SECTION GLASSES, WINDOW SYSTEM & MIRRORS

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PRECAUTIONS

PRECAUTIONS

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

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

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SRS section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

Precautions for Battery Service

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

Precautions for Procedures without Cowl Top Cover

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc.

Handling for Adhesive and Primer

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

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PREPARATION

PREPARATION

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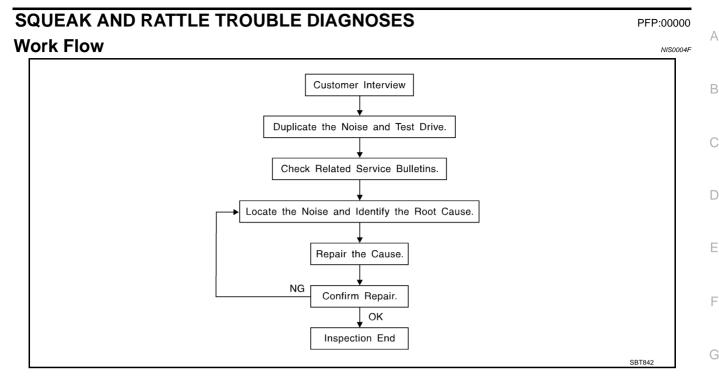
Special Service Tools

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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
(J39570) Chassis ear	SIIA0993E	Locating the noise
(J43980) NISSAN Squeak and Rattle Kit	SIIA0994E	Repairing the cause of noise
mmercial Service Tools		NISC

Tool name		Description
Engine ear	SIA0995E	Locating the noise
Suction lifter	PIIB 1805J	Remove the windshield, back door window glass



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 $\underline{GW-9}$, "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 models, drive position on A/T models).
- 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 and mechanics 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 fastener 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 <u>GW-7, "Generic Squeak and Rattle Troubleshooting"</u>.

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. NOTE:

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 \times 135 mm (3.94 \times 5.31 in)/76884-71L01: 60 \times 85 mm (2.36 \times 3.35 in)/76884-

71L02: 15 \times 25 mm (0.59 \times 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 \times 50 mm (1.97 \times 1.97 in)/73982-50Y00:

10 mm (0.39 in) thick, 50 \times 50 mm (1.97 \times 1.97 in)



INSULATOR (Light foam block) 80845-71L00: 30 mm (1.18 \times 1.97 in)	А
FELT CLOTHTAPE	
Used to insulate where movement does not occur. Ideal for instrument panel applications. 68370-4B000: $15 \times 25 \text{ mm}$ (0.59 \times 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.	В
UHMW (TEFLON) TAPE Insulates where slight movement is present. Ideal for instrument panel applications. SILICONE GREASE	С
Used in place of UHMW tape that will be visible or not fit. Will only last a few months. SILICONE SPRAY	
Use when grease cannot be applied. DUCT TAPE Use to eliminate movement.	D
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.	E
Generic Squeak and Rattle Troubleshooting	F
Refer to Table of Contents for specific component removal and installation information.	
INSTRUMENT PANEL	G
Most incidents are caused by contact and movement between:	9
1. The cluster lid A and instrument panel	
2. Acrylic lens and combination meter housing	Н
3. Instrument panel to front pillar garnish	
4. Instrument panel to windshield	
5. Instrument panel mounting pins	GW
6. Wiring harnesses behind the combination meter	
7. A/C defroster duct and duct joint	1
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 silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring har-	J
ness.	Κ
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.	L
CENTER CONSOLE	
Components to pay attention to include:	в./

Components to pay attention to include:

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

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

DOORS

Pay attention to the:

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

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

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TRUNK

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

- 1. Trunk lid dumpers 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. Sunvisor shaft shaking in the holder
- 3. Front or rear windshield touching headlining 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.

SEATS

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

Cause of seat noise include:

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

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

UNDERHOOD

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

Causes of transmitted underhood noise include:

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

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

Diagnostic Worksheet

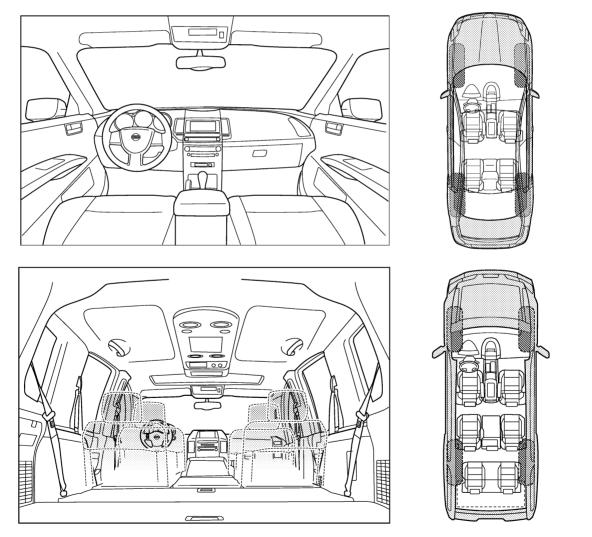


SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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 DOES THE NOISE COME FROM? (circle the area of the vehicle) The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



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

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SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

II. WHEN DOES IT OCCUR? (please check the boxes that apply)				
 anytime 1st time in the morning only when it is cold outside only when it is hot outside 	 after sitting out in the rain when it is raining or wet dry or dusty conditions other: 			
III. WHEN DRIVING:	IV. WHAT TYPE OF NOISE			
 through driveways over rough roads over speed bumps only about mph on acceleration coming to a stop on turns: left, right or either (circle) with passengers or cargo other: after driving miles or minutes 	 squeak (like tennis shoes on a clean floor) creak (like walking on an old wooden floor) rattle (like shaking a baby rattle) knock (like a knock at the door) tick (like a clock second hand) thump (heavy, muffled knock noise) buzz (like a bumble bee) 			

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

	YES	NO	Initials of person performing
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confirm repair			
VIN: C	ustomer Na	me:	
W.O.# D	ate:		

WINDSHIELD GLASS

WINDSHIELD GLASS Removal and Installation

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İnsulator

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SEC. 720 23 33 1 T P 5 Unit: mm (in) : Always replace after (6) every disassembly. Primer area Panel Primer area Adhesive coating shape Lower: 11 (0.43) Upper: 8 (0.31) Adhesive 7 (0.27) Side: 16 (0.63) Glass 7 (0.28) Dam rubber FILLER Glass Insulator 12 (0.47) 19 (0.74) **.** 19.5 (0.76) Ġlass Dam rubber : Primer Panel mimer : Primer Section: B-B Section: C-C Section: A-A Glass Roof panel (Body side Adhesive (Outer) Molding Cowl top

1. Dam rubber

Glass

4. Windshield glass

Dam rubber

7. Mirror base

REMOVAL (COUPE)

1. Remove the front pillar finisher. Refer to EI-31, "Removal and Installation (for Coupe Models)" .

Glass

Fastener

Insulator

2.

5.

2. Partially remove the headlining (front edge). Refer to EI-44, "Removal and Installation (for Coupe Models)".

cover

3.

6.

Dam rubber

Panel

Molding (upper)

Spacer

Adhesive

Dam rubber

- 3. Remove the front pillar garnish. Refer to EI-35, "Removal and Installation (for Coupe Models)" .
- 4. Remove the front wiper arms. Refer to <u>WW-30</u>, "Removal and Installation of Front Wiper Arms, Adjustment of Wiper Arms Stop Location".
- 5. Remove the cowl top cover. Refer to $\underline{\text{EI-20, "COWL TOP"}}$.

Adhesive

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- 6. Apply a protective tape around the windshield glass to protect the painted surface from damage. **NOTE:**
- After removing moldings, remove glass using piano wire or power cutting tool and an inflatable pump bag.
- If a windshield glass is to be reused, mark the body and the glass with mating marks.

Revision: 2006 November

GW-11

2007 350Z

WARNING:

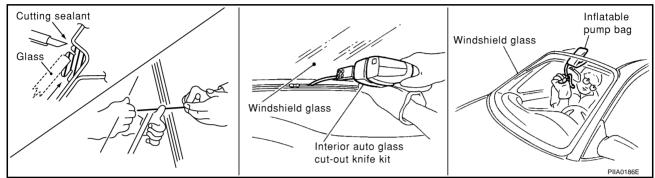
When cutting the glass from the vehicle, always wear safety glasses and heavy gloves to help prevent glass splinters from entering your eyes or cutting your hands.

CAUTION:

- When a windshield glass is to be reused, do not use a cutting knife or power cutting tool.
- Be careful not to scratch the glass when removing.
- 7. Remove the windshield glass, using suction lifter.

NOTE:

Do not set or stand the glass on its edge. Small chips may develop into cracks.



REMOVAL (ROADSTER)

- 1. Open the soft top.
- 2. Remove the front pillar finisher. Refer to EI-32, "Removal and Installation (for Roadster Models)" .
- 3. Remove the roof front finisher. Refer to EI-46, "Removal and Installation (for Roadster Models)" .
- 4. Remove the front pillar garnish. Refer to EI-37, "Removal and Installation (for Roadster Models)" .
- 5. Remove the front wiper arms. Refer to <u>WW-30</u>, "Removal and Installation of Front Wiper Arms, Adjustment of Wiper Arms Stop Location".
- 6. Remove the cowl top cover. Refer to EI-20, "COWL TOP" .
- 7. Apply a protective tape around the windshield glass to protect the painted surface from damage.

NOTE:

- After removing moldings, remove glass using piano wire or power cutting tool and an inflatable pump bag.
- If a windshield glass is to be reused, mark the body and the glass with mating marks.

WARNING:

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

CAUTION:

• When a windshield glass is to be reused, do not use a cutting knife or power cutting tool.

• Be careful not to scratch the glass when removing.

8. Remove the windshield glass, using suction lifter.

NOTE:

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.
- Inform the customer that the vehicle should remain stationary until the urethane adhesive has completely cured (preferably 24 hours). Curing time varies with temperature and humidity.

WARNING:

- Keep heat and open flames away as primers and adhesive are flammable.
- The materials contained in the kit are harmful if swallowed, and may irritate skin and eyes. Avoid contact with the skin and eyes.

- Use in an open, well ventilated location. Avoid breathing the vapors. They can be harmful if inhaled. If affected by vapor inhalation, immediately move to an area with fresh air.
- Driving the vehicle before the urethane adhesive has completely cured may affect the performance of the windshield in case of an accident.

