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GLASSES, WINDOW SYSTEM & MIRRORS

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PRECAUTIONS

PRECAUTIONS PFP:00001

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 Man-

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

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- 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 PFP:00002

Special Service Tool

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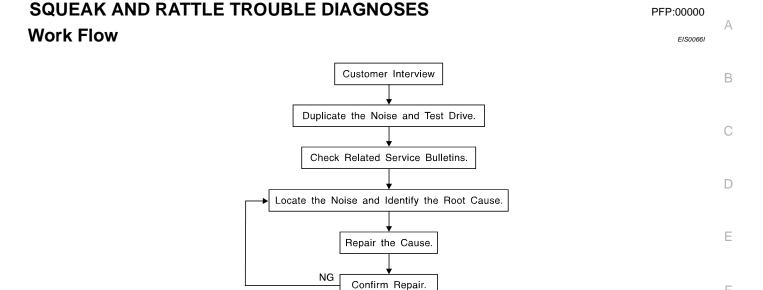
The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name		Description
— (J-39570) Chassis ear	SIIAO993E	Locating the noise
— (J-43980) NISSAN Squeak and Rat- tle Kit	SIIA0994E	Repairing the cause of noise

Commercial Service Tool

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(Kent-Moore No.) Tool name		Description
(J-39565) Engine ear	SIIA0995E	Locating the noise
(—) Suction Lifter	LIIA1991E	Holding door glass



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Inspection End

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.

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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)

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

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
- Instrument panel to front pillar garnish
- 4. Instrument panel to windshield
- 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
- 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
- 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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TRUNK

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

- 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/HEADLINING

Noises in the sunroof/headlining 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:

- Loose harness or harness connectors.
- Front console map/reading lamp lense loose.
- 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
- 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.

Diagnostic Worksheet





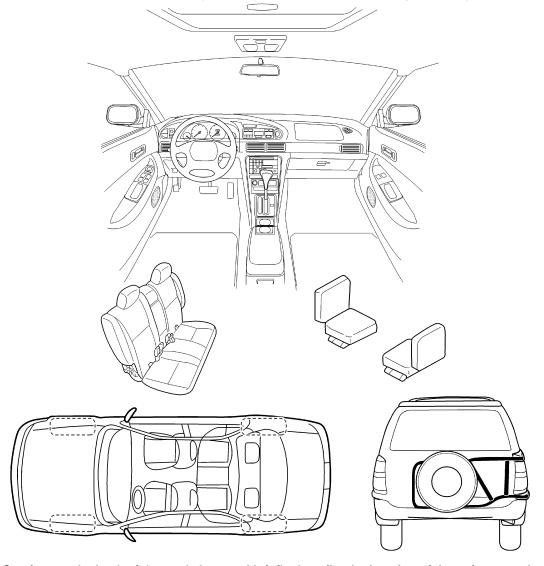
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Nissan Customer:

We are concerned about your satisfaction with your Nissan vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Nissan 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.

I. WHERE DOESTHE 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 the back 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 & RATTLE DIAGNOSTIC WORKSHEET- page 2 Briefly describe the location where the noise occurs: II. WHEN DOES IT OCCUR? (check the boxes that apply) □ anytime ☐ after sitting out in the sun ☐ 1st time in the morning □ when it is raining or wet ☐ dry or dusty conditions ☐ only when it is cold outside ☐ only when it is hot outside ☐ other: IV. WHAT TYPE OF NOISE? III. WHEN DRIVING: ☐ through driveways ☐ squeak (like tennis shoes on a clean floor) □ over rough roads ☐ creak (like walking on an old wooden floor) □ over speed bumps ☐ rattle (like shaking a baby rattle) ☐ only at about ____ mph ☐ knock (like a knock on a door) ☐ on acceleration ☐ tick (like a clock second hand) coming to a stop ☐ thump (heavy, muffled knock noise) □ buzz (like a bumble bee) ☐ on turns : left, right or either (circle) ■ with passengers or cargo other: __ ☐ after driving ____ miles or ____ minutes TO BE COMPLETED BY DEALERSHIP PERSONNEL **Test Drive Notes:** Initials of person YES NO performing Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confirm repair VIN: Customer Name: W.O. #: _____ Date: ____

This form must be attached to Work Order

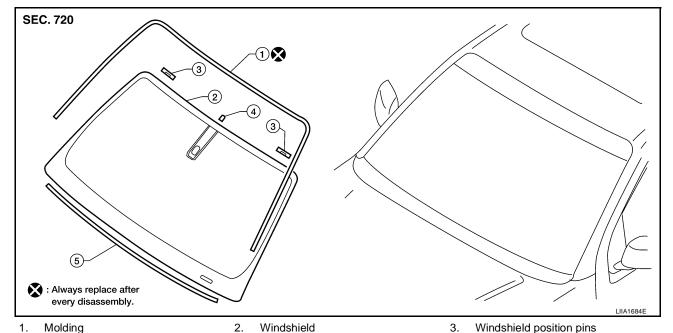
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Removal and Installation

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REMOVAL

4.

Mirror base

Remove inside mirror. Refer to <u>GW-58</u>, "<u>Removal and Installation</u>".

5.

2. Partially remove the headlining (front edge). Refer to El-30, "Removal and Installation".

Insulator

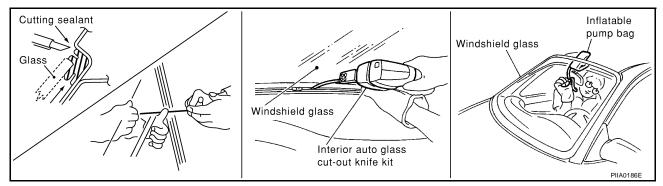
- 3. Remove cowl top. Refer to El-17, "Removal and Installation".
- 4. Apply tape around the windshield glass to protect the painted surface from damage.
 - If the windshield glass is to be reused, mark the body and the glass with mating marks.
 - Remove glass using piano wire or power cutting tool and 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.

CALITION.

- 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.

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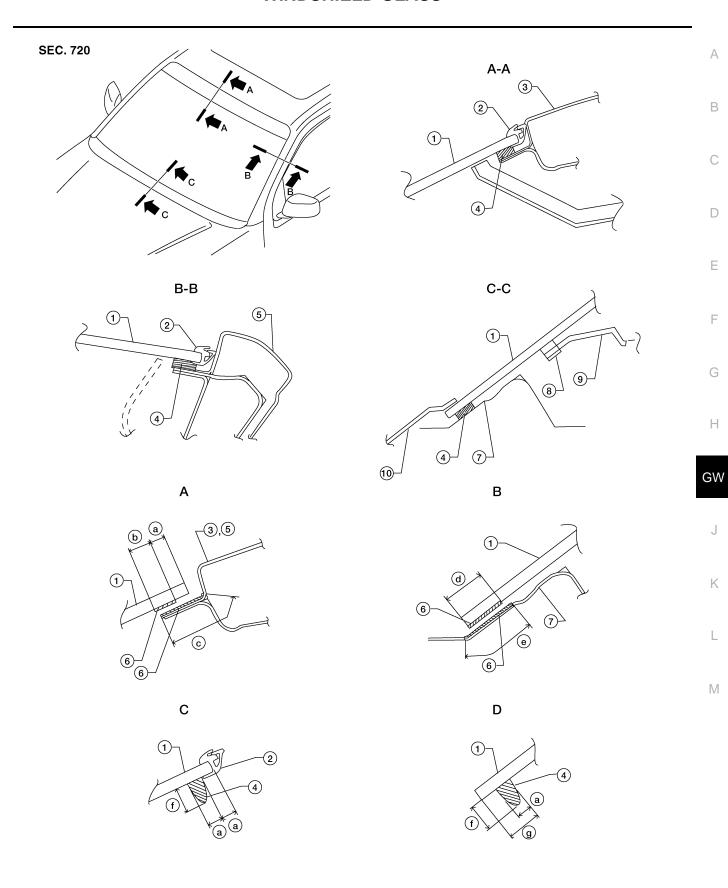
- While the urethane adhesive is curing, open a door window. This will prevent the glass from being forced out by passenger compartment air pressure when a door is closed.
- The molding must be installed securely so that it is in position and leaves no gap.
- Inform the customer that the vehicle should 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.



WIIA1032E

4. Urethane

1.

Cowl top panel 7.

Molding 2.

5. A-pillar

8. Insulator 3. Roof

6. Primer

9. Instrument panel

Windshield glass

10.	Cowl top cover	A.	Primer area (top and sides)	B.	Primer area (bottom)
C.	Bond area (top and sides)	D.	Bond area (bottom)	a.	7.0 mm (0.27 in)
b.	10.0 mm (0.39 in)	C.	22.0 mm (0.78 in)	d.	20.0 mm (0.78 in)
e.	28.0 mm (1.10 in)	f.	12.0 mm (0.47 in)	g.	15.0 mm (0.59 in)

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.

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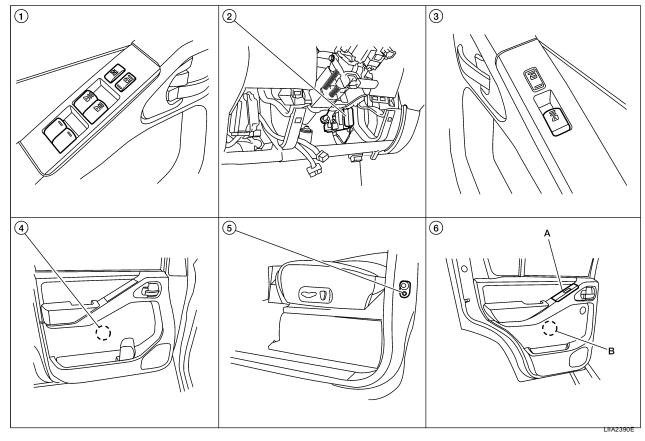
Component Parts and Harness Connector Location

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- Main power window and door lock/ unlock switch D7
- 4. Front power window motor LH D9, RH D104
- BCM M18, M19, M20 (view with instrument lower panel LH removed)
- Front door switch LH B8, RH B108

GW-15

- Power window and door lock/unlock switch RH D105
- A. Rear power window switch LH D203, RH D303
 B. Rear power window motor LH D204, RH D304

System Description

Power is supplied at all times

- from 50A fusible link (letter **g**, located in the fuse and fusible link box)
- to BCM terminal 70.

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

- through 10A fuse [No. 1, located in the fuse block (J/B)]
- to BCM terminal 38
- through BCM terminal 68
- to main power window and door lock/unlock switch terminal 5
- to power window and door lock/unlock switch RH terminal 8
- to rear power window switches LH and RH terminal 8.

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 67
- to main power window and door lock/unlock switch terminal 14
- through body grounds M57, M61 and M79.

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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 6
- to front power window motor LH terminal 2.

Ground is supplied

- through main power window and door lock/unlock switch terminal 7
- 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 7
- to front power window motor LH terminal 1.

Ground is supplied

- through main power window and door lock/unlock switch terminal 6
- 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 7
- to front power window motor RH terminal 2.

Ground is supplied

- through power window and door lock/unlock switch RH terminal 6
- 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 6
- to front power window motor RH terminal 1.

Ground is supplied

- through power window and door lock/unlock switch RH terminal 7
- to front power window motor RH terminal 2.

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

MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OPERATION WINDOW UP

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

- through main power window and door lock/unlock switch terminal 3
- to power window and door lock/unlock switch RH terminal 12
- through power window and door lock/unlock switch RH terminal 7
- to front power window motor RH terminal 2.

Ground is supplied

- through main power window and door lock/unlock switch terminal 2
- to power window and door lock/unlock switch RH terminal 11
- through power window and door lock/unlock switch LH terminal 6
- to front power window motor RH terminal 1.

Then, the motor raises the window until the switch is released. WINDOW DOWN Α When the main power window and door lock/unlock switch (front RH) is pressed in the down position, power is supplied through main power window and door lock/unlock switch terminal 2 to power window and door lock/unlock switch RH terminal 11 through power window and door lock/unlock switch RH terminal 6 to front power window motor RH terminal 1. Ground is supplied through main power window and door lock/unlock switch terminal 3 to power window and door lock/unlock switch RH terminal 12 through power window and door lock/unlock switch RH terminal 7 to front power window motor RH terminal 2. Е Then, the motor lowers the window until the switch is released. Rear Door (LH or RH) REAR POWER WINDOW SWITCH LH OR RH OPERATION F WINDOW UP When the rear power window switch LH or RH is pressed in the up position, power is supplied through rear power window switch LH or RH terminal 7 to rear power window motor LH or RH terminal 2. Ground is supplied Н through rear power window switch LH or RH terminal 6 to rear power window motor LH or RH terminal 1. Then, the motor raises the window until the switch is released. GW WINDOW DOWN When the rear power window switch LH or RH is pressed in the down position, power is supplied through rear power window switch LH or RH terminal 6 to rear power window motor LH or RH terminal 1. Ground is supplied through rear power window switch LH or RH terminal 7 to rear power window motor LH or RH terminal 2. Then, the motor lowers the window until the switch is released. MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH OPERATION WINDOW UP When the main power window and door lock/unlock switch (rear LH) is pressed in the up position, power is supplied M through main power window and door lock/unlock switch terminal 15 to rear power window switch LH terminal 4 through rear power window switch LH terminal 7 to rear power window motor LH terminal 2. Ground is supplied through main power window and door lock/unlock switch terminal 16 to rear power window switch LH terminal 5 through rear power window switch LH terminal 6 to rear power window motor LH terminal 1. Then, the motor raises the window until the switch is released. When the main power window and door lock/unlock switch (rear RH) is pressed in the up position, power is supplied through main power window and door lock/unlock switch terminal 8

to rear power window switch RH terminal 4

through rear power window switch RH terminal 7

to rear power window motor RH terminal 2.

Ground is supplied

- through main power window and door lock/unlock switch terminal 9
- through rear power window switch RH terminal 5
- to rear power window switch RH terminal 6
- to rear power window motor RH terminal 1.

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

WINDOW DOWN

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

- through main power window and door lock/unlock switch terminal 16
- to rear power window switch LH terminal 5
- through rear power window switch LH terminal 6
- to rear power window motor LH terminal 1.

