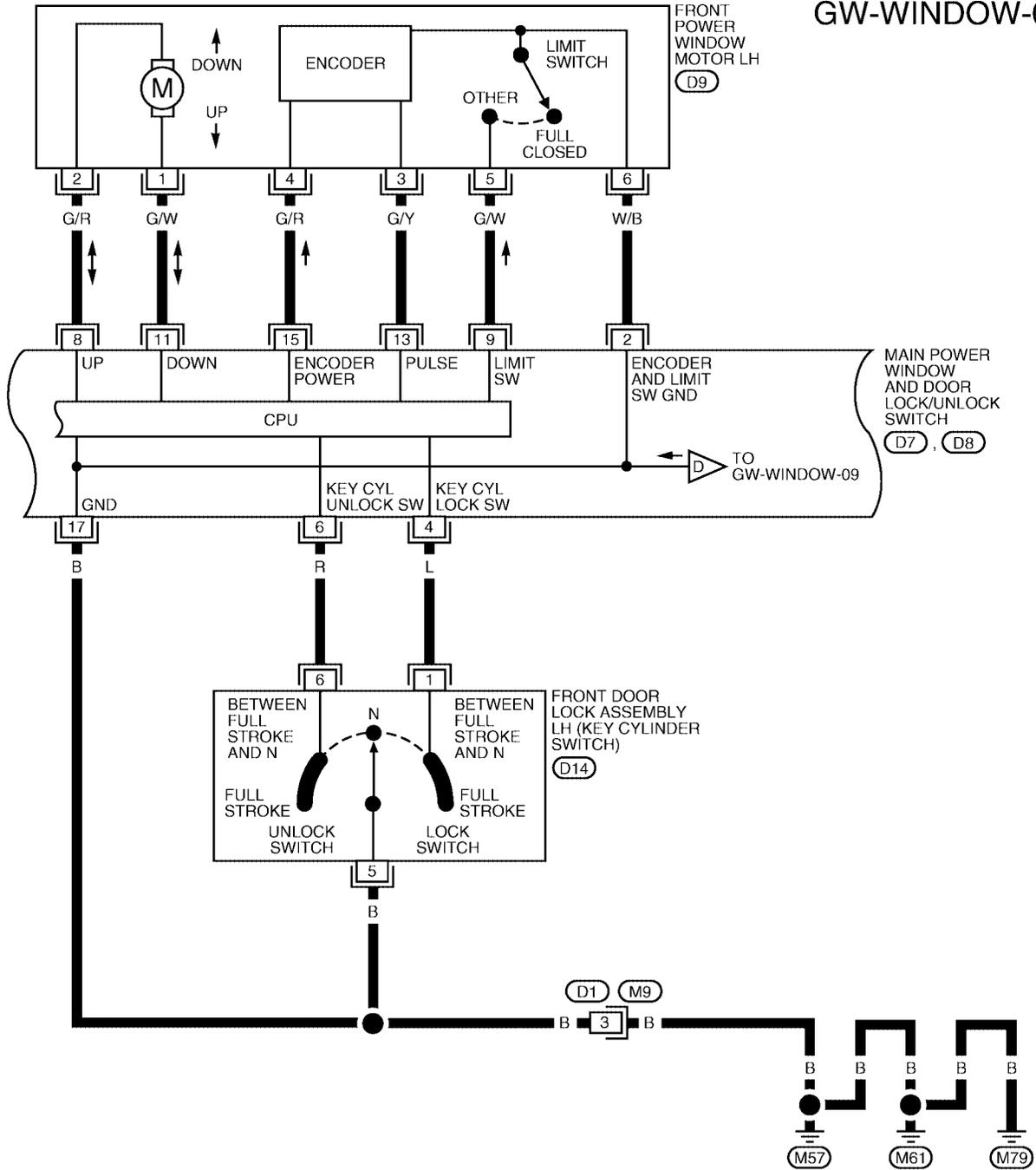


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POWER WINDOW SYSTEM

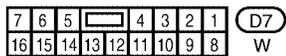
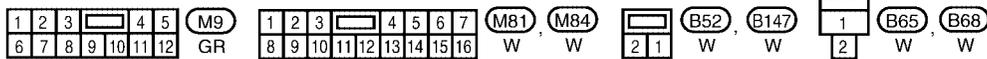
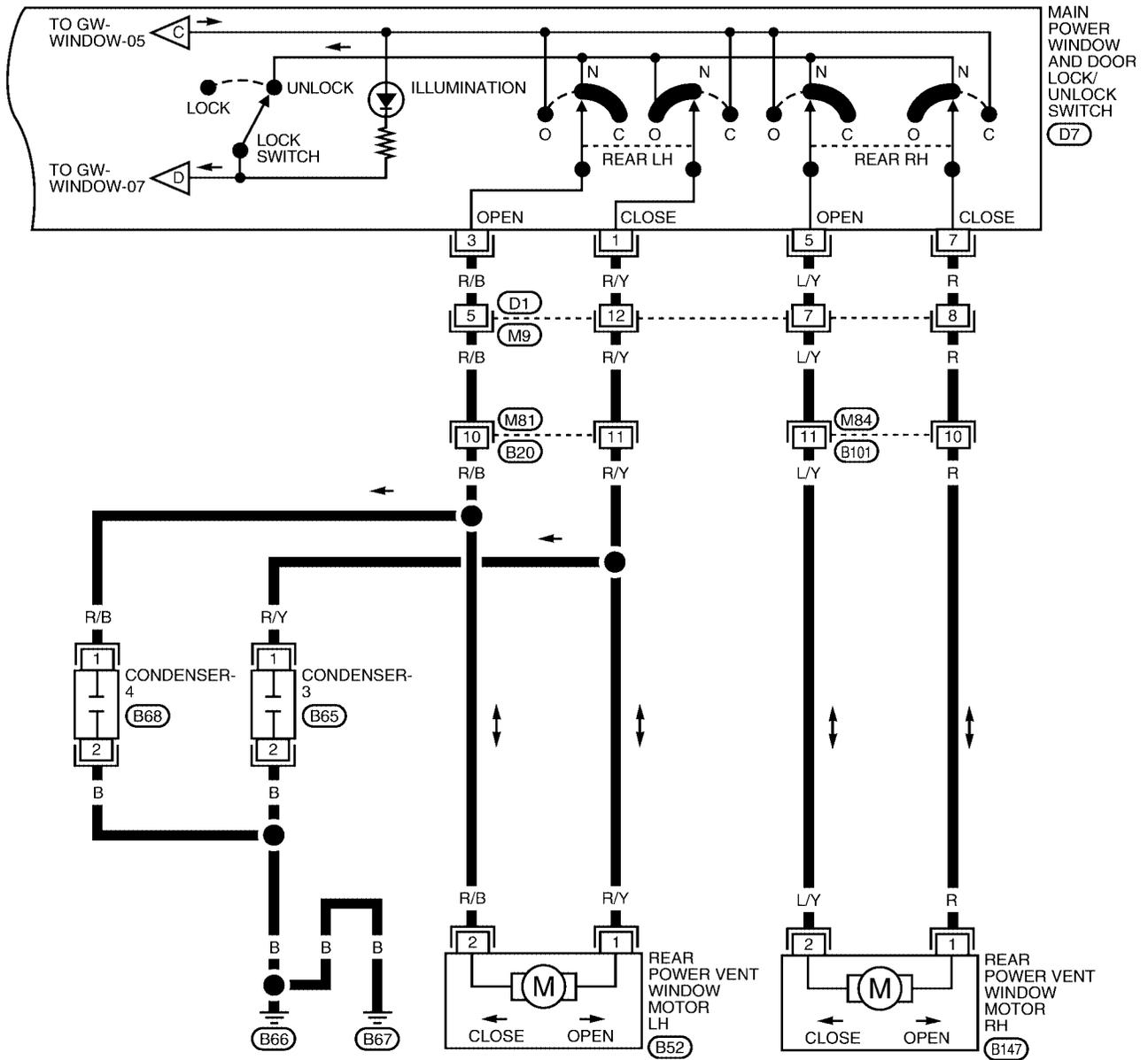
GW-WINDOW-07



WIWA0468E

POWER WINDOW SYSTEM

GW-WINDOW-09

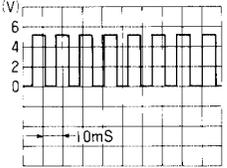
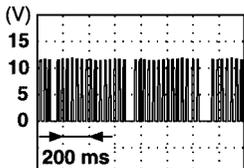


W1WA1032E

POWER WINDOW SYSTEM

Terminal and Reference Value for Main Power Window and Door Lock/Unlock Switch (With Rear Power Vent Windows)

EIS007HT

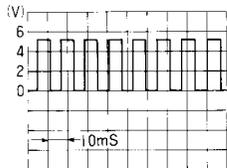
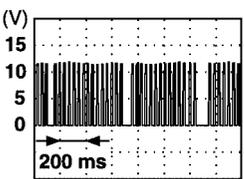
Terminal	Wire Color	Item	Condition	Voltage (V) (Approx.)
1	R/Y	Rear power vent window LH CLOSE signal	Rear LH switch in main power window and door lock/unlock switch is operated CLOSE	Battery voltage
2	W/B	Limit switch and encoder ground	—	0
3	R/B	Rear power vent window LH OPEN signal	Rear LH switch in main power window and door lock/unlock switch is operated OPEN	Battery voltage
4	L	Front door lock assembly LH (key cylinder switch) lock signal	Key position (Neutral → Locked)	5 → 0
5	L/Y	Rear power window vent OPEN signal	Rear RH switch in main power window and door lock/unlock switch is operated OPEN	Battery voltage
6	R	Front door lock assembly LH (key cylinder switch) unlock signal	Key position (Neutral → Unlocked)	5 → 0
7	R	Rear power window RH CLOSE signal	Rear RH switch in main power window and door lock/unlock switch is operated CLOSE	Battery voltage
8	G/R	Front power window motor LH UP signal	Front power window motor LH is operated UP	Battery voltage
9	G/W	Limit switch signal	Front door window LH is between fully-open and just before fully-closed position (ON)	0
			Front door window LH is between just before fully-closed position and fully-closed position (OFF)	5
10	W/L	RAP signal	Ignition switch ON	Battery voltage
			Within 45 seconds after ignition switch is turned to OFF	Battery voltage
			More than 45 seconds after ignition switch is turned to OFF	0
			Front door LH or RH open or power window timer operates	0
11	G/W	Front power window motor LH DOWN signal	Front power window motor LH is operated DOWN	Battery voltage
13	G/Y	Encoder pulse signal	Front power window motor LH operates	 <p style="text-align: right; font-size: small;">OCC3383D</p>
14	Y	Power window serial link	Ignition switch ON or power window timer operates	 <p style="text-align: right; font-size: small;">PIIA2344J</p>

POWER WINDOW SYSTEM

Terminal	Wire Color	Item	Condition	Voltage (V) (Approx.)
15	G/R	Encoder power supply	Ignition switch ON or power window timer operates	10
17	B	Ground	—	0
19	W/R	Battery power supply	—	Battery voltage

Terminal and Reference Value for Power Window and Door Lock/Unlock Switch RH (With Rear Power Vent Windows)

EIS007HU

Terminal	Wire Color	Item	Condition	Voltage (V) (Approx.)
3	W/B	Limit switch and encoder ground	—	0
4	G/R	Encoder power supply	Ignition switch ON or power window timer operates	10
8	L	Front power window motor RH UP signal	Front power window motor RH is operated UP	Battery voltage
9	G	Front power window motor RH DOWN signal	Front power window motor RH is operated DOWN	Battery voltage
10	W/R	Battery power supply	—	Battery voltage
11	B	Ground	—	0
12	G/Y	Encoder pulse signal	Front power window motor RH operates	 <p style="text-align: right;">OCC3383D</p>
15	G/W	Limit switch signal	Front door window RH is between fully-open and just before fully-closed position (ON)	0
			Front door window RH is between just before fully-closed position and fully-closed position (OFF)	5
16	Y/B	Power window serial link	Ignition switch is ON or power window timer operating	 <p style="text-align: right;">PIIA2344J</p>

POWER WINDOW SYSTEM

Terminal and Reference Value for BCM (With Rear Power Vent Windows)

EIS007HV

Terminal	Wire Color	Item	Condition	Voltage (V) (Approx.)
11	V	Ignition switch (ACC or ON)	Ignition switch (ACC or ON position)	Battery voltage
12	GR/L	Front door switch RH signal	ON (Open)	0
			OFF (Close)	Battery voltage
22	Y/B	BUS signal	Ignition switch ON or power window timer operates	
38	G	Ignition switch (ON or START)	Ignition switch (ON or START position)	Battery voltage
52	B/W	Ground	—	0
53	W/L	RAP signal	Ignition switch ON	Battery voltage
			Within 45 seconds after ignition switch is turned to OFF	Battery voltage
			More than 45 seconds after ignition switch is turned to OFF	0
			Front door LH or RH is open or power window timer operates	0
54	W/R	Power window power supply	—	Battery voltage
55	W/B	Battery power supply	—	Battery voltage
62	GR/R	Front door switch LH signal	ON (Open)	0
			OFF (Close)	Battery voltage

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GW

POWER WINDOW SYSTEM

EIS007HW

Work Flow

1. Check the symptom and customer's requests.
2. Understand the outline of system. Refer to [GW-17, "System Description"](#) .
3. According to the trouble diagnosis chart, repair or replace the cause of the malfunction.
Refer to [GW-40, "Symptom Chart \(Without Rear Power Vent Windows\)"](#) or [GW-41, "Symptom Chart \(With Rear Power Vent Windows\)"](#) .
4. Does power window system operate normally? Yes, GO TO 5, If No, GO TO 3.
5. Inspection End.

CONSULT-II Function (BCM)

EIS007HX

CONSULT-II can display each diagnostic item using the diagnostic test modes shown following.

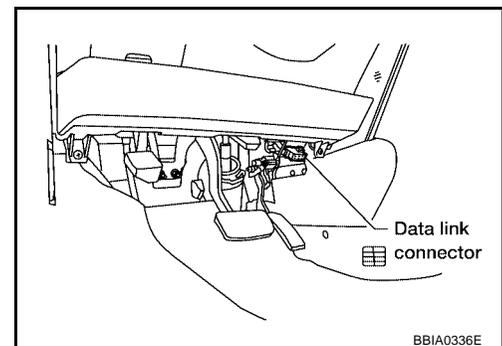
BCM diagnostic test item	Diagnostic mode	Content
Inspection by part	WORK SUPPORT	Changes setting of each function.
	DATA MONITOR	Displays BCM input/output data in real time.
	ACTIVE TEST	Operation of electrical loads can be checked by sending drive signal to them.
	SELF-DIAG RESULTS	Displays BCM self-diagnosis results.
	CAN DIAG SUPPORT MNTR	The results of transmit/receive diagnosis of CAN communication can be read.
	ECU PART NUMBER	BCM part number can be read.
	CONFIGURATION	Performs BCM configuration read/write functions.

CONSULT-II INSPECTION PROCEDURE

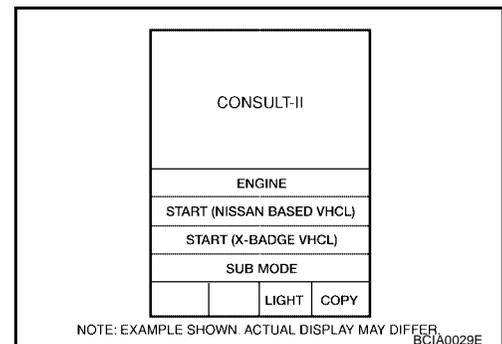
CAUTION:

If CONSULT-II is used with no connection of CONSULT-II CONVERTER, malfunctions might be detected in self-diagnosis depending on control unit which carries out CAN communication.

1. Connect CONSULT-II and CONSULT-II CONVERTER to the data link connector.
2. Turn ignition switch ON.

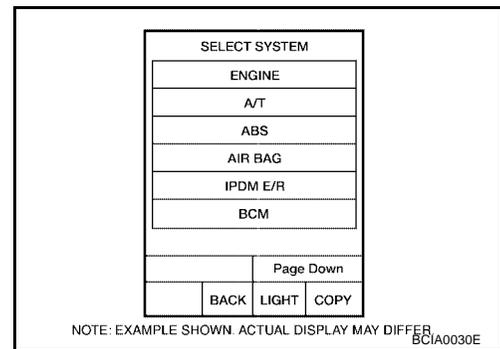


3. Touch "START (NISSAN BASED VHCL)".

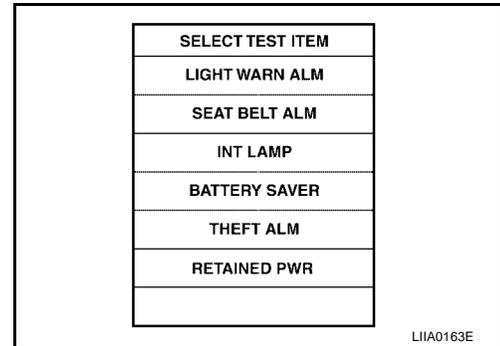


POWER WINDOW SYSTEM

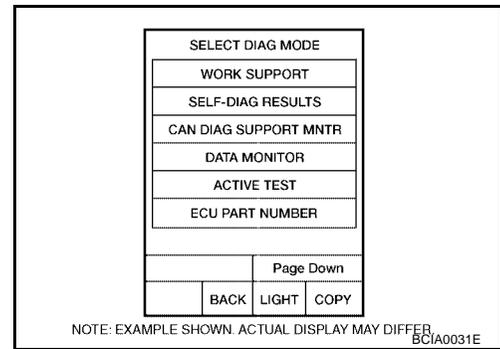
4. Touch "BCM".
If "BCM" is not indicated, refer to [GI-38, "CONSULT-II Data Link Connector \(DLC\) Circuit"](#) .



5. Touch "RETAINED PWR".



6. Select diagnosis mode.
"ACTIVE TEST", "WORK SUPPORT" and "DATA MONITOR" are available.



ACTIVE TEST

Test Item	Description
RETAINED PWR	<p>This test is able to supply RAP signal (power) from BCM (body control module) to power window system and power sunroof system (if equipped). Those systems can be operated when turning on "RETAINED PWR" on CONSULT-II screen even if the ignition switch is turned OFF.</p> <p>NOTE: During this test, CONSULT-II can be operated with ignition switch in OFF position. "RETAINED PWR" should be turned "ON" or "OFF" on CONSULT-II screen when ignition switch is ON. Then turn ignition switch OFF to check retained power operation. CONSULT-II might be stuck if "RETAINED PWR" is turned "ON" or "OFF" on CONSULT-II screen when ignition switch is OFF.</p>

WORK SUPPORT

Work item	Description
RETAINED PWR	<p>RAP signal's power supply period can be changed by mode setting. Selects RAP signal's power supply period between three steps</p> <ul style="list-style-type: none"> ● MODE1 (45 sec.) / MODE2 (OFF) / MODE 3 (2 min.).

DATA MONITOR

Work item	Description
IGN ON SW	Indicates (ON/OFF) condition of ignition switch

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GW

POWER WINDOW SYSTEM

DOOR SW-DR	Indicates (ON / OFF) condition of front door switch driver side
DOOR SW-AS	Indicates (ON / OFF) condition of front door switch passenger side

Symptom Chart (Without Rear Power Vent Windows)

EIS007HY

- Check that other systems using the signal of the following systems operate normally.

Symptom	Repair order	Refer to page
None of the power windows can be operated using any switch	1. BCM power supply and ground circuit check	GW-42
	2. Main power window and door lock/unlock supply and ground circuit check	GW-42
	3. Power window serial link check	GW-74
Front power window LH alone does not operate	1. Front power window motor LH circuit check	GW-46
	2. Replace main power window and door lock/unlock switch	EI-29
Front power window RH alone does not operate	1. Power window and door lock/unlock switch RH power and ground circuit check	GW-44
	2. Power window serial link check	GW-74
	3. Front power window motor RH circuit check	GW-46
	4. Replace BCM	BCS-20
Anti-pinch system does not operate normally (Front LH)	1. Door window sliding part malfunction ● A foreign material adheres to window glass or glass run rubber. ● Glass run rubber wear or deformation. ● Sash is tilted too much, or not enough.	—
	2. Limit switch adjusting	GW-85
	3. Limit switch circuit check LH	GW-48
	4. Encoder circuit check LH	GW-58
Anti-pinch system does not operate normally (Front RH)	1. Door window sliding part malfunction ● A foreign material adheres to window glass or glass run rubber. ● Glass run rubber wear or deformation. ● Sash is tilted too much, or not enough.	—
	2. Limit switch adjusting	GW-85
	3. Limit switch circuit check RH	GW-53
	4. Encoder circuit check RH	GW-63
Power window retained power operation does not operate properly	1. Check the retained power operation mode setting.	GW-39
	2. Door switch check	GW-68
	3. Replace BCM.	BCS-20
Front power windows do not operate by front door lock assembly LH (key cylinder switch)	1. Front door lock assembly LH (key cylinder switch) check	GW-70
	2. Replace main power window and door lock/unlock switch	EI-29
Power window lock switch does not function	1. Power window lock switch circuit check	GW-74

POWER WINDOW SYSTEM

Symptom Chart (With Rear Power Vent Windows)

EIS007HZ

- Check that other systems using the signal of the following systems operate normally.

Symptom	Repair order	Refer to page
None of the power windows can be operated using any switch	1. BCM power supply and ground circuit check	GW-42
	2. Main power window and door lock/unlock supply and ground circuit check	GW-43
	3. Power window serial link check	GW-74
Front power window LH alone does not operate	1. Front power window motor LH circuit check	GW-46
	2. Replace main power window and door lock/unlock switch	EI-29
Front power window RH alone does not operate	1. Power window and door lock/unlock switch RH power and ground circuit check	GW-44
	2. Power window serial link check	GW-77
	3. Front power window motor RH circuit check	GW-46
	4. Replace BCM	BCS-20
Rear power vent window LH alone does not operate	1. Rear power vent window motor LH circuit check	GW-79
Rear power vent window RH alone does not operate	1. Rear power vent window motor RH circuit check	GW-80
Anti-pinch system does not operate normally (Front LH)	1. Door window sliding part malfunction ● A foreign material adheres to window glass or glass run rubber. ● Glass run rubber wear or deformation. ● Sash is tilted too much, or not enough.	—
	2. Limit switch adjusting	GW-85
	3. Limit switch circuit check LH	GW-50
	4. Encoder circuit check LH	GW-58
Anti-pinch system does not operate normally (Front RH)	1. Door window sliding part malfunction ● A foreign material adheres to window glass or glass run rubber. ● Glass run rubber wear or deformation. ● Sash is tilted too much, or not enough.	—
	2. Limit switch adjusting	GW-85
	3. Limit switch circuit check RH	GW-53
	4. Encoder circuit check RH	GW-63
Power window retained power operation does not operate properly	1. Check the retained power operation mode setting.	GW-39
	2. Door switch check	GW-68
	3. Replace BCM.	BCS-20
Front power windows do not operate by front door lock assembly LH (key cylinder switch)	1. Front door lock assembly LH (key cylinder switch) check	GW-72
	2. Replace main power window and door lock/unlock switch	EI-29
Power window lock switch does not function	1. Power window lock switch circuit check	GW-77

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POWER WINDOW SYSTEM

EIS00710

BCM Power Supply and Ground Circuit Check

1. CHECK FUSE AND FUSIBLE LINK

Check 50A fusible link (letter j , located in the fuse and fusible link box).
Check 10A fuse [No.16, located in fuse block (J/B)].

NOTE:

Refer to [GW-17, "Component Parts and Harness Connector Location"](#) .

OK or NG

OK >> GO TO 2.

NG >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse. Refer to [PG-3, "PRECAUTIONS"](#) .

2. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch ON.
2. Check voltage between BCM connector M18, M19 terminals 38, 55 and ground.

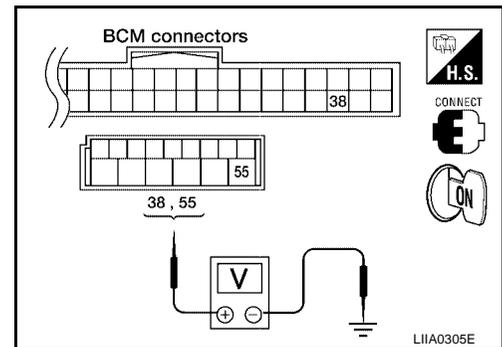
38 - Ground : Battery voltage

55 - Ground : Battery voltage

OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.



3. CHECK GROUND CIRCUIT

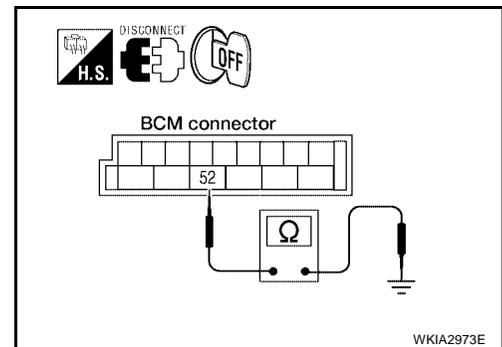
1. Turn ignition switch OFF.
2. Disconnect BCM.
3. Check continuity between BCM connector M19 terminal 52 and ground.

52 - Ground : Continuity should exist.

OK or NG

OK >> Power supply and ground circuits are OK.

NG >> Repair or replace harness.



Main Power Window and Door Lock/Unlock Switch Power Supply Circuit Check (Without Rear Power Vent Windows)

EIS00711

1. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch ON.
2. Check voltage between main power window and door lock/unlock switch connector D7 terminals 1, 10 and ground.

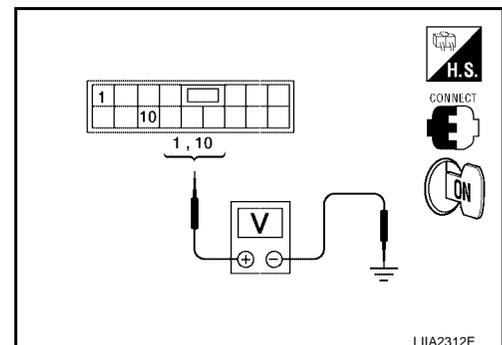
10 - Ground : Battery voltage

1 - Ground : Battery voltage

OK or NG

OK >> GO TO 2.

NG >> Repair or replace harness.



POWER WINDOW SYSTEM

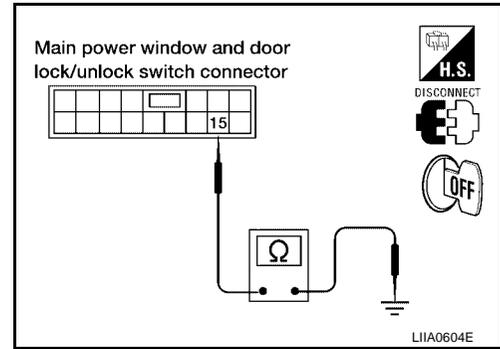
2. CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch.
3. Check continuity between main power window and door lock/unlock switch connector D7 terminal 15 and ground.

15 - Ground : Continuity should exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair or replace harness.



3. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH POWER SUPPLY CIRCUIT

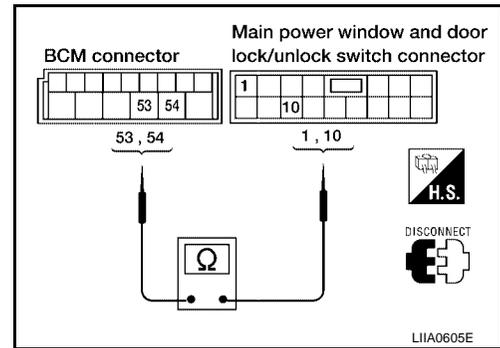
1. Disconnect BCM.
2. Check continuity between BCM connector M19 terminals 53, 54 and main power window and door lock/unlock switch connector D7 terminals 1, 10.

53 - 10 : Continuity should exist.

54 - 1 : Continuity should exist.

OK or NG

- OK >> GO TO 4.
 NG >> Repair or replace harness.



4. CHECK BCM OUTPUT SIGNAL

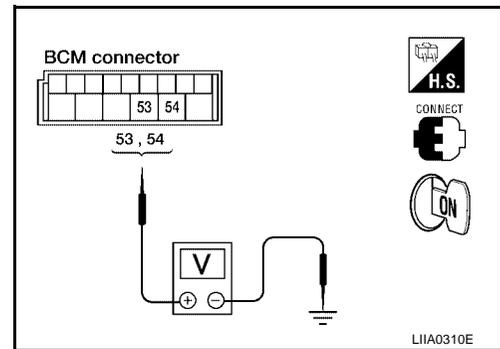
1. Connect BCM.
2. Turn ignition switch ON.
3. Check voltage between BCM connector M19 terminals 53, 54 and ground.

53 - Ground : Battery voltage

54 - Ground : Battery voltage

OK or NG

- OK >> Check the condition of the harness and the connector.
 NG >> Replace BCM. Refer to [BCS-20, "Removal and Installation of BCM"](#).