CAUTION:

- Do not use an adhesive which is past its usable term. Shelf life of this product is limited to six months after the date of manufacture. Carefully adhere to the expiration or manufacture date printed on the box.
- Keep primers and adhesive in a cool, dry place. Ideally, they should be stored in a refrigerator.
- Do not leave primers or adhesive cartridge unattended with their caps open or off.
- The vehicle should not be driven for at least 24 hours or until the urethane adhesive has completely cured. Curing time varies depending on temperature and humidity. The curing time will increase under lower temperature and lower humidity.

Repairing Water Leaks

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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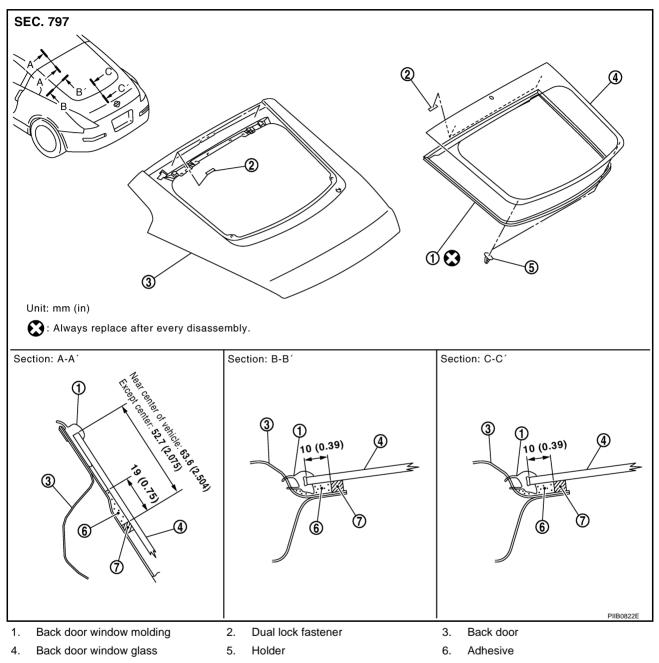
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BACK DOOR WINDOW GLASS

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Removal and Installation





7. Dam rubber

REMOVAL

- 1. Remove back door finisher. Refer to EI-48, "BACK DOOR FINISHER" .
- 2. Remove rear wiper arm. Refer to <u>WW-46</u>, "Removal and Installation of Rear Wiper Arm, Adjustment of <u>Wiper Arms Stop Location"</u>.
- 3. Remove connectors and grounds for rear window defogger.
- 4. Apply a protective tape around the back door window glass to protect the painted surface from damage. remove glass using piano wire or power cutting tool and an inflatable pump bag.

NOTE:

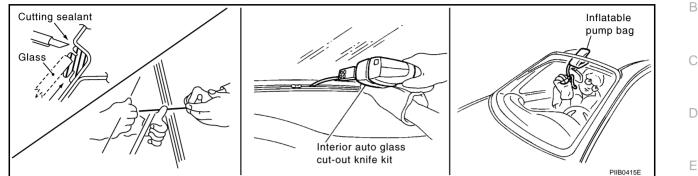
If a back door window glass is to be reused, mark the body and the glass with mating marks.

WARNING:

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

CAUTION:

- When a back door window glass is to be reused, do not use a cutting knife or power cutting tool. А
- 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.



Remove the back door window glass, using suction lifter. 5.

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.
- 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 back door window in case of an accident.

CAUTION:

- Κ 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. L
- 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 com-Μ pletely cured. Curing time varies depending on temperature and humidity. The curing time will increase under lower temperature and lower humidity.

Repairing Water Leaks

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 back door window 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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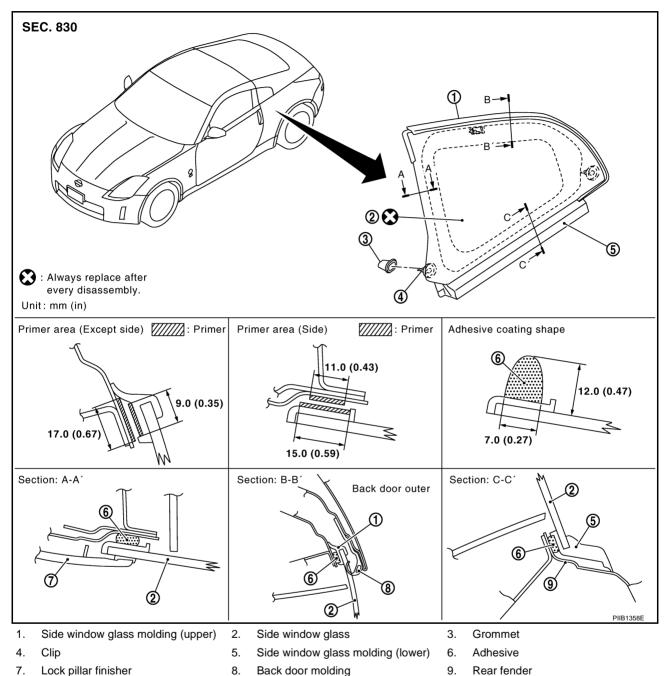
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SIDE WINDOW GLASS

SIDE WINDOW GLASS Removal and Installation

PFP:83300





REMOVAL

- 1. Remove rear side finisher. Refer to EI-35, "BODY SIDE TRIM" .
- 2. Remove rear pillar finisher. Refer to EI-35, "BODY SIDE TRIM" .
- 3. Remove headlining. Refer to EI-44, "HEADLINING" .
- 4. Remove lock pillar finisher. Refer to EI-31, "ROOF SIDE MOLDING" .

NOTE:

If a side window glass is to be reused, mark the body and the glass with mating marks.

WARNING:

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

- CAUTION:
- Be careful not to scratch the glass when removing.

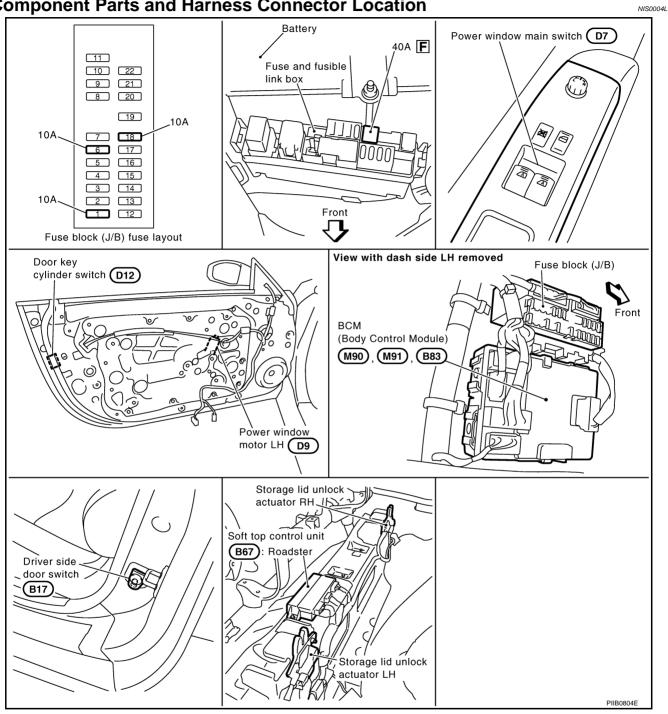
Do not set or stand the glass on its edge. Small chips may develop into cracks.
INSTALLATION
• Use a genuine Nissan Urethane Adhesive Kit (if available) or equivalent and follow the instructions fur- nished with it.
• While the urethane adhesive is curing, open a door window. This will prevent the glass 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.
 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 side 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 com-
pletely cured. Curing time varies depending on temperature and humidity. The curing time will increase under lower temperature and lower humidity.
Repairing Water Leaks
Leaks can be repaired without removing and reinstalling glass. f 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 side window area while pushing glass outward. To stop the leak, apply primer (if necessary) and then urethane adhesive to the leak point.
to stop the leak, apply primer (in necessary) and then drethane adhesive to the leak point.

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Component Parts and Harness Connector Location





System Description	NIS0004M	
Power is supplied at all times		А
 through 40A fusible link (letter F, located in the fuse and fusible link box) 		
• to BCM terminal 55.		В
 through 10A fuse [No. 18, located in the fuse block (J/B)] 		
• to BCM terminal 42.		
through BCM terminal 54		С
 to power window main switch terminal 1. 		
 to power window sub-switch terminal 10. 		D
With ignition switch in ON or START position, power is supplied		D
 through 10A fuse [No.1, located in the fuse block (J/B)] 		
to BCM terminal 38.		Е
through BCM terminal 53		
• to power window main switch terminal 10.		
Ground is supplied		F
to BCM terminal 52		
through grounds M30 and M66.		~
to power window main switch terminal 15 through a main switch terminal 15		G
through grounds M30 and M66.		
to power window sub-switch terminal 11 through grounds M30 and M66		Н
through grounds M30 and M66.		
MANUAL OPERATION	F	
Driver Side Door WINDOW UP		G۷
When the driver side window switch in the power window main switch is pressed in the up position,		
Power is supplied		
through power window main switch terminal 8		J
• to driver side power window motor terminal 2.		
Ground is supplied		Κ
 through driver side power window motor terminal 1 		
 to power window main switch terminal 11. 		
Then, the motor raises the window until the switch is released.		L
WINDOW DOWN When the driver side window switch in the power window main switch is pressed in the down position,		
Power is supplied		в. Л
 through power window main switch terminal 11 		M
 to driver side power window motor terminal 1. 		
Ground is supplied		
through side power window motor terminal 2.		
to power window main switch terminal 8		
Then, the motor lowers the window until the switch is released.		
Passenger Side Door		
POWER WINDOW SUB-SWITCH OPERATION WINDOW UP		
When the power window sub-switch is pressed in the up position,		
Power is supplied		
 through power window sub-switch terminal 8 		
 to passenger side power window motor terminal 2. 		
Ground is supplied		
 through passenger side power window motor terminal 1. 		

• to power window sub-switch terminal 9

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

WINDOW DOWN

When the power window sub-switch is pressed in the down position, Power is supplied

- through power window sub-switch terminal 9
- to passenger side power window motor terminal 1.