Ground is supplied

- through main power window and door lock/unlock switch terminal 15
- to rear power window switch LH terminal 4
- through rear power window switch LH terminal 7
- to rear power window motor LH terminal 2.

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

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

- through main power window and door lock/unlock switch terminal 9
- to rear power window switch RH terminal 5
- through rear power window switch RH terminal 6
- to rear power window motor RH terminal 1.

Ground is supplied

- through main power window and door lock/unlock switch terminal 8
- to rear power window switch RH terminal 4
- through rear power window switch RH terminal 7
- to rear power window motor RH terminal 2.

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

AUTO OPERATION

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

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 disables power window and door lock/unlock switch RH and rear power window switch LH and RH by disconnecting switch ground signal. This prevents the power window motors from operating.

RETAINED POWER OPERATION

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

- through BCM terminal 68
- to main power window and door lock/unlock switch terminal 5
- to power window and door lock/unlock switch RH terminal 8
- to rear power window switches LH and RH terminal 8.

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.

RAP signal period can be changed by CONSULT-II. Refer to GW-26, "CONSULT-II Function (BCM)".

CAN Communication System Description

EIS00660

Refer to LAN-4, "SYSTEM DESCRIPTION" .

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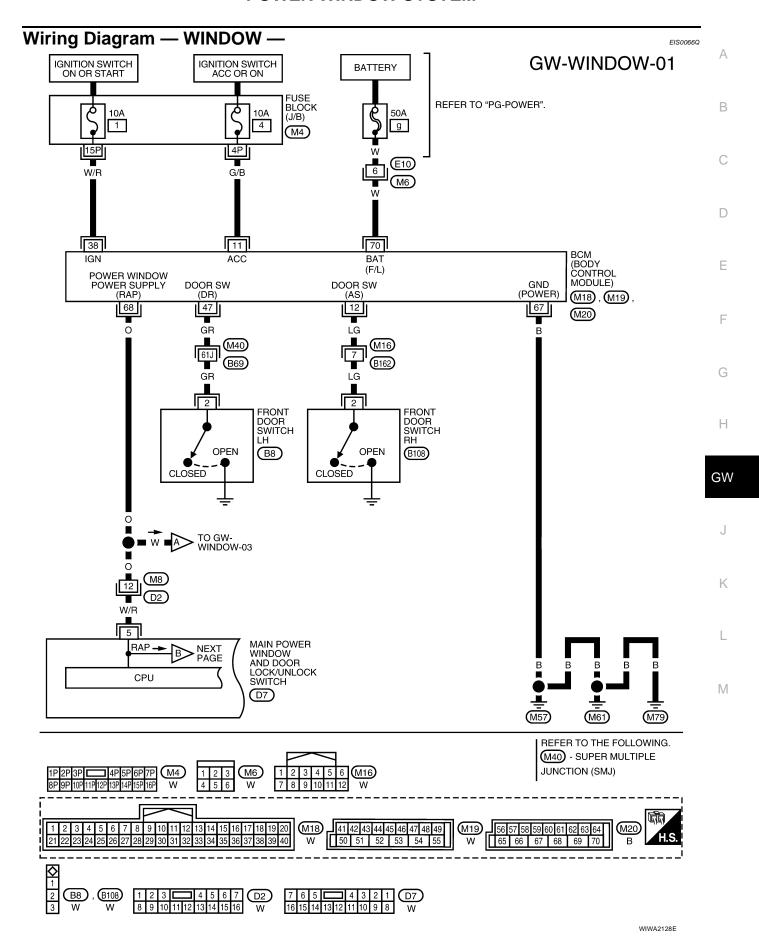
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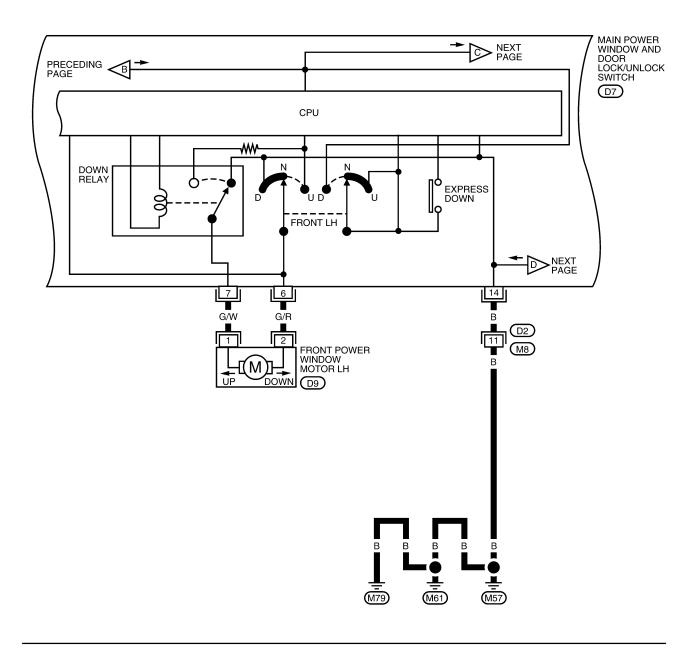
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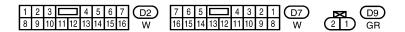
Schematic EIS0066P REAR POWER WINDOW SWITCH LH REAR POWER WINDOW SWITCH RH POWER WINDOW
AND DOOR
LOCK/UNLOCK
SWITCH RH 1 12 FRONT DOOR SWITCH RH 15 IGNITION SWITCH ON OR START 12 BCM (BODY CONTROL MODULE) ± ||I IGNITION SWITCH ACC OR ON CPU MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH 29 EXPRESS DOWN DOWN ₽ BATTERY 2 DOWN

WIWA1675E



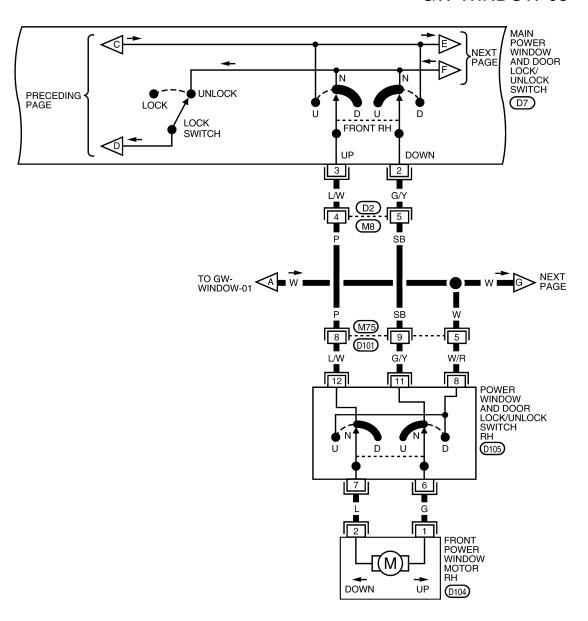
GW-WINDOW-02

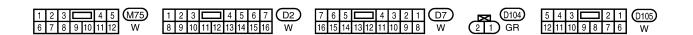




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GW-WINDOW-03





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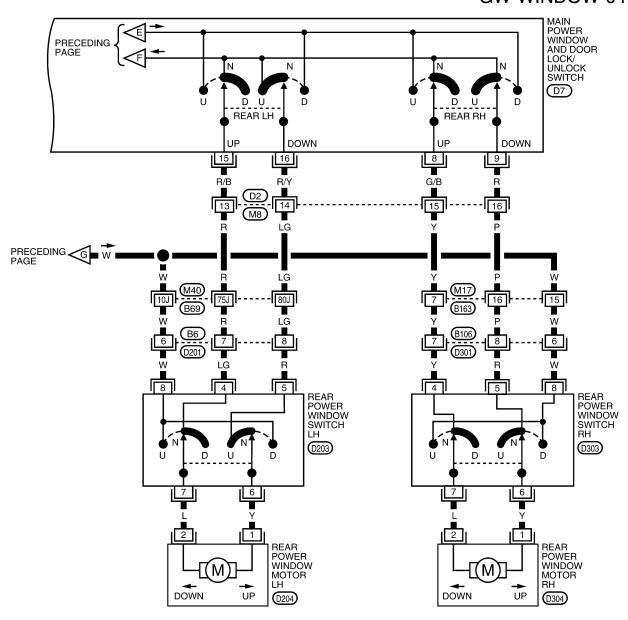
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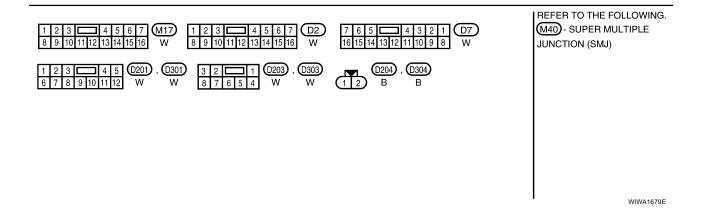
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GW-WINDOW-04





Terminals and Reference Values for Main Power Window and Door Lock/Unlock Switch

Switch				EI\$0066	R
Terminal	Wire Color	Item	Condition	Voltage (V) (Approx.)	F
2	G/Y	Front power window motor RH DOWN signal	When power window motor is operated DOWN	Battery voltage	_
3	L/W	Front power window motor RH UP signal	When power window motor is operated UP	Battery voltage	G
			When ignition switch ON	Battery voltage	-
			Within 45 seconds after ignition switch is turned to OFF	Battery voltage	- H
5	W/R	RAP signal	More than 45 seconds after ignition switch is turned to OFF	0	G۷
			When front door LH or RH open or power window timer operates	0	
6	G/R	Front power window motor LH UP signal	When power window motor is operated UP	Battery voltage	J
7	G/W	Front power window motor LH DOWN signal	When power window motor is operated DOWN	Battery voltage	K
8	G/B	Rear power window RH UP signal	When rear RH switch in main power window and door lock/unlock switch is operated UP	Battery voltage	L
9	R	Rear power window RH DOWN signal	When rear RH switch in main power window and door lock/unlock switch is operated DOWN	Battery voltage	M
14	В	Ground	_	0	_
15	R/B	Rear power window LH UP signal	When rear LH switch in main power window and door lock/unlock switch is operated UP	Battery voltage	_
16	R/Y	Rear power window LH DOWN signal	When rear LH switch in main power window and door lock/unlock switch is operated DOWN	Battery voltage	=

Terminals and Reference Values for BCM

Refer to BCS-12, "Terminals and Reference Values for BCM" .

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Work Flow

- 1. Check the symptom and customer's requests.
- Understand the outline of system. Refer to <u>GW-15</u>, "System <u>Description"</u>.
- According to the trouble diagnosis chart, repair or replace the cause of the malfunction.
 Refer to <u>GW-26</u>, "<u>Trouble Diagnoses Symptom Chart</u>".
- 4. Does power window system operate normally? Yes, GO TO 5, If No, GO TO 3.
- 5. Inspection End.

CONSULT-II Function (BCM)

FIS0066

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

BCM diagnostic test item	Diagnostic mode	Content
	WORK SUPPORT	Supports inspections and adjustments. Commands are transmitted to the BCM for setting the status suitable for required operation, input/output signals are received from the BCM and received data is displayed.
	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.
Inspection by part	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 START PROCEDURE

Refer to GI-38, "CONSULT-II Start Procedure".

ACTIVE TEST

Test Item	Description
	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.
RETAINED PWR	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.

WORK SUPPORT

Work item	Description
RETAINED PWR	RAP signal's power supply period can be changed by mode setting. Selects RAP signal's power supply period between three steps. • MODE1 (45 sec.)/MODE2 (OFF)/MODE3 (2 min.).

DATA MONITOR

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

Trouble Diagnoses Symptom Chart

EIS0066V

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

Symptom	Repair order	Refer to page
	1. BCM power supply and ground circuit check	BCS-16
None of the power windows can be operated using any switch	Main power window and door lock/unlock power supply and ground circuit check	<u>GW-27</u>
	3. Replace main power window and door lock/ unlock switch	<u>EI-24</u>
	Front power window LH circuit check	<u>GW-29</u>
Front power window LH alone does not operate	2. Replace main power window and door lock/ unlock switch	<u>El-24</u>
Front power window RH alone does not operate from power window and door lock/unlock switch RH	Front power window RH circuit check (power window and door lock/unlock switch operation)	<u>GW-30</u>
Front navyer window DH clane does not energic from main navyer	Main power window and door lock/unlock power supply and ground circuit check	<u>GW-29</u>
Front power window RH alone does not operate from main power window and door lock/unlock switch	Front power window RH circuit check (main power window and door lock/unlock switch operation)	<u>GW-30</u>
Rear power window LH alone does not operate from rear power window switch LH	Rear power window LH circuit check (rear power window switch LH operation)	<u>GW-37</u>
Rear power window LH alone does not operate from main power window and door lock/unlock switch	Rear power window LH circuit check (main power window and door lock/unlock switch operation)	<u>GW-37</u>
Rear power window RH alone does not operate from rear power window switch RH	Rear power window RH circuit check (rear power window switch RH operation)	<u>GW-43</u>
Rear power window RH alone does not operate from main power window and door lock/unlock switch	Rear power window RH circuit check (main power window and door lock/unlock switch operation)	<u>GW-47</u>
	Check the retained power operation mode setting.	<u>GW-26</u>
Power window retained power operation does not operate properly	2. Door switch check	<u>GW-36</u>
	3. Replace BCM.	BCS-25

BCM Power Supply and Ground Circuit Check

Refer to BCS-16, "BCM Power Supply and Ground Circuit Check".

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

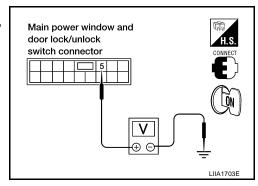
1. CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch ON.
- Check voltage between main power window and door lock/ unlock switch connector D7 terminal 5 and ground.

5 - Ground : Battery voltage

OK or NG

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



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Revision: September 2006 GW-27 2007 Xterra

2. CHECK GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect main power window and door lock/unlock switch.
- Check continuity between main power window and door lock/ unlock switch connector D7 terminal 14 and ground.