Main Power Window and Door Lock/Unlock Switch Power Supply Circuit Check (With Rear Power Vent Windows)

EIS00712

1. CHECK POWER SUPPLY CIRCUIT

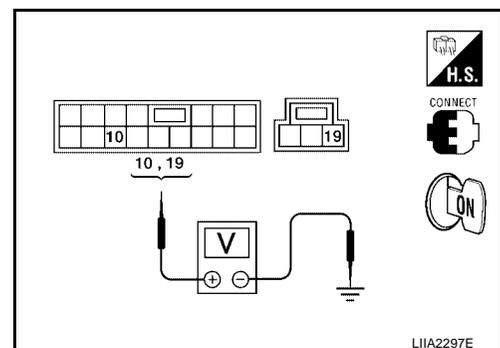
1. Turn ignition switch ON.
2. Check voltage between main power window and door lock/unlock switch connector D7 terminal 10, D8 terminal 19 and ground.

10 - Ground : Battery voltage

19 - Ground : Battery voltage

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace harness.



POWER WINDOW SYSTEM

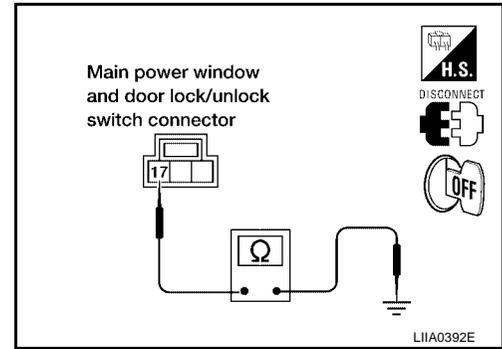
2. CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch.
3. Check continuity between main power window and door lock/unlock switch connector D8 terminal 17 and ground.

17 - Ground : Continuity should exist.

OK or NG

- OK >> GO TO 3.
NG >> Repair or replace harness.



3. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH POWER SUPPLY CIRCUIT

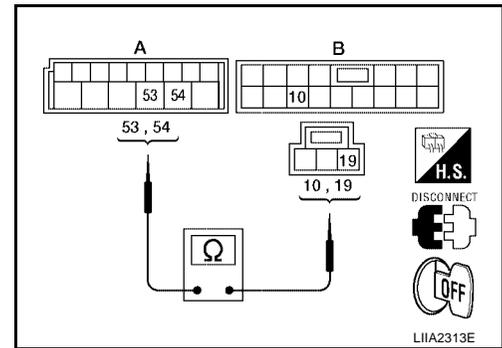
1. Disconnect BCM.
2. Check continuity between BCM connector (A) M19 terminals 53, 54 and main power window and door lock/unlock switch connectors (B) D7 terminal 10 and D8 terminal 19.

53 - 10 : Continuity should exist.

54 - 19 : Continuity should exist.

OK or NG

- OK >> GO TO 4.
NG >> Repair or replace harness.



4. CHECK BCM OUTPUT SIGNAL

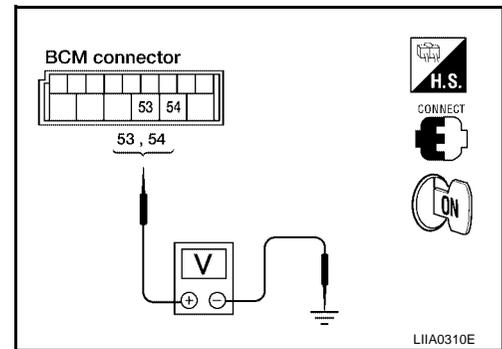
1. Connect BCM.
2. Turn ignition switch ON.
3. Check voltage between BCM connector M19 terminals 53, 54 and ground.

53 - Ground : Battery voltage

54 - Ground : Battery voltage

OK or NG

- OK >> Check the condition of the harness and the connector.
NG >> Replace BCM. Refer to [BCS-20, "Removal and Installation of BCM"](#).



Power Window and Door Lock/Unlock Switch RH Power Supply and Ground Circuit Check

EIS00713

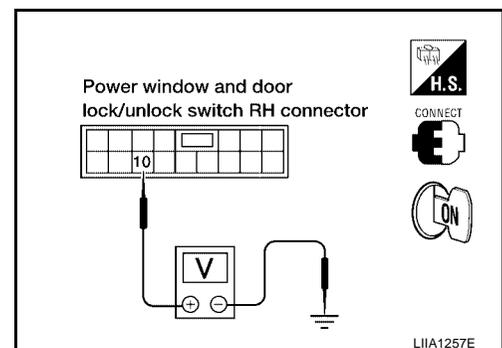
1. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch ON.
2. Check voltage between power window and door lock/unlock switch RH connector D105 terminal 10 and ground.

10 - Ground : Battery voltage

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace harness.



POWER WINDOW SYSTEM

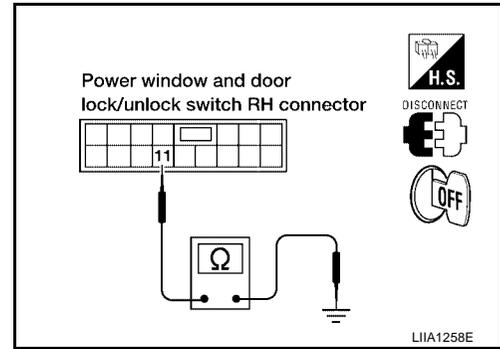
2. CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect power window and door lock/unlock switch RH.
3. Check continuity between power window and door lock/unlock switch RH connector D105 terminal 11 and ground.

11 - Ground : Continuity should exist.

OK or NG

- OK >> GO TO 3.
NG >> Repair or replace harness.



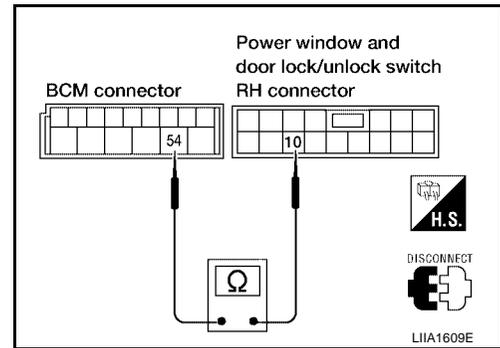
3. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH POWER SUPPLY CIRCUIT

1. Disconnect BCM.
2. Check continuity between BCM connector M19 terminal 54 and power window and door lock/unlock switch RH connector D105 terminal 10.

54 - 10 : Continuity should exist.

OK or NG

- OK >> GO TO 4.
NG >> Repair or replace harness.



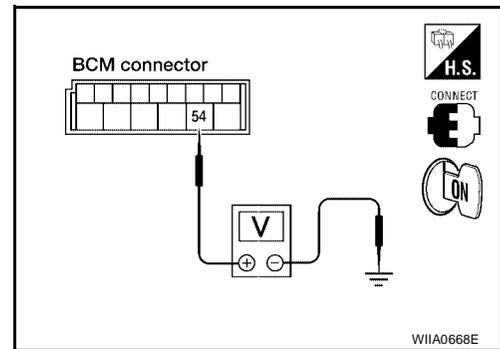
4. CHECK BCM OUTPUT SIGNAL

1. Connect BCM.
2. Turn ignition switch ON.
3. Check voltage between BCM connector M19 terminal 54 and ground.

54 - Ground : Battery voltage

OK or NG

- OK >> Check the condition of the harness and the connector
NG >> Replace BCM. Refer to [BCS-20, "Removal and Installation of BCM"](#) .



POWER WINDOW SYSTEM

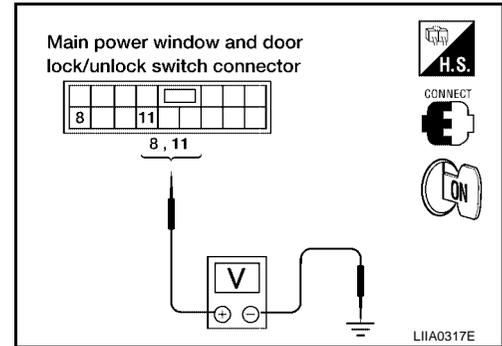
EIS00714

Front Power Window Motor LH Circuit Check

1. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between main power window and door lock/unlock switch connector D7 terminals 8, 11 and ground.

Connector	Terminals		Condition	Voltage (V) (Approx.)
	(+)	(-)		
D7	8	Ground	Closing	Battery voltage
			Opening	0
	11		Closing	0
			Opening	Battery voltage



OK or NG

OK >> GO TO 2.

NG >> Replace main power window and door lock/unlock switch. Refer to [EI-29, "FRONT DOOR"](#) .

2. CHECK POWER WINDOW MOTOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch and front power window motor LH.
3. Check continuity between main power window and door lock/unlock switch connector D7 terminals 8, 11 and front power window motor LH connector D9 terminals 1, 2.

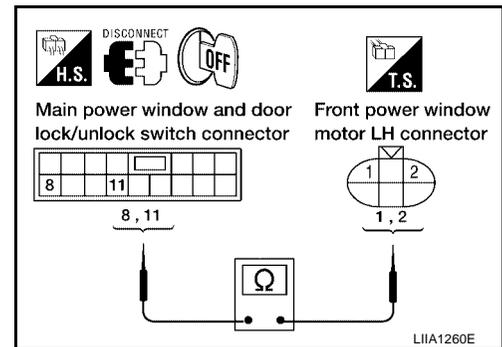
8 - 2 : Continuity should exist.

11 - 1 : Continuity should exist.

OK or NG

OK >> Replace front power window motor LH. Refer to [GW-82, "Removal and Installation"](#) .

NG >> Repair or replace harness.



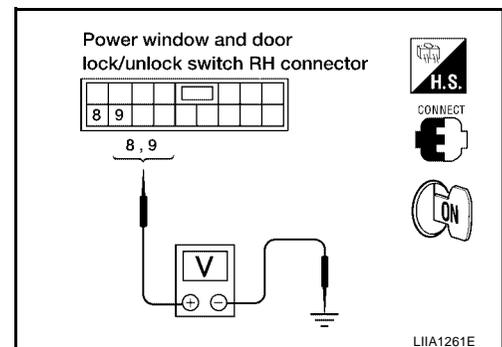
Front Power Window Motor RH Circuit Check (Without Rear Power Vent Windows)

EIS00715

1. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH OUTPUT SIGNAL

1. Connect power window and door lock/unlock switch RH.
2. Turn ignition switch ON.
3. Check voltage between power window and door lock/unlock switch RH connector D105 terminals 8, 9 and ground.

Connector	Terminals		Condition	Voltage (V) (Approx.)
	(+)	(-)		
D105	8	Ground	Closing	Battery voltage
			Opening	0
	9		Closing	0
			Opening	Battery voltage



OK or NG

OK >> GO TO 2.

NG >> Replace power window and door lock/unlock switch RH. Refer to [EI-29, "FRONT DOOR"](#) .

POWER WINDOW SYSTEM

2. CHECK FRONT POWER WINDOW MOTOR RH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front power window motor RH and power window and door lock/unlock switch RH.
3. Check continuity between power window and door lock/unlock switch RH connector D105 terminals 8, 9 and front power window motor RH connector D104 terminals 1, 3.

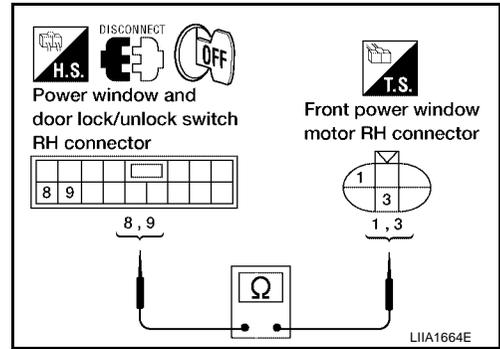
8 - 3 : Continuity should exist.

9 - 1 : Continuity should exist.

OK or NG

OK >> Replace front power window motor RH. Refer to [GW-82, "Removal and Installation"](#).

NG >> Repair or replace harness.



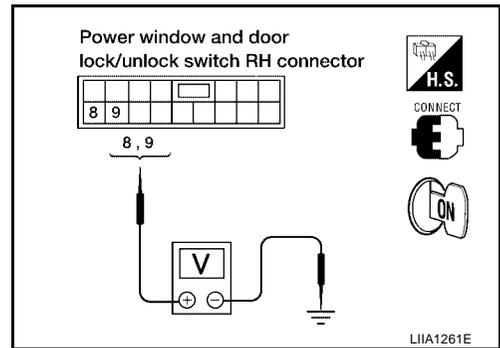
Front Power Window Motor RH Circuit Check (With Rear Power Vent Windows)

EIS007WQ

1. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH OUTPUT SIGNAL

1. Connect power window and door lock/unlock switch RH.
2. Turn ignition switch ON.
3. Check voltage between power window and door lock/unlock switch RH connector D105 terminals 8, 9 and ground.

Connector	Terminals		Condition	Voltage (V) (Approx.)
	(+)	(-)		
D105	8	Ground	Closing	Battery voltage
			Opening	0
	9		Closing	0
			Opening	Battery voltage



OK or NG

OK >> GO TO 2.

NG >> Replace power window and door lock/unlock switch RH. Refer to [EI-29, "FRONT DOOR"](#).

2. CHECK FRONT POWER WINDOW MOTOR RH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front power window motor RH and power window and door lock/unlock switch RH.
3. Check continuity between power window and door lock/unlock switch RH (A) connector D105 terminals 8, 9 and front power window motor RH (B) connector D104 terminals 1, 2.

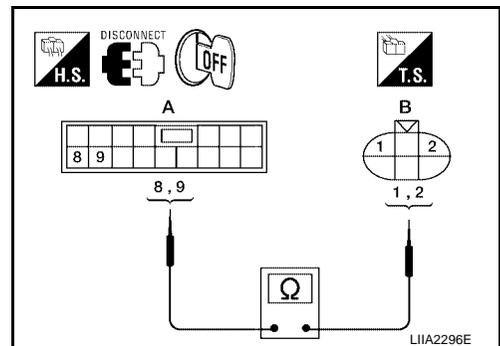
8 - 2 : Continuity should exist.

9 - 1 : Continuity should exist.

OK or NG

OK >> Replace front power window motor RH. Refer to [GW-82, "Removal and Installation"](#).

NG >> Repair or replace harness.



POWER WINDOW SYSTEM

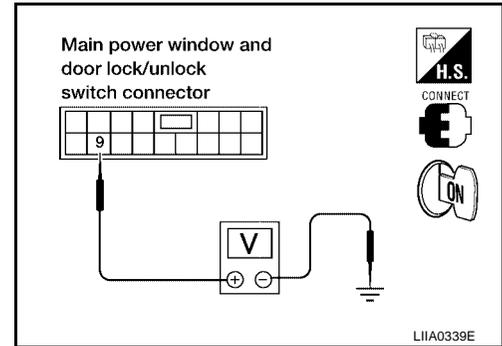
Limit Switch Circuit Check Front LH (Without Rear Power Vent Windows)

EIS00716

1. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH LIMIT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between main power window and door lock/unlock switch connector D7 terminal 9 and ground.

Connector	Terminals		Condition	Voltage (V) (Approx.)
	(+)	(-)		
D7	9	Ground	Front door window LH is between fully-open and just before fully-closed position (ON)	0
			Front door window LH is between just before fully-closed position and fully-closed position (OFF)	5



OK or NG

- OK >> Limit switch circuit is OK.
 NG >> GO TO 2.

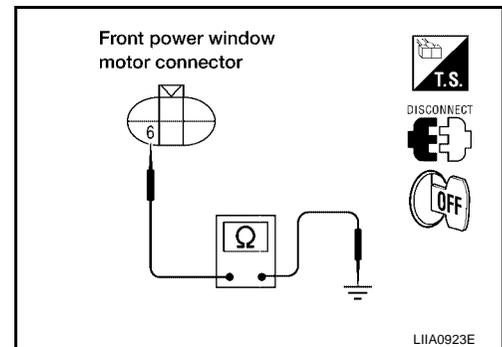
2. CHECK LIMIT SWITCH GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front power window motor LH.
3. Check continuity between front power window motor LH connector D9 terminal 6 and ground.

6 - Ground : Continuity should exist.

OK or NG

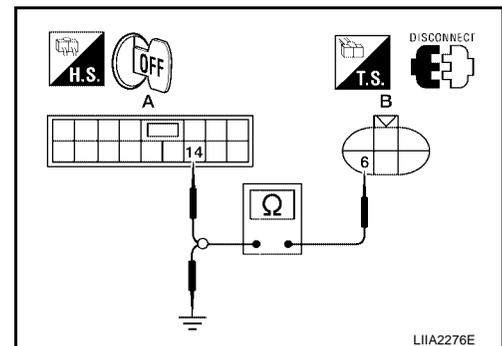
- OK >> Replace front power window motor LH. Refer to [GW-82](#), "[Removal and Installation](#)".
 NG >> GO TO 3.



3. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch.
3. Check continuity between main power window and door lock/unlock switch connector and front power window motor LH connector.

Connector	Terminal	Connector	Terminal	Continuity
A		B		
Main power window and door lock/unlock switch: D7	14	Front power window motor LH: D9	6	Yes



4. Check continuity between front power window motor LH connector and ground.

Connector	Terminal	Ground	Continuity
B			
Front power window motor LH: D9	6	Ground	No

OK or NG

- OK >> GO TO 4.
 NG >> Repair or replace harness.

POWER WINDOW SYSTEM

4. CHECK HARNESS CONTINUITY

1. Check continuity between main power window and door lock/unlock switch connector and front power window motor LH connector.

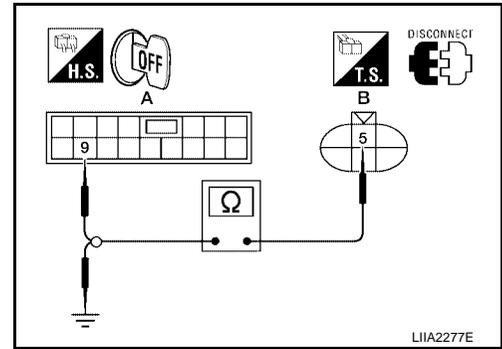
Connector	Terminal	Connector	Terminal	Continuity
A		B		
Main power window and door lock/unlock switch: D7	9	Front power window motor LH: D9	5	Yes

2. Check continuity between front power window motor LH connector and ground.

Connector	Terminal	Ground	Continuity
B			
Front power window motor LH: D9	5		No

OK or NG

- OK >> GO TO 5.
- NG >> Repair or replace harness.



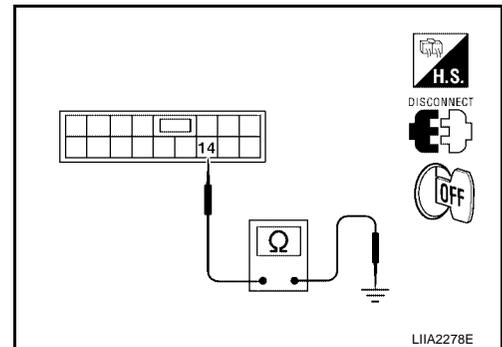
5. CHECK LIMIT SWITCH GROUND

Check continuity between main power window and door lock/unlock switch connector and ground.

Connector	Terminal	Ground	Continuity
Main power window door lock/unlock switch: D7	14		Yes

OK or NG

- OK >> GO TO 7.
- NG >> GO TO 6.



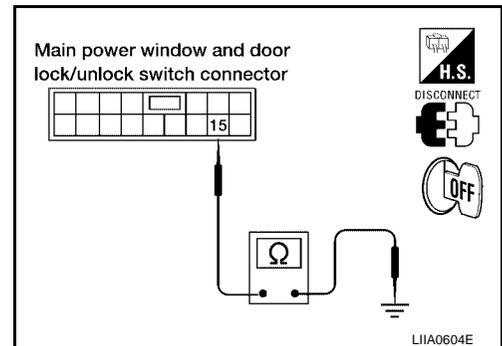
6. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH GROUND CIRCUIT

Check continuity between main power window and door lock/unlock switch connector D7 terminal 15 and ground.

15 - Ground : Continuity should exist.

OK or NG

- OK >> Replace main power window and door lock/unlock switch. Refer to [EI-29, "FRONT DOOR"](#).
- NG >> Repair or replace harness.

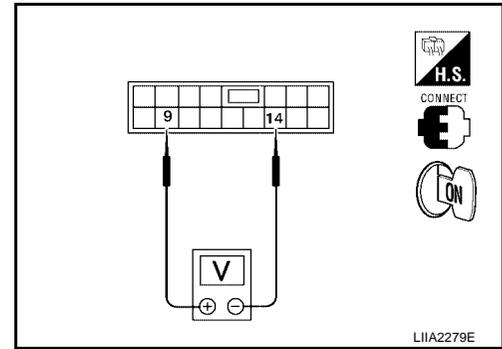


POWER WINDOW SYSTEM

7. CHECK FRONT POWER WINDOW MOTOR LH LIMIT SIGNAL

1. Connect main power window and door lock/unlock switch and front power window motor LH.
2. Turn ignition switch ON.
3. Check voltage between main power window and door lock/unlock switch connector.

Connector	Terminals		Condition	Voltage (V) (Approx.)
	(+)	(-)		
Main power window and door lock/unlock switch: D7	9	14	Front door window LH is between fully-open and just before fully-closed position (ON)	0
			Front door window LH is between just before fully-closed position and fully-closed position (OFF)	5



OK or NG

- OK >> Check the condition of the harness and connector.
 NG >> Replace front power window motor LH. Refer to [GW-82, "Removal and Installation"](#).

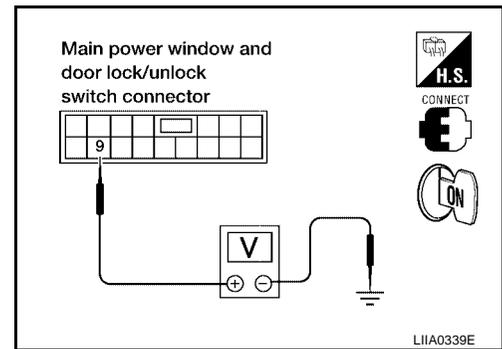
Limit Switch Circuit Check Front LH (With Rear Power Vent Windows)

EIS00717

1. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH LIMIT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between main power window and door lock/unlock switch connector D7 terminal 9 and ground.

Connector	Terminals		Condition	Voltage (V) (Approx.)
	(+)	(-)		
D7	9	Ground	Front door window LH is between fully-open and just before fully-closed position (ON)	0
			Front door window LH is between just before fully-closed position and fully-closed position (OFF)	5



OK or NG

- OK >> Limit switch circuit is OK.
 NG >> GO TO 2.

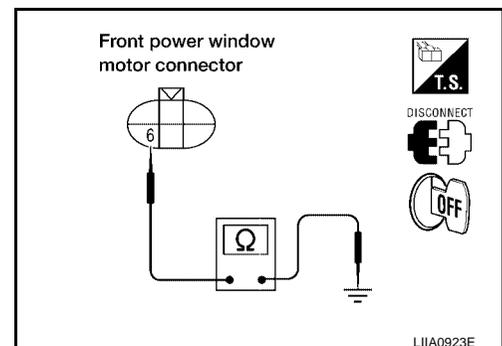
2. CHECK LIMIT SWITCH GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front power window motor LH.
3. Check continuity between front power window motor LH connector D9 terminal 6 and ground.

6 - Ground : Continuity should exist.

OK or NG

- OK >> Replace front power window motor LH. Refer to [GW-82, "Removal and Installation"](#).
 NG >> GO TO 3.

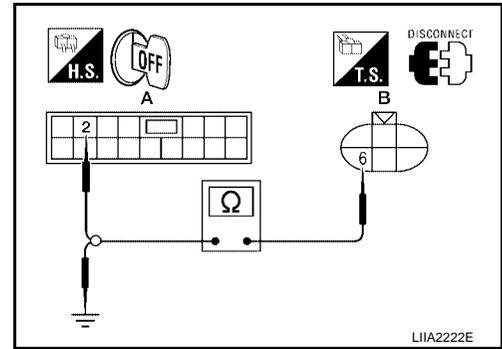


POWER WINDOW SYSTEM

3. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch.
3. Check continuity between main power window and door lock/unlock switch connector and front power window motor LH connector.

Connector	Terminal	Connector	Terminal	Continuity
A		B		
Main power window and door lock/unlock switch: D7	2	Front power window motor LH: D9	6	Yes



4. Check continuity between front power window motor LH connector and ground.

Connector	Terminal	Ground	Continuity
B			
Front power window motor LH: D9	6	Ground	No

OK or NG

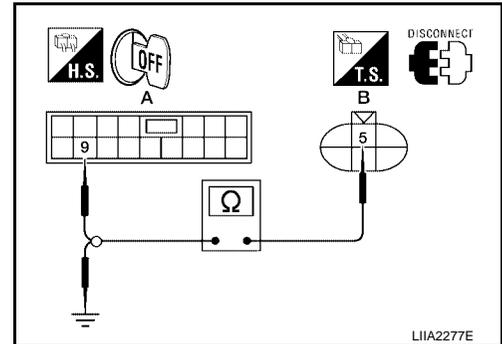
OK >> GO TO 4.

NG >> Repair or replace harness.

4. CHECK HARNESS CONTINUITY

1. Check continuity between main power window and door lock/unlock switch connector and front power window motor LH connector.

Connector	Terminal	Connector	Terminal	Continuity
A		B		
Main power window and door lock/unlock switch: D7	9	Front power window motor LH: D9	5	Yes



2. Check continuity between front power window motor LH connector and ground.

Connector	Terminal	Ground	Continuity
B			
Front power window motor LH: D9	5	Ground	No

OK or NG

OK >> GO TO 5.

NG >> Repair or replace harness.

POWER WINDOW SYSTEM

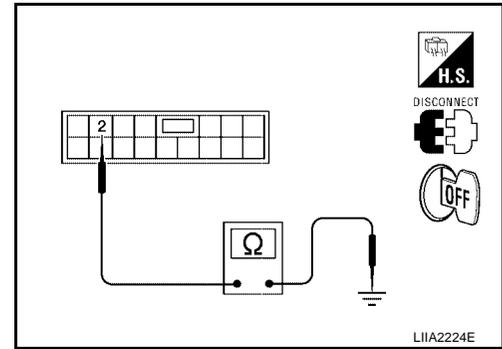
5. CHECK LIMIT SWITCH GROUND

Check continuity between main power window and door lock/unlock switch connector and ground.

Connector	Terminal	Ground	Continuity
Main power window door lock/unlock switch: D7	2	Ground	Yes

OK or NG

- OK >> GO TO 7.
 NG >> GO TO 6.



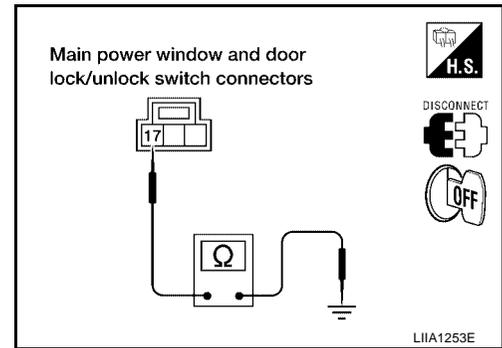
6. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH GROUND CIRCUIT

Check continuity between main power window and door lock/unlock switch connector D8 terminal 17 and ground.

17 - Ground : Continuity should exist.

OK or NG

- OK >> Replace main power window and door lock/unlock switch. Refer to [EI-29, "FRONT DOOR"](#) .
 NG >> Repair or replace harness.



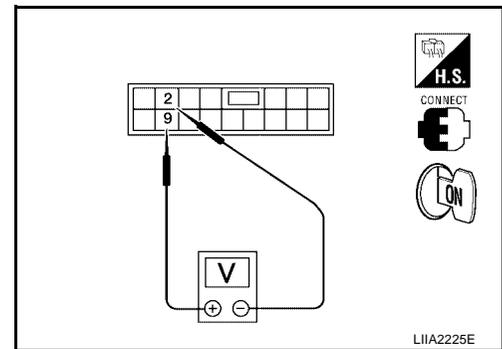
7. CHECK FRONT POWER WINDOW MOTOR LH LIMIT SIGNAL

1. Connect main power window and door lock/unlock switch and front power window motor LH.
2. Turn ignition switch ON.
3. Check voltage between main power window and door lock/unlock switch connector.

Connector	Terminals		Condition	Voltage (V) (Approx.)
	(+)	(-)		
Main power window and door lock/unlock switch: D7	9	2	Front door window LH is between fully-open and just before fully-closed position (ON)	0
			Front door window LH is between just before fully-closed position and fully-closed position (OFF)	5

OK or NG

- OK >> Check the condition of the harness and connector.
 NG >> Replace front power window motor LH. Refer to [GW-82, "Removal and Installation"](#) .



POWER WINDOW SYSTEM

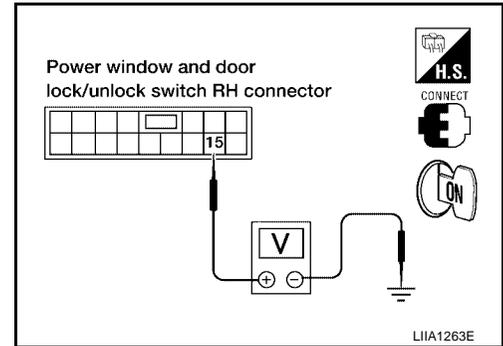
Limit Switch Circuit Check Front RH (Without Rear Power Vent Windows)

EIS00718

1. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH LIMIT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between power window motor RH connector D105 terminal 15 and ground.

Connector	Terminals		Condition	Voltage (V) (Approx.)
	(+)	(-)		
D105	15	Ground	Front door window RH is between fully-open and just before fully-closed position (ON)	0
			Front door window RH is between just before fully-closed position and fully-closed position (OFF)	5



OK or NG

- OK >> Limit switch circuit is OK.
 NG >> GO TO 2.