Ground is supplied

- through passenger side power window motor terminal 2.
- to power window sub-switch terminal 8

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

POWER WINDOW MAIN SWITCH OPERATION

Signal is sent

- though power window main switch terminal 12.
- to power window sub-switch terminal 16

The operation of passenger side power window with power window main switch is as same as the operation with power window sub-switch.

POWER WINDOW SERIAL LINK

Power window main switch, power window sub-switch and BCM transmit and receive the signal by power window serial link.

The under mentioned signal is transmitted from BCM to power window main switch.

- Driver side door switch signal
- Keyless power window down signal

The under mentioned signal is transmitted from BCM to power window sub-switch.

- Passenger side door switch signal
- Keyless power window down signal

The under mentioned signal is transmitted from power window main switch to power window sub-switch.

- Passenger side door window operation signal
- Power window control by key cylinder switch signal
- Retained power operation signal
- Power window lock signal

AUTO OPERATION

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

POWER WINDOW LOCK

The power window lock is designed to lock operation of passenger side door window.

When the lock position, power window lock signal is sent by using power window serial link from power window main switch to power window sub-switch.

When power window sub-switch is receiving the lock signal, prohibits the operation of passenger side power window by power window sub-switch.

RETAINED POWER OPERATION

When the ignition switch is turned to the OFF position from ON or START position.

- Power is supplied for 45 seconds
- through BCM terminal 53.
- to power window main switch terminal 10

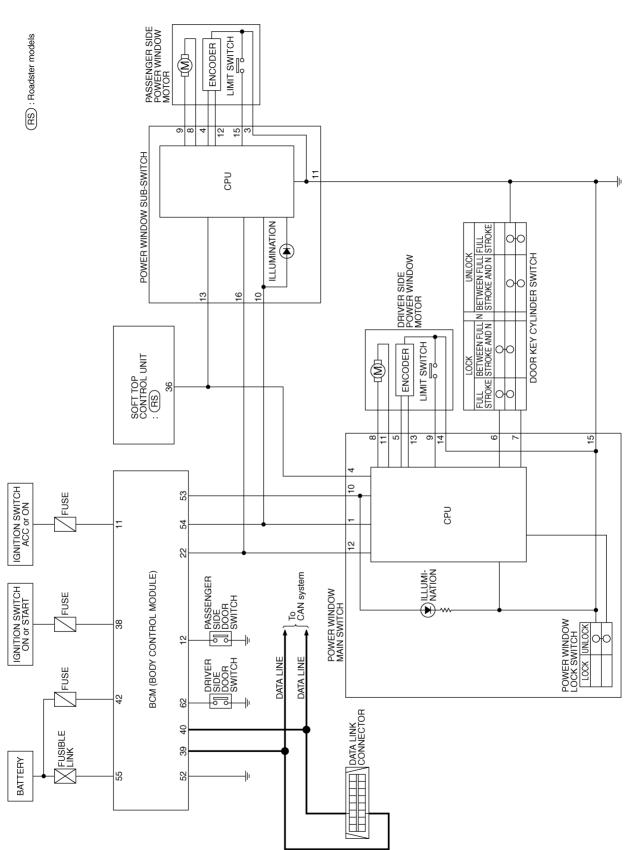
When power and ground are supplied, the BCM continues to be energized, and the power window can be operated.

The retained power operation is canceled when the driver side door or the passenger side door is opened. RAP signal period can be changed by CONSULT-III. Refer to <u>GW-29</u>, "<u>CONSULT-III Function (BCM)</u>".

ANTI-PINCH SYSTEM

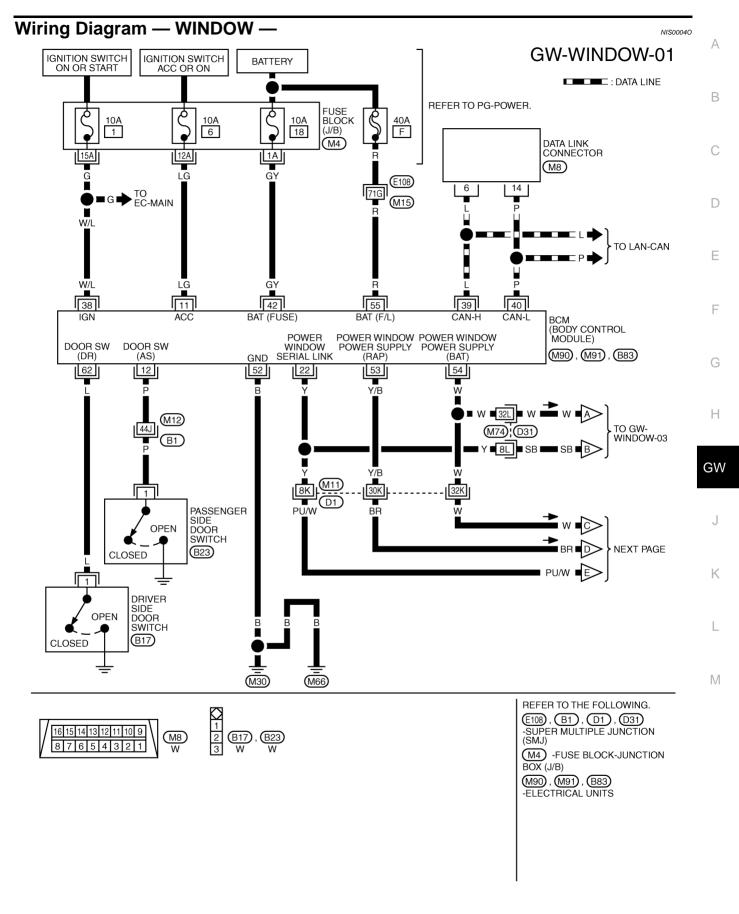
ANTI-PINCH SYSTEM	
Power window main switch and power window sub-switch monitors the power window motor operation and the power window position (full closed or other) for driver side and passenger side power window by the signals from encoder and limit switch in power window motor (driver side and passenger side). When power window main switch detects interruption during the following close operation,	
 automatic close operation when ignition switch is in the "ON" position 	
 automatic close operation during retained power operation 	
 manual close operation during retained power operation 	С
Power window main switch or power window sub-switch controls each power window motor for open and the	
power window will be lowered about 150 mm (5.91 in).	
POWER WINDOW CONTROL BY THE KEY CYLINDER SWITCH	D
When ignition key switch is OFF, power window can be opened or closed by turning the door key cylinder UNLOCK / LOCK position more then 1.5 second over condition.	
• Power window can be opened as the door key cylinder is kept fully turning to the UNLOCK position.	E
• Power window can be closed as the door key cylinder is kept fully turning to the LOCK position.	
 The power window operation by the key cylinder switch stops when the following operations are performed. While performing open / close the window with power window main switch. 	F
• When the ignition switch is turned ON while the power window control operation by the key cylinder	
switch.	G
AUTOMATIC WINDOW ADJUSTING FUNCTION	
When the driver's / passenger's door(s) is opened, the window of the opened door is lowered approx. 10 mm (0.39in).	Н
When the door is closed, the window is raised to fully-closed positions.	
Automatic window adjusting function system (opening operation) does not operate when the following.	
• The window is 10 mm (0.39 in) or more open from fully-closed positions.	GW
Automatic window adjusting function system (closing operation) does not operate when the following.	
The automatic window adjusting function system (opening operation) operation.	J
The keyless power window operation.	J
The power window control by the key cylinder switch operation.	
	K
	L

Schematic

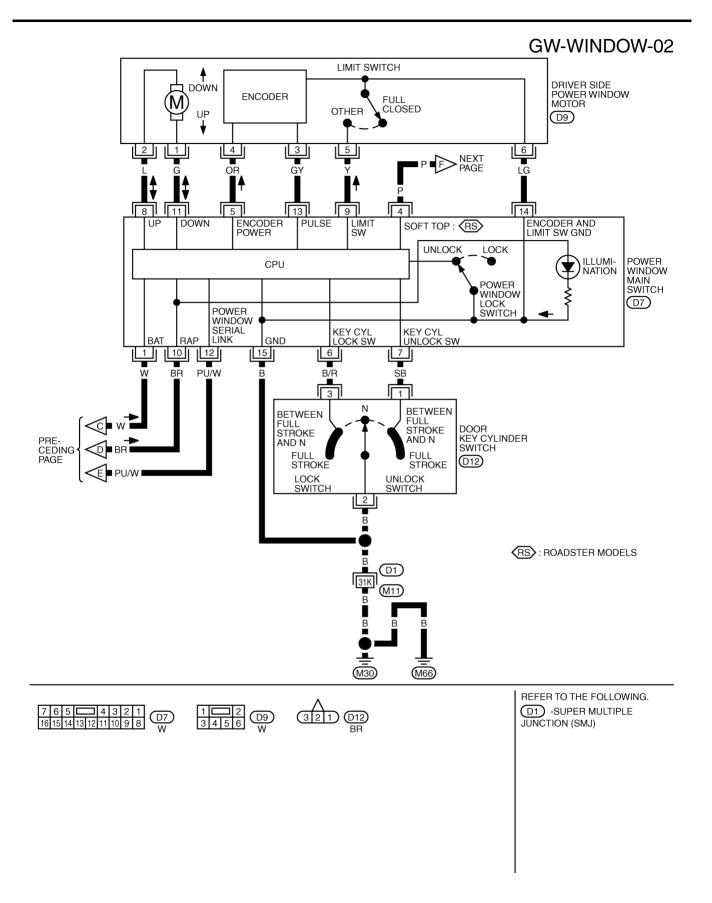


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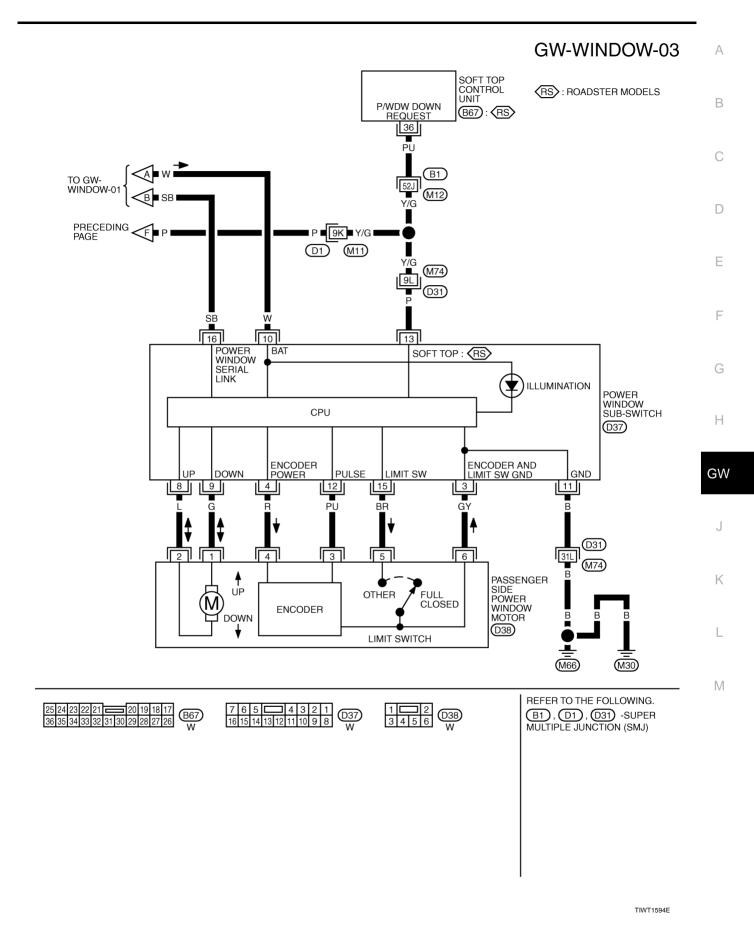
NIS0004N