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

DISCONNECT DISCONNECT DISCONNECT LINA2188E

OK or NG

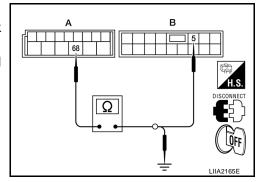
OK >> Power supply and ground circuit are OK.

NG >> Repair or replace harness.

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

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM and main power window and door lock/unlock switch.
- 3. Check continuity between BCM and main power window and door lock/unlock switch.

	A	В		Continuity
Connector	Terminal	Connector	Terminal	Continuity
BCM: M20	68	Main power window and door lock/ unlock switch: D7	5	Yes



4. Check continuity between BCM and ground.

	A		Continuity	
Connector	Connector Terminal		Continuity	
BCM: M20	68		No	

OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness.

4. CHECK BCM OUTPUT SIGNAL

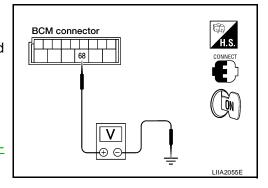
- 1. Connect BCM.
- 2. Turn ignition switch ON.
- 3. Check voltage between BCM connector M20 terminal 68 and ground.



OK or NG

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

NG >> Replace BCM. Refer to BCS-25, "Removal and Installation of BCM" .



2007 Xterra

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

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 8 and ground.

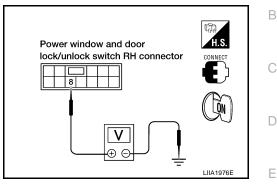
8 - Ground

: Battery voltage

OK or NG

OK >> Replace power window and door lock/unlock switch RH. Refer to EI-24, "FRONT DOOR".

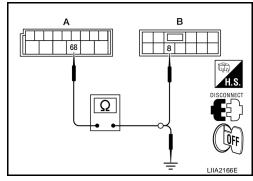
NG >> GO TO 2.



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

- 1. Turn ignition switch OFF.
- Disconnect BCM and power window and door lock/unlock switch RH.
- Check continuity between BCM and power window and door lock/unlock switch RH.

	A	B Connector Terminal		Continuity
Connector	Terminal			Continuity
BCM: M20	68	Power win- dow and door lock/ unlock switch RH: D105	8	Yes



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Check continuity between BCM and ground.

А			Continuity
Connector	Terminal	Ground	Continuity
BCM: M20	68		No

OK or NG

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

NG >> Repair or replace harness.

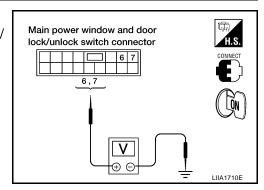
Front Power Window LH Circuit Check

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 6, 7 and ground.

Connector		minals	Condition	Voltage (V)
Connector	(+)	(-)	Condition	(Approx.)
	6		UP	0
D7	O	Ground	DOWN	Battery voltage
D1	7	Giodila	UP	Battery voltage
/	,		DOWN	0



OK or NG

OK >> GO TO 2.

NG >> Replace main power window and door lock/unlock switch. Refer to EI-24, "FRONT DOOR".

Revision: September 2006 **GW-29** 2007 Xterra

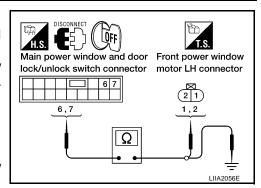
2. CHECK POWER WINDOW MOTOR CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect main power window and door lock/unlock switch and front power window motor LH.
- Check continuity between main power window and door lock/ unlock switch connector D7 terminals 6, 7 and front power window motor LH connector D9 terminals 1, 2.

6 - 2 : Continuity should exist.7 - 1 : Continuity should exist.

 Check continuity between main power window and door lock/ unlock switch connector D7 terminals 6, 7 and ground.

6 - Ground : Continuity should not exist.
7 - Ground : Continuity should not exist.



OK or NG

OK >> Replace front power window motor LH. Refer to <u>GW-49</u>, <u>"FRONT DOOR GLASS AND REGULA-</u> TOR".

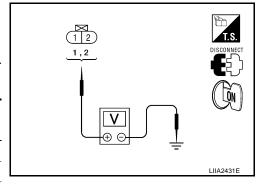
NG >> Repair or replace harness.

Front Power Window RH Circuit Check (Power Window and Door Lock/Unlock Switch RH Operation)

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

- 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 and ground.

Connector	Terminals		Condition	Voltage (V)	
Connector	(+)	(-)	Condition	(Approx.)	
	1	- Ground -	UP	0	
Front power window	'		DOWN	Battery voltage	
motor RH: D104	2		UP	Battery voltage	
	2		DOWN	0	



OK or NG

OK >> Replace front power window motor RH. Refer to GW-50, "Front Door Glass Regulator".

NG >> GO TO 2.

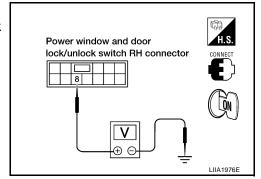
2. CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch ON.
- 2. Check voltage between power window and door lock/unlock switch RH connector D105 terminal 8 and ground.

8 - Ground : Battery voltage

OK or NG

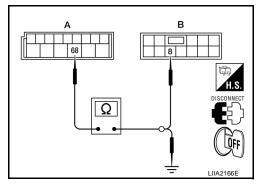
OK >> GO TO 4. NG >> GO TO 3.



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

- 1. Turn ignition switch OFF.
- Disconnect BCM and power window and door lock/unlock switch RH.
- Check continuity between BCM and power window and door lock/unlock switch RH.

	A	В		Continuity
Connector	Terminal	Connector		
BCM: M20	68	Power win- dow and door lock/ unlock switch RH: D105	8	Yes



4. Check continuity between BCM and ground.

Α			Continuity
Connector	Terminal	Ground	Continuity
BCM: M20	68		No

OK or NG

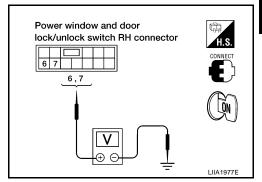
OK >> Check the condition of the harness and the connector.

NG >> Repair or replace harness.

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

- Turn ignition switch ON.
- 2. Check voltage between power window and door lock/unlock switch RH connector D105 terminals 6, 7 and ground.

Connector	Terminals		Condition	Voltage (V)
Connector	(+)	(-)	Condition	(Approx.)
	7		UP	Battery voltage
D105	D105 6	Ground	DOWN	0
D103			UP	0
	O		DOWN	Battery voltage



OK or NG

OK >> GO TO 5.

NG >> GO TO 6.

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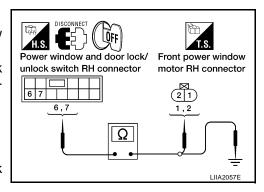
5. CHECK FRONT POWER WINDOW MOTOR RH CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect front power window motor RH and power window and door lock/unlock switch RH.
- Check continuity between power window and door lock/unlock switch RH connector D105 terminals 6, 7 and front power window motor RH connector D104 terminals 1, 2.

7 - 2 : Continuity should exist.6 - 1 : Continuity should exist.

4. Check continuity between power window and door lock/unlock switch RH connector D105 terminals 6, 7 and ground.

6 - Ground : Continuity should not exist.
7 - Ground : Continuity should not exist.



OK or NG

OK >> Replace front power window motor RH. Refer to <u>GW-50</u>, "Front <u>Door Glass Regulator"</u>.

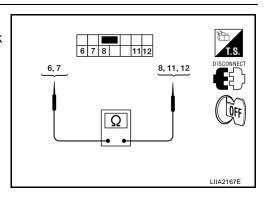
NG >> Repair or replace harness.

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

1. Turn ignition switch OFF.

2. Check continuity between power window and door lock/unlock switch RH terminals.

	Terminals		Condition	Continuity
	6	8	DOWN	Yes
			NEUTRAL or UP	No
Power window		11	NEUTRAL or UP	Yes
and door lock/			DOWN	No
unlock switch RH	7	8	UP	Yes
			NEUTRAL or DOWN	No
		4.0	NEUTRAL or DOWN	Yes
		12	UP	No



OK or NG

OK >> GO TO 7.

NG >> Replace power window and door lock/unlock switch RH. refer to EI-24, "FRONT DOOR".

7. CHECK POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH GROUND SUPPLY

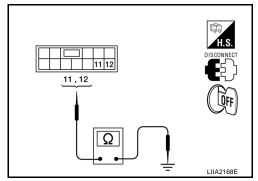
Check continuity between power window and door lock/unlock switch RH and ground.

Connector	Terminals		Continuity
Power window and door	11		Yes
lock/unlock switch RH: D105	12	Ground	Yes

OK or NG

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

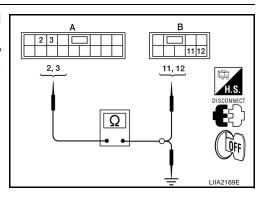
NG >> GO TO 8.



8. CHECK GROUND SUPPLY CIRCUIT

- 1. Disconnect main power window and door lock/unlock switch and power window and door lock/unlock switch RH.
- Check continuity between main power window and door lock/ unlock switch and power window and door lock/unlock switch RH.

А		В	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
Main power	2	Power window	11	Yes
window and door lock/ unlock switch: D7	3	and door lock/ unlock switch RH: D105	12	Yes



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

A		Continuity	
Connector	Terminal	Ground	Continuity
Main power window and door	2	Olouliu	No
lock/unlock switch: D7	3		No

OK or NG

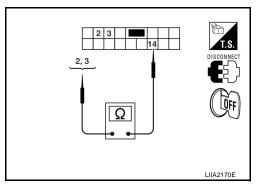
OK >> GO TO 9.

NG >> Repair or replace harness.

9. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

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

Main power window and door lock/ unlock switch 14	Terminals		Condition	Continuity
		2	Lock switch UNLOCK	Yes
	1.1		Lock switch LOCK	No
	3	2	Lock switch UNLOCK	Yes
	3	Lock switch LOCK	No	



OK or NG

OK >> Repair or replace harness.

NG >> Replace main power window and door lock/unlock switch. Refer to EI-24, "FRONT DOOR".

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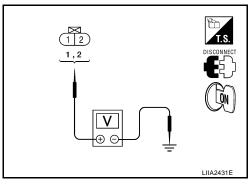
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Front Power Window RH Circuit Check (Main Power Window and Door Lock/ **Unlock Switch Operation)** EIS007CJ

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

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

Connector	Terminals		Condition	Voltage (V)
	(+)	(-)	Condition	(Approx.)
Front power window motor RH: D104	1	Ground	UP	0
			DOWN	Battery voltage
	2		UP	Battery voltage
	2		DOWN	0



OK or NG

OK >> Replace front power window motor RH. Refer to GW-50, "Front Door Glass Regulator" .

NG >> GO TO 2.

2. CHECK FRONT POWER WINDOW MOTOR RH CIRCUIT

- Turn ignition switch OFF. 1.
- Disconnect front power window motor RH and power window 2. and door lock/unlock switch RH.
- Check continuity between power window and door lock/unlock switch RH connector D105 terminals 6, 7 and front power window motor RH connector D104 terminals 1, 2.

7 - 2 : Continuity should exist. 6 - 1: Continuity should exist.

4. Check continuity between power window and door lock/unlock switch RH connector D105 terminals 6, 7 and ground.

> : Continuity should not exist. 6 - Ground 7 - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 3.

>> Repair or replace harness.

$3.\,$ check power window and door lock/unlock switch RH

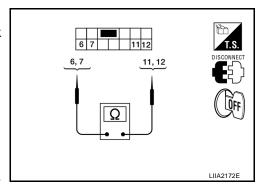
- Turn ignition switch OFF. 1.
- Check continuity between power window and door lock/unlock switch RH terminals.

Power window and door lock/unlock switch	Terr	Continuity	
	6	11	Yes
	7	12	Yes

OK or NG

OK >> GO TO 4.

NG >> Replace power window and door lock/unlock switch RH. Refer to EI-24, "FRONT DOOR".



Power window and door lock/

Ω

unlock switch RH connector

6,7

Front power window

motor RH connector

LIIA2057F

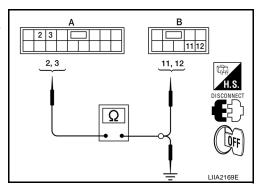
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4. CHECK GROUND SUPPLY CIRCUIT

- 1. Disconnect main power window and door lock/unlock switch.
- Check continuity between main power window and door lock/ unlock switch and power window and door lock/unlock switch RH.

A		В		Continuity
Connector	Terminal	Connector	Terminal	Continuity
Main power	2	Power window	11	Yes
window and door lock/ unlock switch: D7	3	and door lock/ unlock switch RH: D105	12	Yes



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

A		Continuity	
Connector	Ground	Continuity	
Main power window and door lock/unlock switch: D7	2	- Ground	No
	3		No

OK or NG

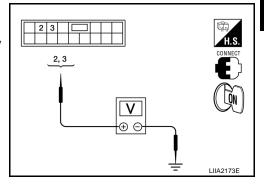
OK >> GO TO 5.

NG >> Repair or replace harness.

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

- 1. Connect main power window and door lock/unlock switch.
- 2. Turn ignition switch ON.
- Check voltage between main power window and door lock/ unlock switch and ground.

Connector	Terminals		Condition	Voltage (V) (Approx.)
	(+) (-)			
Main power	3	Ground	UP	Battery voltage
window and door lock/			DOWN	0
unlock switch: D7	Ground	UP	0	
		DOWN	Battery voltage	



OK or NG

OK >> Repair or replace harness.

NG >> Replace main power window and door lock/unlock switch. Refer to EI-24, "FRONT DOOR".

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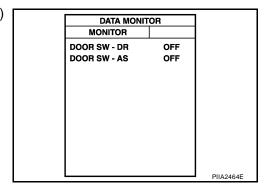
Door Switch Check

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.

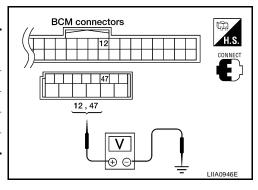
Monitor item	Condition		
DOOR SW-DR	OPEN	: ON	
	CLOSE	: OFF	
DOOR SW-AS	OPEN	: ON	
DOOK SW-AS	CLOSE	: OFF	



W Without CONSULT-II

Check voltage between BCM connector and ground.