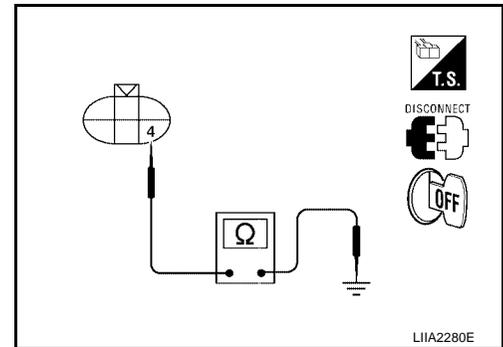
2. CHECK LIMIT SWITCH GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front power window motor RH.
3. Check continuity between front power window motor RH connector D104 terminal 4 and ground.

4 - Ground : Continuity should exist.

OK or NG

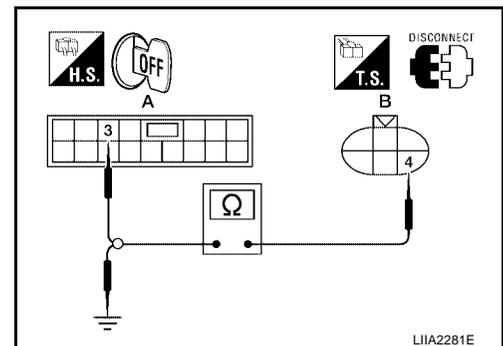
- OK >> Replace front power window motor RH. Refer to [GW-82, "Removal and Installation"](#) .
 NG >> GO TO 3.



3. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect power window and door lock/unlock switch RH.
3. Check continuity between power window and door lock/unlock switch RH connector and front power window motor RH connector.

Connector	Terminal	Connector	Terminal	Continuity
A		B		
Power window and door lock/unlock switch RH: D105	3	Front power window motor RH: D104	4	Yes



4. Check continuity between front power window motor RH connector and ground.

Connector	Terminal	Ground	Continuity
B			
Front power window motor RH: D104	4	Ground	No

OK or NG

- OK >> GO TO 4.
 NG >> Repair or replace harness.

POWER WINDOW SYSTEM

4. CHECK HARNESS CONTINUITY

1. Check continuity between power window and door lock/unlock switch RH connector and front power window motor RH connector.

Connector	Terminal	Connector	Terminal	Continuity
A		B		
Power window and door lock/unlock switch RH: D105	15	Front power window motor RH: D104	2	Yes

2. Check continuity between front power window motor RH connector and ground.

Connector	Terminal	Ground	Continuity
B			
Front power window motor RH: D104	2		No

OK or NG

- OK >> GO TO 5.
- NG >> Repair or replace harness.

5. CHECK LIMIT SWITCH GROUND

Check continuity between power window and door lock/unlock switch RH connector and ground.

Connector	Terminal	Ground	Continuity
Power window door lock/unlock switch RH: D105	3		Yes

OK or NG

- OK >> GO TO 7.
- NG >> GO TO 6.

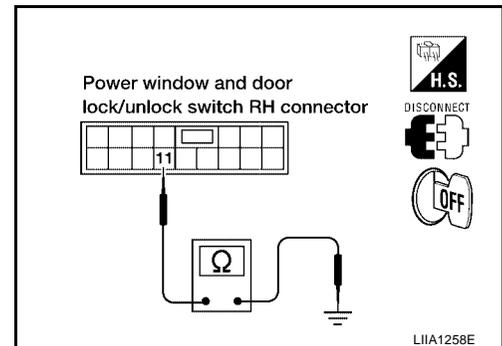
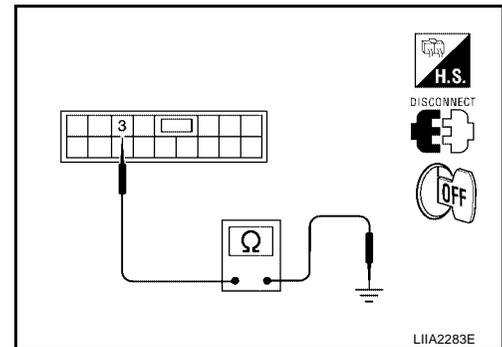
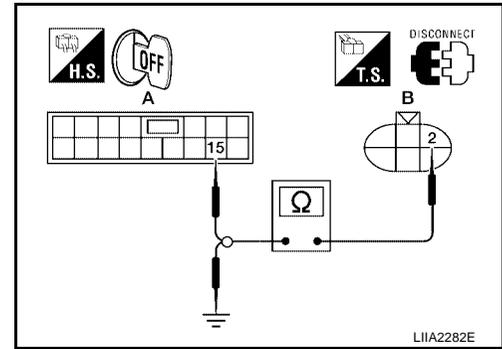
6. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH GROUND CIRCUIT

Check continuity between power window and door lock/unlock switch RH connector D105 terminal 11 and ground.

11 - Ground : Continuity should exist.

OK or NG

- OK >> Replace power window and door lock/unlock switch RH. Refer to [EI-29, "FRONT DOOR"](#).
- NG >> Repair or replace harness.

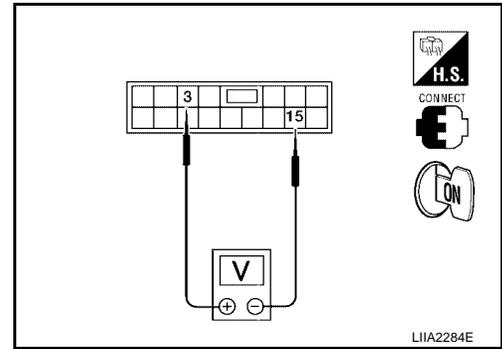


POWER WINDOW SYSTEM

7. CHECK FRONT POWER WINDOW MOTOR RH LIMIT SIGNAL

1. Connect power window and door lock/unlock switch RH and front power window motor RH.
2. Turn ignition switch ON.
3. Check voltage between power window and door lock/unlock switch RH connector.

Connector	Terminals		Condition	Voltage (V) (Approx.)
	(+)	(-)		
Power window and door lock/unlock switch RH: D105	15	3	Front door window RH is between fully-open and just before fully-closed position (ON)	0
			Front door window RH is between just before fully-closed position and fully-closed position (OFF)	5



OK or NG

- OK >> Check the condition of the harness and connector.
 NG >> Replace front power window motor RH. Refer to [GW-82, "Removal and Installation"](#).

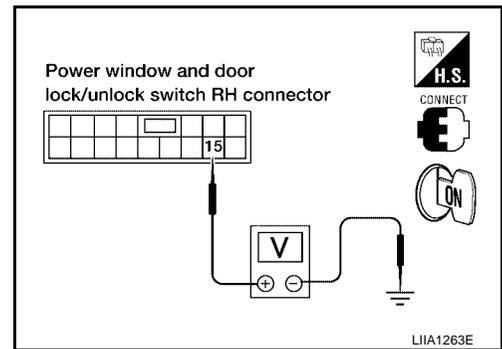
Limit Switch Circuit Check Front RH (With Rear Power Vent Windows)

EIS007WR

1. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH LIMIT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between power window motor RH connector D105 terminal 15 and ground.

Connector	Terminals		Condition	Voltage (V) (Approx.)
	(+)	(-)		
D105	15	Ground	Front door window RH is between fully-open and just before fully-closed position (ON)	0
			Front door window RH is between just before fully-closed position and fully-closed position (OFF)	5



OK or NG

- OK >> Limit switch circuit is OK.
 NG >> GO TO 2.

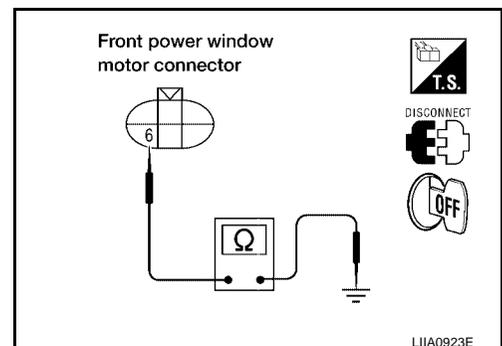
2. CHECK LIMIT SWITCH GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front power window motor RH.
3. Check continuity between front power window motor RH connector D104 terminal 6 and ground.

6 - Ground : Continuity should exist.

OK or NG

- OK >> Replace front power window motor RH. Refer to [GW-82, "Removal and Installation"](#).
 NG >> GO TO 3.

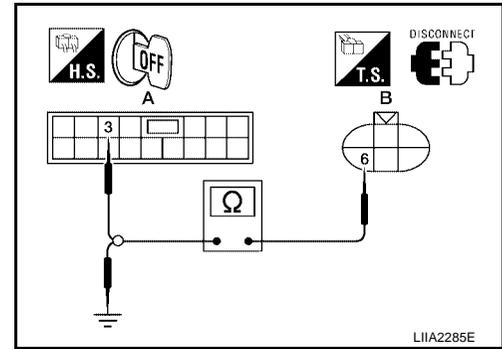


POWER WINDOW SYSTEM

3. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect power window and door lock/unlock switch RH.
3. Check continuity between power window and door lock/unlock switch RH connector and front power window motor RH connector.

Connector	Terminal	Connector	Terminal	Continuity
A		B		
Power window and door lock/unlock switch RH: D105	3	Front power window motor RH: D104	6	Yes



4. Check continuity between front power window motor RH connector and ground.

Connector	Terminal	Ground	Continuity
B			
Front power window motor RH: D104	6		No

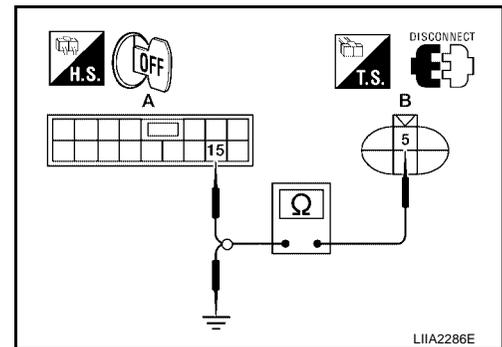
OK or NG

- OK >> GO TO 4.
 NG >> Repair or replace harness.

4. CHECK HARNESS CONTINUITY

1. Check continuity between power window and door lock/unlock switch RH connector and front power window motor RH connector.

Connector	Terminal	Connector	Terminal	Continuity
A		B		
Power window and door lock/unlock switch RH: D105	15	Front power window motor RH: D104	5	Yes



2. Check continuity between front power window motor RH connector and ground.

Connector	Terminal	Ground	Continuity
B			
Front power window motor RH: D104	5		No

OK or NG

- OK >> GO TO 5.
 NG >> Repair or replace harness.

POWER WINDOW SYSTEM

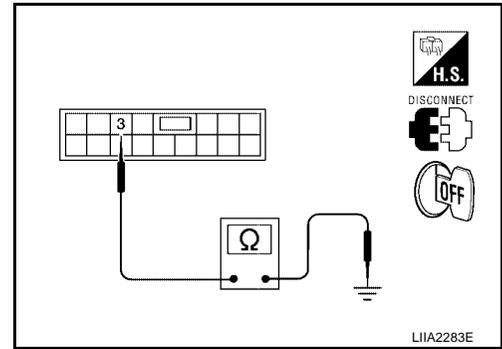
5. CHECK LIMIT SWITCH GROUND

Check continuity between power window and door lock/unlock switch RH connector and ground.

Connector	Terminal	Ground	Continuity
Power window door lock/unlock switch RH: D105	3	Ground	Yes

OK or NG

- OK >> GO TO 7.
- NG >> GO TO 6.



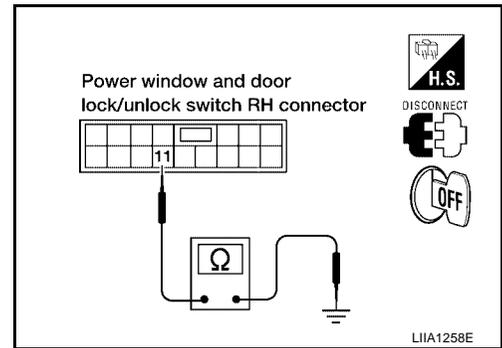
6. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH GROUND CIRCUIT

Check continuity between power window and door lock/unlock switch RH connector D105 terminal 11 and ground.

11 - Ground : Continuity should exist.

OK or NG

- OK >> Replace power window and door lock/unlock switch RH. Refer to [EI-29, "FRONT DOOR"](#).
- NG >> Repair or replace harness.



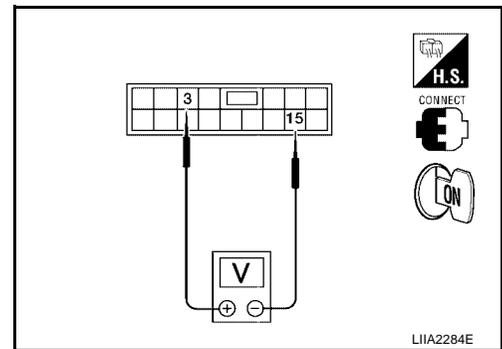
7. CHECK FRONT POWER WINDOW MOTOR RH LIMIT SIGNAL

1. Connect power window and door lock/unlock switch RH and front power window motor RH.
2. Turn ignition switch ON.
3. Check voltage between power window and door lock/unlock switch RH connector.

Connector	Terminals		Condition	Voltage (V) (Approx.)
	(+)	(-)		
Power window and door lock/unlock switch RH: D105	15	3	Front door window RH is between fully-open and just before fully-closed position (ON)	0
			Front door window RH is between just before fully-closed position and fully-closed position (OFF)	5

OK or NG

- OK >> Check the condition of the harness and connector.
- NG >> Replace front power window motor RH. Refer to [GW-82, "Removal and Installation"](#).



POWER WINDOW SYSTEM

EIS00719

Encoder Circuit Check Front LH (Without Rear Power Vent Windows)

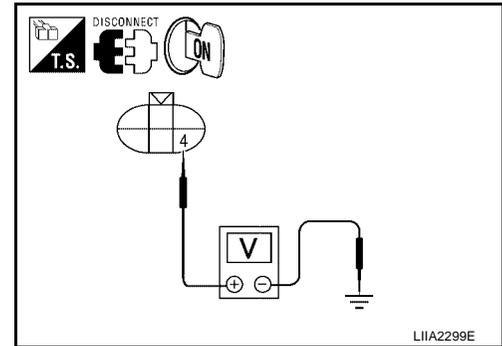
1. CHECK FRONT POWER WINDOW MOTOR LH POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect front power window motor LH.
3. Turn ignition switch ON.
4. Check voltage between front power window motor LH connector D9 terminal 4 and ground.

4 - Ground : Approx. 10V

OK or NG

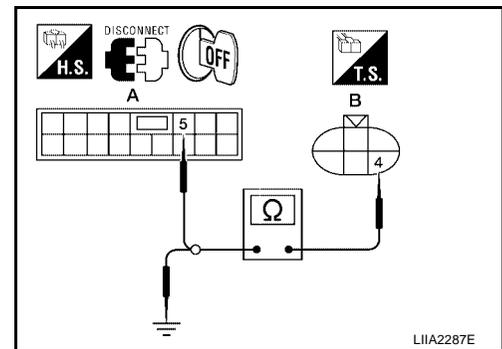
- OK >> GO TO 3.
NG >> GO TO 2.



2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch.
3. Check continuity between front power window motor LH connector and main power window and door lock/unlock switch connector.

Connector	Terminal	Connector	Terminal	Continuity
A		B		
Main power window and door lock/unlock switch: D7	5	Front power window motor LH: D9	4	Yes



4. Check continuity between front power window motor LH connector and ground.

Connector	Terminal	Ground	Continuity
B			
Front power window motor LH: D9	4		No

OK or NG

- OK >> Replace main power window and door lock/unlock switch. Refer to [EI-29, "FRONT DOOR"](#).
NG >> Repair or replace harness.

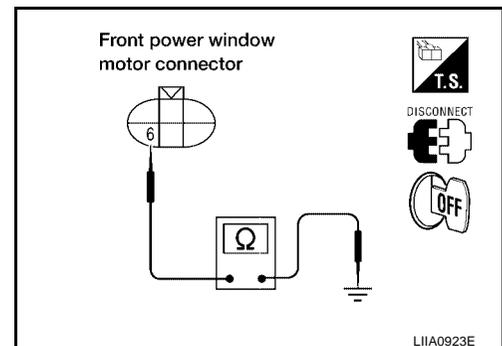
3. CHECK ENCODER GROUND

1. Turn ignition switch OFF.
2. Disconnect front power window motor LH.
3. Check continuity between front power window motor LH connector D9 terminal 6 and ground.

6 - Ground : Continuity should exist.

OK or NG

- OK >> GO TO 5.
NG >> GO TO 4.



POWER WINDOW SYSTEM

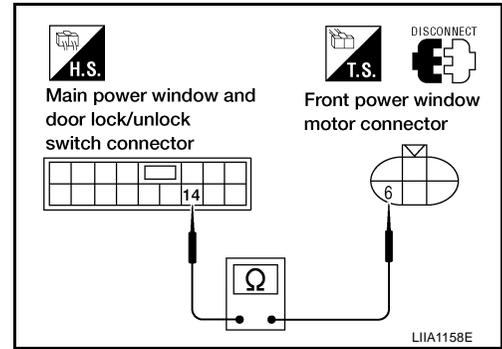
4. CHECK ENCODER GROUND CIRCUIT

1. Disconnect main power window and door lock/unlock switch.
2. Check continuity between front power window motor LH connector D9 terminal 6 and main power window and door lock/unlock switch connector D7 terminal 14.

6 - 14 : Continuity should exist.

OK or NG

- OK >> Replace main power window and door lock/unlock switch. Refer to [EI-29, "FRONT DOOR"](#).
- NG >> Repair or replace harness.

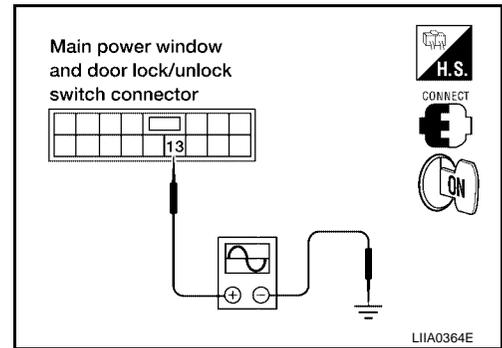


5. CHECK ENCODER SIGNAL

1. Connect front power window motor LH.
2. Turn ignition switch ON.
3. Check the signal between main power window and door lock/unlock switch connector and ground with oscilloscope.

Connector	Terminals		Condition	Signal
	(+)	(-)		
D7	13	Ground	Opening	<p>The oscilloscope shows a square wave signal with a peak-to-peak voltage of approximately 6V and a period of 10ms. The vertical axis is labeled (V) and the horizontal axis is labeled 10mS.</p>

OCC3383D



OK or NG

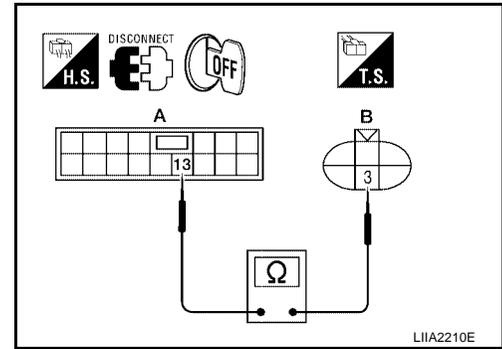
- OK >> Replace main power window and door lock/unlock switch. Refer to [EI-29, "FRONT DOOR"](#).
- NG >> GO TO 6.

POWER WINDOW SYSTEM

6. CHECK ENCODER CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front power window motor LH and main power window and door lock/unlock switch.
3. Check continuity between front power window motor LH connector and main power window and door lock/unlock switch connector.

Connector	Terminal	Connector	Terminal	Continuity
A		B		
Main power window and door lock/unlock switch: D7	13	Front power window motor LH: D9	3	Yes



4. Check continuity between front power window motor LH connector and ground.

Connector	Terminal	Ground	Continuity
B			
Front power window motor LH: D9	3		No

OK or NG

- OK >> Replace front power window motor LH. Refer to [GW-82, "Removal and Installation"](#) .
 NG >> Repair or replace harness.

Encoder Circuit Check Front LH (With Rear Power Vent Windows)

EIS0071A

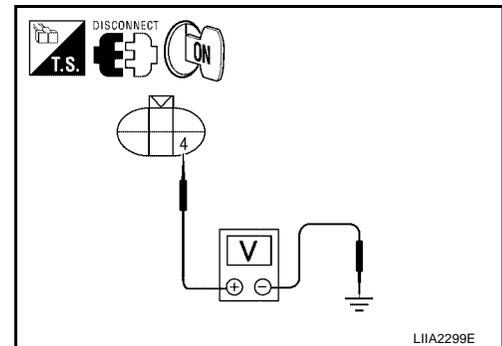
1. CHECK FRONT POWER WINDOW MOTOR LH POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect front power window motor LH.
3. Turn ignition switch ON.
4. Check voltage between front power window motor LH connector D9 terminal 4 and ground.

4 - Ground : Approx. 10V

OK or NG

- OK >> GO TO 3.
 NG >> GO TO 2.

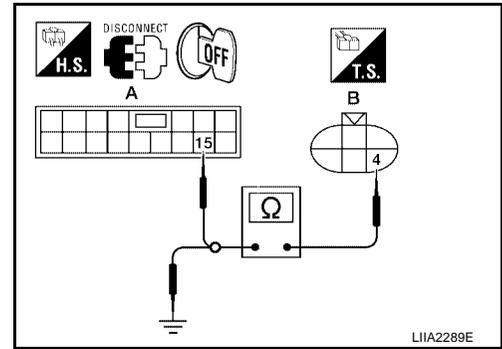


POWER WINDOW SYSTEM

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch.
3. Check continuity between front power window motor LH connector and main power window and door lock/unlock switch connector.

Connector	Terminal	Connector	Terminal	Continuity
A		B		
Main power window and door lock/unlock switch: D7	15	Front power window motor LH: D9	4	Yes



4. Check continuity between front power window motor LH connector and ground.

Connector	Terminal	Ground	Continuity
B			
Front power window motor LH: D9	4	Ground	No

OK or NG

- OK >> Replace main power window and door lock/unlock switch. Refer to [EI-29, "FRONT DOOR"](#) .
 NG >> Repair or replace harness.

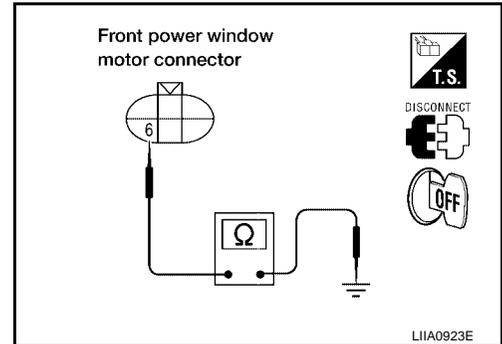
3. CHECK ENCODER GROUND

1. Turn ignition switch OFF.
2. Disconnect front power window motor LH.
3. Check continuity between front power window motor LH connector D9 terminal 6 and ground.

6 - Ground : Continuity should exist.

OK or NG

- OK >> GO TO 5.
 NG >> GO TO 4.



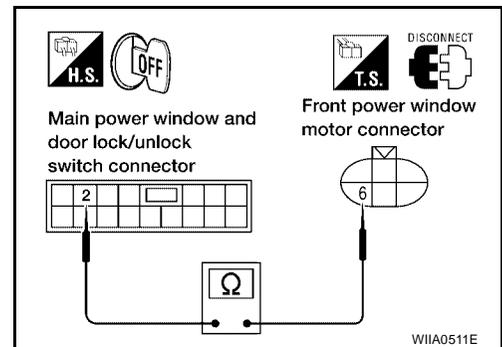
4. CHECK ENCODER GROUND CIRCUIT

1. Disconnect main power window and door lock/unlock switch.
2. Check continuity between front power window motor LH connector D9 terminal 6 and main power window and door lock/unlock switch connector D7 terminal 2.

6 - 2 : Continuity should exist.

OK or NG

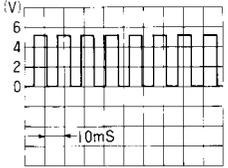
- OK >> Replace main power window and door lock/unlock switch. Refer to [EI-29, "FRONT DOOR"](#) .
 NG >> Repair or replace harness.

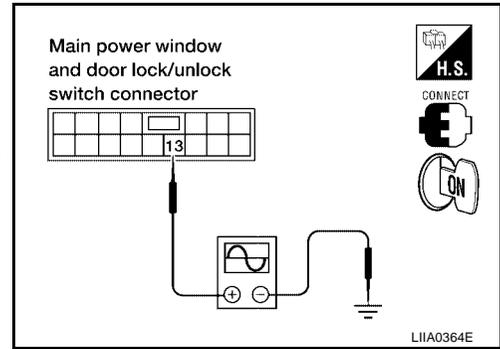


POWER WINDOW SYSTEM

5. CHECK ENCODER SIGNAL

1. Connect front power window motor LH.
2. Turn ignition switch ON.
3. Check the signal between main power window and door lock/unlock switch connector and ground with oscilloscope.

Connector	Terminals		Condition	Signal
	(+)	(-)		
D7	13	Ground	Opening	 <p>OCC3383D</p>



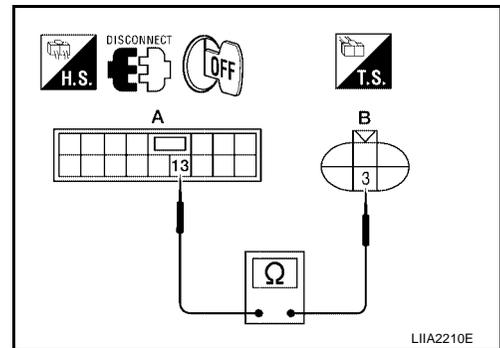
OK or NG

- OK >> Replace main power window and door lock/unlock switch. Refer to [EI-29, "FRONT DOOR"](#) .
- NG >> GO TO 6.

6. CHECK ENCODER CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front power window motor LH and main power window and door lock/unlock switch.
3. Check continuity between front power window motor LH connector and main power window and door lock/unlock switch connector.

Connector	Terminal	Connector	Terminal	Continuity
A		B		
Main power window and door lock/unlock switch: D7	13	Front power window motor LH: D9	3	Yes



4. Check continuity between front power window motor LH connector and ground.

Connector	Terminal	Ground	Continuity
B			
Front power window motor LH: D9	3	Ground	No

OK or NG

- OK >> Replace front power window motor LH. Refer to [GW-82, "Removal and Installation"](#) .
- NG >> Repair or replace harness.

POWER WINDOW SYSTEM

EIS0071B

Encoder Circuit Check Front RH (Without Rear Power Vent Windows)

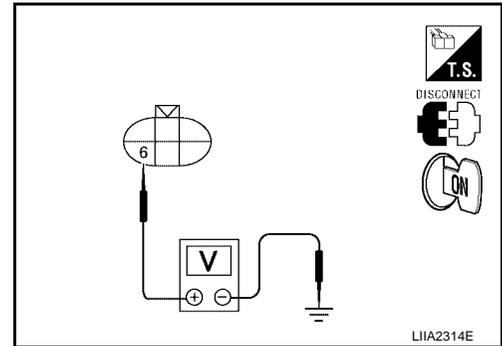
1. CHECK FRONT POWER WINDOW MOTOR RH POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect front power window motor RH.
3. Turn ignition switch ON.
4. Check voltage between front power window motor RH connector D104 terminal 6 and ground.

6 - Ground : Approx. 10V

OK or NG

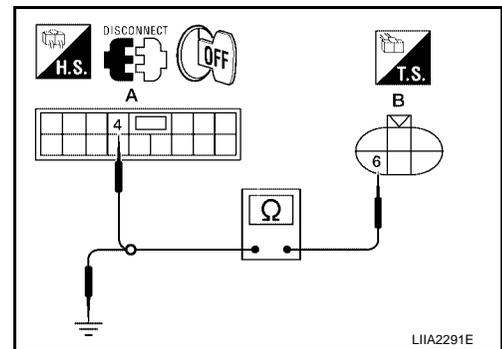
- OK >> GO TO 3.
 NG >> GO TO 2.



2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect power window and door lock/unlock switch RH.
3. Check continuity between front power window motor RH connector and power window and door lock/unlock switch RH connector.

Connector	Terminal	Connector	Terminal	Continuity
A		B		
Power window and door lock/unlock switch RH: D105	4	Front power window motor RH: D104	6	Yes



4. Check continuity between front power window motor LH connector and ground.

Connector	Terminal	Ground	Continuity
B			
Front power window motor RH: D104	6		No

OK or NG

- OK >> Replace main power window and door lock/unlock switch. Refer to [EI-29, "FRONT DOOR"](#).
 NG >> Repair or replace harness.

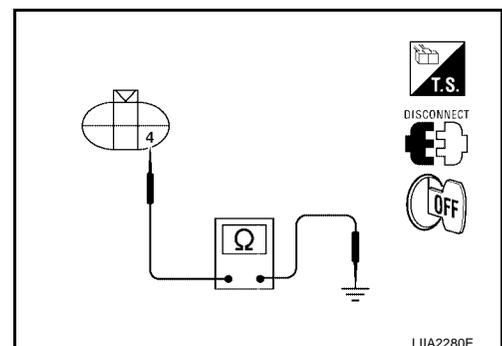
3. CHECK ENCODER GROUND

1. Turn ignition switch OFF.
2. Check continuity between front power window motor RH connector D104 terminal 4 and ground.