TIWT2275E



TIWT1593E



Terminal and Reference Value for BCM

Ter- minal	Wire color	Item	Signal input/out- put	Condition	Voltage (V) (Approx.)
11	LG	Ignition switch ACC power sup- ply (ACC or ON)	Input	Ignition switch (ACC or ON position)	Battery voltage
12	Р	Passenger side door switch	loput	ON (open)	0
12	Р	Passenger side door switch	Input	OFF (closed)	Battery voltage
22	Y	Power window serial link	Input/Out- put	_	(V) 15 10 5 0 200 ms PIIA2344J
38	W/L	Ignition switch ON power supply (ON or START)	/ Input Ignition switch (ON or START position)		Battery voltage
39	L	CAN-H	Input/Out- put	_	—
40	Ρ	CAN-L	Input/Out- put	_	_
42	GY	Power source (Fuse)	Input	_	Battery voltage
52	В	Ground	_	—	0
				IGN SW ON	Battery voltage
53	Y/B	Rap signal	Output	Within 45 second after ignition switch is turned to OFF	Battery voltage
			When driver side or passenger side door is open in power win- dow timer operates	0	
54	W	Power window switch power supply	Output	_	Battery voltage
55	R	Power source (Fusible link)	Input	—	Battery voltage
62	L	Driver side door switch	Input	ON (open)	0
02	L		input	OFF (closed)	Battery voltage

NIS0004P

Terminal and Reference Value for Power Window Main Switch

Ter- ninal	Wire Color	ltem	Signal input/output	Condition	Voltage (V) (Approx.)
1	W	BAT power supply	Input	—	Battery voltage
4*	Р	Power window down request signal	Input	When soft top open/close function starts and window0down function is operating.	
				Other than above	5
5	OR	Encoder power supply	Input	_	10
6	B/R	Key cylinder lock switch	Output	Key position (Neutral \rightarrow Locked)	$5 \rightarrow 0$
7	SB	Key cylinder unlock switch	Output	Key position (Neutral \rightarrow Unlocked)	$5 \rightarrow 0$
8	L	Driver side power window motor UP signal	Output	When power window motor UP operation.	Battery voltage
9	Y	Limit switch signal	lagut	Driver side door window is between fully-open and just before fully-closed position (ON).	0
9	I	Limit switch signal	Input	Driver side door window is between just before fully- closed position and fully- closed position (OFF).	5
				IGN SW ON	Battery voltage
10	10 BR I	Rap signal	Output	Within 45 second after igni- tion switch is turned to OFF	Battery voltage
10	BIX		Output	When driver side or passenger side door is open in power window timer is operates	0
11	G	Driver side power window motor DOWN signal	Output	When power window motor DOWN operation.	Battery voltage
12	PU/W	Power window serial link	Input/Out- put	_	(V) 15 10 5 0 200 ms PIIA2344J
13	GY	Encoder pulse signal	Input/Out- put	When power window motor operates.	(V) 6 4 2 0
14	LG	Limit switch and encoder ground	_	_	0
15	В	Ground	_	_	0

*: For Roadster

Terminal and Reference Value for Power Window Sub-Switch

NIS0004R	

Ter- minal	Wire Color	ltem	Signal input/out- put	Condition	Voltage (V) (Approx)
3	GY	Limit switch and encoder ground	_	—	0
4	R	Encoder power supply	Input	—	10
8	L	Passenger side power window motor UP signal	Output	When power window motor UP operation.	Battery voltage
9	G	Passenger side power window motor DOWN sig- nal	Output	When power window motor DOWN operation.	Battery voltage
10	W	BAT power supply	Input	—	Battery voltage
11	В	Ground	_	—	0
12	PU	Encoder pulse signal	Input/Out- put	When power window motor operates.	(V) 6 4 2 0 • • • 10mS OCC3383D
13*	Р	Power window down request sig- nal	Input	When soft top open/close function starts and window down function is operating.	0
				Except the above	5
15			Input	Passenger side door win- dow is between fully-open and just before fully-closed position (ON).	0
15	BR	Limit switch signal	input	Passenger side door win- dow is between just before fully-closed position and fully-closed position (OFF).	5
16	SB	Power window serial link	Input/Out- put		(V) 15 10 5 0 200 ms PIIA2344J

*: For Roadster

BCM diagnostic test item	Check item diagnostic test mode	Content		
	Work support	Changes setting of each function.		
RETAINED PWR	Data monitor	Displays the input data of BCM in real time.		
	Active test	Gives a drive signal to a load to check the operation.		
WORK SUPPORT				
Work item		Description		
RETAINED PWR	Rap signal's power supply period betw	er supply period can be changed by mode setting. Selects rap signal's power veen three steps		
	 MODE 1 (45 set 	• MODE 1 (45 sec.) / MODE 2 (OFF) / MODE 3 (2 min.).		
DATE MONITOR				
Monitor item		Description		
IGN ON SW	Indicates [ON/OF	-] condition of ignition switch.		
DOOR SW-DR	Indicates [ON/OF	F] condition of driver side door switch.		
DOOR SW-AS	Indicates [ON/OF	-] condition of passenger side door switch.		
ACTIVE TEST				
Test item		Description		
	system and power "RETAINED PWR	supply RAP signal (power) from BCM (body control module) to power window sunroof system (if equipped). Those systems can be operated when turning on " on CONSULT-III screen even if the ignition switch is turned OFF.		
PWR" should be turn ignition swit		ONSULT-III can be operated with ignition switch in "OFF" position. "RETAINED urned "ON" or "OFF" on CONSULT-III screen when ignition switch is ON. Then o OFF to check retained power operation. CONSULT-III might be stuck if " is turned to "ON" or "OFF" on CONSULT-III screen when ignition switch is OFF		

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Work Flow

- 1. Check the symptom and customer's requests.
- 2. Understand the outline of system. Refer to <u>GW-19, "System Description"</u>.
- 3. According to the trouble diagnosis chart, repair or replace the cause of the malfunction. Refer to <u>GW-30</u>, <u>"Trouble Diagnoses Symptom Chart"</u>.
- 4. Does power window system operate normally? If Yes, GO TO 5, If No, GO TO 3.
- 5. INSPECTION END

Revision: 2006 November

Trouble Diagnoses Symptom Chart

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

Symptom	Diagnoses / service procedure	Reference page
	1. Check BCM power supply and ground circuit	<u>GW-32</u>
None of the power windows can be operated using any switch.	2. Check power window main switch power supply and ground circuit	<u>GW-46</u>
Switch.	3. Check power window serial link	<u>GW-44</u>
	4. Replace BCM.	BCS-17
Driver side newer window connet be energied	1.Check driver side power window motor circuit	<u>GW-33</u>
Driver side power window cannot be operated	2. Replace the power window main switch.	<u>GW-46</u>
	1. Check power window sub-switch power supply and ground circuit	<u>GW-47</u>
Passenger side power window cannot be operated.	2. Check power window serial link	<u>GW-44</u>
	3. Check passenger side power window motor circuit	<u>GW-33</u>
	4. Replace BCM.	BCS-17
	1. Door window sliding part malfunction	
	 A foreign material adheres to window glass or grass run rubber. 	_
Anti-pinch system does not operate normally (driver	Glass run rubber wear or deformation.	
side).	 Sash is tilted too much, or not enough. 	
	2. Limit switch adjusting	<u>GW-52</u>
	3. Check limit switch circuit (driver side)	<u>GW-34</u>
	4. Check encoder circuit (driver side)	<u>GW-37</u>
	1. Door window sliding part malfunction	
	 A foreign material adheres to window glass or grass run rubber. 	_
Anti-pinch system does not operate normally (passenger	 Glass run rubber wear or deformation. 	
side).	 Sash is tilted too much, or not enough. 	
	2. Limit switch adjusting	<u>GW-52</u>
	3. Check limit switch circuit (passenger side)	<u>GW-36</u>
	4. Check encoder circuit (passenger side)	<u>GW-39</u>
	1. Check the retained power operation mode setting.	<u>GW-29</u>
Power window retained power operation does not oper- ate properly.	2. Check door switch	<u>GW-42</u>
	3. Replace BCM.	BCS-17

NIS0004U

Symptom	Diagnoses / service procedure	Reference page	
	1. Check door switch	<u>GW-42</u>	
	2. Limit switch adjusting	<u>GW-52</u>	
Automatic window adjusting function doop not opprate	3. Check limit switch circuit (driver side)	<u>GW-34</u>	1
Automatic window adjusting function does not operate.	4. Check limit switch circuit (passenger side)	<u>GW-36</u>	
	5. Check power window serial link	<u>GW-44</u>	(
	6. Replace BCM.	BCS-17	
Deep not exercise by the loss suited as suited	1. Check door key cylinder switch	<u>GW-48</u>	
Does not operate by the key cylinder switch.	2. Replace the power window main switch.	<u>EI-33</u>	
Device window look switch does not function	1. Check power window serial link	<u>GW-44</u>	
Power window lock switch does not function.	2. Replace the power window main switch.	<u>EI-33</u>	
Auto operation does not operate but manual operate	1. Check encoder circuit (driver side)	<u>GW-37</u>	
normally (driver side)	2. Replace power window main switch	<u>EI-33</u>	
Auto operation does not operate but manual operate	1. Check encoder circuit (passenger side)	<u>GW-39</u>	
normally (passenger side)	2. Replace power window sub-switch	<u>EI-33</u>	

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Check BCM Power Supply and Ground Circuit

1. CHECK FUSE

- Check 10A fuse [No.1, located in fuse block (J/B)]
- Check 10A fuse [No.18, located in fuse block (J/B)]
- Check 40A fusible link (letter F, located in the fuse and fusible link box). NOTE:

Refer to GW-18, "Component Parts and Harness Connector Location" .