Item Connector		Terminals		Condition	Voltage (V)
пеш	Connector	(+)	(-)	Condition	(Approx.)
Front RH	RH M18 12	12	2 Ground	OPEN	0
TIOHUNTI		12		CLOSE	Battery voltage
Front LH	Front LH M19 4	47	Ground	OPEN	0
I TOTAL ELT	IVITS	47	41	CLOSE	Battery voltage



OK or NG

OK >> Front door switch is OK.

NG >> GO TO 2.

2. CHECK FRONT 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 connector B8 (LH) or B108 (RH) terminal 2 and BCM connector M19 terminal 47 (LH) or connector M18 terminal 12 (RH).

Front LH

2 - 47 : Continuity should exist.

Front RH

2 - 12 : Continuity should exist.

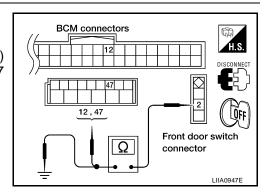
4. Check continuity between front door switch connector B8 (LH) or B108 (RH) terminal 2 and ground.



OK or NG

OK >> GO TO 3.

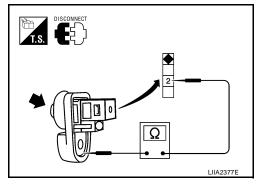
NG >> Repair or replace harness.



3. CHECK DOOR SWITCH

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

Terminal		Door switch	Continuity
_	Body ground part	Pushed	No
2	of front door switch	Released	Yes



OK or NG

OK >> Replace BCM. Refer to BCS-25, "Removal and Installation of BCM".

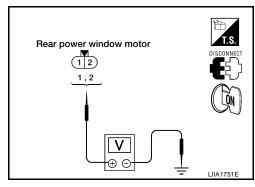
NG >> Replace malfunctioning front door switch.

Rear Power Window LH Circuit Check (Rear Power Window Switch LH Operation)

1. CHECK REAR POWER WINDOW SWITCH LH OUTPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect rear power window motor LH.
- 3. Turn ignition switch ON.
- 4. Check voltage between rear power window motor LH connector D204 terminals 1, 2 and ground.

Connector		ninals	Condition	Voltage (V)	
Connector	(+)	(-)	Condition	(Approx.)	
	1		UP	0	
D204	ı	Ground	DOWN	Battery voltage	
D204	2		UP	Battery voltage	
2		DOWN	0		



OK or NG

OK >> Replace rear power window motor LH. Refer to <u>GW-53, "REAR DOOR GLASS AND REGULA-TOR"</u>.

NG >> GO TO 2.

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Revision: September 2006 **GW-37** 2007 Xterra

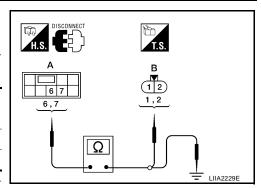
$\overline{2}$. CHECK REAR POWER WINDOW MOTOR LH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect rear power window switch LH.
- 3. Check continuity between rear power window switch LH connector and rear power window motor LH connector.

Connector	Terminal	Connector	Terminal	Continuity	
A	Terrillia	В	Terrillia		
Rear power window	6	Rear power window	1	Yes	
switch LH: D203	7	motor LH: D204	2	Yes	

4. Check continuity between rear power window switch LH connector and ground.

Connector	Terminal		Continuity	
A	Terrinia	Ground	Continuity	
Rear power window switch LH: D203	6	Giodila	No	
	7		No	



OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.

3. CHECK POWER SUPPLY

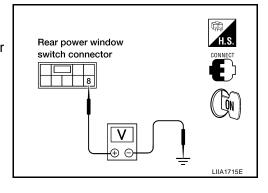
- 1. Connect rear power window switch LH.
- 2. Turn ignition switch ON.
- 3. Check voltage between rear power window switch LH connector D203 terminal 8 and ground.

8 - Ground

: Battery voltage

OK or NG

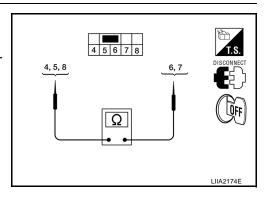
OK >> GO TO 4. NG >> GO TO 5.



4. CHECK REAR POWER WINDOW SWITCH LH

- 1. Turn ignition switch OFF.
- 2. Disconnect rear power window switch LH.
- Check continuity between rear power window switch LH terminals.

	Terminals		Condition	Continuity
Rear power win- dow switch LH	6	5	DOWN	No
			NEUTRAL or UP	Yes
		8	NEUTRAL or UP	No
			DOWN	Yes
	7	4	UP	No
			NEUTRAL or DOWN	Yes
		8	NEUTRAL or DOWN	No
		ð	UP	Yes



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OK >> GO TO 6.

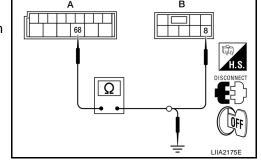
NG >> Replace rear power window switch LH. Refer to EI-25, "REAR DOOR".

GW-39

5. CHECK REAR POWER WINDOW SWITCH LH POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM.
- 3. Check continuity between BCM and rear power window switch LH.

	Α	В		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
BCM: M20	68	Rear power window switch LH: D203	8	Yes	



4. Check continuity between BCM and ground.

'	Α		Continuity
Connector	Terminal	Ground	Continuity
BCM: M20	68		No

OK or NG

OK >> GO TO 6.

NG >> Repair or replace harness.

2007 Xterra

Revision: September 2006

6. CHECK REAR POWER WINDOW SWITCH LH GROUND SUPPLY

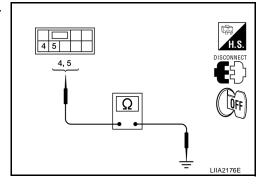
Check continuity between rear power window switch LH and ground.

Connector	Terminals		Continuity
Rear power window switch LH: D203	4	Ground	Yes
	5	Ground	Yes

OK or NG

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

NG >> GO TO 7.

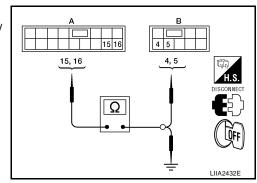


7. CHECK GROUND SUPPLY CIRCUIT

1. Disconnect main power window and door lock/unlock switch.

2. Check continuity between main power window and door lock/ unlock switch and rear power window switch LH.

А	Α			Continuity
Connector	Terminal	Connector	Terminal	Continuity
Main power	15		4	Yes
window and door lock/ unlock switch: D7	16	Rear power win- dow switch LH: D203	5	Yes



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

A		Continuity	
Connector	Terminal	Ground	Continuity
Main power window and door	15	Giouna	No
lock/unlock switch: D7	16		No

OK or NG

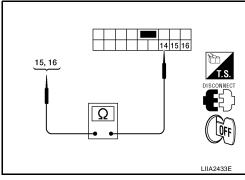
OK >> GO TO 8.

NG >> Repair or replace harness.

8. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

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

Main power win- dow and door lock/ unlock switch	Terminals		Condition	Continuity
	14	15	Lock switch UNLOCK	Yes
			Lock switch LOCK	No
		16	Lock switch UNLOCK	Yes
			Lock switch LOCK	No



OK or NG

OK >> Repair or replace harness.

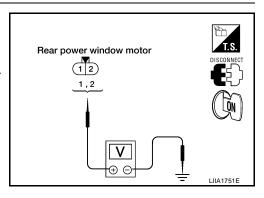
NG >> Replace main power window and door lock/unlock switch. Refer to EI-24, "FRONT DOOR".

Rear Power Window LH Circuit Check (Main Power Window and Door Lock/ Unlock Switch Operation)

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

- 1. Turn ignition switch OFF.
- 2. Disconnect rear power window motor LH.
- 3. Turn ignition switch ON.
- 4. Check voltage between rear power window motor LH connector D204 terminals 1, 2 and ground.

Connector	Term	Terminals		Voltage (V)
Connector	(+)	(-)	Condition	(Approx.)
	1		UP	0
D204	'	Ground	DOWN	Battery voltage
D204	2		UP	Battery voltage
			DOWN	0



OK or NG

OK >> Replace rear power window motor LH. Refer to <u>GW-53, "REAR DOOR GLASS AND REGULA-</u> TOR" .

NG \Rightarrow GO TO 2.

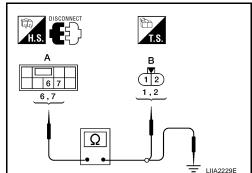
2. CHECK REAR POWER WINDOW MOTOR LH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect rear power window switch LH.
- 3. Check continuity between rear power window switch LH connector and rear power window motor LH connector.

Connector	Terminal	Connector	Terminal	Continuity	
A	Temmai	В	Terrima	Continuity	
Rear power window	6	Rear power window	1	Yes	
switch LH: D203	7	motor LH: D204	2	Yes	

Check continuity between rear power window switch LH connector and ground.

Connector	Terminal		Continuity	
A	Terrima	Ground	Continuity	
Rear power window switch	6	Giodila	No	
LH: D203	7		No	



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OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.

3. CHECK REAR POWER WINDOW SWITCH LH

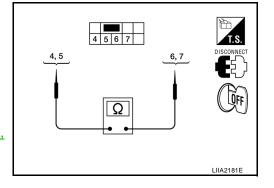
Check continuity between rear power window switch LH terminals.

	Terr	ninals	Continuity
Rear power window switch LH	4	7	Yes
	5	6	Yes

OK or NG

OK >> GO TO 4.

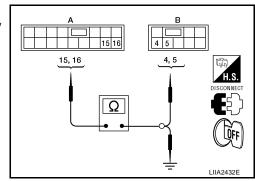
NG >> Replace rear power window switch LH. Refer to <u>EI-25</u>, "REAR DOOR".



4. CHECK GROUND SUPPLY CIRCUIT

- 1. Disconnect main power window and door lock/unlock switch.
- 2. Check continuity between main power window and door lock/ unlock switch and rear power window switch LH.

А	Α			Continuity
Connector	Terminal	Connector	Terminal	Continuity
Main power	15		4	Yes
window and door lock/ unlock switch: D7	16	Rear power win- dow switch LH: D203	5	Yes



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

A		Continuity	
Connector	Terminal	Ground	Continuity
Main power window and door	15	Giodila	No
lock/unlock switch: D7	16		No

OK or NG

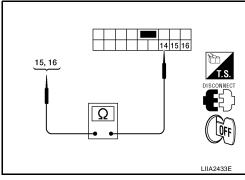
OK >> GO TO 5.

NG >> Repair or replace harness.

5. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

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

	Terr	ninals	Condition	Continuity
Main power win-		15	Lock switch UNLOCK	Yes
dow and door lock/unlock ₁₄	14		Lock switch LOCK	No
switch	14		Lock switch UNLOCK	Yes
	16		Lock switch LOCK	No



OK or NG

OK >> Repair or replace harness.

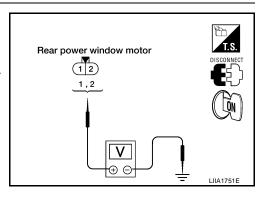
NG >> Replace main power window and door lock/unlock switch. Refer to EI-24, "FRONT DOOR".

Rear Power Window RH Circuit Check (Rear Power Window Switch RH Operation)

1. CHECK REAR POWER WINDOW SWITCH RH OUTPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect rear power window motor RH.
- 3. Turn ignition switch ON.
- 4. Check voltage between rear power window motor RH connector D304 terminals 1, 2 and ground.

Connector	Terminals		Condition	Voltage (V)
Connector	(+)	(+) (-)		(Approx.)
	1		UP	0
D304	I	- Ground	DOWN	Battery voltage
D304	2		UP	Battery voltage
	2		DOWN	0



OK or NG

OK >> Replace rear power window motor RH. Refer to <u>GW-53, "REAR DOOR GLASS AND REGULA-</u> TOR" .

NG \Rightarrow GO TO 2.

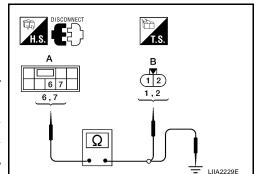
2. CHECK REAR POWER WINDOW MOTOR RH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect rear power window switch RH.
- 3. Check continuity between rear power window switch RH connector and rear power window motor RH connector.

Connector	Terminal	Connector	Terminal	Continuity	
A	Temmai	В	Temmai	Continuity	
Rear power window	6	Rear power window	1	Yes	
switch RH: D303	7	motor RH: D304	2	Yes	

 Check continuity between rear power window switch RH connector and ground.

Connector	Terminal		Continuity
A	Terrilliai	Ground	Continuity
Rear power window switch	6	Giodila	No
RH: D303	7		No



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OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.

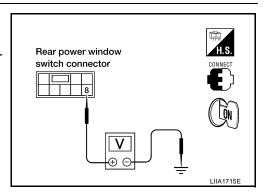
3. CHECK POWER SUPPLY

- 1. Connect rear power window switch RH.
- 2. Turn ignition switch ON.
- 3. Check voltage between rear power window switch RH connector D303 terminal 8 and ground.

8 - Ground : Battery voltage

OK or NG

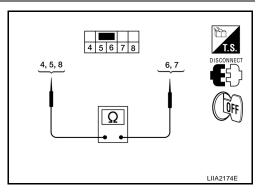
OK >> GO TO 4. NG >> GO TO 5.



4. CHECK REAR POWER WINDOW SWITCH RH

- 1. Turn ignition switch OFF.
- 2. Disconnect rear power window switch RH.
- 3. Check continuity between rear power window switch RH terminals.

	Толи	inala	Condition	Continuity	
	Terminals		Condition	Continuity	
	6	5	DOWN	No	
			NEUTRAL or UP	Yes	
			8	NEUTRAL or UP	No
Rearpower window switch RH			DOWN	Yes	
	7	4	UP	No	
			NEUTRAL or DOWN	Yes	
		8	NEUTRAL or DOWN	No	
		8	8	UP	Yes



OK or NG

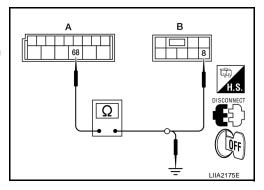
OK >> GO TO 6.