4 - Ground : Continuity should exist.

OK or NG

- OK >> GO TO 5.
 NG >> GO TO 4.



POWER WINDOW SYSTEM

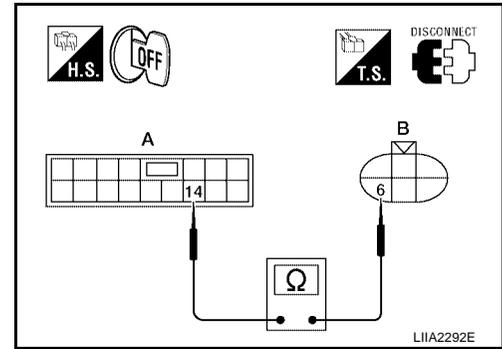
4. CHECK ENCODER GROUND CIRCUIT

1. Disconnect power window and door lock/unlock switch RH.
2. Check continuity between power window and door lock/unlock switch RH (A) connector D105 terminal 14 and front power window motor RH (B) connector D104 terminal 6.

6 - 14 : Continuity should exist.

OK or NG

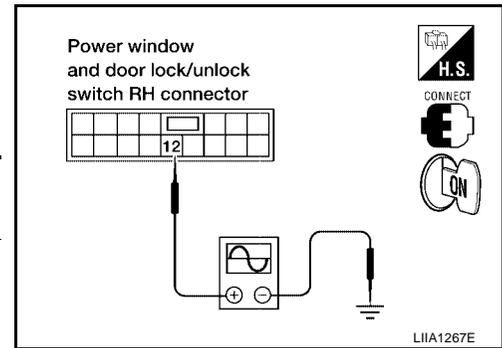
- OK >> Replace power window and door lock/unlock switch RH.
Refer to [EI-29, "FRONT DOOR"](#).
- NG >> Repair or replace harness.



5. CHECK ENCODER SIGNAL

1. Connect front power window motor RH.
2. Turn ignition switch ON.
3. Check the signal between power window and door lock/unlock switch RH connector and ground with oscilloscope.

Connector	Terminals		Condition	Signal
	(+)	(-)		
D105	12	Ground	Opening	<p>OCC3383D</p>



OK or NG

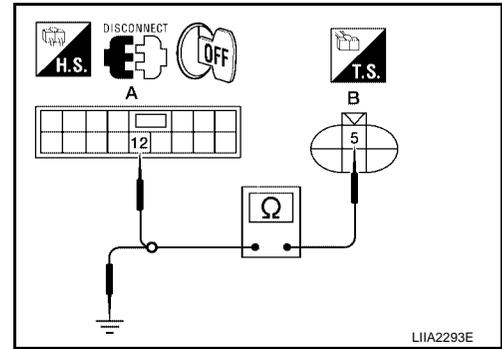
- OK >> Replace power window and door lock/unlock switch RH. Refer to [EI-29, "FRONT DOOR"](#).
- NG >> GO TO 6.

POWER WINDOW SYSTEM

6. CHECK ENCODER CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front power window motor RH and power window and door lock/unlock switch RH.
3. Check continuity between front power window motor RH connector and power window and door lock/unlock switch RH connector.

Connector	Terminal	Connector	Terminal	Continuity
A		B		
Power window and door lock/unlock switch RH: D105	12	Front power window motor RH: D104	5	Yes



4. Check continuity between front power window motor LH connector and ground.

Connector	Terminal	Ground	Continuity
B			
Front power window motor RH: D104	5	Ground	No

OK or NG

- OK >> Replace front power window motor RH. Refer to [GW-82, "Removal and Installation"](#) .
 NG >> Repair or replace harness.

Encoder Circuit Check Front RH (With Rear Power Vent Windows)

EIS007WS

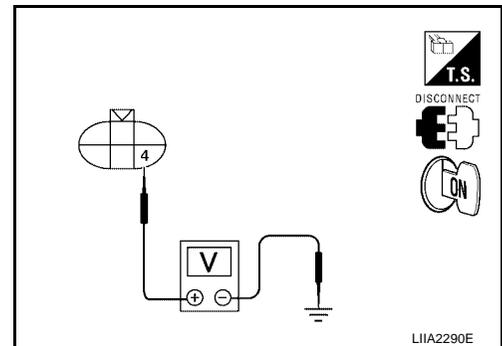
1. CHECK FRONT POWER WINDOW MOTOR RH POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect front power window motor RH.
3. Turn ignition switch ON.
4. Check voltage between front power window motor RH connector D104 terminal 4 and ground.

4 - Ground : Approx. 10V

OK or NG

- OK >> GO TO 3.
 NG >> GO TO 2.

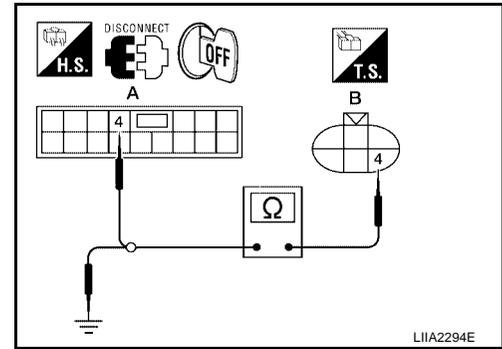


POWER WINDOW SYSTEM

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect power window and door lock/unlock switch RH.
3. Check continuity between front power window motor RH connector and power window and door lock/unlock switch RH connector.

Connector	Terminal	Connector	Terminal	Continuity
A		B		
Power window and door lock/unlock switch RH: D105	4	Front power window motor RH: D104	4	Yes



4. Check continuity between front power window motor LH connector and ground.

Connector	Terminal	Ground	Continuity
B			
Front power window motor RH: D104	4	Ground	No

OK or NG

- OK >> Replace main power window and door lock/unlock switch. Refer to [EI-29, "FRONT DOOR"](#) .
 NG >> Repair or replace harness.

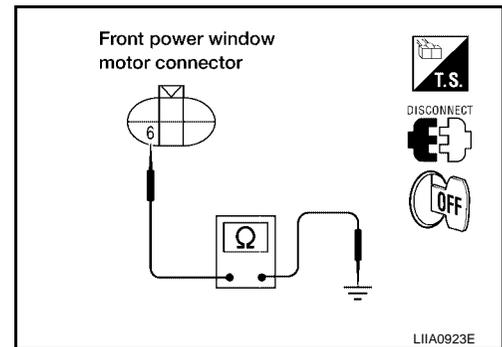
3. CHECK ENCODER GROUND

1. Turn ignition switch OFF.
2. Disconnect front power window motor RH.
3. Check continuity between front power window motor RH connector D104 terminal 6 and ground.

6 - Ground : Continuity should exist.

OK or NG

- OK >> GO TO 5.
 NG >> GO TO 4.



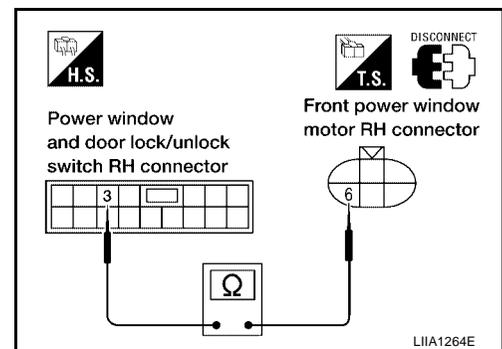
4. CHECK ENCODER GROUND CIRCUIT

1. Disconnect power window and door lock/unlock switch RH.
2. Check continuity between front power window motor RH connector D104 terminal 6 and power window and door lock/unlock switch RH connector D105 terminal 3.

6 - 3 : Continuity should exist.

OK or NG

- OK >> Replace power window and door lock/unlock switch RH. Refer to [EI-29, "FRONT DOOR"](#) .
 NG >> Repair or replace harness.

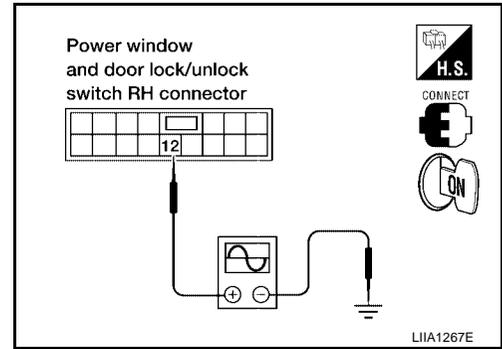


POWER WINDOW SYSTEM

5. CHECK ENCODER SIGNAL

1. Connect front power window motor RH.
2. Turn ignition switch ON.
3. Check the signal between power window and door lock/unlock switch RH connector and ground with oscilloscope.

Connector	Terminals		Condition	Signal
	(+)	(-)		
D105	12	Ground	Opening	<p>OCC3383D</p>



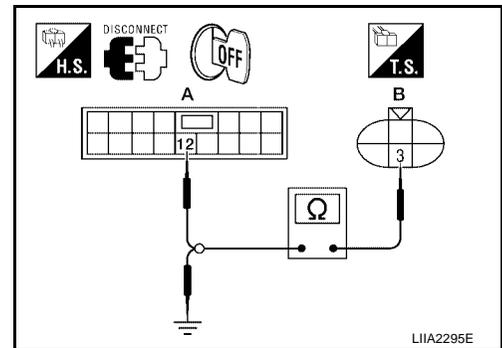
OK or NG

- OK >> Replace power window and door lock/unlock switch RH. Refer to [EI-29, "FRONT DOOR"](#).
- NG >> GO TO 6.

6. CHECK ENCODER CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front power window motor RH and power window and door lock/unlock switch RH.
3. Check continuity between front power window motor RH connector and power window and door lock/unlock switch RH connector.

Connector A	Terminal	Connector B	Terminal	Continuity
Power window and door lock/unlock switch RH: D105	12	Front power window motor RH: D104	3	Yes



4. Check continuity between front power window motor LH connector and ground.

Connector B	Terminal	Ground	Continuity
Front power window motor RH: D104	3	Ground	No

OK or NG

- OK >> Replace front power window motor RH. Refer to [GW-82, "Removal and Installation"](#).
- NG >> Repair or replace harness.

POWER WINDOW SYSTEM

EIS0071C

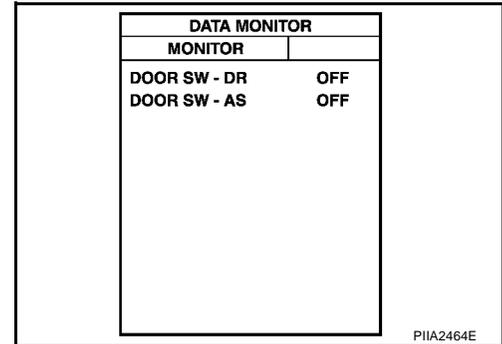
Door Switch Check

1. CHECK FRONT DOOR SWITCH INPUT SIGNAL

With CONSULT-II

Check front door switches ("DOOR SW-DR" and "DOOR SW-AS") in "DATA MONITOR" mode with CONSULT-II.

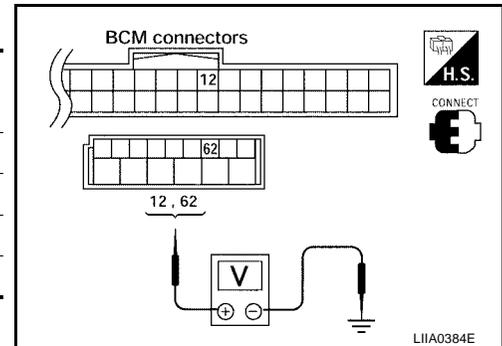
Monitor item	Condition
DOOR SW-DR	OPEN : ON
	CLOSE : OFF
DOOR SW-AS	OPEN : ON
	CLOSE : OFF



Without CONSULT-II

Check voltage between BCM connector and ground.

Item	Connector	Terminals		Condition	Voltage (V) (Approx.)
		(+)	(-)		
Front RH	M18	12	Ground	OPEN	0
				CLOSE	Battery voltage
Front LH	M20	62		OPEN	0
				CLOSE	Battery voltage



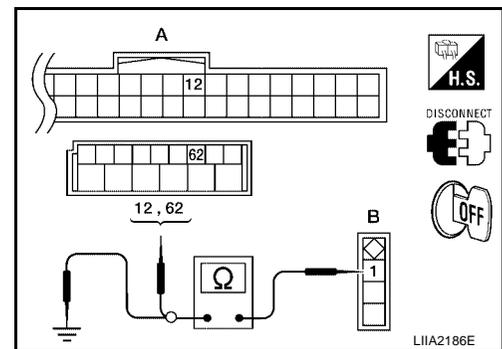
OK or NG

- OK >> Front door switch is OK.
- NG >> GO TO 2.

2. CHECK DOOR SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front door switch LH or RH and BCM.
3. Check continuity between front door switch LH or RH and BCM.

Connector A	Terminal	Connector B	Terminal	Continuity
BCM: M18	12	Front door switch RH: B108	1	Yes
BCM: M20	62	Front door switch LH: B8	1	Yes



4. Check continuity between front door switch LH or RH and ground.

Connector A	Terminal	Continuity
Front door switch LH: B8	1	Ground
Front door switch RH: B108	1	Ground

OK or NG

- OK >> GO TO 3.
- NG >> Repair or replace harness.

POWER WINDOW SYSTEM

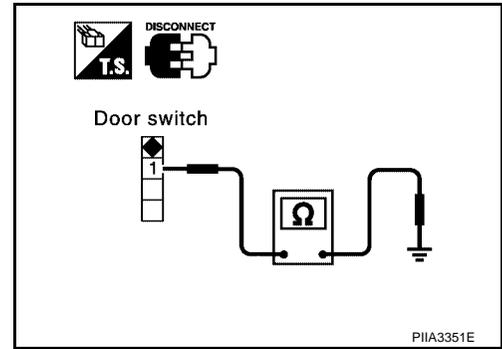
3. CHECK DOOR SWITCH

1. Disconnect front door switch LH or RH.
2. Check continuity between each front door switch terminal 1 and body ground part of front door switch.

Terminal	Door switch	Continuity
1	Pushed	No
	Released	Yes

OK or NG

- OK >> Further inspection is necessary. Refer to symptom chart.
- NG >> Replace malfunctioning front door switch.



A
B
C
D
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M

POWER WINDOW SYSTEM

Front Door Lock Assembly LH (Key Cylinder Switch) Check (Without Rear Power Vent Windows)

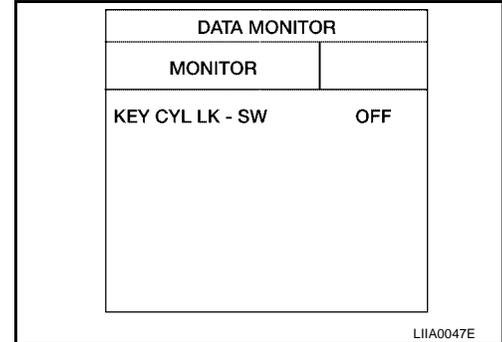
E/S0071D

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

Ⓟ With CONSULT-II

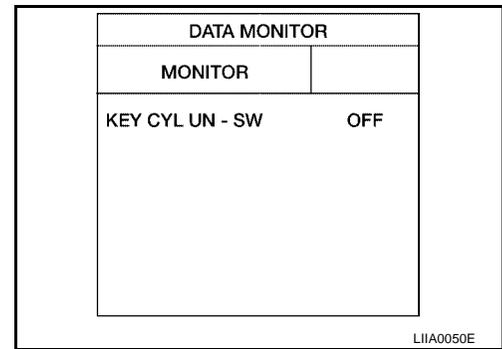
- Check front door lock assembly LH (key cylinder switch) ("KEY CYL LK-SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT-II. Refer to [GW-39, "DATA MONITOR"](#).

"KEY CYL LK-SW" should be "ON" when key inserted in door key cylinder is turned to lock.



- Check front door lock assembly LH (key cylinder switch) ("KEY CYL UN-SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT-II. Refer to [GW-39, "DATA MONITOR"](#).

"KEY CYL UN-SW" should be "ON" when key inserted in door key cylinder is turned to unlock.



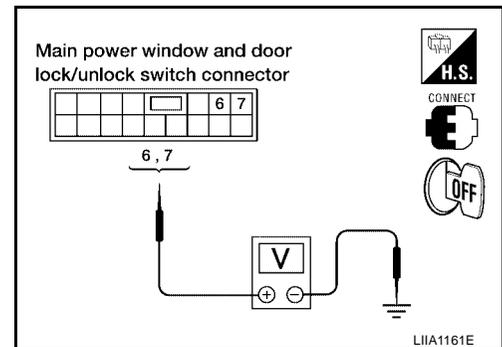
ⓧ Without CONSULT-II

Check voltage between main power window and door lock/unlock switch connector and ground.

Connector	Terminals		Key position	Voltage (V) (Approx.)
	(+)	(-)		
D7	7	Ground	Neutral/Unlock	5
			Unlock	0
	6		Neutral/Lock	5
			Lock	0

OK or NG

- OK >> Further inspection is necessary. Refer to symptom chart.
- NG >> GO TO 2.



POWER WINDOW SYSTEM

2. CHECK FRONT DOOR LOCK ASSEMBLY LH (KEY CYLINDER SWITCH) CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch and front door lock assembly LH (key cylinder switch).
3. Check continuity between main power window and door lock/unlock switch connector D7 terminals 6, 7 and front door lock assembly LH (key cylinder switch) connector D14 terminals 1, 6.

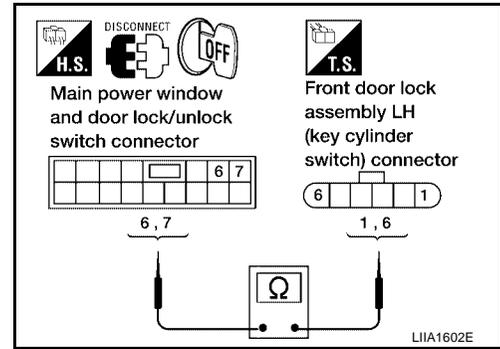
7 - 6 : Continuity should exist.

6 - 1 : Continuity should exist.

OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.



3. CHECK FRONT DOOR LOCK ASSEMBLY LH (KEY CYLINDER SWITCH) GROUND

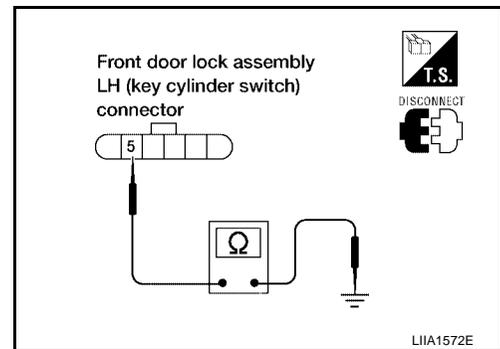
Check continuity between front door lock assembly LH (key cylinder switch) connector D14 terminal 5 and ground.

5 - Ground : Continuity should exist.

OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness.



4. CHECK FRONT DOOR LOCK ASSEMBLY LH (KEY CYLINDER SWITCH)

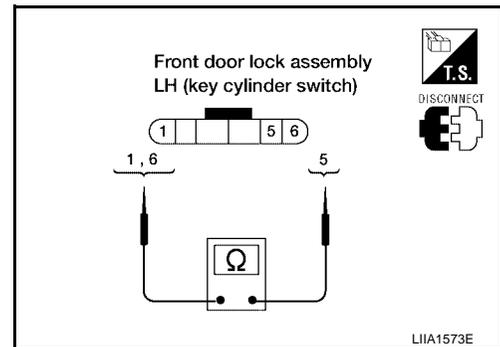
Check continuity between front door lock assembly LH (key cylinder switch) terminals 1, 6 and 5.

Terminals	Key position	Continuity
6	Neutral/Lock	No
	Unlock	Yes
1	Neutral/Unlock	No
	Lock	Yes

OK or NG

OK >> Further inspection is necessary. Refer to symptom chart.

NG >> Replace front door lock assembly LH (key cylinder switch). Refer to [BL-197, "Removal and Installation"](#).



POWER WINDOW SYSTEM

Front Door Lock Assembly LH (Key Cylinder Switch) Check (With Rear Power Vent Windows)

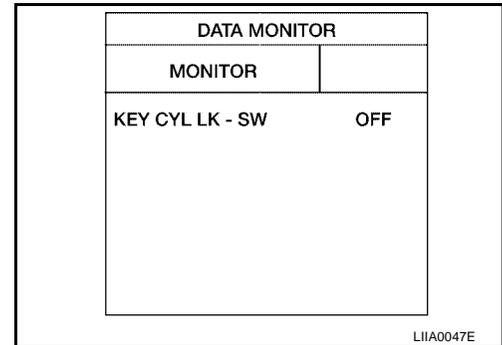
E/S007E

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

Ⓟ With CONSULT-II

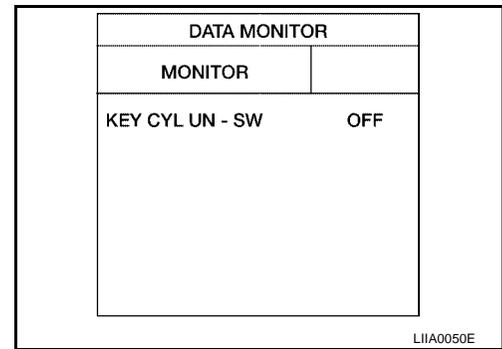
- Check front door lock assembly LH (key cylinder switch) ("KEY CYL LK-SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT-II. Refer to [GW-39, "DATA MONITOR"](#).

"KEY CYL LK-SW" should be "ON" when key inserted in door key cylinder is turned to lock.



- Check front door lock assembly LH (key cylinder switch) ("KEY CYL UN-SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT-II. Refer to [GW-39, "DATA MONITOR"](#).

"KEY CYL UN-SW" should be "ON" when key inserted in door key cylinder is turned to unlock.



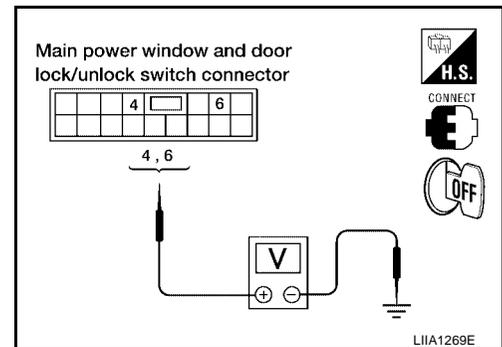
ⓧ Without CONSULT-II

Check voltage between main power window and door lock/unlock switch connector and ground.

Connector	Terminals		Key position	Voltage (V) (Approx.)
	(+)	(-)		
D7	6	Ground	Neutral/Lock	5
			Lock	0
	4		Neutral/Unlock	5
			Unlock	0

OK or NG

- OK >> Further inspection is necessary. Refer to symptom chart.
 NG >> GO TO 2.



POWER WINDOW SYSTEM

2. CHECK FRONT DOOR LOCK ASSEMBLY LH (KEY CYLINDER SWITCH) CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch and front door lock assembly LH (key cylinder switch).
3. Check continuity between main power window and door lock/unlock switch connector D7 terminals 4, 6 and front door lock assembly LH (key cylinder switch) connector D14 terminals 1, 6.

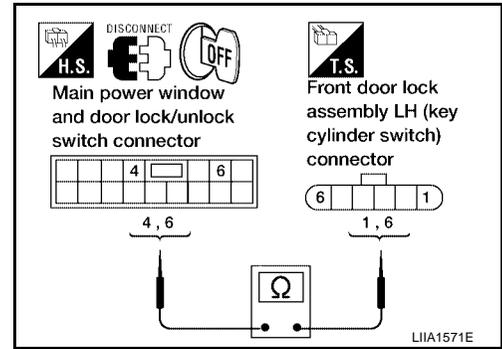
6 - 6 : Continuity should exist.

4 - 1 : Continuity should exist.

OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.



3. CHECK FRONT DOOR LOCK ASSEMBLY LH (KEY CYLINDER SWITCH) GROUND

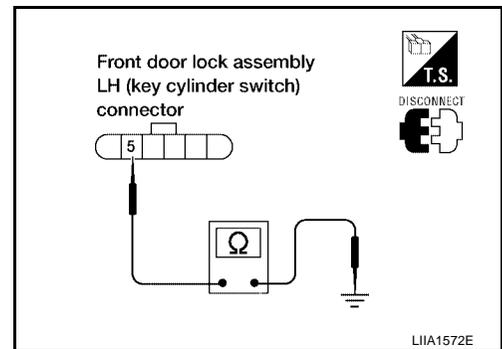
Check continuity between front door lock assembly LH (key cylinder switch) connector D14 terminal 5 and ground.

5 - Ground : Continuity should exist.

OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness.



4. CHECK FRONT DOOR LOCK ASSEMBLY LH (KEY CYLINDER SWITCH)

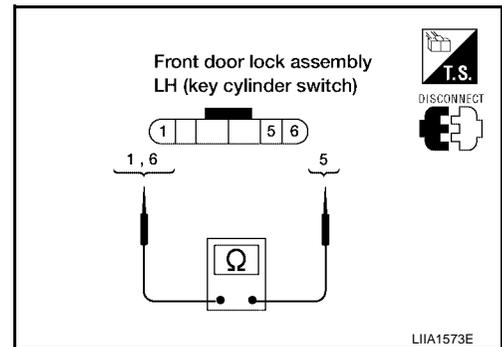
Check continuity between front door lock assembly LH (key cylinder switch) terminals 1, 6 and 5.

Terminals	Key position	Continuity
6	Neutral/Lock	No
	Unlock	Yes
1	Neutral/Unlock	No
	Lock	Yes

OK or NG

OK >> Further inspection is necessary. Refer to symptom chart.

NG >> Replace front door lock assembly LH (key cylinder switch). Refer to [BL-197, "Removal and Installation"](#) .



POWER WINDOW SYSTEM

Power Window Serial Link Check Front LH and RH (Without Rear Power Vent Windows)

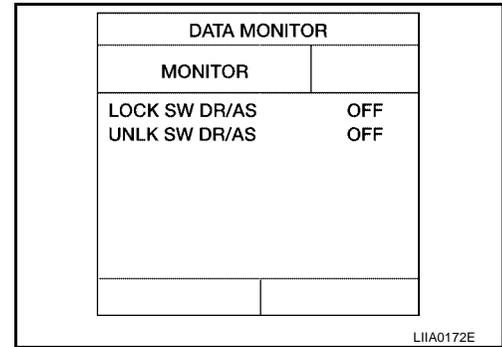
EIS0071F

1. CHECK BUS OUTPUT SIGNAL

Ⓜ With CONSULT-II

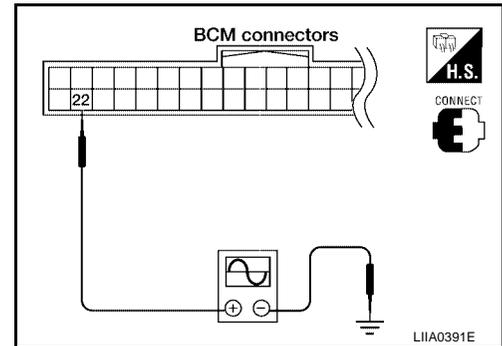
Check door lock and unlock switch ("LOCK SW DR/AS", "UNLK SW DR/AS") in DATA MONITOR mode for "MULTI REMOTE ENT" with CONSULT-II. Refer to [BL-68, "Data Monitor"](#).

- When door lock and unlock switch is turned to LOCK
LOCK SW DR/AS : ON
- When door lock and unlock switch is turned to UNLOCK
UNLK SW DR/AS : ON



⊗ Without CONSULT-II

- Remove key from ignition switch, and close front door LH and RH.
- Check the signal between BCM connector and ground with oscilloscope when door lock and unlock switch (front LH and front RH) is turned to "LOCK" or "UNLOCK".
- Make sure signals which are shown in the figure below can be detected during 10 seconds just after door lock and unlock switch (front LH and front RH) is turned to "LOCK" or "UNLOCK".



Connector	Terminals		Signal
	(+)	(-)	
M18	22	Ground	

OK or NG

- OK >> GO TO 2.
- NG >> GO TO 3.

POWER WINDOW SYSTEM

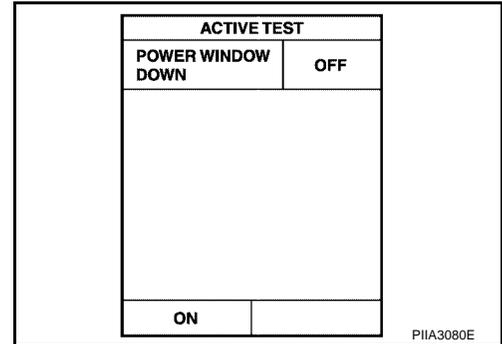
2. CHECK BCM BUS SIGNAL

Check power window serial link ("POWER WINDOW DOWN") in "ACTIVE TEST" mode for "MULTI REMOTE ENT" with CONSULT-II. Refer to [BL-68, "Active Test"](#) .

When "ACTIVE TEST" is executed, is the front power window LH and RH lowered?