OK or NG

- OK >> GO TO 2.
- NG >> If fuse is blown out, be sure to eliminate cause of malfunction before installing new fuse. Refer to PG-4, "POWER SUPPLY ROUTING CIRCUIT" .

2. CHECK POWER SUPPLY CIRCUIT

- Turn ignition switch ON. 1.
- 2. Check voltage between BCM connector M90, M91 terminal 38, 42, 55 and ground.
 - 38 (W/L) Ground : Battery voltage 42 (GY) – Ground : Battery voltage 55 (R) - Ground
 - : Battery voltage

OK or NG

- OK >> GO TO 3.
- NG >> Check BCM power supply circuit for open or short.

3. CHECK GROUND CIRCUIT

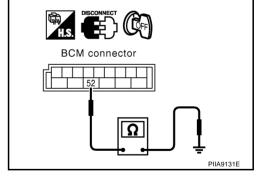
- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector.
- 3. Check continuity between BCM connector M91 terminal 52 and ground.

52 (B) – Ground

:Continuity should exist.

OK or NG

- OK >> Power supply and ground circuit are OK.
- NG >> Check BCM ground circuit for open or short.



BCM connector

38, 42, 55

42

NIS0004V

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Check Drive Side Power Window Motor Circuit 1. CHECK POWER WINDOW MAIN SWITCH OUTPUT SIGNAL

1. Turn ignition switch ON.

 Power window main switch operate, check voltage between driver side power window motor connector ^B and ground.

a , ,	Terminals (Wire colo		Condition of	Voltage (V)	
Connector	(+)	(-)	power window main switch	(Approx.)	
	1 (G)		UP	0	
D9	1(0)	Ground	DOWN	Battery voltage	
D9	2 (L)		UP	Battery voltage	
			DOWN	0	

OK or NG

OK >> Replace driver side power window motor. NG >> GO TO 2.

2. CHECK POWER WINDOW MAIN SWITCH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect power window main switch and driver side power window motor connector.
- 3. Check continuity between power window main switch connector D7 terminals 8, 11 and driver side power window motor connector D9 terminals 1, 2.
 - 8 (L) 2 (L)
 - 11 (G) 1 (G)

: Continuity should exist. : Continuity should exist.

OK or NG

- OK >> Further inspection is necessary. Refer to symptom chart.
- NG >> Repair or replace harness.

Check Passenger Side Power Window Motor Circuit

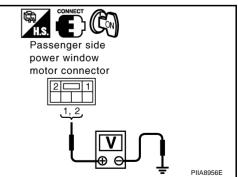
- 1. CHECK POWER WINDOW SUB-SWITCH OUTPUT SIGNAL
- 1. Turn ignition switch ON.
- 2. Power window sub-switch operate, check voltage between passenger side power window motor connector and ground.

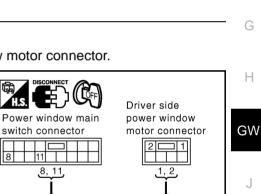
0 1	Terminals	(Wire color)	Condition of	Voltage (V)	
Connector	(+)	(-)	power window sub-switch	(Approx.)	
	1 (G)		UP	0	
D38	1(0)	Ground	DOWN	Battery voltage	
D36	0(1)	Giouna	UP	Battery voltage	
	2 (L)		DOWN	0	

OK or NG

OK >> Replace passenger side power window motor.

NG >> GO TO 2.





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Driver side power window

1, 2

motor connector

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$\overline{2.}$ CHECK PASSENGER SIDE POWER WINDOW MOTOR CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect power window sub-switch and passenger side power window motor connector.
- 3. Check continuity between power window sub-switch connector D37 terminals 8, 9 and passenger side power window motor connector D38 terminals 1, 2.
 - 9 (G) 1 (G) : Continuity should exist.
 - 8 (L) 2 (L) : Continuity should exist.

OK or NG

- OK >> Further inspection is necessary. Refer to symptom chart.
- NG >> Repair or replace harness.

Check Limit Switch Circuit (Driver Side) 1. CHECK DRIVER DOOR LIMIT SWITCH SIGNAL

- 1. Turn ignition switch ON.
- 2. Check voltage between driver side power window motor connector and ground.

Connector	Terminals (Wire color)	Condition	Voltage (V)	FIS. CONNECT
Connector	(+)	(-)	Condition	(Approx.)	Driver side
D9	5 (X)	Ground	Driver side door window is between fully-open and just before fully-closed position (ON)	0	power window motor connector
03	5 (Y)	Ground	Driver side door window is between just before fully- closed position and fully- closed position (OFF)	5	

OK or NG

OK >> Limit switch circuit is OK.

NG >> GO TO 2.

2. CHECK LIMIT SWITCH GROUND CIRCUIT

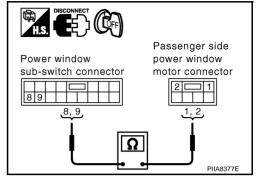
- 1. Turn ignition switch OFF.
- 2. Disconnect driver side power window motor connector.
- 3. Check continuity between driver side power window motor connector D9 terminal 6 and ground.

6 (LG) – Ground

: Continuity should exist.

OK or NG

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



Driver side power window

6

motor connector

NIS0004Y

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3. CHECK HARNESS CONTINUITY

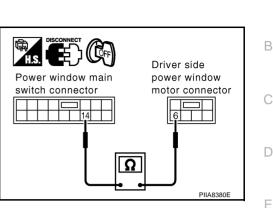
- 1. Disconnect power window main switch connector.
- Check continuity between power window main switch connector D7 terminal 14 and driver side power window motor connector D9 terminal 6.

14 (LG) – 6 (LG)

: Continuity should exist.

OK or NG

- OK >> Replace power window main switch.
- NG >> Repair or replace harness.



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4. CHECK HARNESS CONTINUITY

- 1. Disconnect power window main switch connector.
- Check continuity between power window main switch connector D7 terminal 9 and driver side power window motor connector D9 terminal 5.

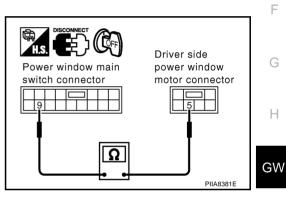
9 (Y) – 5 (Y)

: Continuity should exist.

OK or NG

OK >> GO TO 5.

NG >> Repair or replace harness.



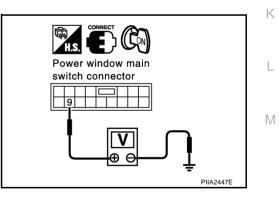
5. CHECK POWER WINDOW MAIN SWITCH OUTPUT SIGNAL

- 1. Connect power window main switch connector.
- 2. Turn ignition switch ON.
- 3. Check voltage between power window main switch connector D7 terminal 9 and ground.

9 (Y) – Ground : Approx. 5V

OK or NG

- OK >> Further inspection is necessary. Refer to symptom chart.
- NG >> Replace power window main switch.

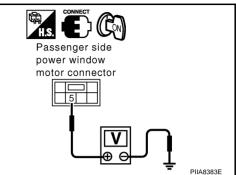


Check Limit Switch Circuit (Passenger Side)

1. CHECK POWER WINDOW LIMIT SWITCH SIGNAL

- 1. Turn ignition switch ON.
- 2. Check voltage between passenger side power window motor connector and ground.

Connector	Terminals (Wire color)		Condition	Voltage (V)
	(+) (-)		Condition	(Approx.)
500	5 (BR)	Ground	Passenger side door win- dow is between fully-open and just before fully-closed position (ON)	0
D38	5 (BR)	Ground	Passenger side door win- dow is between just before fully-closed position and fully-closed position (OFF)	5



OK or NG

OK >> Limit switch circuit is OK.

NG >> GO TO 2.

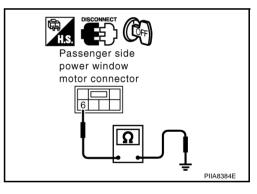
2. CHECK LIMIT SWITCH GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect passenger side power window motor connector.
- 3. Check continuity between passenger side power window motor connector D38 terminal 6 and ground.
 - 6 (GY) Ground

: Continuity should exist.

OK or NG

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



3. CHECK HARNESS CONTINUITY

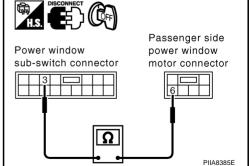
- 1. Disconnect power window sub-switch connector.
- Check continuity between power window sub-switch connector D37 terminal 3 and passenger side power window motor connector D38 terminal 6.

3 (GY) – 6 (GY)

: Continuity should exist.

OK or NG

- OK >> Replace power window sub-switch.
- NG >> Repair or replace harness.



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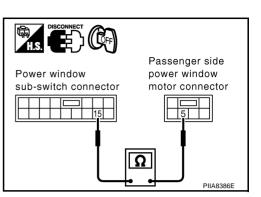
4. CHECK HARNESS CONTINUITY

- 1. Disconnect power window sub-switch connector.
- Check continuity between power window sub-switch connector D37 terminal 15 and passenger side power window motor connector D38 terminal 5.
 - 15 (BR) 5 (BR)

: Continuity should exist.

OK or NG

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



Power window sub-switch connector

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5. CHECK POWER WINDOW SUB-SWITCH OUTPUT SIGNAL

- 1. Connect power window sub-switch connector.
- 2. Turn ignition switch ON.
- 3. Check voltage between power window sub-switch connector D37 terminal 15 and ground.

: Approx. 5V

15 (BR) – Ground

OK or NG

- OK >> Further inspection is necessary. Refer to symptom chart.
- NG >> Replace power window sub-switch.