NG >> Replace rear power window switch RH. Refer to EI-25, "REAR DOOR".

5. CHECK REAR POWER WINDOW SWITCH RH POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM.
- Check continuity between BCM and rear power window switch RH.

	A	В		Continuity
Connector	Terminal	Connector	Terminal	Continuity
BCM: M20	68	Rear power window switch RH: D303	8	Yes



4. Check continuity between BCM and ground.

	A		Continuity
Connector	Terminal	Ground	Continuity
BCM: M20	68		No

OK or NG

OK >> GO TO 6.

NG >> Repair or replace harness.

6. CHECK REAR POWER WINDOW SWITCH RH GROUND SUPPLY

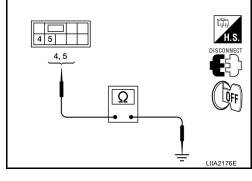
Check continuity between rear power window switch RH and ground.

Connector	Terminals		Continuity
Rear power window switch RH: D303	4	Ground	Yes
	5	Giodila	Yes

OK or NG

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

NG >> GO TO 7.



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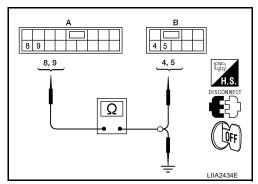
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7. CHECK GROUND SUPPLY CIRCUIT

- 1. Disconnect main power window and door lock/unlock switch.
- 2. Check continuity between main power window and door lock/ unlock switch and rear power window switch RH.

A		В	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
Main power	8	_	4	Yes
window and door lock/ unlock switch: D7	9	Rear power win- dow switch RH: D303	5	Yes



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

А		Continuity		
Connector	Terminal	Ground	Continuity	
Main power window and door lock/unlock switch: D7	8	Giodila	No	
	9		No	

OK or NG

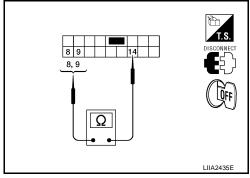
OK >> GO TO 8.

NG >> Repair or replace harness.

8. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

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

Main power win- dow and door lock/ unlock switch	Terminals		Condition	Continuity
	149	0	Lock switch UNLOCK	Yes
		0	Lock switch LOCK	No
		0	Lock switch UNLOCK	Yes
		9	Lock switch LOCK	No



OK or NG

OK >> Repair or replace harness.

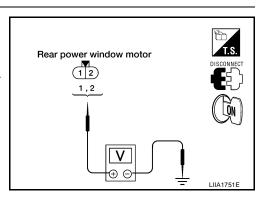
NG >> Replace main power window and door lock/unlock switch. Refer to EI-24, "FRONT DOOR".

Rear Power Window RH Circuit Check (Main Power Window and Door Lock/ Unlock Switch Operation)

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

- 1. Turn ignition switch OFF.
- 2. Disconnect rear power window motor RH.
- 3. Turn ignition switch ON.
- 4. Check voltage between rear power window motor RH connector D304 terminals 1, 2 and ground.

Connector	Term	ninals	Condition	Voltage (V) (Approx.)	
Connector	(+)	(-)	Condition		
	1		UP	0	
D304	'	Ground	DOWN	Battery voltage	
D304	2	Giodila	UP	Battery voltage	
			DOWN	0	



OK or NG

OK >> Replace rear power window motor RH. Refer to <u>GW-53, "REAR DOOR GLASS AND REGULA-</u> TOR" .

NG \Rightarrow GO TO 2.

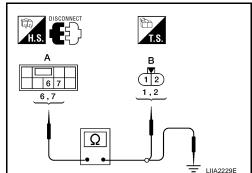
2. CHECK REAR POWER WINDOW MOTOR RH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect rear power window switch RH.
- 3. Check continuity between rear power window switch RH connector and rear power window motor RH connector.

Connector	Terminal	Connector	Terminal	Continuity	
A	Temmai	В	Temmai	Continuity	
Rear power window	6	Rear power window	1	Yes	
switch RH: D303	7	motor RH: D304	2	Yes	

 Check continuity between rear power window switch RH connector and ground.

Connector	Terminal		Continuity	
A	Terrinia	Ground	Continuity	
Rear power window switch	6	Ground	No	
RH: D303	7		No	



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OK >> GO TO 3.

NG >> Repair or replace harness.

3. CHECK REAR POWER WINDOW SWITCH RH

Check continuity between rear power window switch RH terminals.

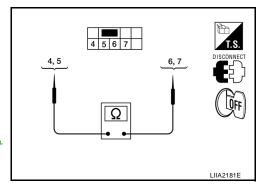
Rear power window switch RH	Terr	Continuity	
	4	7	Yes
	5	6	Yes

OK or NG

OK >> GO TO 4.

NG >> Replace rear power window switch RH. Refer to EI-25,

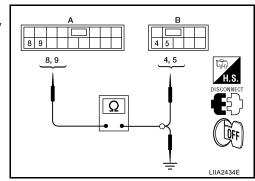
"REAR DOOR" .



4. CHECK GROUND SUPPLY CIRCUIT

- Disconnect main power window and door lock/unlock switch. 1.
- 2. Check continuity between main power window and door lock/ unlock switch and rear power window switch RH.

А	А		В		
Connector	Terminal	Connector	Terminal	Continuity	
Main power	8		4	Yes	
window and door lock/ unlock switch: D7	9	Rear power win- dow switch RH: D303	5	Yes	



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

A		Continuity		
Connector	Terminal	Ground	Continuity	
Main power window and door lock/unlock switch: D7	8	Ground	No	
	9		No	

OK or NG

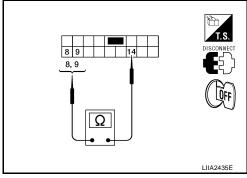
OK >> GO TO 5.

NG >> Repair or replace harness.

$5.\,$ CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

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

Main power window and door lock/unlock switch	Terminals		Condition	Continuity
	14 9		Lock switch UNLOCK	Yes
		0	Lock switch LOCK	No
		0	Lock switch UNLOCK	Yes
		9	Lock switch LOCK	No



OK or NG

OK >> Repair or replace harness.

>> Replace main power window and door lock/unlock switch. Refer to EI-24, "FRONT DOOR". NG

FRONT DOOR GLASS AND REGULATOR

PFP:80300

Front Door Glass REMOVAL

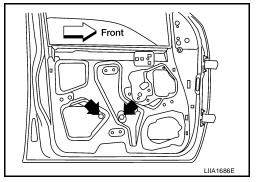
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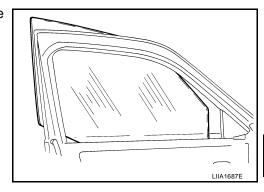
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- 1. Remove the front door finisher. Refer to EI-24, "FRONT DOOR".
- 2. If equipped, temporarily reconnect the power window switch.
- 3. For power windows, operate the power window main switch to raise/lower the door window until the glass bolts can be seen.
- 4. For manual windows, temporarily reinstall the window crank handle and lower the window until the glass bolts can be seen.
- 5. Remove the inside seal.
- 6. Remove the glass bolts.



7. While holding the door window, raise it at the rear and pull the glass out of the sash toward the outside of the door.



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INSTALLATION

Installation is in the reverse order of removal.

Glass bolts : 6.1 N·m (0.62 kg-m, 54 in-lb)

Check the glass for proper fit. Refer to <u>GW-49</u>, "<u>FITTING INSPECTION</u>".

On the drivers door, reset the motor. Refer to GW-52, "SETTING AFTER INSTALLATION".

FITTING INSPECTION

Check that the glass fits securely into the glass run groove.

• 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 bolts, guide rail bolts, and glass and guide rail bolts to adjust the glass position.

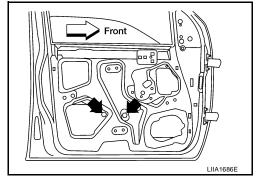
Regulator and motor or : 5.7 N·m (0.58 kg-m, 50 in-lb) crank assembly bolts

Glass bolts : 6.1 N·m (0.62 kg-m, 54 in-lb)

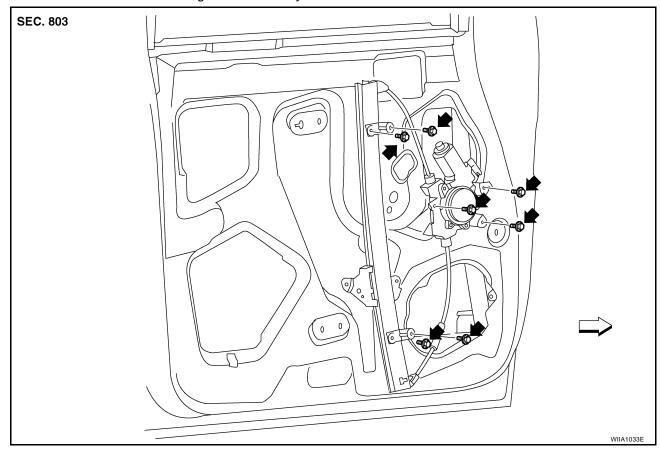
Front Door Glass Regulator REMOVAL

EIS00677

- 1. Remove the front door finisher. Refer to EI-24, "FRONT DOOR".
- 2. If equipped, temporarily reconnect the power window switch.
- 3. For power windows, operate the power window main switch to raise/lower the door window until the glass bolts can be seen.
- 4. For manual windows, temporarily reinstall the window crank handle and lower the window until the glass bolts can be seen.
- 5. Remove the inside seal.
- 6. Remove the glass bolts.



- 7. Raise the front door glass and hold it in place with suitable tool.
- 8. If equipped, disconnect the harness connector from the regulator assembly.
- 9. Remove the bolts and the regulator assembly.



DISASSEMBLY AND ASSEMBLY

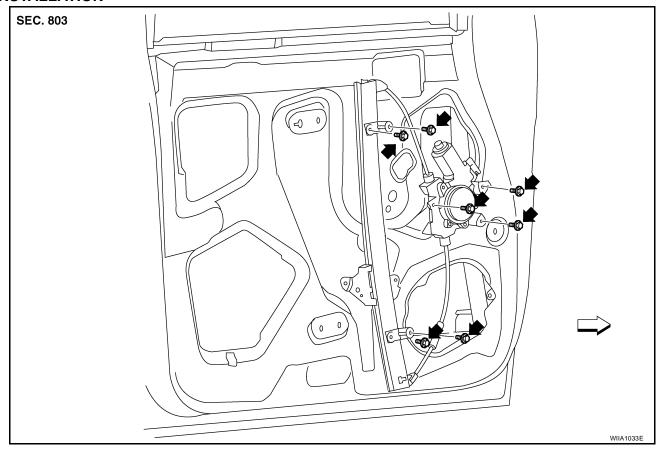
Remove the regulator motor or crank assembly from the regulator assembly.

INSPECTION AFTER REMOVAL

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

- Wire wear
- Regulator deformation
- Grease condition for each sliding part

INSTALLATION

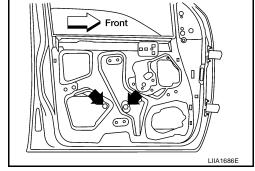


- 1. Install the regulator assembly.
- Loosely install the top rear regulator bolt to use along with the temporary holds on the window motor or crank assembly to install the assembly in the door.
- b. Install the top front regulator bolt.
- c. Install the bottom front regulator bolt.
- d. Install the bottom rear regulator bolt.
- e. Tighten the top rear regulator bolt.
- f. Install the top window motor or crank assembly bolt.
- g. Install the lower window motor or crank assembly bolt
- h. Install the rear window motor or crank assembly bolt.

Regulator and motor or : 5.7 N·m (0.58 kg-m, 50 in-lb) crank assembly bolts

- 2. If equipped, connect the harness connector to the regulator assembly.
- Lower the glass and ensure that it is in both the front and rear glass channels. Tighten glass bolts.

Glass bolts : 6.1 N·m (0.62 kg-m, 54 in-lb)



- 4. Check the glass for proper fit. Refer to GW-49, "FITTING INSPECTION".
- 5. On the drivers door, reset the motor (if equipped). Refer to GW-52, "SETTING AFTER INSTALLATION".

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- 6. Install the inside seal.
- 7. Install front door finisher. Refer to EI-24, "FRONT DOOR".

SETTING AFTER INSTALLATION

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

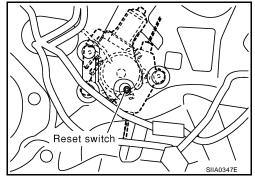
Resetting

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

- 1. Raise the glass to the top position.
- 2. While pressing and holding the reset switch, lower the glass to the bottom position.
- 3. Release the reset switch. Verify that the reset switch returns to the original position, if not, pull the switch using suitable tool.
- 4. Raise the glass to the top position.

CAUTION:

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



REAR DOOR GLASS AND REGULATOR

REAR DOOR GLASS AND REGULATOR

PFP:82300

Rear Door Glass

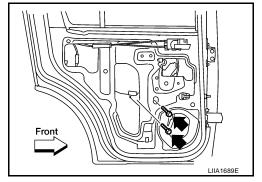
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- 1. Remove the rear door finisher. Refer to EI-24, "DOOR FINISHER" .
- 2. Remove the inside seal.
- 3. If equipped, temporarily reconnect the power window switch.
- 4. Remove the glass run from the partition glass.
- 5. For power windows, operate the power window switch to raise/ lower the door window until the glass bolts can be seen.
- 6. For manual windows, temporarily reinstall the window crank handle and lower the window until the glass bolts can be seen.
- Remove the partition sash bolt (lower) and screw (upper) to remove the sash.
- 8. Remove the bolts and the glass.



INSTALLATION

Installation is in the reverse order of removal.

Glass bolts : 5.7 N·m (0.58 kg-m, 50 in-lb)

Check the glass alignment. Refer to <u>GW-53, "FITTING INSPECTION"</u>.

FITTING INSPECTION

Check that the glass fits securely into the glass run groove.

• 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 bolts, guide rail bolts, and glass carrier plate bolts to correct the glass position.