OK or NG

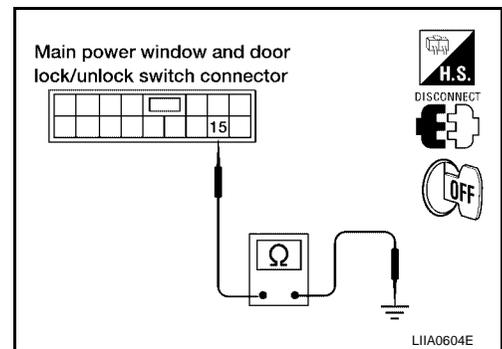
- OK >> Further inspection is necessary. Refer to symptom chart.
- NG >> Replace BCM. Refer to [BCS-20, "Removal and Installation of BCM"](#) .



3. CHECK POWER WINDOW SWITCH GROUND

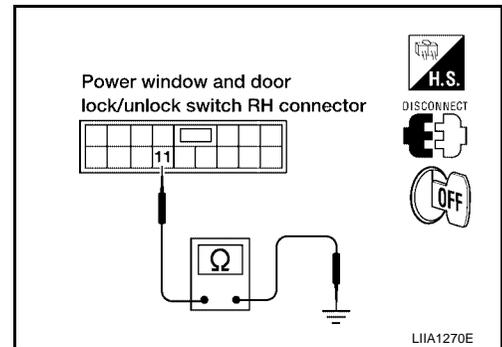
1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch and power window and door lock/unlock switch RH.
3. Check continuity between main power window and door lock/unlock switch connector D7 terminal 15 and ground.

15 - Ground : Continuity should exist.



4. Check continuity between power window and door lock/unlock switch RH connector D105 terminal 11 and ground.

11 - Ground : Continuity should exist.



OK or NG

- OK >> GO TO 4.
- NG >> Repair or replace harness.

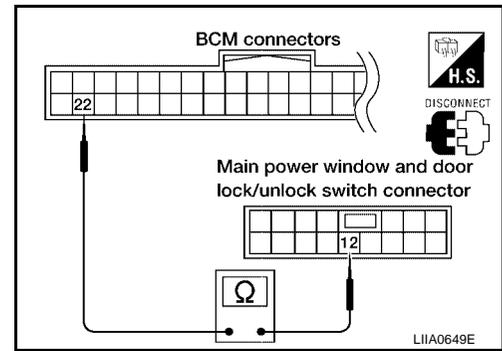
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POWER WINDOW SYSTEM

4. CHECK POWER WINDOW SERIAL LINK CIRCUIT

1. Disconnect BCM.
2. Check continuity between BCM connector M18 terminal 22 and main power window and door lock/unlock switch connector D7 terminal 12.

22 - 12 : Continuity should exist.

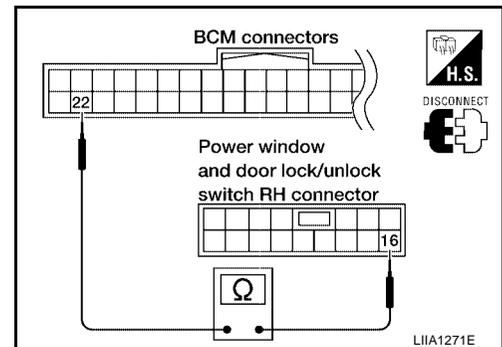


3. Check continuity between BCM connector M18 terminal 22 and power window and door lock/unlock switch RH connector D105 terminal 16.

22 - 16 : Continuity should exist.

OK or NG

- OK >> Replace main power window and door lock/unlock switch or power window and door lock/unlock switch RH. Refer to [EI-29, "Removal and Installation"](#).
- NG >> Repair or replace harness.



POWER WINDOW SYSTEM

Power Window Serial Link Check Front LH and RH (With Rear Power Vent Windows)

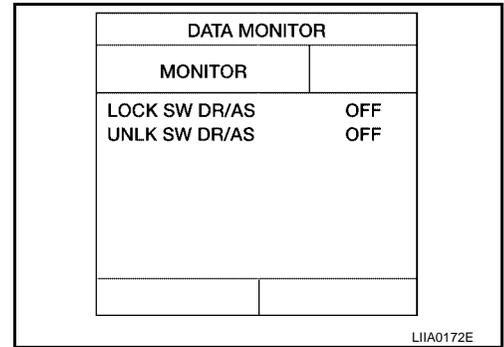
E/S0071G

1. CHECK BUS SIGNAL

Ⓜ With CONSULT-II

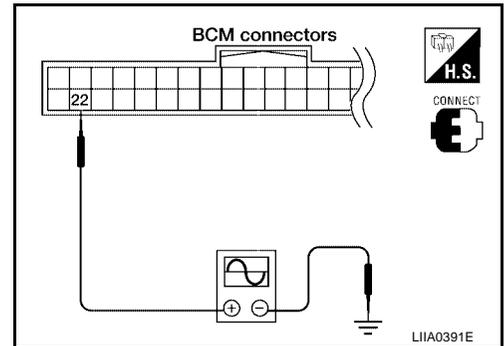
Check door lock and unlock switch ("LOCK SW DR/AS", "UNLK SW DR/AS") in DATA MONITOR mode for "MULTI REMOTE ENT" with CONSULT-II. Refer to [BL-68, "Data Monitor"](#).

- When door lock and unlock switch is turned to LOCK
LOCK SW DR/AS : ON
- When door lock and unlock switch is turned to UNLOCK
UNLK SW DR/AS : ON



⊗ Without CONSULT-II

- Remove key from ignition switch, and close front door LH and RH.
- Check the signal between BCM connector and ground with oscilloscope when door lock and unlock switch (front LH and front RH) is turned to "LOCK" or "UNLOCK".
- Make sure signals which are shown in the figure below can be detected during 10 seconds just after door lock and unlock switch (front LH and front RH) is turned to "LOCK" or "UNLOCK".



Connector	Terminals		Signal
	(+)	(-)	
M18	22	Ground	

OK or NG

- OK >> GO TO 2.
- NG >> GO TO 3.

POWER WINDOW SYSTEM

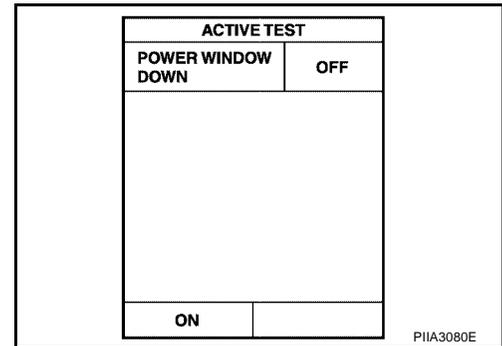
2. CHECK BCM BUS OUTPUT SIGNAL

Check power window serial link ("POWER WINDOW DOWN") in "ACTIVE TEST" mode for "MULTI REMOTE ENT" with CONSULT-II. Refer to [BL-68, "Active Test"](#) .

When "ACTIVE TEST" is executed, is the front power window LH and RH lowered?

OK or NG

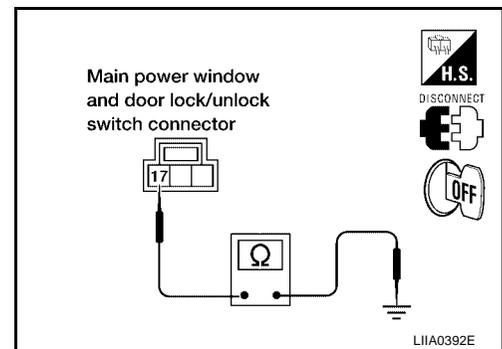
- OK >> Further inspection is necessary. Refer to symptom chart.
- NG >> Replace BCM. Refer to [BCS-20, "Removal and Installation of BCM"](#) .



3. CHECK POWER WINDOW SWITCH GROUND

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch and power window and door lock/unlock switch RH.
3. Check continuity between main power window and door lock/unlock switch connector D8 terminal 17 and ground.

17 - Ground : Continuity should exist.

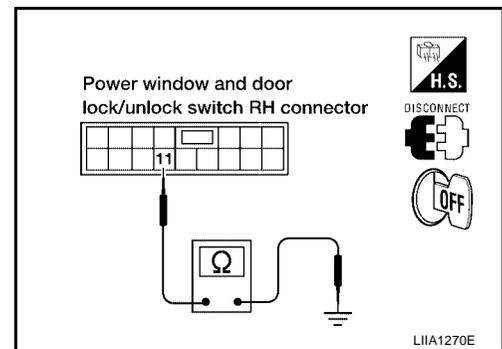


4. Check continuity between power window and door lock/unlock switch RH connector D105 terminal 11 and ground.

11 - Ground : Continuity should exist.

OK or NG

- OK >> GO TO 4.
- NG >> Repair or replace harness.

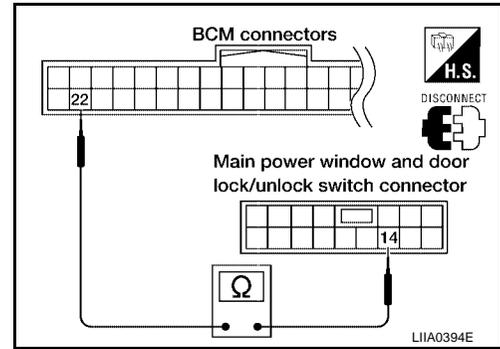


POWER WINDOW SYSTEM

4. CHECK POWER WINDOW SERIAL LINK CIRCUIT

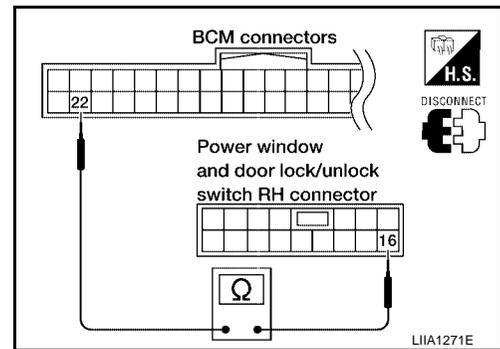
1. Disconnect BCM.
2. Check continuity between BCM connector M18 terminal 22 and main power window and door lock/unlock switch connector D7 terminal 14.

22 - 14 : Continuity should exist.



3. Check continuity between BCM connector M18 terminal 22 and power window and door lock/unlock switch RH connector D105 terminal 16.

22 - 16 : Continuity should exist.



OK or NG

- OK >> Replace main power window and door lock/unlock switch or power window and door lock/unlock switch RH. Refer to [EI-29, "FRONT DOOR"](#).
- NG >> Repair or replace harness.

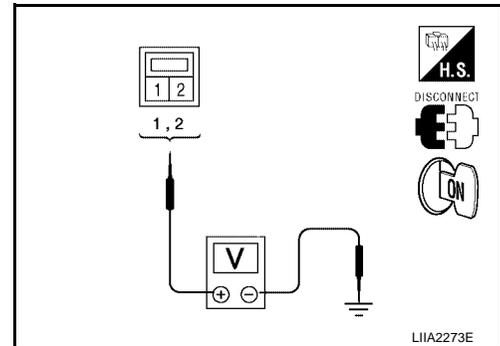
Rear Power Vent Window Motor LH Circuit Check

EIS0071H

1. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH LH OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect rear power vent window motor LH.
3. Turn ignition switch ON.
4. Check voltage between rear power vent window motor LH connector B52 terminals 1, 2 and ground.

Connector	Terminals		Condition	Voltage (V) (Approx.)
	(+)	(-)		
Rear power vent window motor LH: B52	1	Ground	Closing	Battery voltage
			Opening	0
	2		Closing	0
			Opening	Battery voltage



OK or NG

- OK >> Replace rear power vent window motor LH. Refer to [GW-89, "Removal and Installation \(with Rear Power Vent Windows\)"](#).
- NG >> GO TO 2.

POWER WINDOW SYSTEM

2. CHECK REAR POWER VENT WINDOW MOTOR LH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch.
3. Check continuity between main power window and door lock/unlock switch connector (A) D7 terminals 1, 3 and rear power vent window motor LH (B) connector B52 terminals 1, 2.

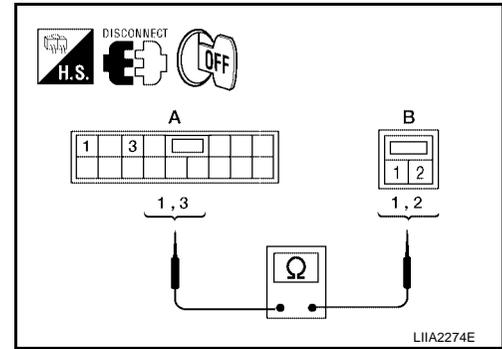
3 - 2 : Continuity should exist.

1 - 1 : Continuity should exist.

OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.



3. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL

1. Confirm that power window lock switch is in unlocked position.
2. Connect main power window and door lock/unlock switch.
3. Check continuity between main power window and door lock/unlock switch connector D7 terminals 1, 3 and connector D8 terminal 17.

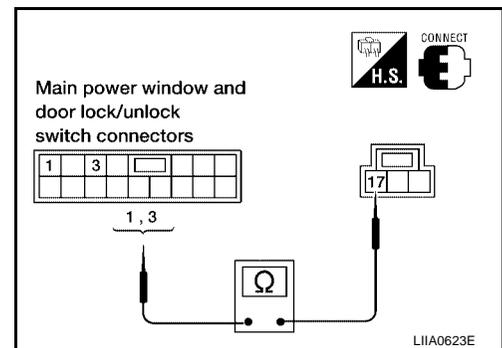
1 - 17 : Continuity should exist.

3 - 17 : Continuity should exist.

OK or NG

OK >> Repair or replace harness.

NG >> Replace main power window and door lock/unlock switch. Refer to [EI-29, "FRONT DOOR"](#).



Rear Power Vent Window Motor RH Circuit Check

EIS007II

1. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH LH OUTPUT SIGNAL

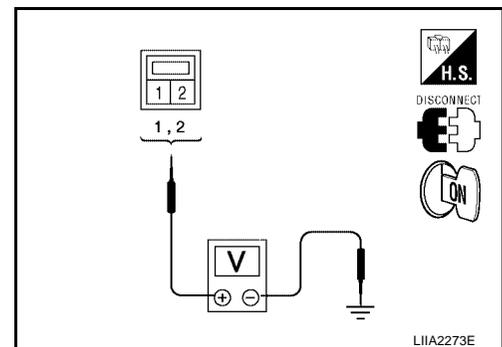
1. Turn ignition switch OFF.
2. Disconnect rear power vent window motor RH.
3. Turn ignition switch ON.
4. Check voltage between rear power vent window motor RH connector B147 terminals 1, 2 and ground.

Connector	Terminals		Condition	Voltage (V) (Approx.)
	(+)	(-)		
Rear power vent window motor RH: B147	1	Ground	Closing	Battery voltage
	2		Opening	0
			Closing	0
			Opening	Battery voltage

OK or NG

OK >> Replace rear power vent window motor RH. Refer to [GW-89, "Removal and Installation \(with Rear Power Vent Windows\)"](#).

NG >> GO TO 2.



POWER WINDOW SYSTEM

2. CHECK REAR POWER VENT WINDOW MOTOR RH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch.
3. Check continuity between main power window and door lock/unlock switch connector (A) D7 terminals 5, 7 and rear power vent window motor RH connector (B) B147 terminals 1, 2.

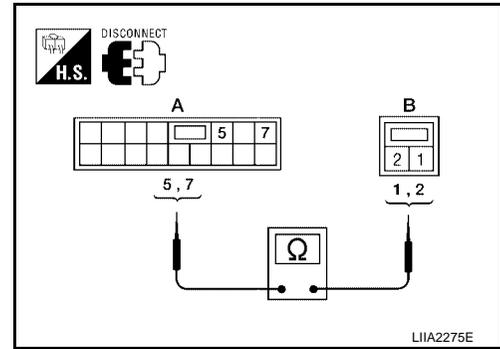
5 - 2 : Continuity should exist.

7 - 1 : Continuity should exist.

OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.



3. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OUTPUT SIGNAL

1. Confirm that power window lock switch is in unlocked position.
2. Check continuity between main power window and door lock/unlock switch connector D7 terminals 5, 7 and connector D8 terminal 17.

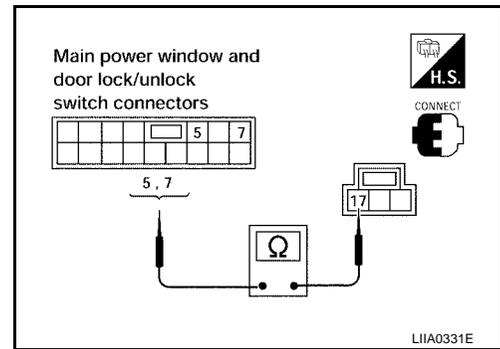
5 - 17 : Continuity should exist.

7 - 17 : Continuity should exist.

OK or NG

OK >> Repair or replace harness.

NG >> Replace main power window and door lock/unlock switch. Refer to [EI-29, "FRONT DOOR"](#).



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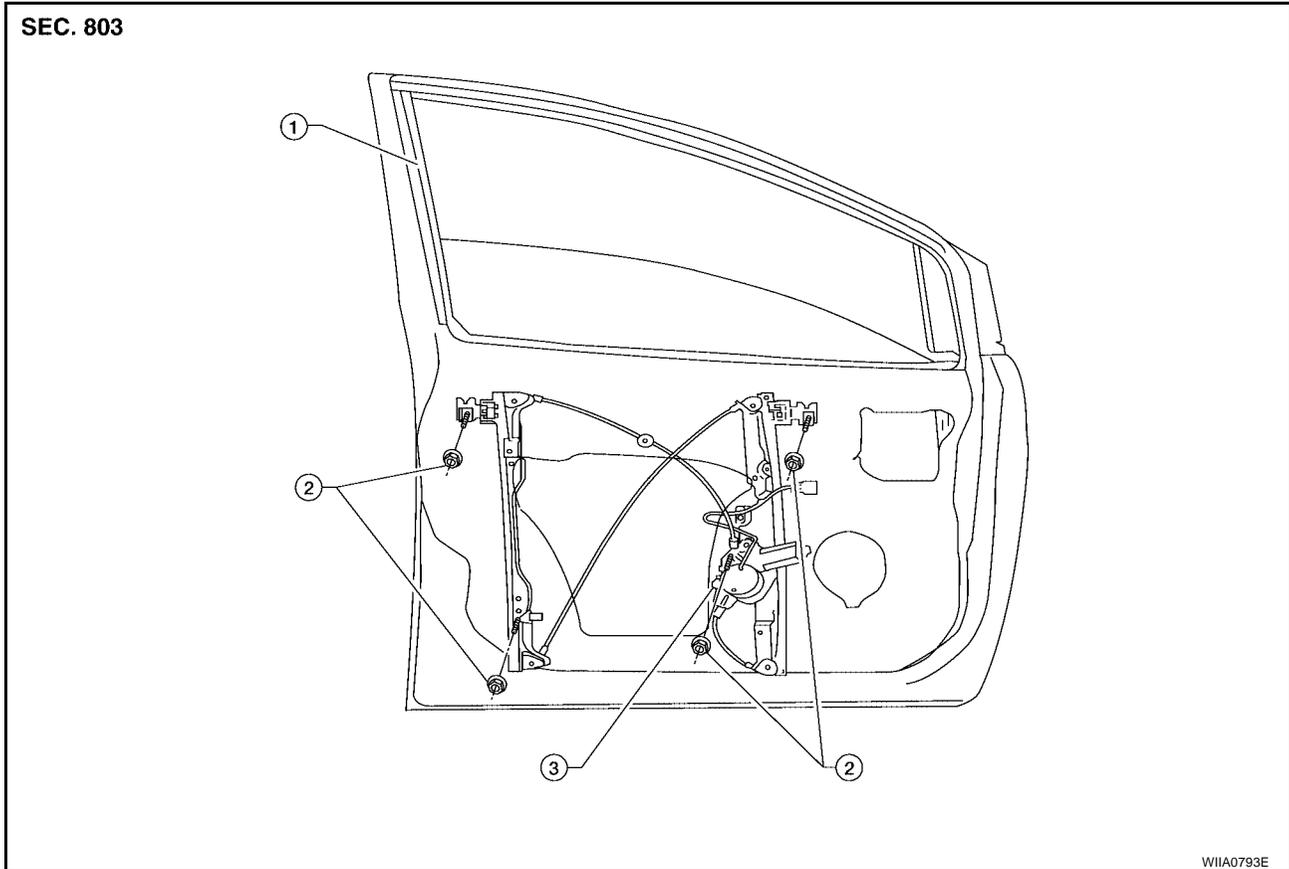
FRONT DOOR GLASS AND REGULATOR

FRONT DOOR GLASS AND REGULATOR

PFP:80300

Removal and Installation

EIS007JJ



1. Door glass run

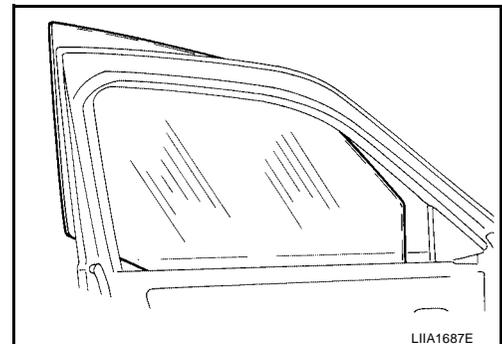
2. Door glass regulator nuts

3. Regulator motor

FRONT DOOR GLASS

Removal

1. Remove the front door speaker. Refer to [AV-78, "Front Door Speaker"](#).
2. Remove the hole cover over rear glass bolt.
3. Connect the battery negative cable.
4. Temporarily reconnect the power window switch to the door harness.
5. Operate the power window main switch to raise/lower the door glass until the door glass bolts can be seen.
6. Disconnect the battery negative cable.
7. Remove the inside seal.
8. Remove the door glass bolts.
9. While holding the door window, raise it at the rear end to pull the glass out of the sash toward the outside of the door.



FRONT DOOR GLASS AND REGULATOR

INSTALLATION

Installation is in the reverse order of removal.

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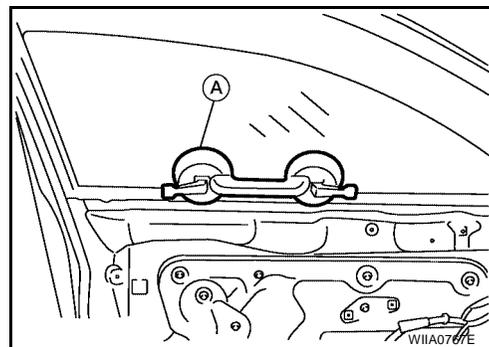
M

FRONT DOOR GLASS AND REGULATOR

FRONT DOOR GLASS REGULATOR

Removal

1. Remove the front door speaker. Refer to [AV-78, "Front Door Speaker"](#).
2. Remove the hole cover over rear glass bolt.
3. Connect the battery negative cable.
4. Temporarily reconnect the power window switch to the door harness.
5. Operate the power window main switch to raise/lower the door glass until the door glass bolts can be seen.
6. Disconnect the battery negative cable.
7. Remove the door glass bolts.
8. Raise the door glass up into the door frame/channel and hold in place with a suitable tool (A).



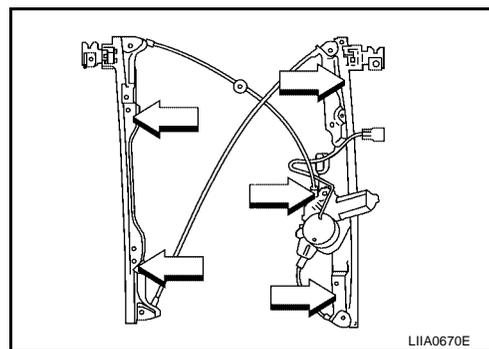
9. Disconnect the harness connector for the regulator assembly.
10. Remove the regulator nuts, and remove the regulator assembly.

INSPECTION AFTER REMOVAL

Check the regulator assembly for the following items. If a malfunction is detected, replace or grease it.

- Wire wear
- Regulator deformation

The arrows in the figure show the application points of the body grease.



INSTALLATION

Installation is in the reverse order of removal. Refer to [GW-84, "FITTING INSPECTION AND SETTING AFTER INSTALLATION"](#).

Door glass bolts : 6.1 N-m (0.62 kg-m, 54 in-lb)

DISASSEMBLY

1. Remove the regulator motor bolts.
2. Remove the regulator motor from the regulator assembly.

ASSEMBLY

Assembly is in the reverse order of disassembly.

FITTING INSPECTION AND SETTING AFTER INSTALLATION

- Check that the glass is securely fit into the glass run groove.

FRONT DOOR GLASS AND REGULATOR

- Lower the glass slightly [approximately 10 to 20 mm (0.39 to 0.79 in)] and check that the clearance to the sash is parallel. If the clearance between the glass and sash is not parallel, loosen the regulator nuts, guide rail bolts, and glass and guide rail bolts to correct the glass position.

SETTING OF LIMIT SWITCH

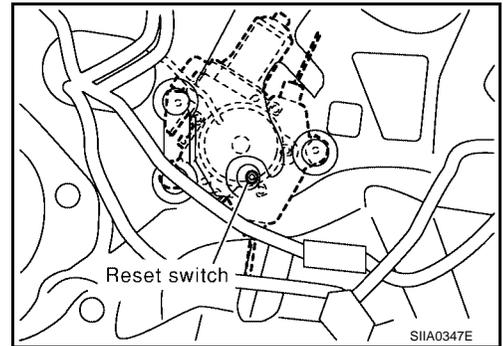
If any of the following work has been done, set the limit switch (integrated in the motor).

- Removal and installation of the regulator.
- Removal and installation of the regulator motor from the regulator.
- Removal and installation of the door glass.
- Removal and installation of the door glass run.

Resetting

After installing each component to the vehicle, perform the following procedure to reset the limit switch.

1. Raise the door glass to the top position.
2. While pressing and holding the reset switch, lower the door glass to the bottom position.



3. Release the reset switch. Verify that the reset switch returns to the original position, and then raises the door glass to the top position.

CAUTION:

Do not operate the door glass automatically to raise the door glass to the top position.

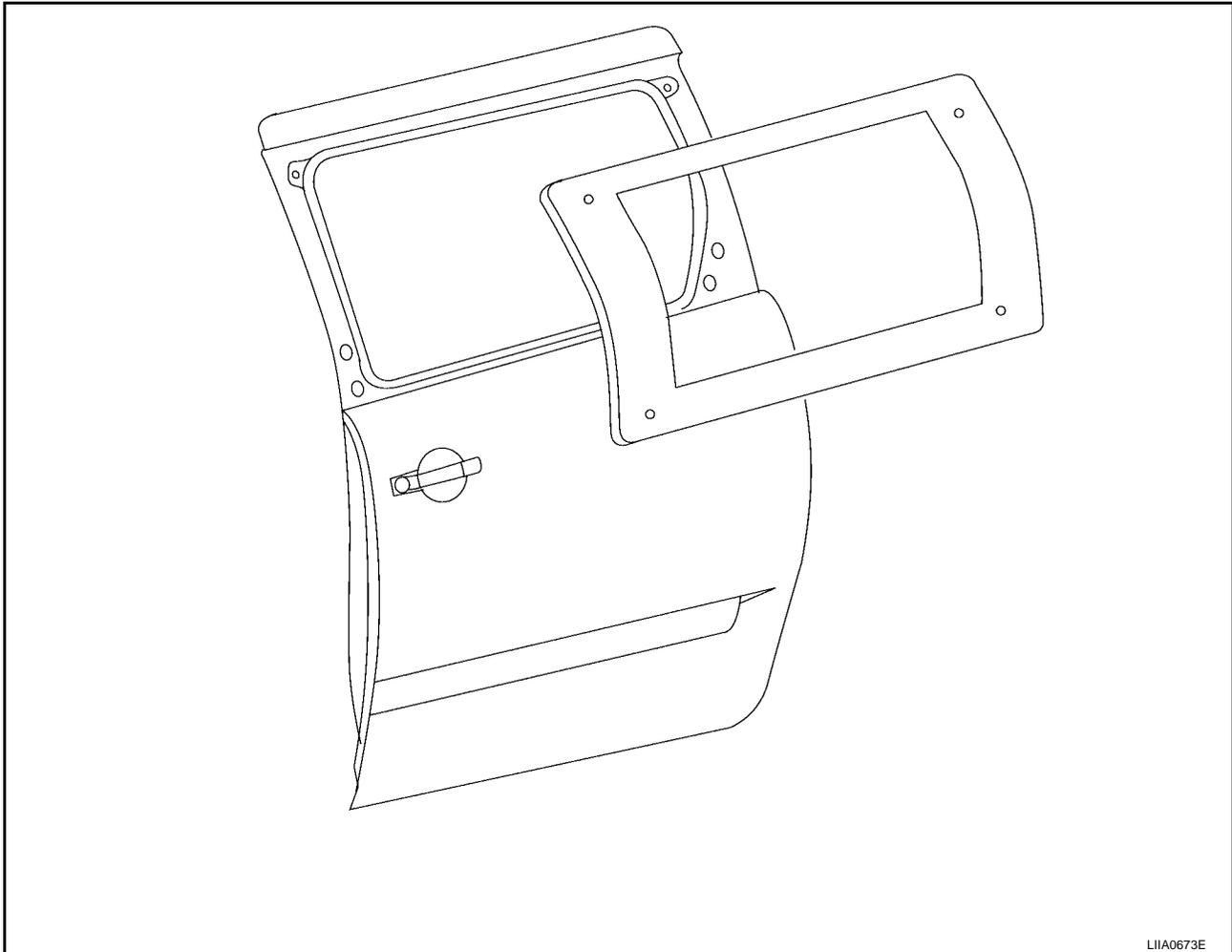
SLIDE DOOR GLASS

SLIDE DOOR GLASS

PF82300

Removal and Installation

EIS0071K



LIA0673E

REMOVAL

1. Apply protective tape around the slide door glass to protect the painted surface from damage.
2. Remove glass using piano wire or power cutting tool and an inflatable pump bag.