1. CHECK DRIVER SIDE POWER WINDOW MOTOR POWER SUPPLY

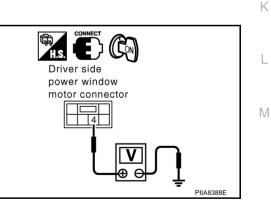
: Approx. 10V

- 1. Turn ignition switch ON.
- 2. Check voltage between driver side power window motor connector D9 terminal 4 and ground.

4 (OR) – Ground

OK or NG

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



2. CHECK HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect power window main switch and driver side power window motor connector.
- Check continuity between power window main switch connector D7 terminal 5 and driver side power window motor connector D9 terminal 4.

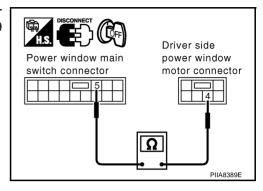
5 (OR) – 4 (OR)

: Continuity should exist.

: Continuity should exist.

OK or NG

- OK >> Replace power window main switch.
- NG >> Repair or replace harness.



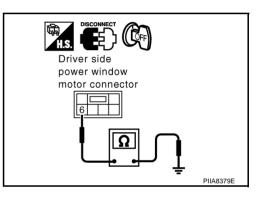
3. CHECK ENCODER GROUND

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

6 (LG) – Ground

OK or NG

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



4. CHECK ENCODER GROUND CIRCUIT

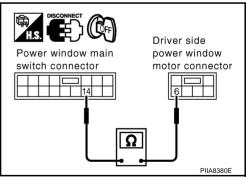
- 1. Disconnect power window main switch connector.
- Check continuity between power window main switch connector D7 terminal 14 and driver side power window motor connector D9 terminal 6.

14 (LG) – 6 (LG)

: Continuity should exist.

OK or NG

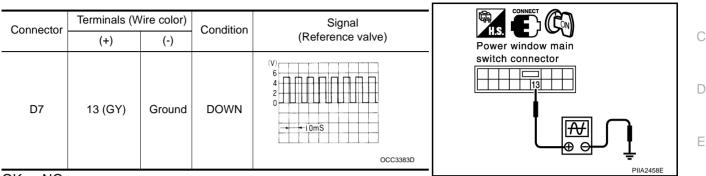
- OK >> Replace power window main switch.
- NG >> Repair or replace harness.



POWER WINDOW SYSTEM

5. CHECK ENCODER SIGNAL

- 1. Connect driver side power window motor connector.
- 2. Turn ignition switch ON.
- 3. Check signal between power window main switch connector and ground with oscilloscope.



OK or NG

OK >> Replace power window main switch.

NG >> GO TO 6.

6. CHECK ENCODER CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect power window main switch and driver side power window motor connector.
- Check continuity between power window main switch connector D7 terminal 13 and driver side power window motor connector D9 terminal 3.

13 (GY) – 3 (GY)

: Continuity should exist.

OK or NG

- OK >> Replace driver side power window motor.
- NG >> Repair or replace harness.



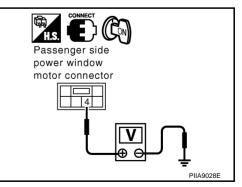
1. CHECK PASSENGER SIDE POWER WINDOW MOTOR POWER SUPPLY

- 1. Turn ignition switch ON.
- 2. Check voltage between passenger side power window motor connector D38 terminal 4 and ground.

4 (R) – Ground : Approx. 10V

OK or NG

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



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Driver side

power window

motor connector

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Power window main

switch connector

$\overline{2}$. CHECK HARNESS CONTINUITY

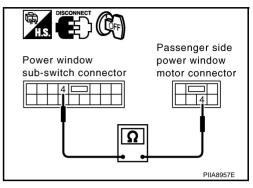
- 1. Turn ignition switch OFF.
- 2. Disconnect power window sub-switch and passenger side power window motor connector.
- Check continuity between power window sub-switch connector D37 terminal 4 and passenger side power window motor connector D38 terminal 4.

4 (R) – 4 (R)

: Continuity should exist.

OK or NG

- OK >> Replace power window sub-switch.
- NG >> Repair or replace harness.



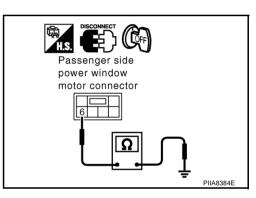
3. CHECK ENCODER GROUND

- 1. Turn ignition switch OFF.
- 2. Disconnect passenger side power window motor connector.
- 3. Check continuity between passenger side power window motor connector D38 terminal 6 and ground.

6 (GY) – Ground

OK or NG

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



4. CHECK ENCODER GROUND CIRCUIT

- 1. Disconnect power window sub-switch connector.
- Check continuity between power window sub-switch connector D37 terminal 3 and passenger side power window motor connector D38 terminal 6.

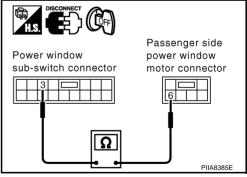
3 (GY) – 6 (GY)

: Continuity should exist.

: Continuity should exist.

OK or NG

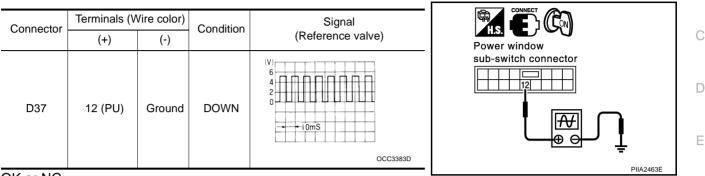
- OK >> Replace power window sub switch.
- NG >> Repair or replace harness.



POWER WINDOW SYSTEM

5. CHECK ENCODER SIGNAL

- 1. Connect passenger side power window motor connector.
- 2. Turn ignition ON.
- 3. Check signal between power window sub-switch connector and ground with oscilloscope.



OK or NG

OK >> Replace power window sub-switch.

NG >> GO TO 6.

6. CHECK ENCODER CIRCUIT

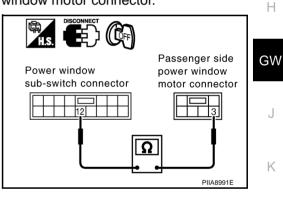
- 1. Turn ignition switch OFF.
- 2. Disconnect power window sub-switch and passenger side power window motor connector.
- 3. Check continuity between power window sub-switch connector D37 terminal 12 and passenger side power window motor connector D38 terminal 3.

12 (PU) – 3 (PU)

: Continuity should exist.

OK or NG

- OK >> Replace passenger side power window motor.
- NG >> Repair or replace harness.



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Check Door Switch

1. CHECK DOOR SWITCH INPUT SIGNAL

With CONSULT-III

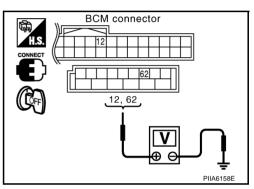
Check door switches ("DOOR SW-DR" and "DOOR SW-AS") in "DATA MONITOR" mode with CONSULT-III.

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

® Without CONSULT-III

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

Item	Connector	Terminals (Wire color)		Condition	Voltage (V) (Approx.)
		(+)	(—)		(Applox.)
Passenger side	MAG	0 12 (P)	Ground	OPEN	0
door switch				CLOSE	Battery voltage
Driver side door	B83		Giouna	OPEN	0
switch	DOD	62 (L)		CLOSE	Battery voltage



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OK or NG

OK >> Door switch is OK.

NG >> GO TO 2.

2. CHECK DOOR SWITCH CIRCUIT

- Turn ignition switch OFF. 1.
- 2. Disconnect door switch and BCM connector.
- 3. Check continuity between BCM connector M90, B83 terminals 12, 62 and door switch connector B17, B23 terminals 1.
 - 12(P) 1(P)62(L) - 1(L)

: Continuity should exist.

- 4. Check continuity between BCM connector M90, B83 terminals 12, 62 and ground.
 - 12 (P) Ground

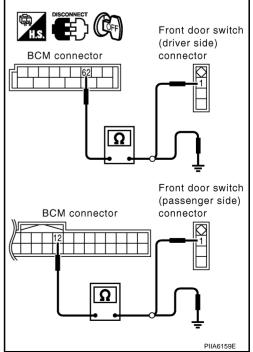
: Continuity should not exist.

62 (L) - Ground

: Continuity should not exist.

OK or NG

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



: Continuity should exist.

3. CHECK DOOR SWITCH

Check continuity between door switch (driver side) or (passenger side) and ground part of door switch.

Terminal		Condition of door switch	Continuity
1	Ground part of door switch	Pushed	No
I		Released	Yes

OK or NG

OK >> GO TO 4.

NG >> Replace malfunction door switch.

) and ground part of door switch.	
	E
Door switch	
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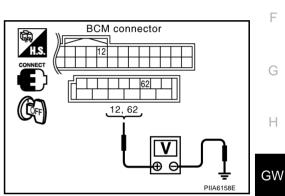
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4. CHECK BCM OUTPUT SIGNAL

- 1. Connect BCM connector.
- 2. Check voltage between BCM connector M90, B83 terminals 12, 62 and ground.
 - 12 (P) Ground
- : Battery voltage
- 62 (L) Ground
- : Battery voltage

OK or NG

- OK >> Check the condition of the harness and the connector.
- NG >> Replace BCM.



Check Power Window Serial Link

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1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

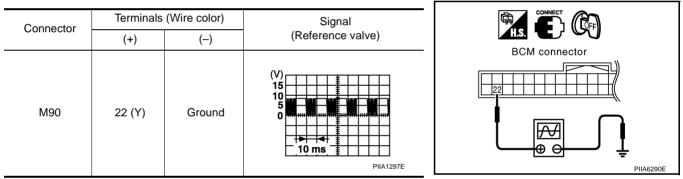
With CONSULT-III

Check door lock and unlock switch ("LOCK SW DR/AS", "UNLK SW DR/AS") in DATA MONITOR mode with CONSULT-III. Refer to <u>BL-35</u>, "DATA MONITOR".

Monitor item	Condition
CDL LOCK SW	LOCK: ON
CDE LOCK SW	UNLOCK: OFF
CDL UNLOCK SW	LOCK: OFF
CDE UNLOCK SW	UNLOCK: ON

Without CONSULT-III

- 1. Remove key from ignition switch, and the door of driver side and passenger side is closed.
- 2. Check signal between BCM connector and ground with oscilloscope when door lock and unlock switch (driver side and passenger side) is turned "LOCK" or "UNLOCK".
- 3. Make sure signals which are shown in the figure below can be detected during 10 second just after door lock and unlock switch (driver side and passenger side) is turned "LOCK" or "UNLOCK".