Regulator and motor : 7.5 N·m (0.77 kg-m, 66 in-lb)

or crank assembly

bolts

Glass bolts : 5.7 N·m (0.58 kg-m, 50 in-lb)

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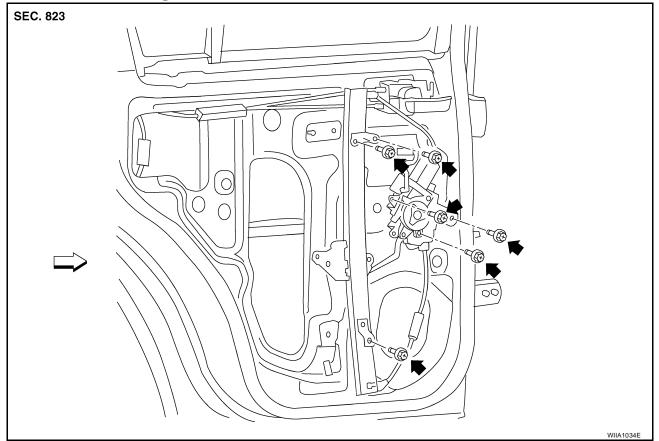
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REAR DOOR GLASS AND REGULATOR

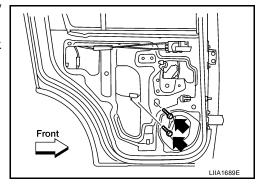
Rear Door Glass Regulator





REMOVAL

- Remove the rear door finisher. Refer to <u>EI-24, "DOOR FINISHER"</u>.
- 2. Remove the inside seal.
- 3. If equipped, temporarily reconnect the power window switch.
- 4. For power windows, operate the power window switch to raise/ lower the door window until the glass bolts can be seen.
- 5. For manual windows, temporarily reinstall the window crank handle and lower the window until the glass bolts can be seen.



- 6. Raise the rear door glass and hold it in place with suitable tool.
- 7. Remove the bolts and the regulator assembly.
 - If equipped, disconnect the connector from the regulator assembly.

INSPECTION AFTER REMOVAL

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

- Gear wear
- Regulator deformation
- Spring damage
- Grease condition for each sliding part

REAR DOOR GLASS AND REGULATOR

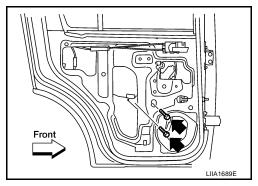
INSTALLATION

- Connect the harness connector and install the regulator assembly.
- a. Loosely install the top rear regulator bolt to use along with the temporary holds on the window motor or crank assembly to install the assembly in the door.
- b. Install the top front regulator bolt.
- c. Install the bottom regulator bolt.
- d. Tighten the top rear regulator bolt.
- e. Install the top window motor or crank assembly bolt.
- f. Install the lower window motor or crank assembly bolt.
- g. Install the front window motor or crank assembly bolt.

Regulator and motor or : 7.5 N·m (0.77 kg-m, 66 in-lb) crank assembly bolts

2. Lower the glass and ensure that it is in both the front and rear glass channels. Tighten glass bolts.

Glass bolts : 5.7 N·m (0.58 kg-m, 50 in-lb)



- 3. Install the partition sash
- 4. Check the glass alignment. Refer to GW-53, "FITTING INSPECTION".
- 5. Install the inside seal.
- 6. Install the rear door finisher. Refer to <a>El-24, "DOOR FINISHER".

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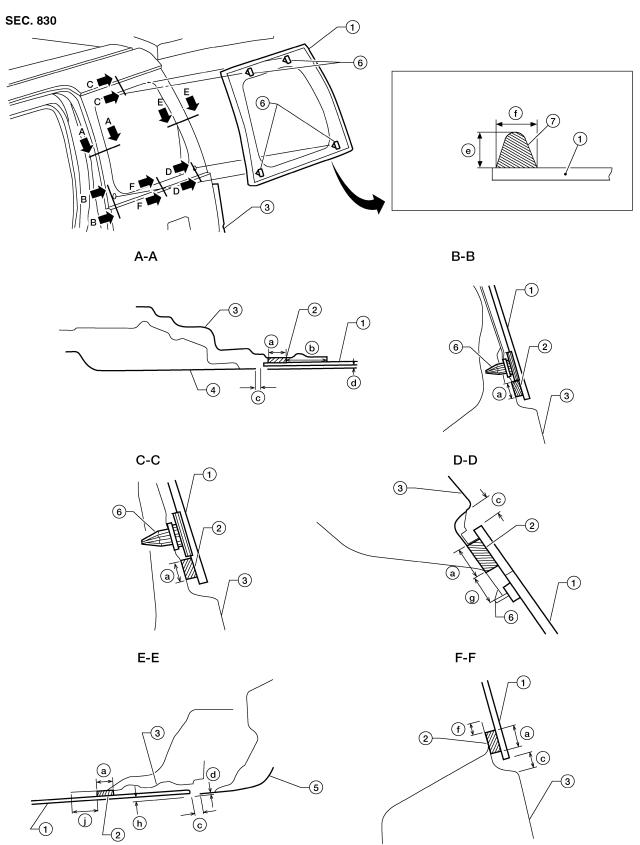
SIDE WINDOW GLASS

SIDE WINDOW GLASS

PFP:83300

Removal and Installation





WIIA1035E

SIDE WINDOW GLASS

		3	IDE WINDOW GL	A33		
1.	Glass	2.	Primer area	3.	Body side outer	٨
4.	Rear door assembly	5.	Back door assembly	6.	Locating clips	Α
7.	Urethane	a.	15 mm (0.59 in)	b.	42.5 mm (1.67 in)	
c.	3.0 mm (0.12 in)	d.	2.5 mm (0.1 in)	e.	12 mm (0.47 in)	В
f.	7.0 mm (0.28 in)	g.	11.5 mm (0.45 in)	h.	3.3 mm (0.13 in)	D
j.	30 mm (1.2 in)					
REM	OVAL					С
1. F	Remove the luggage side upp	er finis	her. Refer to EI-32, "LU	GGAGE FL	<u>-OOR TRIM"</u> .	
a. [Disconnect the antenna.					
b. I	f the window glass is to be re	used, r	nark the body and the g	lass with m	ating marks.	D
c. F	Remove the glass using piand	o wire c	or power cutting tool and	l an inflatab	ole pump bag.	
	NING:					_
					nd heavy gloves to help prevent	Е
_	s splinters from entering yo	our eye	s or cutting your nand	IS.		
	TION: Be careful not to scratch th	a alaes	when removing			F
	Do not set or stand the glas	_	_	av davalon	into cracks	1
	_	S OII IL	s edge. Oman chips in	ay develop	into cracks.	
	ALLATION	_				G
	llation is in the reverse order					
	Jse a genuine NISSAN Uretl nished with it.	nane Ad	dhesive Kit (if available)	or equivale	ent and follow the instructions fur-	Н
	While the urethane adhesive out by passenger compartme				revent the glass from being forced	
• (Check gap along bottom to co	onfirm t	hat glass does not conta	act sheet m	etal.	G۷
	nform the customer that the cured (preferably 24 hours). (urethane adhesive has completely umidity.	0,
WAR	NING:		·		•	J
• ł	Keep heat and open flames	away a	as primers and adhesi	ve are flam	nmable.	J
	The materials contained in contact with the skin and ey		are harmful if swallov	ved, and m	ay irritate skin and eyes. Avoid	17
	Jse in an open, well vent nhaled. If affected by vapo				apors. They can be harmful if ea with fresh air.	K
	Oriving the vehicle before nance of the glass in case			completel	y cured may affect the perfor-	L
	TION:					
r					of this product is limited to six expiration or manufacture date	M
		in a co	ool, dry place, Ideally,	thev shoul	d be stored in a refrigerator.	
	Do not leave primers or adh			-	_	
• 7	The vehicle should not be	driven varies	for at least 24 hours depending on tempe	or until th	ne urethane adhesive has com- humidity. The curing time will	
	airing Water Leaks for Si					
•	s can be repaired without rer					
				or aloes d	etermine the extent of leakage	

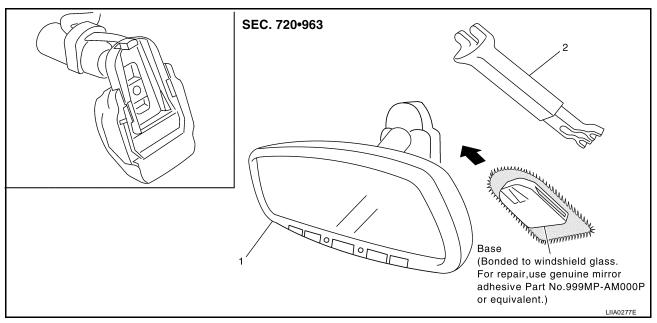
This can be done by applying water to the side window area while pushing glass outward. To stop leak, apply primer (if necessary) and then urethane adhesive to the leak point.

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

INSIDE MIRROR PFP:96321

Removal and Installation

EIS0067D



1. Inside mirror assembly

2. Inside mirror finisher

REMOVAL

- 1. Remove inside mirror finisher (if equipped).
- 2. Slide the mirror upward to remove.
- 3. Disconnect the connector (if equipped).

INSTALLATION

Installation is in the reverse order of removal.

BACK DOOR WINDOW GLASS PFP:90300 **Removal and Installation** EIS006W0 **SEC.900** В D Е Н GW A-A B-B C-C M WIIA1075E Lift gate outer panel Back door window glass Primer Urethane 7.0 mm (0.27 in) 12.0 mm (0.47 in) 15.0 mm (0.59 in) c.

REMOVAL

- 1. Remove the rear wiper arm. Refer to WW-39, "REAR WIPER ARM".
- 2. If the rear window glass is to be reused, mark the body and the glass with mating marks.
- 3. Disconnect the rear window defogger connectors.
- 4. Remove the high mount stop lamp. Refer to LT-70, "HIGH-MOUNTED STOP LAMP".

BACK DOOR WINDOW GLASS

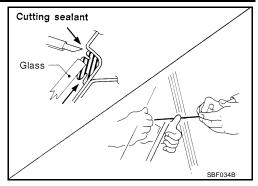
5. Remove glass using piano wire or power cutting tool and an inflatable pump bag.

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:

- 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

- 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.
- 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.
- Install parts removed.

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 rear window in case of an accident.

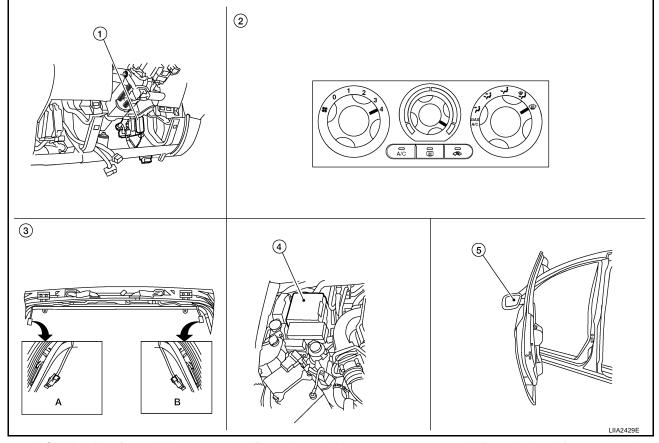
CAUTION:

- 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.

PFP:25350

Component Parts and Harness Connector Location

FIS0067F



- BCM M18, M20 (view with instrument lower panel LH removed)
- Front air control M49
- A. Rear window defogger ground connector D604 B. Rear window defogger connector D651

- 4. IPDM E/R E120, E122, E124
- Door mirror LH D4. RH D107

System Description

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

GW-61

The rear window defogger only operates for approximately 15 minutes. Power is supplied at all times

- through 15A fuses (No. 46 and 47, located in the IPDM E/R)
- to rear window defogger relay (located in the IPDM E/R)
- through 50A fusible link (letter **g**, located in the fuse and fusible link box)
- to BCM terminal 70
- through 15A fuse [No. 43 (with heated mirrors), located in the IPDM E/R]
- to heated mirror relay (located in the IPDM E/R).

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

- through ignition relay
- to rear window defogger relay (located in the IPDM E/R)
- through 10A fuse [No. 1, located in the fuse block (J/B)]
- to BCM terminal 38.

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

- through 10A fuse [No. 8, located in the fuse block (J/B)]
- to front air control terminal 6.

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Ground is supplied

- to BCM terminal 67
- to front air control terminal 20
- through body grounds M57, M61 and M79
- to IPDM E/R terminals 38 and 59
- 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 20
- 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 BCM sends rear window defogger switch signals to IPDM E/R 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 (located in the IPDM E/R)
- through IPDM E/R terminals 38 and 59
- through body grounds E9, E15 and E24.

Then rear window defogger relay is energized, power is supplied

- through IPDM E/R terminal 60
- to rear window defogger terminal +.

Ground is supplied

- to rear window defogger terminal -
- through body ground D603.

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 heated mirrors), power is supplied

- through heated mirror relay (located in the IPDM E/R)
- through IPDM E/R terminal 23
- to door mirror defogger (LH and RH) terminal 1.

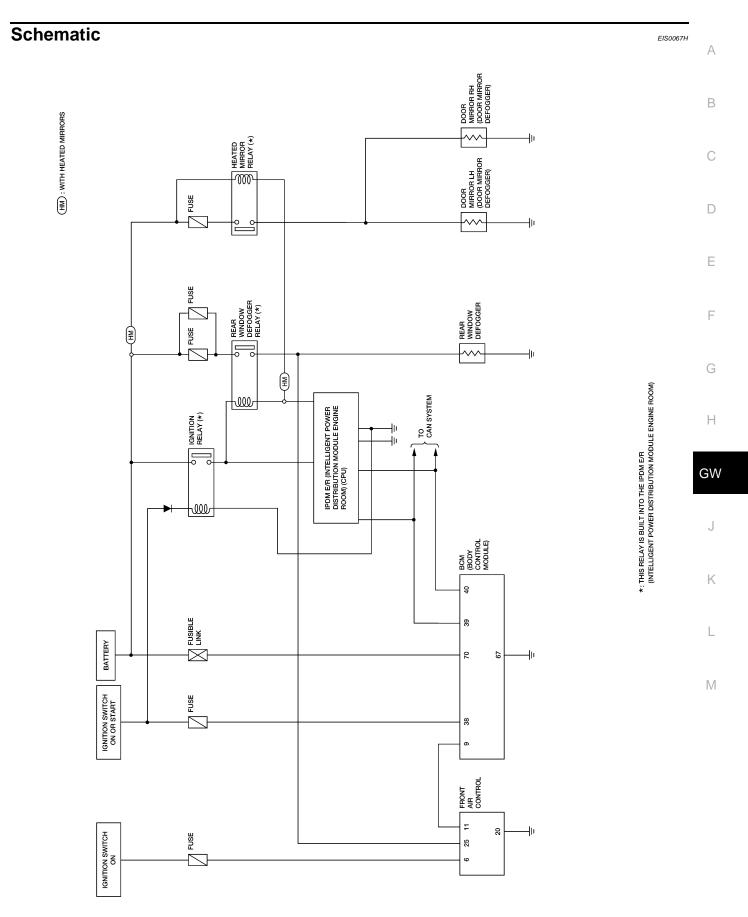
Door mirror defogger (LH and RH) is grounded through body grounds M57, M61 and M79.