WARNING:

When cutting the glass from the vehicle, always wear safety glasses and heavy gloves to help prevent glass splinters from entering your eyes or cutting your hands.

CAUTION:

- When a slide door glass is to be reused, do not use a cutting knife or power cutting tool.
- Be careful not to scratch the glass when removing.
- Do not set or stand the glass on its edge. Small chips may develop into cracks.

INSTALLATION

Installation is in the reverse order of removal.

- Use a genuine NISSAN Urethane Adhesive Kit (if available) or equivalent and follow the instructions furnished with it.
- While the urethane adhesive is curing, open a window. This will prevent the glass from being forced out by passenger compartment air pressure when a door is closed.
- The rubber seal must be installed securely so that it is in position and leaves no gap.
- Inform customer that the vehicle should remain stationary until the urethane adhesive has completely cured (preferably 24 hours). Curing time varies with temperature and humidity.

WARNING:

- Keep heat and open flames away as primers and adhesives are flammable.

SLIDE DOOR GLASS

- The materials contained in the kit are harmful if swallowed, and may irritate skin and eyes. Avoid contact with the skin and eyes. A
- Use in an open, well ventilated location. Avoid breathing the vapors. They can be harmful if inhaled. If affected by vapor inhalation, immediately move to area with fresh air. B
- Driving the vehicle before urethane adhesive has completely cured may affect the performance of the slide door glass in case of an accident. B

CAUTION:

- Do not use an adhesive which is past its usable term. 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. C
- Keep primers and adhesives in a cool dry place. Ideally they should be stored in a refrigerator. D
- Do not leave primers and adhesive cartridge unattended with their caps off. D
- The vehicle should not be driven for at least 24 hours or until the urethane adhesive has completely cured. Curing time depends on temperature and humidity. The curing time will increase under lower temperature and lower humidities. E

Repairing Water Leaks for Slide Door Glass

Leaks can be repaired without removing and reinstalling glass. F

If water is leaking between the urethane adhesive material and body or glass, determine the extent of leakage.

This can be done by applying water to the glass area while pushing glass outward.

To stop the leak, apply primer (if necessary) and then urethane adhesive to the leak point. G

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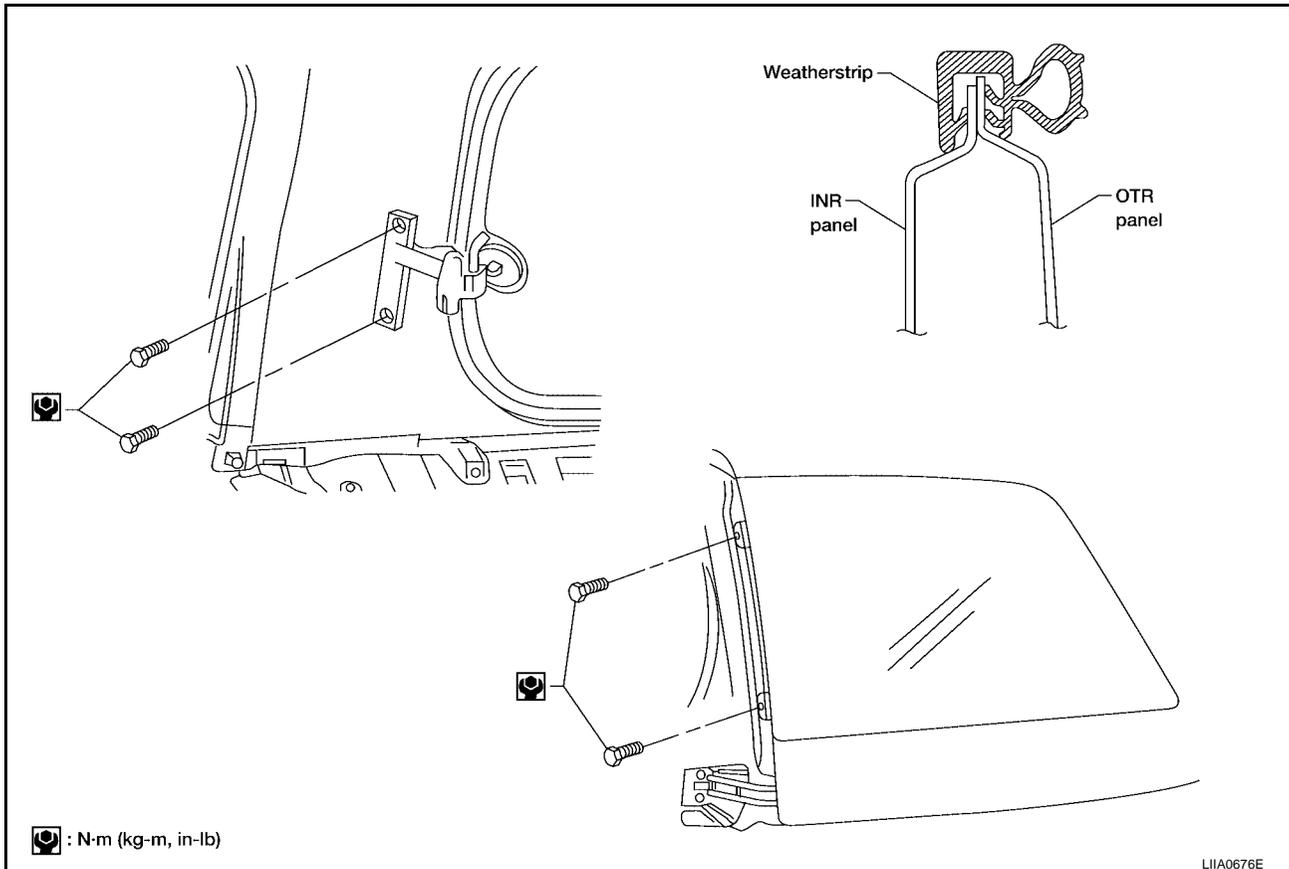
SIDE WINDOW GLASS

SIDE WINDOW GLASS

PFP:83300

Removal and Installation (without Rear Power Vent Windows)

EIS007IL



REMOVAL

1. Remove the rear pillar upper finisher. Refer to [EI-32, "BODY SIDE TRIM"](#) .
2. Remove the rear side window latch bolts.
3. Disconnect the antenna.
4. Remove the side window front bolts and glass.

CAUTION:

- Be careful not to scratch the glass when removing.
- Do set or stand glass on its edge. Small chips may develop into cracks.

INSTALLATION

1. Install the glass from outside to insure that it is even with the top and bottom of the opening. Tighten side window front bolts to the specified torque.

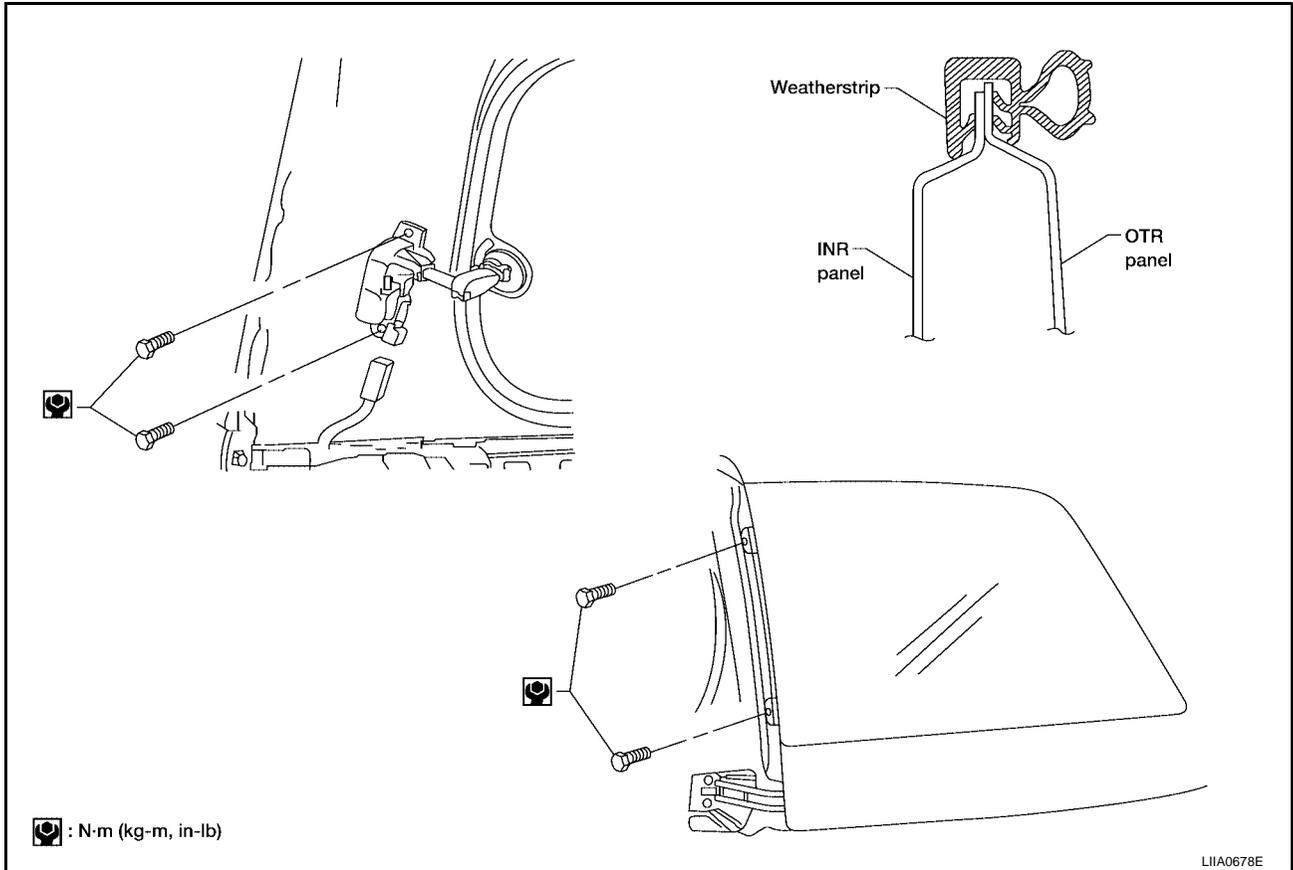
Glass bolts : 3.5 N-m (0.35 kg-m, 31 in-lb)

2. Install rear side window latch bolts.
3. Connect the antenna.
4. Install rear pillar upper finisher. Refer to [EI-32, "BODY SIDE TRIM"](#) .

SIDE WINDOW GLASS

Removal and Installation (with Rear Power Vent Windows)

EIS0071M



REMOVAL

1. Remove the rear pillar upper finisher. Refer to [EI-32, "BODY SIDE TRIM"](#).
2. Disconnect the antenna.
3. Disconnect the rear side window motor harness.
4. Remove the rear side window motor bolts.
5. Remove the side window front bolts and glass.

CAUTION:

- Be careful not to scratch the glass when removing.
- Do not set or stand glass on its edge. Small chips may develop into cracks.

INSTALLATION

1. Install the glass from outside to insure that it is even with the top and bottom of the opening. Tighten side window front bolts to the specified torque.

Glass bolts : 3.5 N·m (0.35 kg·m, 31 in·lb)

2. Install rear side window motor bolts.
3. Connect the rear side window motor harness.
4. Connect the antenna.
5. Install rear pillar upper finisher. Refer to [EI-32, "BODY SIDE TRIM"](#).

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INSIDE MIRROR

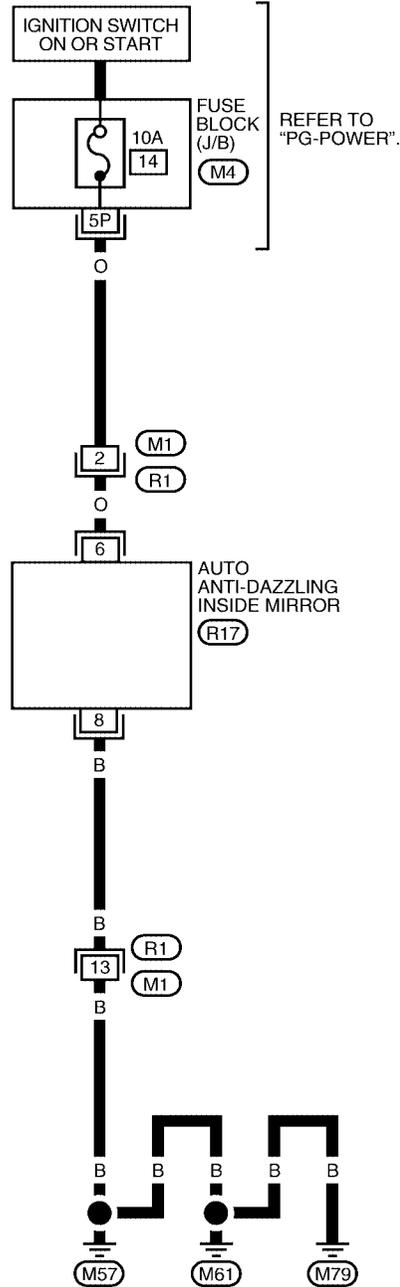
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INSIDE MIRROR

Wiring Diagram — I/MIRR —

EIS007IN

GW-I/MIRR-01



1P	2P	3P	4P	5P	6P	7P	M4		
8P	9P	10P	11P	12P	13P	14P	15P	16P	W

1	2	3	4	5	6	7	R1		
8	9	10	11	12	13	14	15	16	W

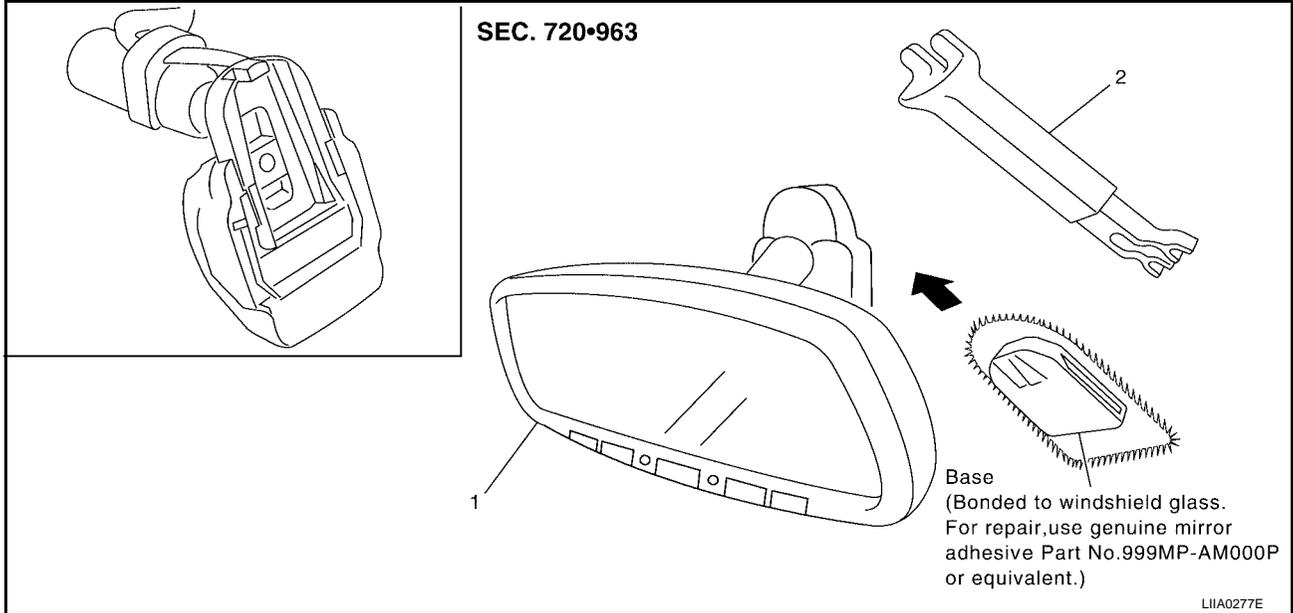
			R17
6	8	10	B

WIWA1033E

INSIDE MIRROR

EIS00710

Inside Mirror REMOVAL AND INSTALLATION



1. Inside mirror

2. Inside mirror finisher

REMOVAL

1. Remove inside mirror finisher.
2. Remove inside mirror screw.
3. Slide the mirror upward to remove.
4. Disconnect the connector.

INSTALLATION

Installation is in the reverse order of removal.

A
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M

GW

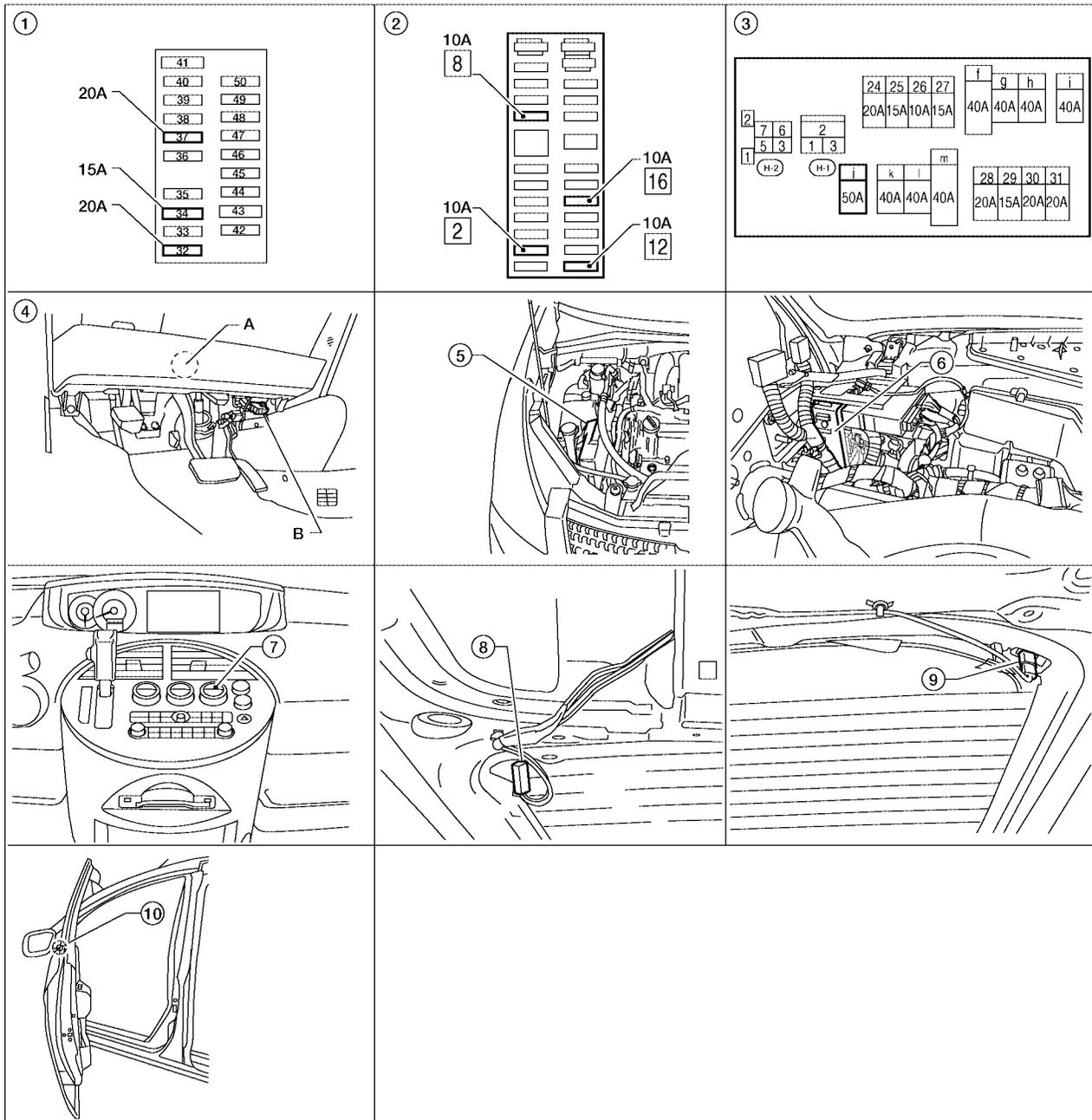
REAR WINDOW DEFOGGER

REAR WINDOW DEFOGGER

PF2:25350

Component Parts and Harness Connector Location

EIS0071P



LIA2250E

1. IPDM E/R fuse layout
2. Fuse block (J/B)
3. Fuse and fusible link box
4. A. Rear window defogger relay B4
B. Data link connector M22
5. IPDM E/R E119, E121, E124
6. BCM M18, M19 (View with instrument panel removed)
7. Front air control M49
8. Rear window defogger D504 (View of back door LH with back door upper finisher removed)
9. Rear window defogger ground connector D515 (View of back door RH with back door upper finisher removed)
10. Door mirror LH (door mirror defogger) D13
Door mirror RH (door mirror defogger) D113

REAR WINDOW DEFOGGER

System Description

EIS0071Q

The rear window defogger system is controlled by BCM (body control module) and IPDM E/R (intelligent power distribution module engine room).

The rear window defogger operates only for approximately 15 minutes.

Power is supplied at all times

- through 20A fuses (No. 32, and 37, located in the IPDM E/R)
- to rear window defogger relay terminals 3 and 6
- through 50A fusible link (letter j , located in the fuse and fusible link box)
- to BCM terminal 55.

With the ignition switch turned to ON or START position, power is supplied

- through 10A fuse [No.12, located in the fuse block (J/B)]
- to rear window defogger relay terminal 1
- through 10A fuse [No.16, located in the fuse block (J/B)]
- to BCM terminal 38
- through 10A fuse [No. 2, located in the fuse block (J/B)]
- to front air control terminal 14.

Ground is supplied

- to BCM terminal 52
- to front air control terminal 1
- through body grounds M57, M61 and M79
- to IPDM E/R terminals 38 and 60
- through body grounds E9, E15 and E24.

When front air control (rear window defogger switch) is turned to ON, ground is supplied

- to BCM terminal 9
- through front air control terminal 11
- through front air control terminal 1
- through body grounds M57, M61 and M79.

Then rear window defogger switch is illuminated.

Then BCM recognizes that rear window defogger switch is turned to ON.

Then it sends rear window defogger switch signals to IPDM E/R and display control unit (with navigation) or display unit (without navigation) via CAN communication (CAN-H, CAN-L).

When IPDM E/R receives rear window defogger switch signals, ground is supplied

- to rear window defogger relay terminal 2
- through IPDM E/R terminal 52
- through IPDM E/R terminal 60
- through body grounds E9, E15 and E24.

Then rear window defogger relay is energized.

With power and ground supplied, rear window defogger filaments heat and defog the rear window.

When rear window defogger relay is turned to ON, (with door mirror defogger), power is supplied

- through rear window defogger relay terminal 5
- through fuse block (J/B) terminal 2Q
- through 10A fuse [No. 8, located in the fuse block (J/B)]
- through fuse block (J/B) terminal 5N.
- to door mirror defogger (LH and RH) terminal 6.

Door mirror defogger (LH and RH) terminal 5 is grounded through body grounds M57, M61 and M79.

With power and ground supplied, door mirror defogger filaments heat and defog the mirror.

CAN Communication System Description

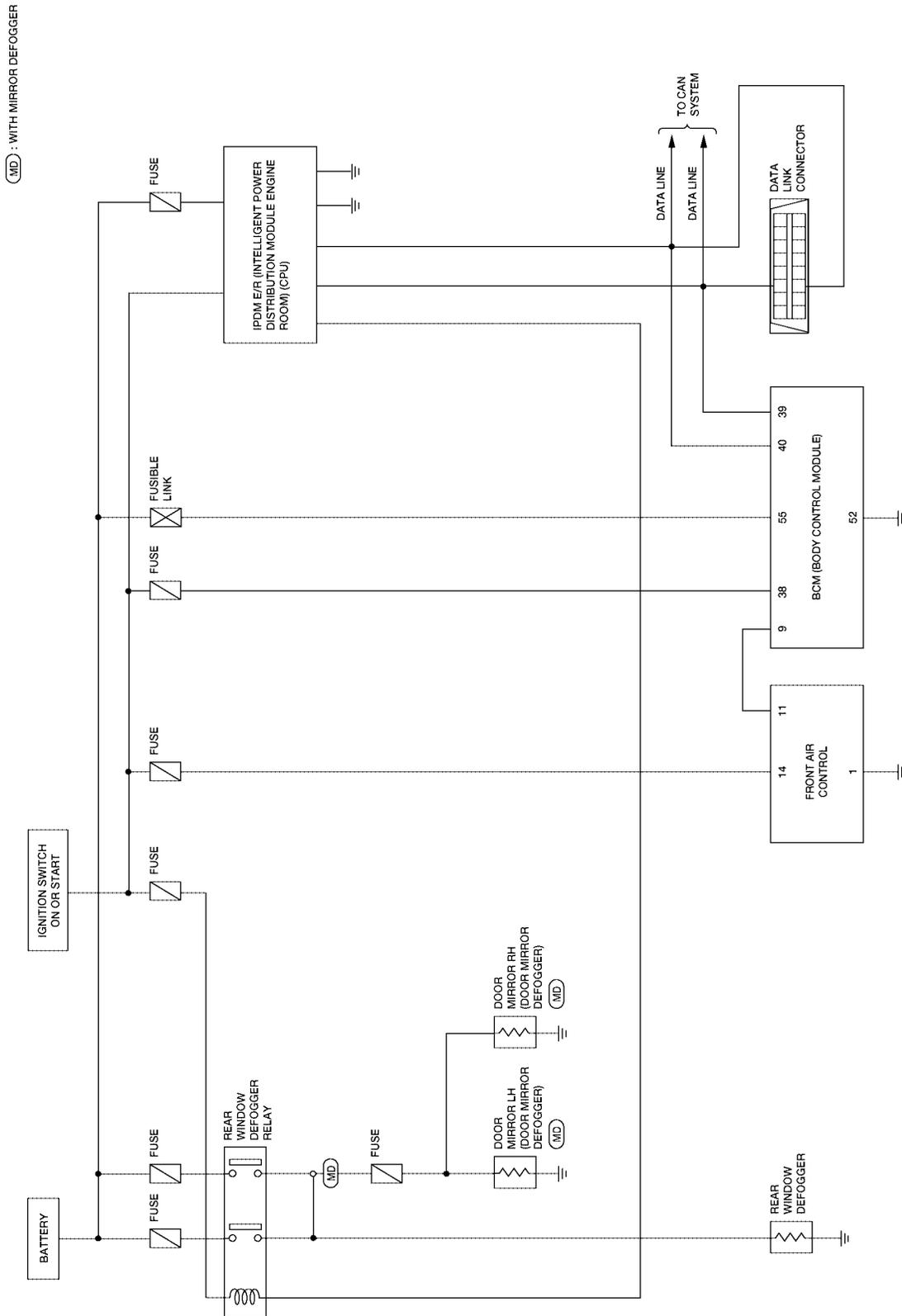
EIS0071R

Refer to [LAN-24, "CAN COMMUNICATION"](#) .