OK or NG

OK >> GO TO 2.

NG >> GO TO 3.

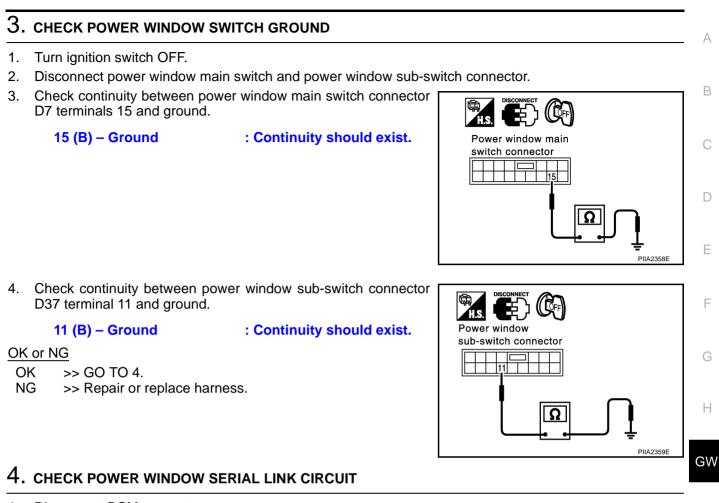
2. CHECK BCM OUTPUT SIGNAL

Check power window serial link ("POWER WINDOW DOWN") in "ACTIVE TEST" mode with CONSULT-III. Refer to <u>BL-74, "Active Test"</u>.

When "ACTIVE TEST" is perform, is the window of driver side and passenger side lowered? OK or NG

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

NG >> Replace BCM.



- 1. Disconnect BCM connector.
- 2. Check continuity between BCM connector M90 terminal 22 and power window main switch connector D7 terminal 12.
 - 22 (Y) 12 (PU/W)

: Continuity should exist.

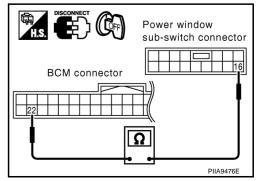
- BCM connector BCM connector L L PIIA9475E
- 3. Check continuity between BCM connector M90 terminal 22 and power window sub-switch connector D37 terminal 16.

22 (Y) – 16 (SB)

: Continuity should exist.

OK or NG

- OK >> Replace power window main switch.
- NG >> Repair or replace harness.



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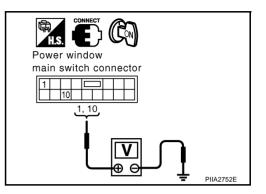
Check Power Window Main Switch Power Supply and Ground Circuit

1. CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch ON.
- 2. Check voltage between power window main switch connector D7 terminals 1, 10 and ground.
 - 1 (W) Ground
- : Battery voltage : Battery voltage
- 10 (BR) Ground

OK or NG

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



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2. CHECK GROUND CIRCUIT

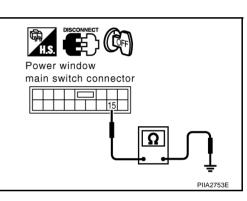
- 1. Turn ignition switch OFF.
- 2. Disconnect power window main switch connector.
- 3. Check continuity between power window main switch connector D7 terminal 15 and ground.

15 (B) - Ground

: Continuity should exist.

OK or NG

- OK >> Power window main switch power supply and ground circuits are OK.
- NG >> Repair or replace harness.



3. CHECK POWER WINDOW MAIN SWITCH POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM and power window main switch connector.
- 3. Check continuity between BCM connector M91 terminals 53, 54 and power window main switch connector D7 terminal 1, 10.

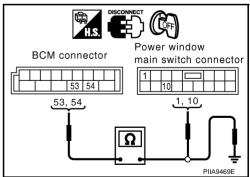
53 (Y/B) – 10 (BR)	: Continuity should exist.
54 (W) – 1 (W)	: Continuity should exist.

4. Check continuity between BCM connector M91 terminals 53, 54 and ground.

- : Continuity should not exist. : Continuity should not exist.
- 54 (W) Ground

OK or NG

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



POWER WINDOW SYSTEM

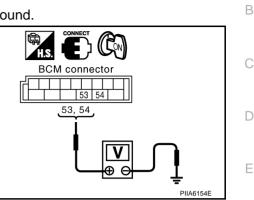
4. CHECK BCM OUTPUT SIGNAL

- 1. Connect BCM connector.
- 2. Turn ignition switch ON.
- 3. Check voltage between BCM connector M91 terminals 53, 54 and ground.
 - 53 (Y/B) Ground
 - 54 (W) Ground
- : Battery voltage

: Battery voltage

OK or NG

- OK >> Check condition of harness and connector.
- NG >> Replace BCM.



Check Power Window Sub-switch Power Supply and Ground 1. CHECK POWER SUPPLY CIRCUIT

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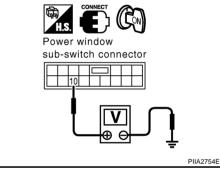
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- Turn ignition switch ON. 1.
- Check voltage between power window sub-switch connector 2. D37 terminal 10 and ground.
 - 10 (W) Ground

: Battery voltage

OK or NG

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



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2. CHECK GROUND CIRCUIT

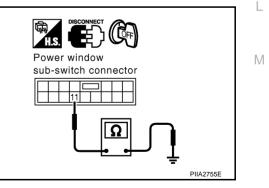
- 1. Turn ignition switch OFF.
- 2. Disconnect power window sub-switch connector.
- 3. Check continuity between power window sub-switch connector D37 terminal 11 and ground.

11 (B) - Ground

: Continuity should exist.

OK or NG

- OK >> Power window sub-switch power supply and ground circuit are OK.
- NG >> Repair or replace harness.



3. CHECK POWER WINDOW SUB-SWITCH POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM and power window sub-switch connector.
- 3. Check continuity between BCM connector M91 terminal 54 and power window sub-switch connector D37 terminal 10.

54 (W) – 10 (W) : Continuity should exist.

4. Check continuity between BCM connector M91 terminal 54 and ground.

54 (W) – Ground : Continuity should not exist.

OK or NG

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

Check Door Key Cylinder Switch

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

(B) With CONSULT-III

Check door key cylinder switch ("KEY CYL LK-SW", "KEY CYL UN-SW") in "DATA MONITOR" mode with CONSULT-III.

Monitor item	Condition
KEY CYL LK- SW	Lock: ON
	Neutral/Unlock: OFF
KEY CYL UN- SW	Unlock: ON
REFUTEON-SW	Neutral/Lock: OFF

Without CONSULT-III

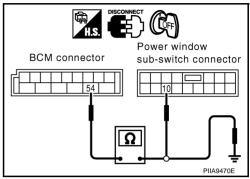
- 1. Turn ignition switch OFF.
- 2. Check voltage between power window main switch connector and ground.

Connector	Terminals (Wire color)	Key position	Voltage (V)
Connector	(+)	(–)	Rey position	(Approx.)
		6 (B/R) Ground	Neutral/Unlock	5
D7			Lock	0
Dī			Neutral/Lock	5
7 (SB)		Unlock	0	

Power window main switch connector

OK or NG

- OK >> Door key cylinder switch is OK.
- NG >> GO TO 2.



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$\overline{2}$. CHECK DOOR KEY CYLINDER SWITCH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect power window main switch and door key cylinder switch connector.
- 3. Check continuity between power window main switch connector D7 terminal 6, 7 and door key cylinder switch connector D12 terminals 1, 3.
 - 6 (B/R) 3 (B/R)
 - 7(SB) 1(SB)

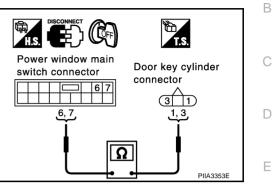
: Continuity should exist.

: Continuity should exist.

OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.



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3. CHECK DOOR KEY CYLINDER SWITCH GROUND

Check continuity between door key cylinder switch connector D12 terminal 2 and ground.

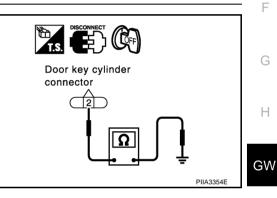
2 (B) - Ground

: Continuity should exist.

OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness.



4. CHECK DOOR KEY CYLINDER SWITCH

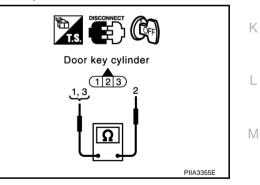
Check continuity between door key cylinder switch connector D12 terminals 1, 3 and 2.

Connector	Terminal		Key position	Continuity	
D12	1		Neutral/Lock	No	
	I	2	Unlock	No Yes No	
	3	2	Neutral/Unlock	No	
	3		Lock	No Yes	

OK or NG

>> GO TO 5. OK

NG >> Replace door key cylinder switch.



5. CHECK POWER WINDOW MAIN SWITCH OUTPUT SIGNAL

- 1. Connect power window main switch connector.
- 2. Check voltage between power window main switch connector D7 terminals 6, 7 and ground.

6 (B/R) – Ground

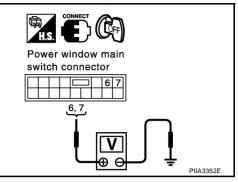
7 (SB) – Ground

: Battery voltage

: Battery voltage

OK or NG

- OK >> Check the condition of the harness and the connector.
- NG >> Replace power window main switch.