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

CAN Communication System Description

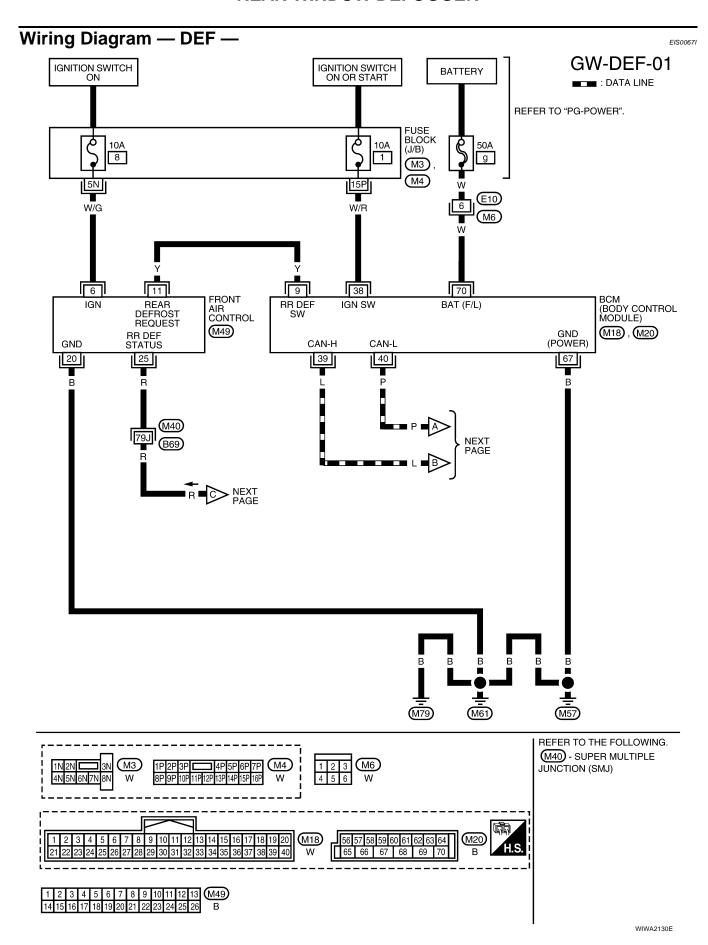
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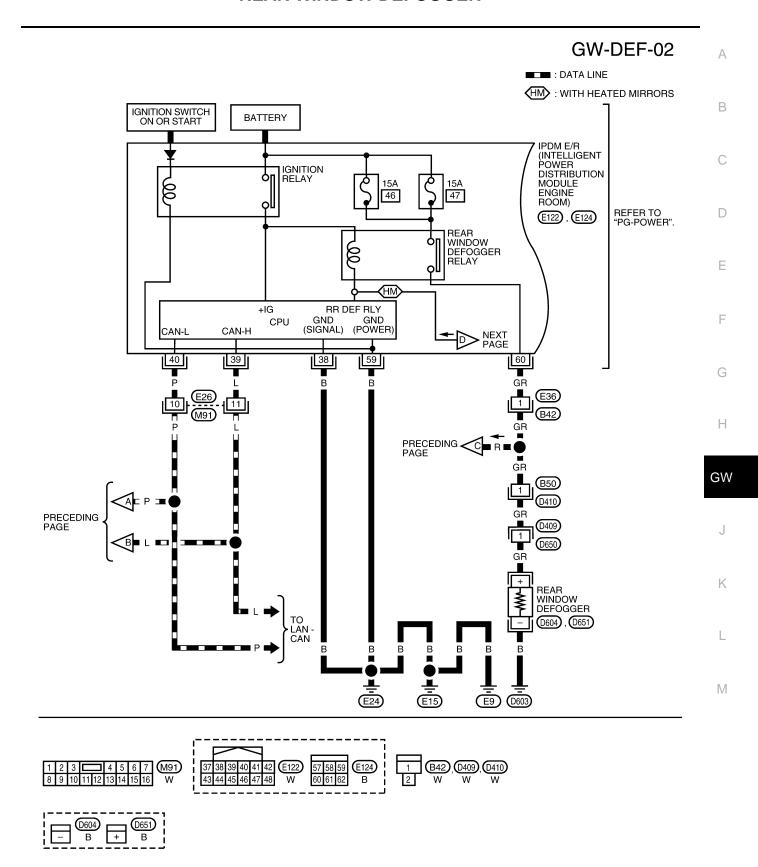
Refer to LAN-4, "SYSTEM DESCRIPTION".



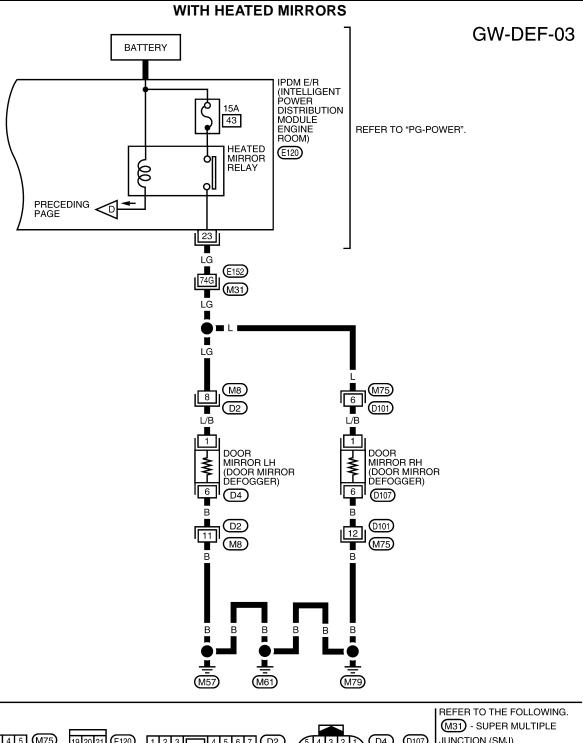
Revision: September 2006 **GW-63** 2007 Xterra

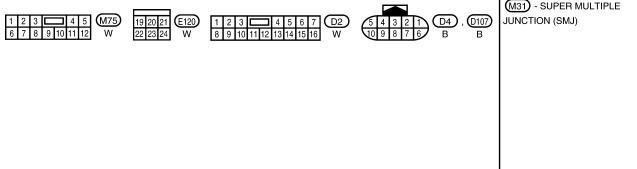
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WIWA2131E





WIWA2132E

Terminals and Reference Values for BCM

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Refer to BCS-12, "Terminals and Reference Values for BCM" .

Terminals and Reference Values for IPDM E/R

EIS0067K

Refer to PG-27, "Terminals and Reference Values for IPDM E/R" .

Work Flow

- 1. Check the symptom and customer's requests.
- 2. Understand the outline of system. Refer to GW-61, "System Description".
- 3. According to the trouble diagnosis chart, repair or replace the cause of the malfunction. Refer to <u>GW-67</u>, <u>"Trouble Diagnoses Symptom Chart"</u>.
- 4. Does rear window defogger operate normally? YES: GO TO 5, NO: GO TO 3.
- 5. Inspection End.

CONSULT-II Function (BCM)

EIS0067M

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

BCM diagnostic test item	Diagnostic mode	Content	
	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.	
Inspection by part	SELF-DIAG RESULTS	Displays BCM self-diagnosis results.	
inspection by part	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 START PROCEDURE

Refer to GI-38, "CONSULT-II Start Procedure" .

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

EIS0067N

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

Symptom	Diagnoses / Service procedure	Refer to page
	BCM power supply and ground circuit check	BCS-16
Rear window defogger and door mirror defoggers do not	2. IPDM E/R auto active test check	PG-23
operate. (With heated mirrors)	3. Rear window defogger switch circuit check	<u>GW-69</u>
	4. Replace IPDM E/R	PG-32

Symptom	Diagnoses / Service procedure	Refer to page
	BCM power supply and ground circuit check	BCS-16
	2. IPDM E/R auto active test check	PG-23
Rear window defogger does not operate.	3. Rear window defogger switch circuit check	<u>GW-69</u>
(Without heated mirrors)	4. Rear window defogger circuit check	<u>GW-70</u>
	5. Filament check	<u>GW-74</u>
	6. Replace IPDM E/R	PG-32
	Rear window defogger circuit check	<u>GW-70</u>
Rear window defogger does not operate but both door mirror defoggers operate. (With heated mirrors)	2. Filament check	<u>GW-74</u>
Tor dologgoro opolato. (With heated Hillioto)	3. Replace IPDM E/R	PG-32
Both door mirror defoggers do not operate but rear window	Door mirror defogger power supply circuit check	<u>GW-71</u>
defogger operates. (With heated mirrors)	2. Replace IPDM E/R	PG-32
Door mirror LH defogger does not operate.	Door mirror LH defogger circuit check	<u>GW-73</u>
Door mirror RH defogger does not operate.	Door mirror RH defogger circuit check	<u>GW-74</u>
Rear window defogger switch does not light, but rear window defogger operates.	1. Replace front air control	MTC-80

BCM Power Supply and Ground Circuit Check

Refer to BCS-16, "BCM Power Supply and Ground Circuit Check" .

Rear Window Defogger Switch Circuit Check

1. CHECK REAR WINDOW DEFOGGER SWITCH OPERATION

(II) 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

DATA MOI	NITOR		(
MONITOR			
REAR DEF SW IGN ON SW	OFF ON		I
		PIIA2373E	

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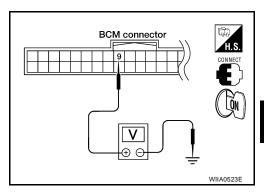
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⋈ Without CONSULT-II

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

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



OK or NG

OK >> Rear window defogger switch check is OK.

NG >> GO TO 2.

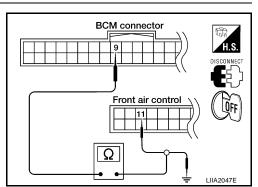
2. CHECK REAR WINDOW DEFOGGER SWITCH CIRCUIT HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM and front air control.
- 3. 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.



3. CHECK BCM OUTPUT SIGNAL

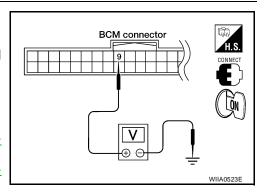
- 1. Connect BCM.
- 2. Turn ignition switch ON.
- 3. Check voltage between BCM connector M18 terminal 9 and ground.

9 - Ground : Approx. 5V

OK or NG

OK >> Replace front air control. Refer to MTC-22, "AIR CONDITIONER CONTROL".

NG >> Replace BCM. Refer to <u>BCS-25</u>, "Removal and Installation of BCM".



EIS0067Q

Rear Window Defogger Circuit Check

1. CHECK FUSES

Check if any of the fuses in IPDM E/R are blown. Refer to $\underline{PG-18}$, "IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)".

OK or NG

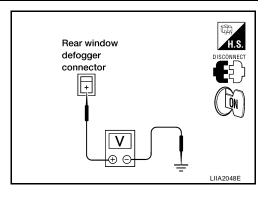
OK >> GO TO 2.

NG >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse, refer to PG-18, "IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)".

$2. \ \mathsf{CHECK} \ \mathsf{REAR} \ \mathsf{WINDOW} \ \mathsf{DEFOGGER} \ \mathsf{POWER} \ \mathsf{SUPPLY} \ \mathsf{CIRCUIT}$

- 1. Turn ignition switch OFF.
- 2. Disconnect rear window defogger.
- 3. Turn ignition switch ON.
- 4. Check voltage between rear window defogger connector D651 terminal + and ground.

Connector	Terminals		Condition	Voltage (V)
	(+)	(-)	Condition	(Approx.)
D651	+	Ground	Rear window defogger switch ON.	Battery voltage
	т		Rear window defogger switch OFF.	0



OK or NG

OK >> GO TO 3. NG >> GO TO 4.

3. CHECK REAR WINDOW DEFOGGER GROUND CIRCUIT

- Turn ignition switch OFF.
- 2. Check continuity between rear window defogger connector D604 terminal and ground.

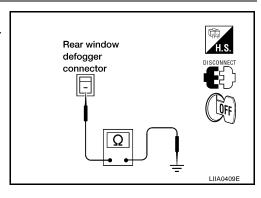
- - Ground

: Continuity should exist.

OK or NG

OK >> Check filament. Refer to <u>GW-74</u>, "<u>Filament Check</u>".

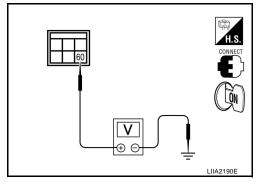
- If filament is OK.
 Check the condition of the harness and the connector.
- If filament is NG.
 Repair filament.
- NG >> Repair or replace harness.



4. CHECK REAR WINDOW DEFOGGER RELAY OUTPUT SIGNAL

Check voltage between IPDM E/R and ground.

Connector	Terminals		Condition	Voltage (V)
	(+)	(-)	Condition	(Approx.)
IPDM E/R: E124	60	Ground	Rear window defogger switch ON.	Battery voltage
	30		Rear window defogger switch OFF.	0



OK or NG

NG

OK >> Repair or replace harness.