REAR WINDOW DEFOGGER

Schematic

EIS007IS

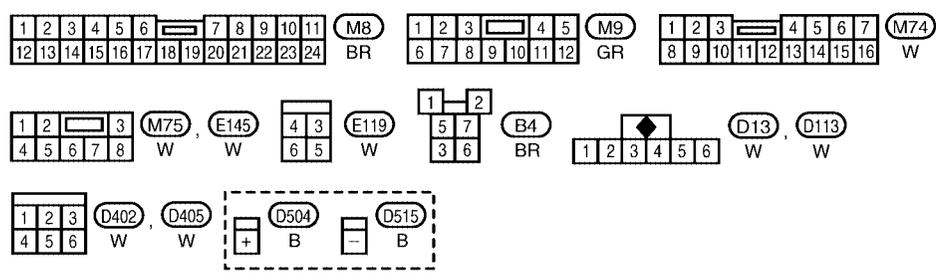
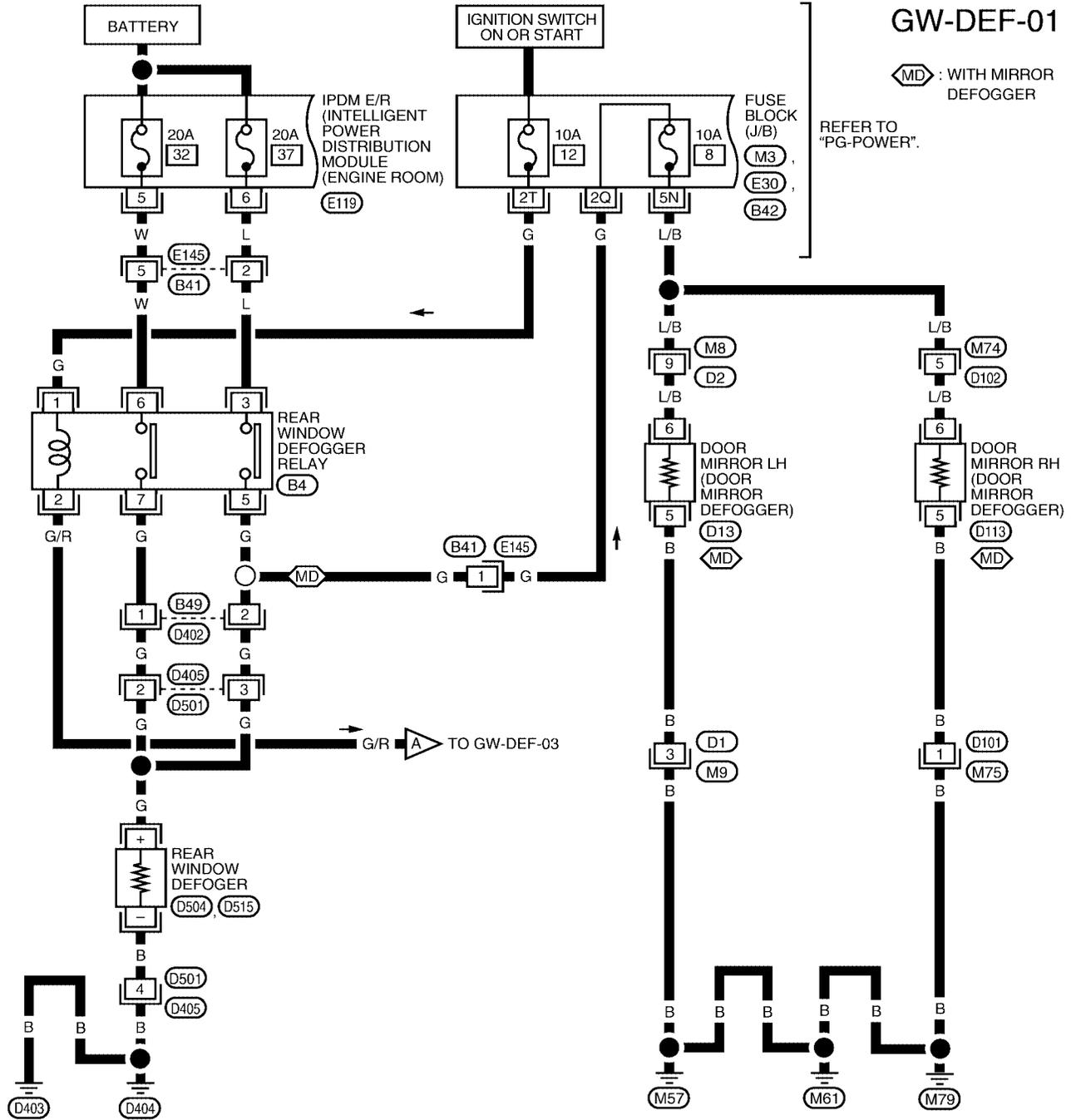


WIWA0472E

REAR WINDOW DEFOGGER

Wiring Diagram — DEF —

EIS007IT



REFER TO THE FOLLOWING.
 (M3), (E30), (B42) - FUSE BLOCK JUNCTION BOX (J/B)

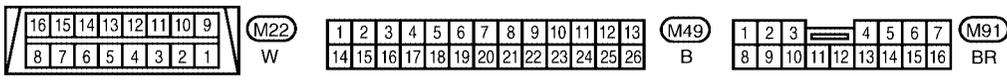
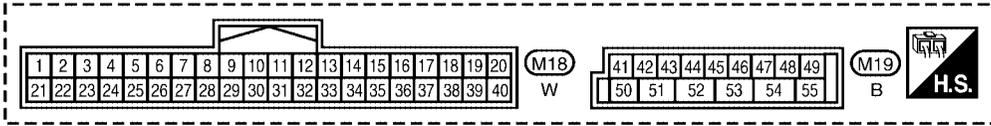
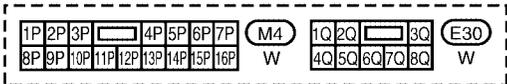
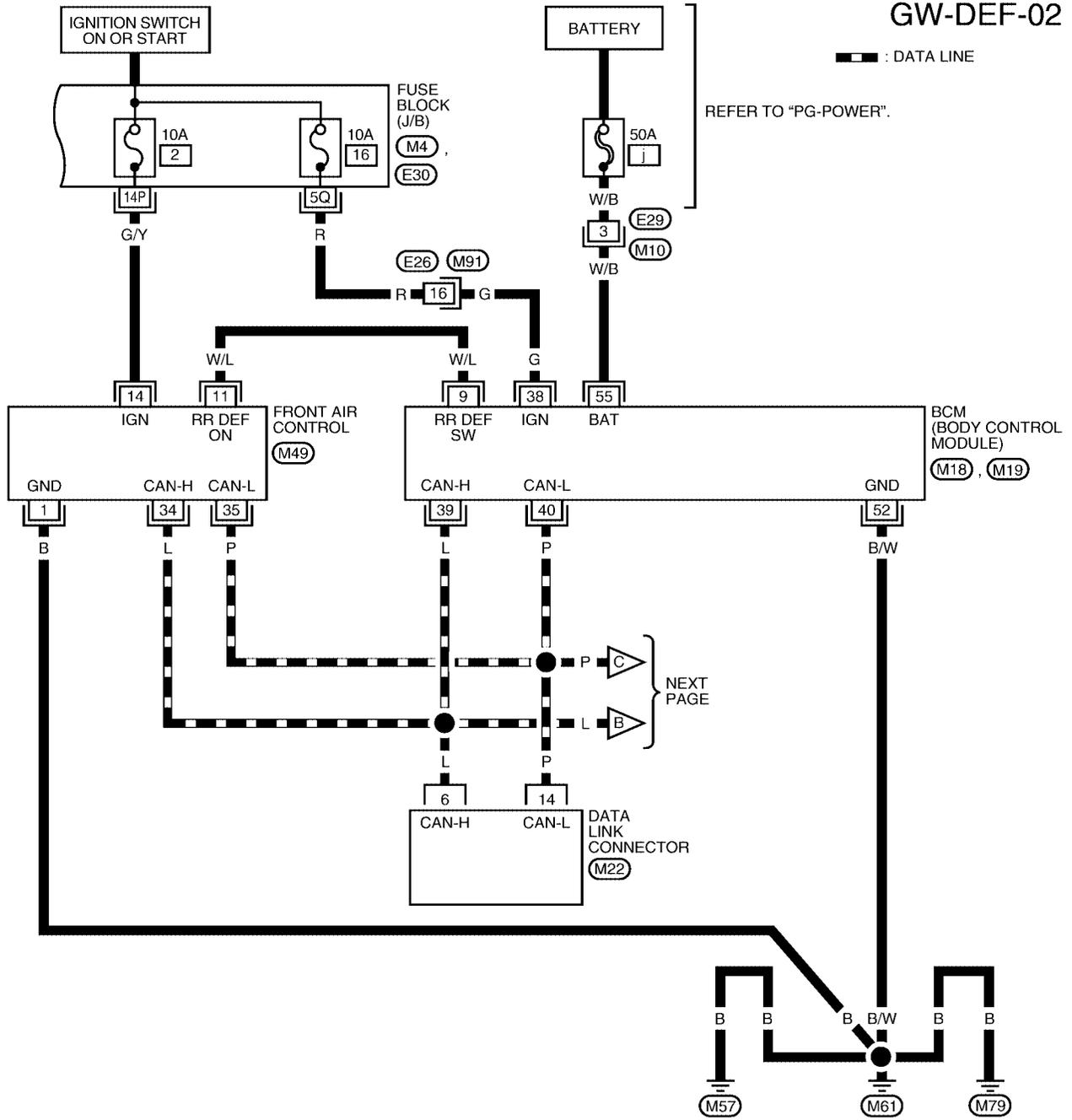
WIWA2103E

REAR WINDOW DEFOGGER

GW-DEF-02

DATA LINE

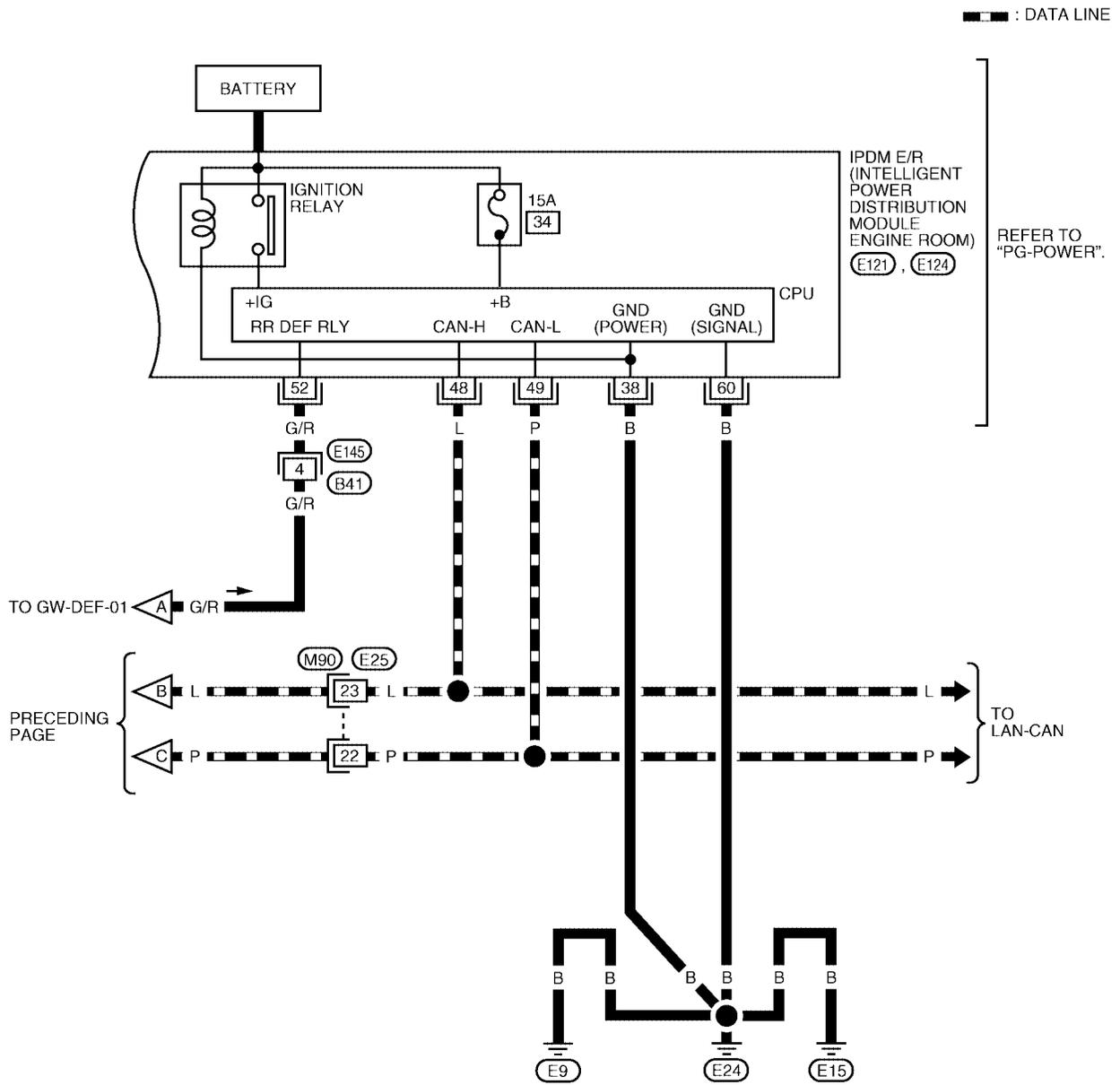
REFER TO "PG-POWER".



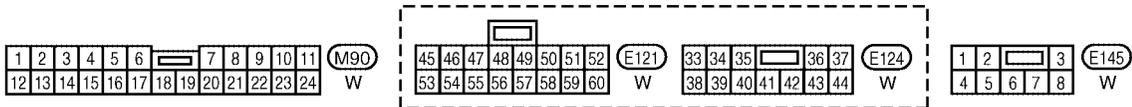
WIWA1035E

REAR WINDOW DEFOGGER

GW-DEF-03



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W1WA0475E

REAR WINDOW DEFOGGER

Terminal and Reference Value for BCM

EIS007IU

Terminal	Wire color	Item	Condition	Voltage (V) (Approx.)
9	W/L	Rear window defogger switch signal	When rear window defogger switch is pressed.	0
			When rear window defogger switch is OFF.	5
38	G	Ignition switch (ON or START)	Ignition switch (ON or START position)	Battery voltage
39	L	CAN-H	—	—
40	P	CAN-L	—	—
52	B/W	Ground	—	0
55	W/B	Battery power supply	—	Battery voltage

Terminal and Reference Value for IPDM E/R

EIS007IV

Terminal	Wire color	Item	Condition	Voltage (V) (Approx.)
38	B	Ground (Power)	—	0
48	L	CAN-H	—	—
49	P	CAN-L	—	—
52	G/R	Rear window defogger relay control signal	When rear window defogger switch is ON.	0
			When rear window defogger switch is OFF.	Battery voltage
60	B	Ground (Signal)	—	0

Work Flow

EIS007IW

1. Check the symptom and customer's requests.
2. Understand the outline of system. Refer to [GW-93, "System Description"](#) .
3. According to the trouble diagnosis chart, repair or replace the cause of the malfunction. Refer to [GW-100, "Trouble Diagnoses Symptom Chart"](#) .
4. Does rear window defogger operate normally? YES: GO TO 5, NO: GO TO 3.
5. Inspection End.

REAR WINDOW DEFOGGER

CONSULT-II Function (BCM)

EIS0071X

CONSULT-II can display each diagnostic item using the diagnostic test modes shown following.

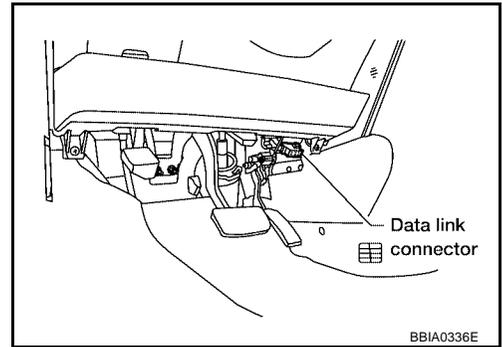
BCM diagnostic test item	Diagnostic mode	Content
Inspection by part	WORK SUPPORT	Changes setting of each function.
	DATA MONITOR	Displays BCM input/output data in real time.
	ACTIVE TEST	Operation of electrical loads can be checked by sending drive signal to them.
	SELF-DIAG RESULTS	Displays BCM self-diagnosis results.
	CAN DIAG SUPPORT MNTR	The results of transmit/receive diagnosis of CAN communication can be read.
	ECU PART NUMBER	BCM part number can be read.
	CONFIGURATION	Performs BCM configuration read/write functions.

CONSULT-II BASIC OPERATION PROCEDURE

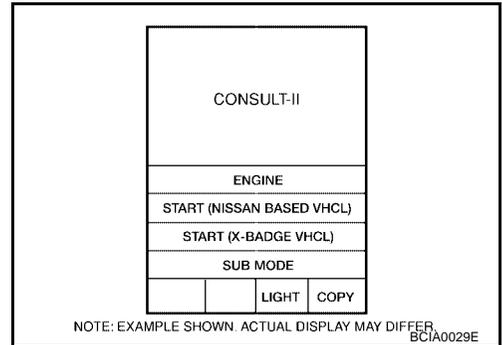
CAUTION:

If CONSULT-II is used with no connection of CONSULT-II CONVERTER, malfunctions might be detected in self-diagnosis depending on control unit which carries out CAN communication.

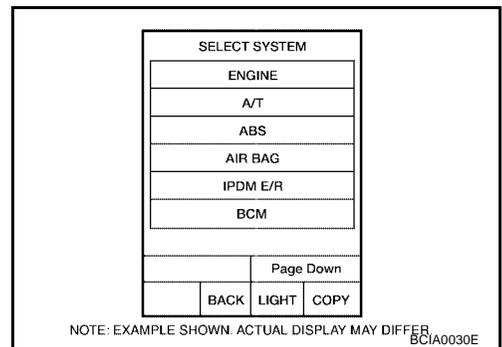
1. Turn ignition switch OFF.
2. Connect CONSULT-II and CONSULT-II CONVERTER to data link connector.
3. Turn ignition switch ON.



4. Touch "START (NISSAN BASED VHCL)".

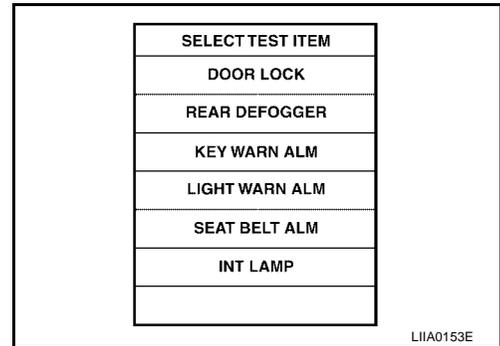


5. Touch "BCM".
If "BCM" is not indicated, go to [GI-38, "CONSULT-II Data Link Connector \(DLC\) Circuit"](#).

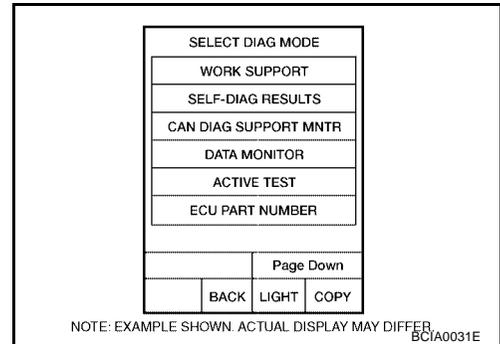


REAR WINDOW DEFOGGER

6. Touch "REAR DEFOGGER".



7. Select diagnosis mode, "DATA MONITOR" and "ACTIVE TEST".



DATA MONITOR Display Item List

Monitor item "Operation"		Content
REAR DEF SW	"ON/OFF"	Displays "Press (ON)/others (OFF)" status determined with the rear window defogger switch.
IGN ON SW	"ON/OFF"	Displays "IGN (ON)/OFF" status determined with the ignition switch signal.

ACTIVE TEST Display Item List

Test item	Content
REAR WINDOW DEFOGGER	Gives a drive signal to the rear window defogger to activate it.

Trouble Diagnoses Symptom Chart

EIS0071Y

- Make sure other systems using the signal of the following systems operate normally.

Symptom	Diagnoses / Service procedure	Refer to page
Rear window defogger and door mirror defoggers do not operate. (With door mirror defogger)	1. BCM power supply and ground circuit check	GW-102
	2. IPDM E/R auto active test check	PG-22
	3. Rear window defogger switch circuit check	GW-103
	4. Rear window defogger power supply circuit check	GW-104
	5. Replace IPDM E/R	PG-29
Rear window defogger does not operate. (Without door mirror defogger)	1. BCM power supply and ground circuit check	GW-102
	2. IPDM E/R auto active test check	PG-22
	3. Rear window defogger switch circuit check	GW-103
	4. Rear window defogger power supply circuit check	GW-104
	5. Rear window defogger circuit check	GW-106
	6. Filament check	GW-111
Rear window defogger does not operate but both door mirror defoggers operate. (With door mirror defogger)	7. Replace IPDM E/R	PG-29
	1. Rear window defogger circuit check	GW-106
	2. Filament check	GW-111

REAR WINDOW DEFOGGER

Symptom	Diagnoses / Service procedure	Refer to page
Both door mirror defoggers do not operate but rear window defogger operates. (With door mirror defogger)	1. Door mirror defogger power supply circuit check	GW-107
Door mirror LH defogger does not operate.	1. Door mirror LH defogger circuit check	GW-108
Door mirror RH defogger does not operate.	1. Door mirror RH defogger circuit check	GW-109
Rear window defogger switch does not light, and rear window defogger is not displayed on the display, but rear window defogger operates.	1. Rear window defogger signal check	GW-110

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REAR WINDOW DEFOGGER

EIS0071Z

BCM Power Supply and Ground Circuit Check

1. CHECK FUSE AND FUSIBLE LINK

- Check 10A fuse [No.16, located in fuse block (J/B)]
- Check 50A fusible link (letter j , located in the fuse and fusible link box)

NOTE:

Refer to [GW-92, "Component Parts and Harness Connector Location"](#) .

OK or NG

OK >> GO TO 2.

NG >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse. Refer to [PG-4, "POWER SUPPLY ROUTING CIRCUIT"](#) .

2. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch ON.
2. Check voltage between BCM connector M18, M19 terminals 38, 55 and ground.

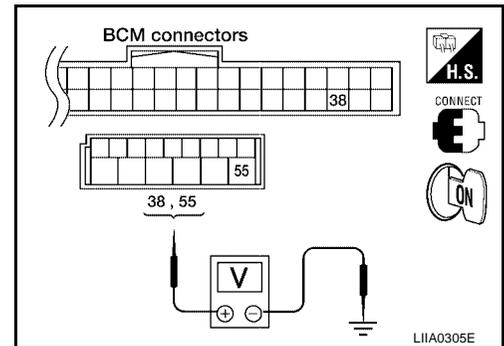
55 - Ground : Battery voltage

38 - Ground : Battery voltage

OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.



3. CHECK GROUND CIRCUIT

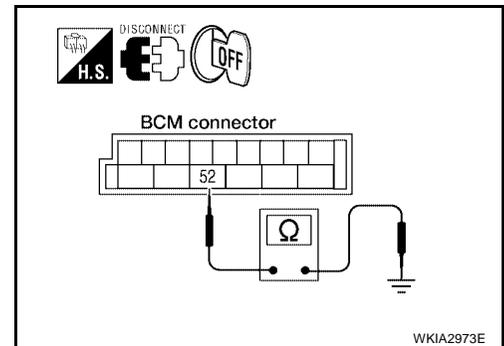
1. Turn ignition switch OFF.
2. Disconnect BCM.
3. Check continuity between BCM connector M19 terminal 52 and ground.

52 - Ground : Continuity should exist.

OK or NG

OK >> BCM power supply and ground circuit is OK.

NG >> Repair or replace harness.



REAR WINDOW DEFOGGER

EIS007J0

Rear Window Defogger Switch Circuit Check

1. CHECK REAR WINDOW DEFOGGER SWITCH OPERATION

With CONSULT-II

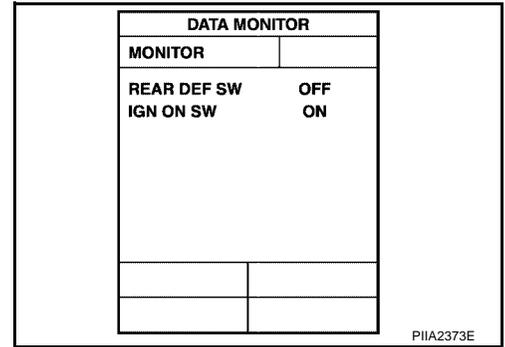
Check ("REAR DEF SW", "IGN ON SW") in DATA MONITOR mode with CONSULT-II.

When rear window defogger switch is turned to ON

REAR DEF SW: ON

When ignition switch is turned to ON

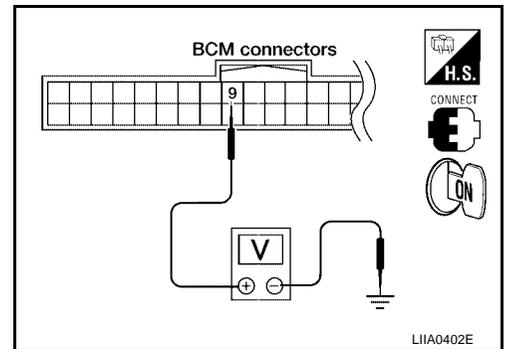
IGN ON SW: ON



Without CONSULT-II

- Turn ignition switch ON.
- Check voltage between BCM connector ground.

Connector	Terminals		Condition	Voltage (V) (Approx.)
	(+)	(-)		
M18	9	Ground	Rear window defogger switch is pressed.	0
			Rear window defogger switch is OFF.	5



OK or NG

- OK >> Rear window defogger switch check is OK.
 NG >> GO TO 2.

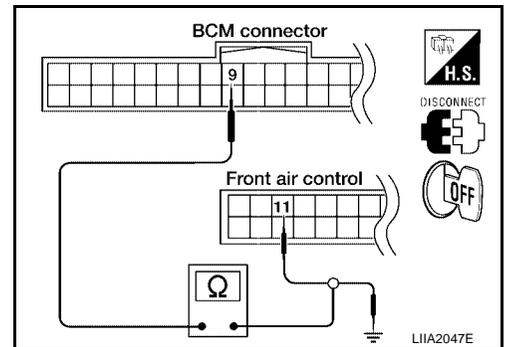
2. CHECK REAR WINDOW DEFOGGER SWITCH CIRCUIT HARNESS CONTINUITY

- Turn ignition switch OFF.
- Disconnect BCM and front air control.
- Check continuity between BCM connector M18 terminal 9 and front air control connector M49 terminal 11.

9 - 11 : Continuity should exist.

- Check continuity between BCM connector M18 terminal 9 and ground

9 - Ground : Continuity should not exist.



OK or NG

- OK >> GO TO 3.
 NG >> Repair or replace harness.

REAR WINDOW DEFOGGER

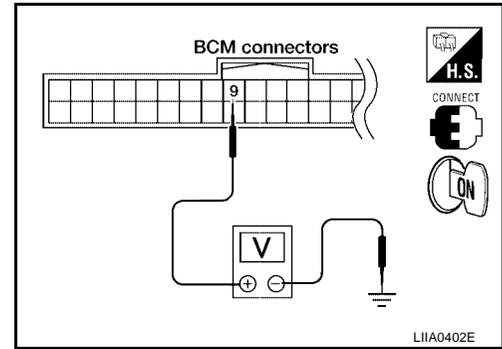
3. CHECK BCM OUTPUT SIGNAL

1. Connect BCM.
2. Turn ignition switch ON.
3. Check voltage between BCM connector M18 terminal 9 and ground.

9 - Ground : Approx. 5V

OK or NG

- OK >> Replace front air control. Refer to [ATC-143, "CONTROL UNIT"](#).
- NG >> Replace BCM. Refer to [BCS-20, "Removal and Installation of BCM"](#).



Rear Window Defogger Power Supply Circuit Check

EIS007J1

1. CHECK FUSES

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

COMPONENT PARTS	TERMINAL NO. (SIGNAL)	AMPERE	FUSE NO.
Fuse block (J/B)	2T (Ignition power supply)	10A	12
IPDM E/R	5 (Battery power supply)	20A	32
	6 (Battery power supply)	20A	37

NOTE:

Refer to [GW-92, "Component Parts and Harness Connector Location"](#).

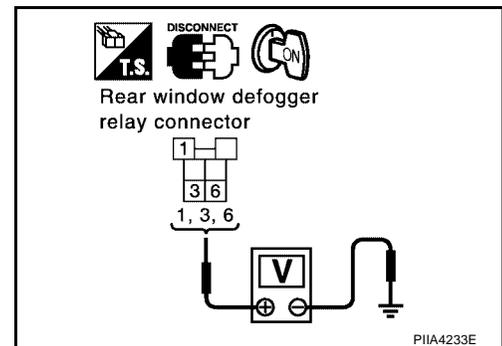
OK or NG

- OK >> GO TO 2.
- NG >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse, refer to [GW-92, "Component Parts and Harness Connector Location"](#).

2. CHECK REAR WINDOW DEFOGGER RELAY POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect rear window defogger relay.
3. Turn ignition switch ON.
4. Check voltage between rear window defogger relay connector and ground.

Connector	Terminals		Voltage (V) (Approx.)
	(+)	(-)	
B4	1	Ground	Battery voltage
	3		
	6		



OK or NG

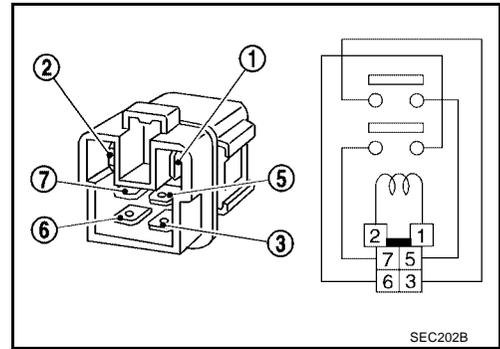
- OK >> GO TO 3.
- NG >> Repair or replace harness.

REAR WINDOW DEFOGGER

3. CHECK REAR WINDOW DEFOGGER RELAY

Check continuity between rear window defogger relay terminals 3 and 5, 6 and 7.

Terminals		Condition	Continuity
6	7	12V direct current supply between terminals 1 and 2	Yes
		No current supply	No
3	5	12V direct current supply between terminals 1 and 2	Yes
		No current supply	No



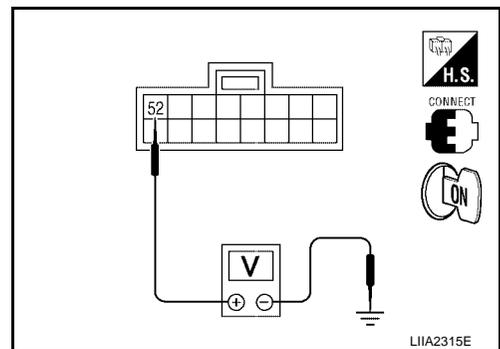
OK or NG

- OK >> GO TO 4.
- NG >> Replace rear window defogger relay.