>> Replace IPDM E/R. Refer to PG-32, "Removal and Installation of IPDM E/R".

Door Mirror Defogger Power Supply Circuit Check (With Heated Mirrors)

1. CHECK FUSE

Check if any of the fuses in IPDM E/R is blown. Refer to PG-18, "IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)" .

OK or NG

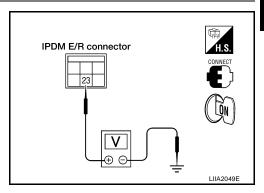
OK >> GO TO 2.

NG >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse. Refer to PG-18, "IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)".

2. CHECK DOOR MIRROR DEFOGGER POWER SUPPLY CIRCUIT

- 1. Turn ignition switch ON.
- 2. Check voltage between IPDM E/R connector and ground.

Connector	Terminals		Condition	Voltage (V)
	(+)	(-)	Condition	(Approx.)
E120	23 Ground	Ground	Rear window defogger switch ON	Battery voltage
		Ground	Rear window defogger switch OFF	0



OK or NG

OK >> GO TO 3.

NG >> Replace IPDM E/R. Refer to PG-32, "Removal and Installation of IPDM E/R".

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Revision: September 2006 **GW-71** 2007 Xterra

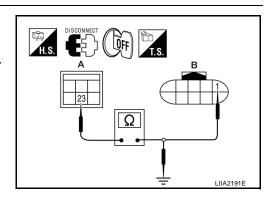
3. CHECK DOOR MIRROR DEFOGGER CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect IPDM E/R and door mirror LH or RH.
- Check continuity between IPDM E/R and door mirror LH or RH.

А		В		Continuity
Connector	Terminal	Connector Terminal		Continuity
IPDM E/R: E120	23	Door mirror: D4 (LH) or D107 (RH)	1	Yes

4. Check continuity between IPDM E/R and ground.

A		Ground	Continuity
Connector	Terminal		
IPDM E/R: E120	23		No



OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness.

4. CHECK DOOR MIRROR DEFOGGER GROUND CIRCUIT

Check continuity between door mirror connector D4 (LH) or D107 (RH) terminal 6 and ground.

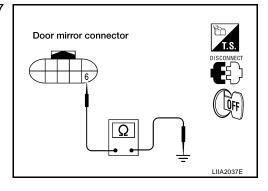
6 - Ground

: Continuity should exist.

OK or NG

OK >> GO TO 5.

NG >> Repair or replace harness.



5. CHECK DOOR MIRROR DEFOGGER

Check continuity between door mirror LH or RH terminals 1 and 6.

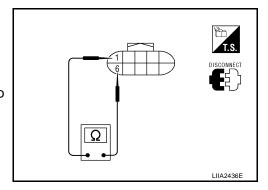
1 - 6 : Continuity should exist.

OK or NG

OK >> Repair or replace harness.

>> Replace malfunctioning door mirror LH or RH. Refer to NG

GW-79, "Door Mirror Assembly".

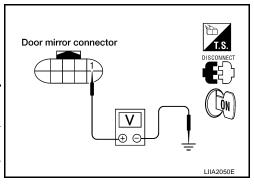


Door Mirror LH Defogger Circuit Check (With Heated Mirrors)

1. CHECK DOOR MIRROR LH DEFOGGER POWER SUPPLY CIRCUIT

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

Connector	Terminals		Condition	Voltage (V)
	(+)	(-)	Condition	(Approx.)
D4	1 Gro	Ground	Rear window defogger switch ON	Battery voltage
		Giodila	Rear window defogger switch OFF	0



OK or NG

OK >> GO TO 2.

NG >> Repair or replace harness.

2. CHECK DOOR MIRROR LH DEFOGGER GROUND CIRCUIT

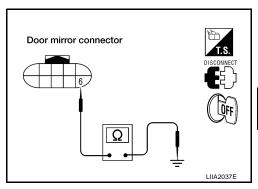
- 1. Turn ignition switch OFF.
- Check continuity between door mirror LH connector D4 terminal 6 and ground.
 - 6 Ground

: Continuity should exist.

OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.



3. CHECK DOOR MIRROR LH DEFOGGER

Check continuity between door mirror LH terminals 1 and 6.

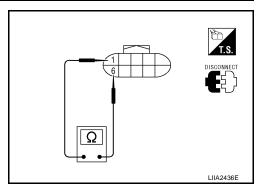
1 - 6 : Continuity should exist.

OK or NG

OK >> Repair or replace harness.

NG >> Replace door mirror LH. Refer to GW-79, "Door Mirror

Assembly".



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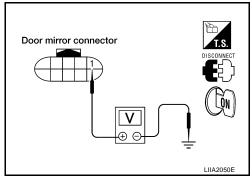
Door Mirror RH Defogger Circuit Check (With Heated Mirrors)

E130007

1. CHECK DOOR MIRROR RH 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)
	(+)	(-)	Condition	(Approx.)
D107	1	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.

2. CHECK DOOR MIRROR RH DEFOGGER GROUND CIRCUIT

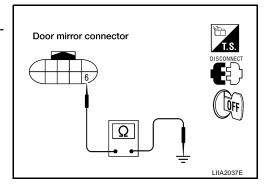
- 1. Turn ignition switch OFF.
- 2. Check continuity between door mirror RH connector D107 terminal 6 and ground.
 - 6 Ground

: Continuity should exist.

OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.



3. CHECK DOOR MIRROR RH DEFOGGER

Check continuity between door mirror RH terminals 1 and 6.

1 - 6

: Continuity should exist.

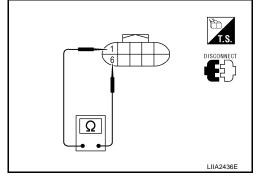
OK or NG

OK

>> Repair or replace harness.

NG

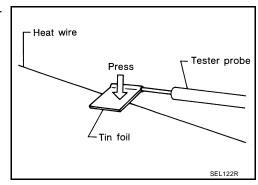
>> Replace door mirror RH. Refer to <u>GW-79</u>, "<u>Door Mirror</u> Assembly".



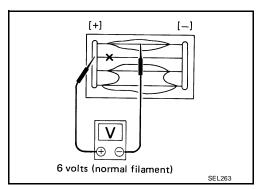
Filament Check

EIS0067V

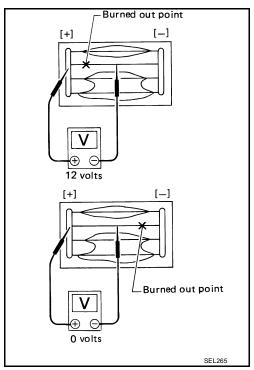
1. When measuring voltage, wrap tin foil around the top of the negative probe. Then press the foil against the wire with your finger.



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



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

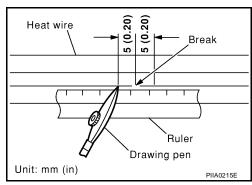


Filament Repair REPAIR EQUIPMENT

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

REPAIRING PROCEDURE

- 1. Wipe broken heat wire and its surrounding area clean with a cloth dampened in alcohol.
- 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.



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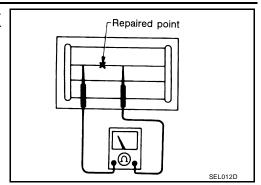
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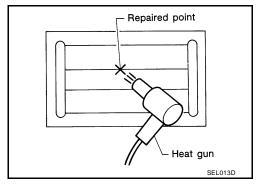
After repair has been completed, check repaired wire for continuity. This check should be conducted 10 minutes after silver composition is deposited.

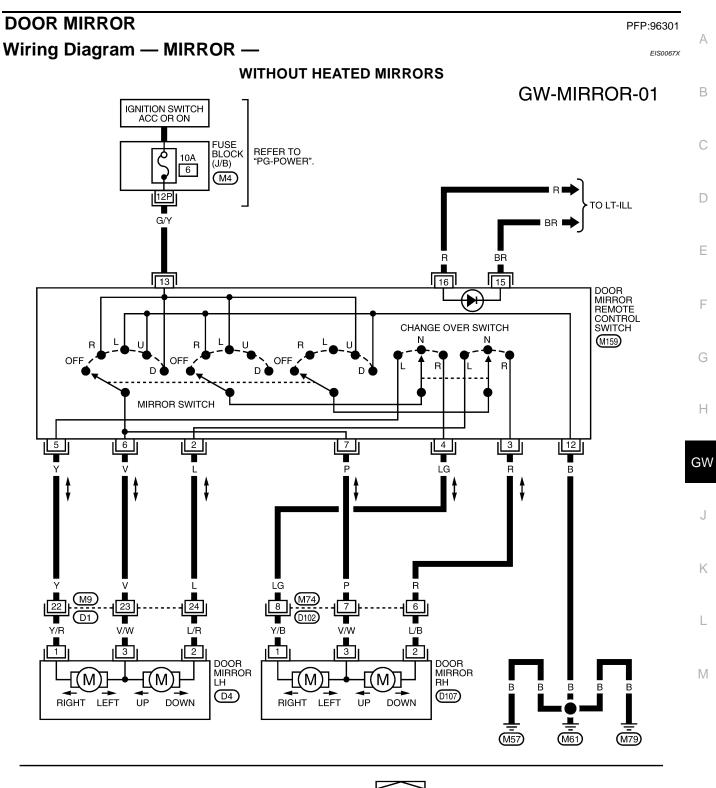
Do not touch repaired area while test is being conducted.

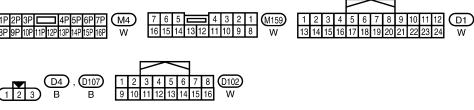


5. Apply a constant stream of hot air directly to the repaired area for approximately 20 minutes with a heat gun. A minimum distance of 3 cm (1.2 in) should be kept between repaired area and hot air outlet.

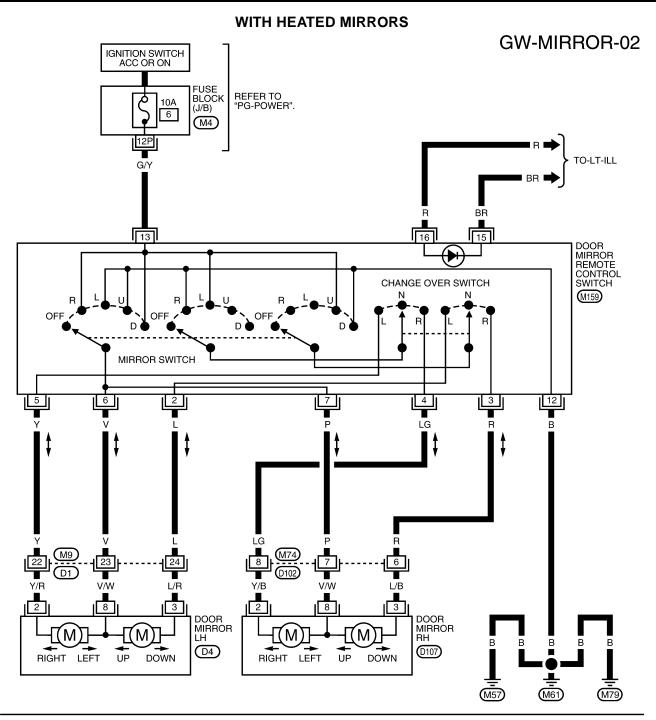
If a heat gun is not available, let the repaired area dry for 24 hours.

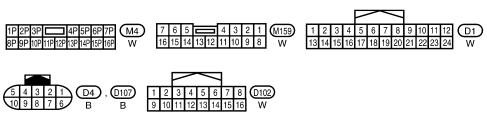






DOOR MIRROR

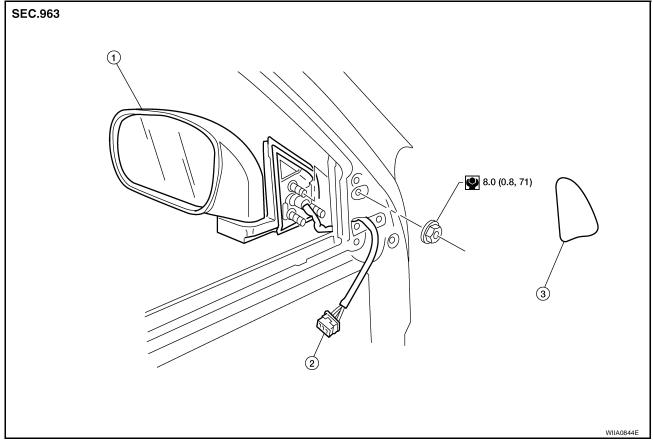




WIWA0810E

Door Mirror Assembly





Door mirror assembly

Harness connector

. Mirror bolt cover

NOTE:

Power mirror shown, manual similar.

POWER MIRROR

Removal

CAUTION:

Be careful not to damage the mirror bodies.

- 1. Remove the mirror bolt cover.
- 2. Remove the front door finisher. Refer to EI-24, "FRONT DOOR" .
- 3. Position the front door seal aside.
- 4. Disconnect the door mirror harness connector.
- 5. Remove the nuts and the door mirror assembly.

Installation

Installation is in the reverse order of removal.

MANUAL MIRROR

Removal

CAUTION:

Be careful not to damage the mirror bodies.

- 1. Remove the mirror bolt cover.
- 2. Remove the nuts and the door mirror assembly.

Installation

Installation is in the reverse order of removal.

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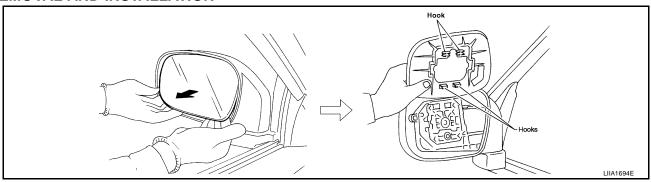
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DOOR MIRROR

Door Mirror Glass REMOVAL AND INSTALLATION

EIS0067Z



Removal

- 1. Angle the mirror fully up.
- 2. Remove the mirror.
 - Pull from the bottom to disengage the clips.
 - Continue to pivot the mirror upward from the bottom to separate the hooks.

Installation

Installation is in the reverse order of removal.