4. CHECK REAR WINDOW DEFOGGER RELAY GROUND CIRCUIT

1. Install rear window defogger relay.
2. Turn ignition switch ON.
3. Check voltage between IPDM E/R connector E121 terminal 52 and ground.

Connector	Terminals		Condition	Voltage (V) (Approx.)
	(+)	(-)		
E121	52	Ground	When rear window defogger switch ON	0
			When rear window defogger switch OFF	Battery voltage



OK or NG

- OK >> Rear window defogger power supply circuit check is OK.
- NG >> GO TO 5.

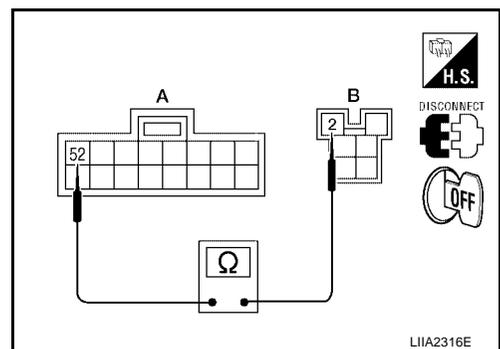
5. CHECK IPDM E/R HARNESS

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R and rear window defogger relay.
3. Check continuity between IPDM E/R connector E121 (A) terminal 52 and rear window defogger relay connector B4 (B) terminal 2.

52 - 2 : Continuity should exist.

OK or NG

- OK >> Replace IPDM E/R. Refer to [PG-29, "Removal and Installation of IPDM E/R"](#).
- NG >> Repair or replace harness.



REAR WINDOW DEFOGGER

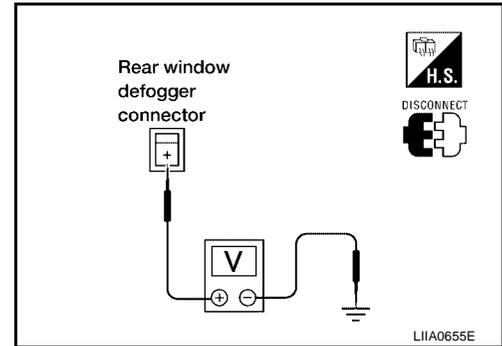
EIS007J2

Rear Window Defogger Circuit Check

1. CHECK REAR WINDOW DEFOGGER POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect rear window defogger.
3. Turn ignition switch ON.
4. Check voltage between rear window defogger connector D504 terminal + and ground.

Connector	Terminals		Condition	Voltage (V) (Approx.)
	(+)	(-)		
D504	+	Ground	Rear window defogger switch ON.	Battery voltage
			Rear window defogger switch OFF.	0



OK or NG

- OK >> GO TO 2.
NG >> GO TO 3.

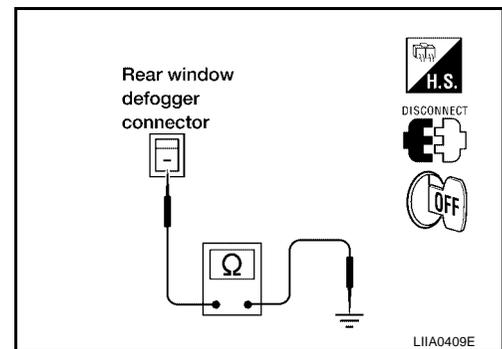
2. CHECK REAR WINDOW DEFOGGER GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between rear window defogger connector D515 terminal - and ground.

-- Ground : Continuity should exist.

OK or NG

- OK >> Check filament. Refer to [GW-111, "Filament Check"](#).
- If filament is OK.
Check the condition of the harness and the connector.
 - If filament is NG.
Repair filament.
- NG >> Repair or replace harness.



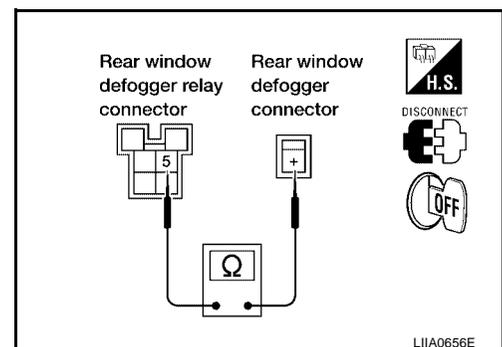
3. CHECK REAR WINDOW DEFOGGER HARNESS

1. Turn ignition switch OFF.
2. Disconnect rear window defogger relay.
3. Check continuity between rear window defogger relay connector B4 terminal 5 and rear window defogger connector D504 terminal +.

5 - + : Continuity should exist.

OK or NG

- OK >> Check the condition of the harness and the connector.
NG >> Repair or replace harness.



REAR WINDOW DEFOGGER

EIS007J3

Door Mirror Defogger Power Supply Circuit Check

1. CHECK FUSE

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

COMPONENT PARTS	TERMINAL NO. (SIGNAL)	AMPERE	FUSE NO.
Fuse block (J/B)	5N (Battery power supply)	10A	8

NOTE:

Refer to [GW-92, "Component Parts and Harness Connector Location"](#).

OK or NG

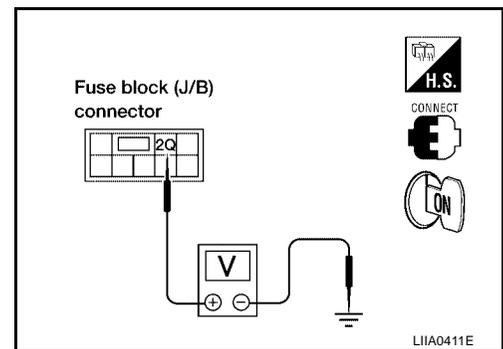
OK >> GO TO 2.

NG >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse. Refer to [GW-92, "Component Parts and Harness Connector Location"](#).

2. CHECK DOOR MIRROR DEFOGGER POWER SUPPLY CIRCUIT 1

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

Connector	Terminals		Condition	Voltage (V) (Approx.)
	(+)	(-)		
E30	2Q	Ground	Rear window defogger switch ON	Battery voltage
			Rear window defogger switch OFF	0



OK or NG

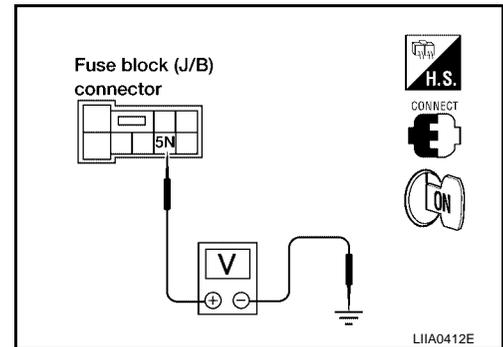
OK >> GO TO 3.

NG >> Repair or replace harness.

3. CHECK DOOR MIRROR DEFOGGER POWER SUPPLY CIRCUIT 2

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

Connector	Terminals		Condition	Voltage (V) (Approx.)
	(+)	(-)		
M3	5N	Ground	Rear window defogger switch ON	Battery voltage
			Rear window defogger switch OFF	0



OK or NG

OK >> GO TO 4.

NG >> Replace fuse block (J/B).

4. CHECK DOOR MIRROR DEFOGGER CIRCUIT

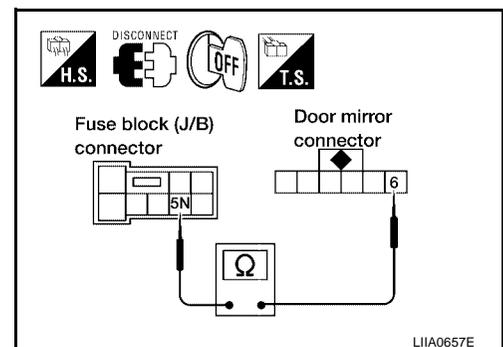
- Turn ignition switch OFF.
- Disconnect fuse block (J/B) and door mirror LH or RH.
- Check continuity between fuse block (J/B) connector M3 terminal 5N and door mirror connector D13 (LH) or D113 (RH) terminal 6.

5N - 6 : Continuity should exist.

OK or NG

OK >> GO TO 5.

NG >> Repair or replace harness.



REAR WINDOW DEFOGGER

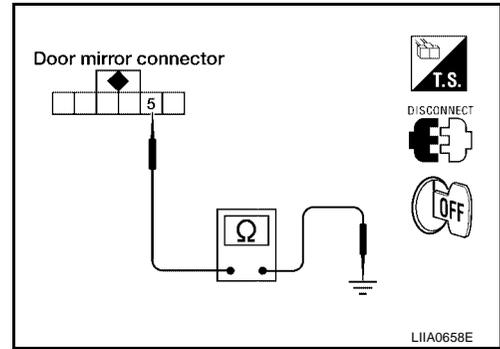
5. CHECK DOOR MIRROR DEFOGGER GROUND CIRCUIT

Check continuity between each door mirror connector D13 (LH) or D113 (RH) terminal 5 and ground.

5 - Ground : Continuity should exist.

OK or NG

- OK >> GO TO 6.
- NG >> Repair or replace harness.



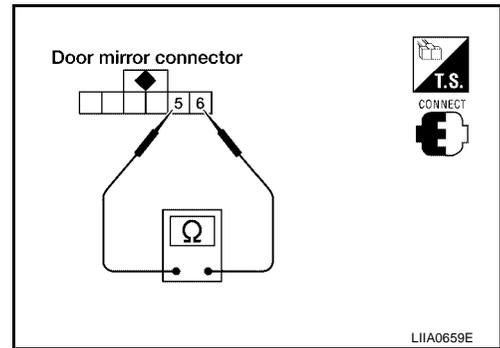
6. CHECK DOOR MIRROR DEFOGGER

1. Connect door mirror LH or RH.
2. Check continuity between each door mirror connector D13 (LH), D113 (RH) terminals 5 and 6.

6 - 5 : Continuity should exist.

OK or NG

- OK >> Check the condition of the harness and the connector.
- NG >> Replace malfunctioning door mirror LH or RH. Refer to [GW-115, "Door Mirror Assembly"](#).



Door Mirror LH Defogger Circuit Check

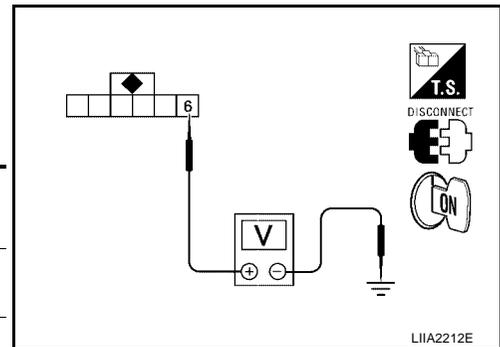
1. CHECK DOOR MIRROR DEFOGGER POWER SUPPLY CIRCUIT

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.

Connector	Terminals		Condition	Voltage (V) (Approx.)
	(+)	(-)		
D13	6	Ground	Rear window defogger switch ON	Battery voltage
			Rear window defogger switch OFF	0

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace harness.



REAR WINDOW DEFOGGER

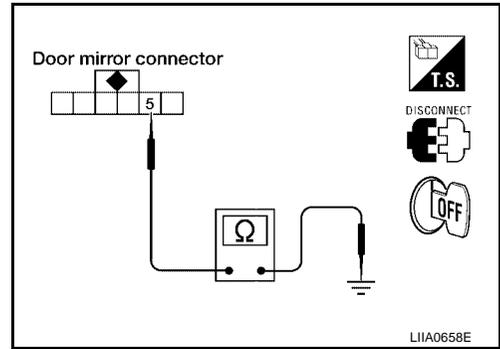
2. CHECK DOOR MIRROR DEFOGGER GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between door mirror LH connector D13 terminal 5 and ground.

5 - Ground : Continuity should exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair or replace harness.



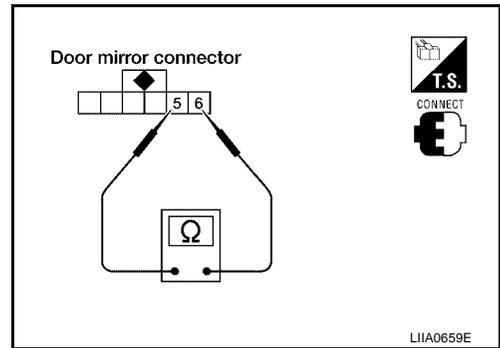
3. CHECK DOOR MIRROR DEFOGGER

1. Connect door mirror LH.
2. Check continuity between door mirror LH connector D13 terminals 5 and 6.

6 - 5 : Continuity should exist.

OK or NG

- OK >> Repair or replace harness.
 NG >> Replace door mirror LH. Refer to [GW-115, "Door Mirror Assembly"](#).



Door Mirror RH Defogger Circuit Check

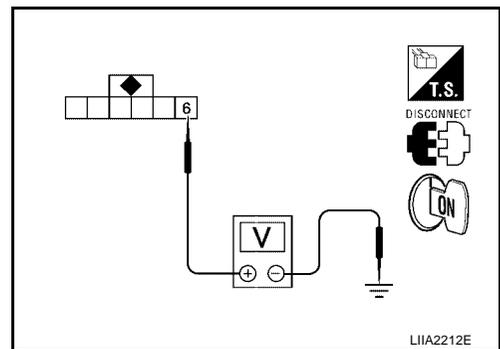
1. CHECK DOOR MIRROR DEFOGGER POWER SUPPLY CIRCUIT

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.

Connector	Terminals		Condition	Voltage (V) (Approx.)
	(+)	(-)		
D113	6	Ground	Rear window defogger switch ON	Battery voltage
			Rear window defogger switch OFF	0

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace harness.



REAR WINDOW DEFOGGER

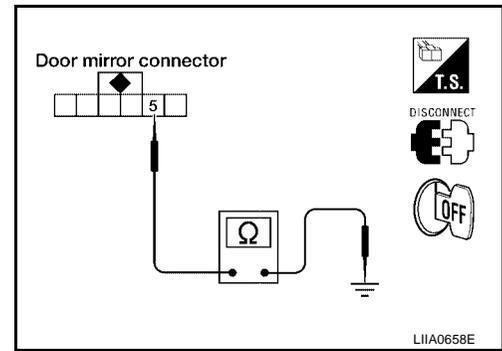
2. CHECK DOOR MIRROR DEFOGGER GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between door mirror RH connector D113 terminal 5 and ground.

5 - Ground : Continuity should exist.

OK or NG

- OK >> GO TO 3.
NG >> Repair or replace harness.



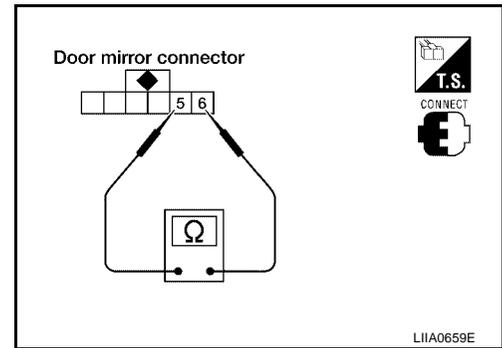
3. CHECK DOOR MIRROR DEFOGGER

1. Connect door mirror RH.
2. Check continuity between each door mirror RH connector D113 terminals 5 and 6.

6 - 5 : Continuity should exist.

OK or NG

- OK >> Repair or replace harness.
NG >> Replace door mirror RH. Refer to [GW-115, "Door Mirror Assembly"](#).



Rear Window Defogger Signal Check

1. CHECK AV COMMUNICATION LINE

AV communication line check is executed. Refer to [AV-150, "AV Communication Line Check \(With Monochrome Display Unit\)"](#).

Is rear window defogger displayed on the display?

OK or NG

- OK >> GO TO 2.
NG >> Replace display control unit. Refer to [AV-162, "Display Unit"](#).

2. CHECK CAN COMMUNICATION LINE

CAN communication line check is executed. Refer to [AV-159, "CAN Communication Line Check \(With Monochrome Display Unit\)"](#).

OK or NG

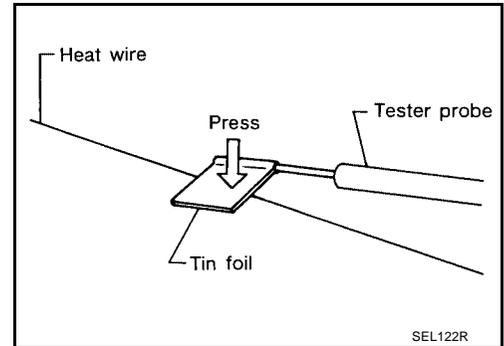
- OK >> Check the condition of the harness and the connector.
NG >> In addition, it is necessary to check CAN communication line. Refer to [AV-159, "CAN Communication Line Check \(With Monochrome Display Unit\)"](#).

REAR WINDOW DEFOGGER

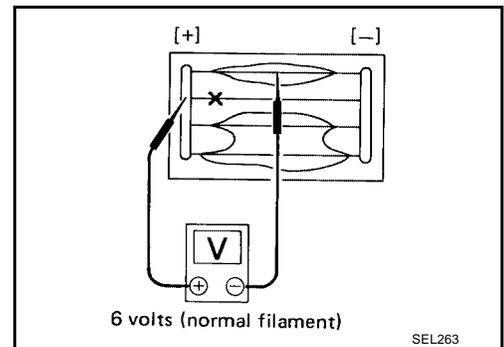
Filament Check

EIS007J7

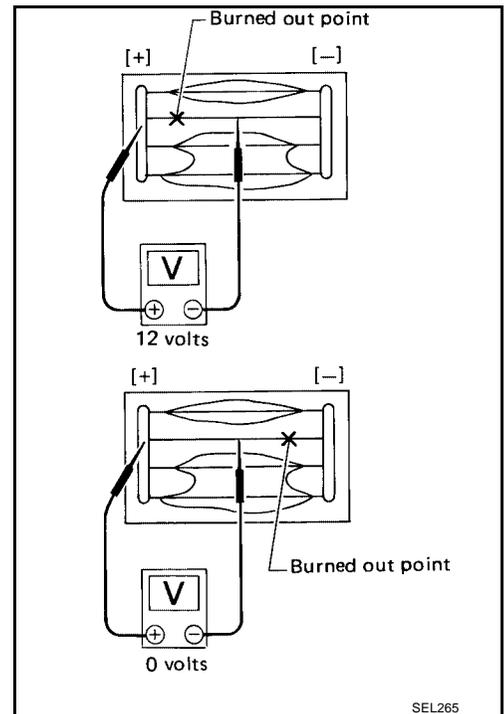
1. When measuring voltage, wrap tin foil around the top of the negative probe. Then press the foil against the wire with your finger.



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.



Filament Repair REPAIR EQUIPMENT

EIS007J8

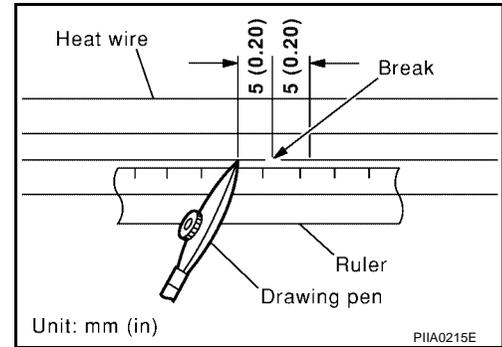
- Conductive silver composition (DuPont No. 4817 or equivalent)
- Ruler 30 cm (11.8 in) long
- Drawing pen
- Heat gun
- Alcohol
- Cloth

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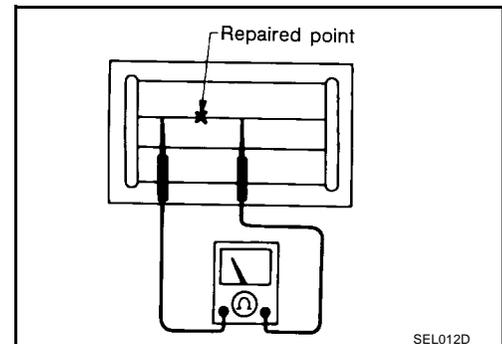
REAR WINDOW DEFOGGER

REPAIRING PROCEDURE

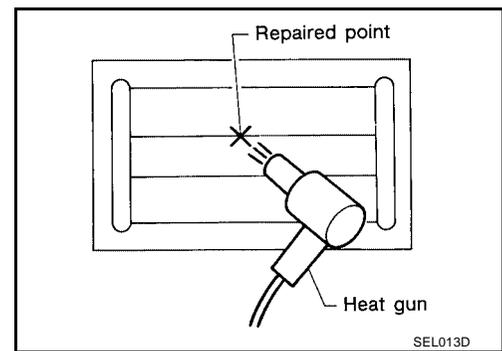
1. Wipe broken heat wire and its surrounding area clean with a cloth dampened in alcohol.
2. Apply a small amount of conductive silver composition to tip of drawing pen. Shake silver composition container before use.
3. Place ruler on glass along broken line. Deposit conductive silver composition on 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.



DOOR MIRROR

DOOR MIRROR

PFP:96301

Automatic Drive Positioner Reverse Tilt Mirror

E/S007J9

Automatic drive positioner reverse tilt mirror. Refer to [SE-11, "AUTOMATIC DRIVE POSITIONER"](#) .

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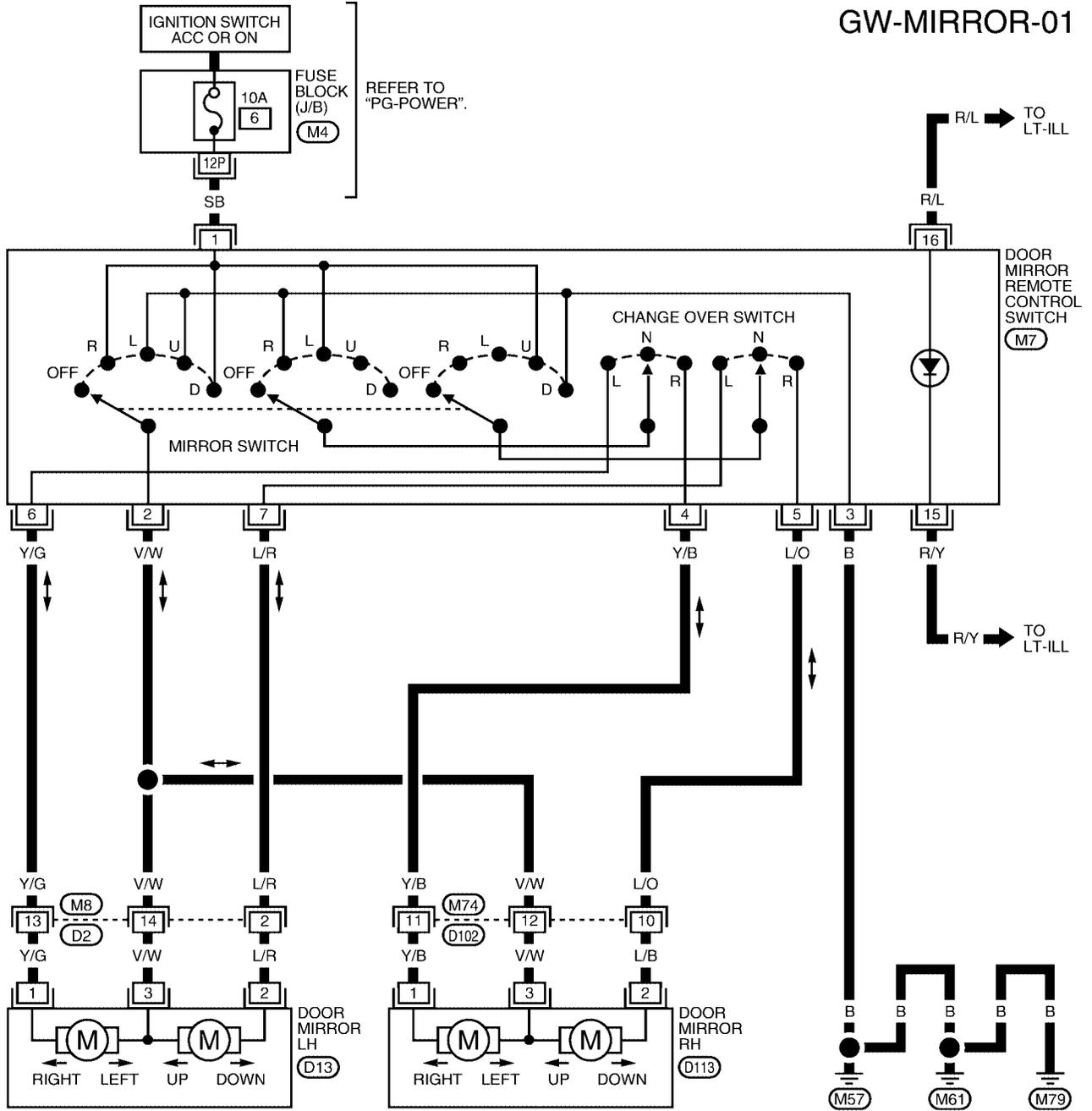
M

DOOR MIRROR

Wiring Diagram — MIRROR —

EIS007JA

GW-MIRROR-01



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

M4
W

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

M7
W

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

M8
BR

1	2	3	4	5	6
---	---	---	---	---	---

D13	D113
W	W

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

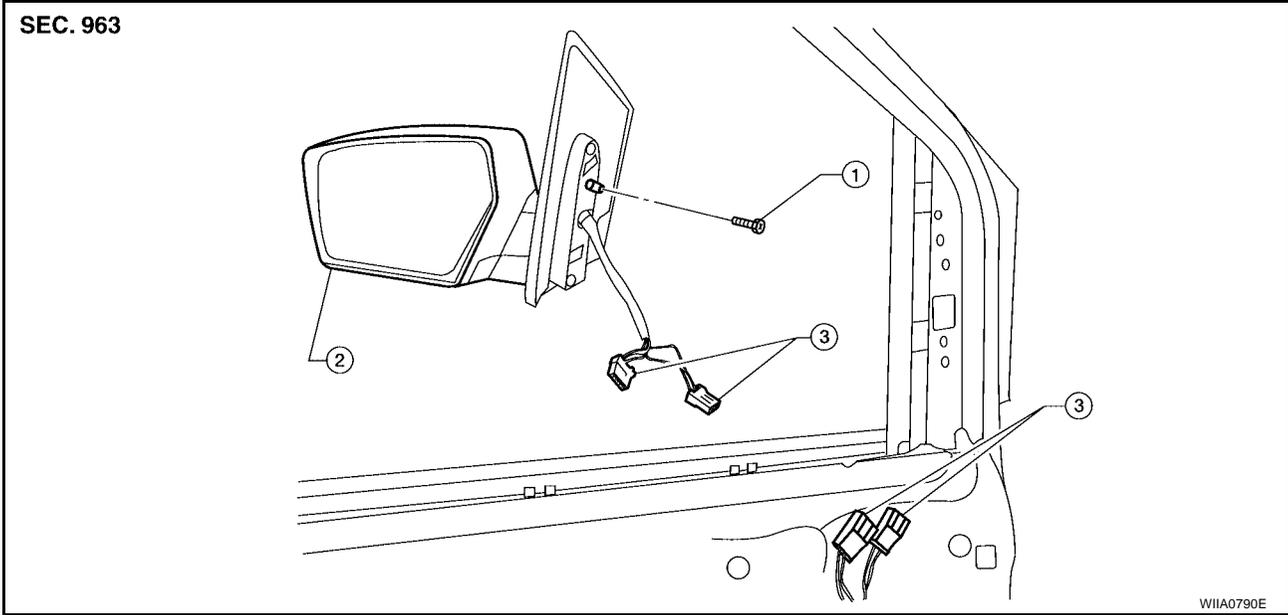
M74
W

DOOR MIRROR

Door Mirror Assembly REMOVAL AND INSTALLATION

EIS007JB

SEC. 963



W11A0790E

1. Door mirror bolts

2. Door mirror assembly

3. Door mirror connectors

REMOVAL

NOTE:

Be careful not to damage the door mirror assembly.

1. Remove the front door finisher. Refer to [EI-29, "DOOR FINISHER"](#).
2. Disconnect the door mirror connectors.
3. Remove the door mirror bolts and the door mirror assembly.

Installation

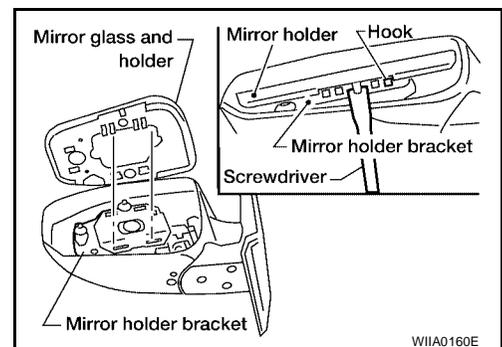
Installation is in the reverse order of removal.

Door Mirror Glass REMOVAL AND INSTALLATION

EIS007JC

Removal

1. Set mirror assembly mirror glass upward.
2. Apply tape to protect mirror housing.
3. Insert a screwdriver as shown and remove mirror glass by pushing up two hooks.



W11A0160E

4. Disconnect electrical connectors from mirror holder.

DOOR MIRROR

INSTALLATION

1. Set mirror holder bracket (1) and mirror glass (2) in the horizontal position.
2. Connect electrical connectors to the back of the mirror holder.
3. Heat lower hooks with a heat gun to prevent breaking the hooks.
4. Align upper hooks to bracket.
5. Align lower hooks to bracket and push lower part of mirror glass (2) down into holder bracket (1) until you hear a click. Ensure that mirror glass is secure in door mirror assembly.