FRONT DOOR GLASS AND REGULATOR

FRONT DOOR GLASS AND REGULATOR



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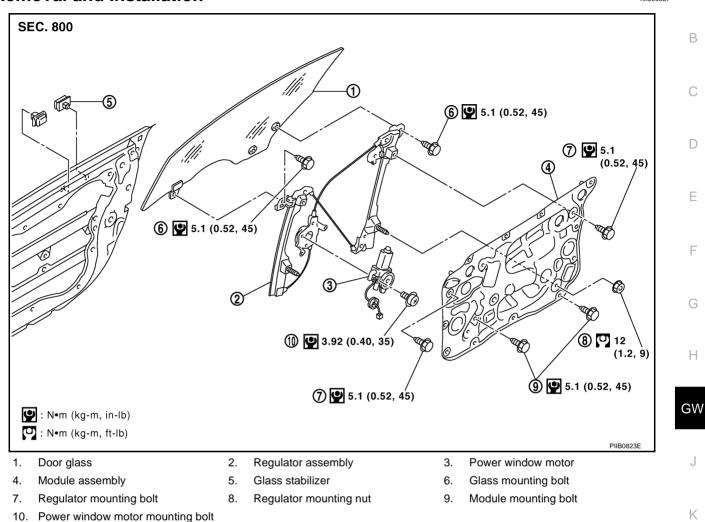
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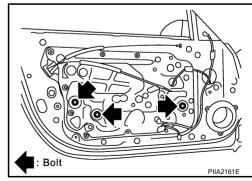
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Removal and Installation



DOOR GLASS Removal

- 1. Remove front door finisher. Refer to EI-33, "DOOR FINISHER".
- 2. Operate power window main switch to raise/lower door window until glass mounting bolts can be seen.
- 3. Remove the glass mounting bolts.



4. While holding door window, raise it at rear end to pull the glass out of sash toward outside of door.

Installation

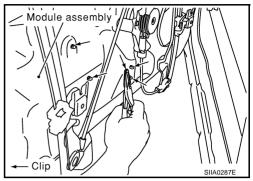
Install in the reverse order of removal.

FRONT DOOR GLASS AND REGULATOR

REGULATOR ASSEMBLY

Removal

- 1. Remove front door finisher. Refer to <u>GW-51, "DOOR GLASS"</u>.
- 2. Remove mounting bolts, and remove module assembly.
- 3. Disconnect harness connector for the module assembly, and unclip the harness from the back.



Installation

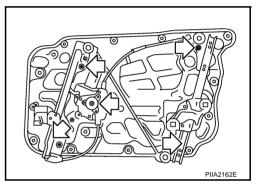
Install in the reverse order of removal.

Inspection after Removal

Check 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

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

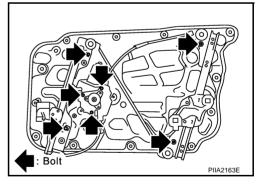


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Disassembly and Assembly REGULATOR ASSEMBLY

Disassembly

Remove power window motor and guide rail from module assembly.



Assembly

Assemble in the reverse order of removal.

Inspection 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 regulator.
- Removal and installation of motor from regulator.
- Operate the regulators as a unit.
- Removal and installation of the glass.

Resetting

After installing each component to the vehicle, follow the steps below.

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GW-52

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FRONT DOOR GLASS AND REGULATOR

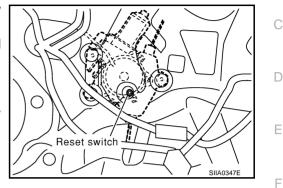
- 1. With the door open, lift up and hold the power window switch until the door glass is fully closed.
- 2. Get inside the vehicle and close the door.
- NOTE:

You need to close the door so the door switch is fully depressed.

- 3. Press and hold the reset switch. While holding the reset switch, press down and hold the power window ^B switch until the door glass is fully opened.
- 4. Relese the reset switch. Then, lift up and hold the power window switch until the door glass is fully closed.
- 5. Open the door to release the door switch. The door glass should partially move down.

CAUTION:

- Do not use the window auto function.
- Do not release the switch before the window is fully stopped.



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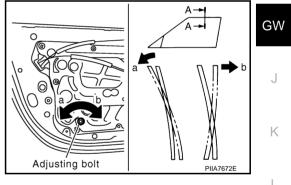
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FITTING INSPECTION

- Check that glass is securely fit into glass run groove.
- Lower glass slightly [approx. 10 to 20 mm (0.39 to 0.79 in)] and check the distance between the edge of
 glass and the body side welt. If the distance is not constant, adjust the glass position by loosening and
 tightening following bolts.
- Regulator mounting bolt and nut
- Glass and guide rail mounting bolt
- Raise the glass fully and adjust the glass top end and body side welt fitting with the adjusting bolt at the lower of the regulator rear rail.

NOTE:

- Turn the adjusting bolt clockwise to move the door glass upper end outward.
- Turn the adjusting bolt counterclockwise to move the door glass upper end inward.
- If water leaks, repair the fitting (Roadster only). Refer to <u>RF-116, "Repairing Method for Water Leakage Around Doors"</u>.

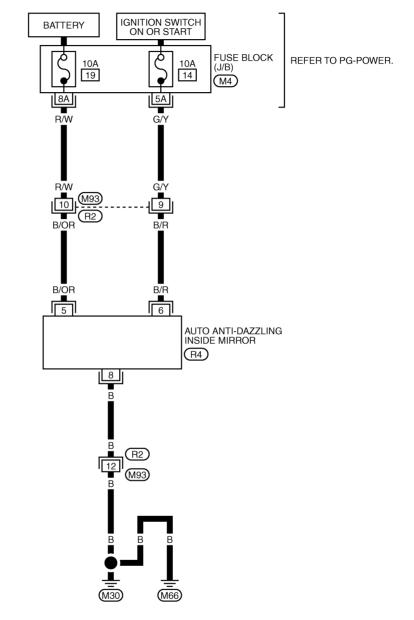


INSIDE MIRROR Wiring Diagram –I/MIRR–

PFP:96321





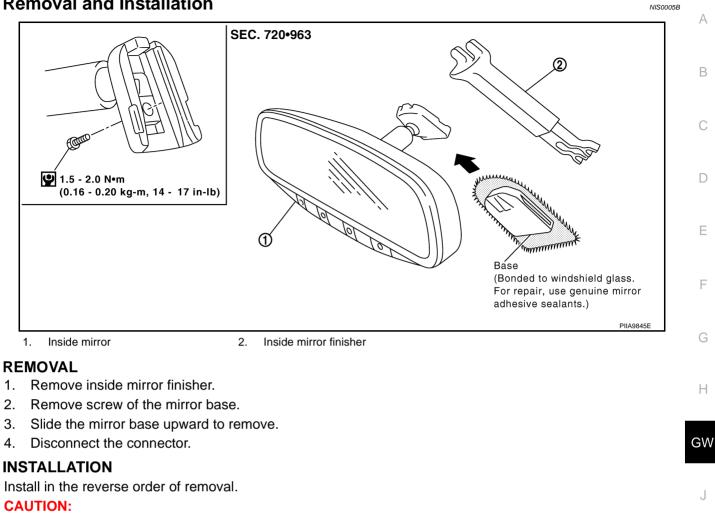




REFER TO THE FOLLOWING. (M4) -FUSE BLOCK-JUNCTION BOX (J/B)

INSIDE MIRROR

Removal and Installation



Apply Genuine Mirror Adhesive or equivalent to bonding surface of mounting bracket. Refer to GI-45. "RECOMMENDED CHEMICAL PRODUCTS AND SEALANTS" .

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REAR WINDOW DEFOGGER PFP:25350 **Component Parts and Harness Connector Location** Battery 40A F 10A 10 22 71 9 21 ____ [72] [81] 10A 8 20 73 82 .10A 74 83 **1**9 20A 75 84 104 7 18 76 85 10A **6** 17 86 5 16 77 87 15A 4 [15] 78 88 3 14 79 89 204 2 13 104 Fuse and fusible Fuse block (J/B) fuse layout IPDM E/R fuse layout link box View with console finisher removed View with dash side LH removed View with cowl top removed IPDM E/R UÐI A CONTRACTOR Fuse block (J/B) A/C controller (E8) E9 E4) 0000 connector (M206) M4) (M5) 1 ann m (E101) (E102) BCM (Body Control Module) M90 (M91 Unified meter and A/C amp. Fuse and fusible link box (M49) (M50) Batterv With auto A/C JU 0 O000000 (ð) 6 0 Réar window defogger Rear window defogger connector Rear window defogger switch connector (B202) (B203) : Roadster (built in A/C controller) (M206) (D104) (D211) : Coupe PIIB3830E

System Description

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The rear window defogger system is controlled by BCM (Body Control Module) and IPDM E/R (Intelligent Power Distribution Module Engine Room). The rear window defogger operates only for approximately 15 minutes.

Power is supplied at all times

- through 20A fuse [No. 75 and 80, located in the IPDM E/R]
- to rear window defogger relay terminal 3 and 6.
- through 40A fusible link (letter F, located in the fuse and fusible link box)
- to BCM terminal 55.
- through 10A fuse [No. 18, located in the fuse block (J/B)]
- to BCM terminal 42.
- through 10A fuse [No. 19, located in the fuse block (J/B)]
- to unified meter and A/C amp. terminal 21.

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

- through 10A fuse [No. 1, located in the fuse block (J/B)]
- to BCM terminal 38.
- through 10A fuse [No. 12, located in the fuse block (J/B)]
- to unified meter and A/C amp. terminal 22 and rear window defogger relay terminal 1
- and then through unified meter and A/C amp.
- to A/C controller (rear window defogger switch) terminal 72 and 84.

GW-56

Gro	ound is supplied	
•	to BCM terminal 52	А
•	through body grounds M30, and M66.	
•	to unified meter and A/C amp. terminal 29 and 30	В
•	through body grounds M30 and M66.	D
•	to internal CPU of IPDM E/R terminal 38 and 60	
•	through body grounds E17, E43, B102 (with VDC system or navigation system) and F152 (without VDC system and navigation system).	С
	en A/C controller (rear window defogger switch) is turned ON,	
	ar window defogger switch signals are transmitted,	D
•	through A/C controller terminal 87	
•	to unified meter and A/C amp.	
The	en ground is supplied	Е
•	to BCM terminal 9	
•	through unified meter and A/C amp. terminal 38	
•	through unified meter and A/C amp. terminal 30	F
•	through body grounds M30 and M66.	
The Wh	en BCM recognizes that rear window defogger switch is turned ON. en it sends rear window defogger switch signals to IPDM E/R via DATA LINE (CAN H, CAN L). en IPDM E/R receives rear window defogger switch signals, bund is supplied	G
•	to rear window defogger relay terminal 2	Н
•	through IPDM E/R terminal 52	
•	through internal CPU of IPDM E/R	
•	through IPDM E/R terminal 60	GW
•	through body grounds E17, E43, B102 (with VDC system or navigation system), F152 (without VDC system and navigation system), and then rear window defogger relay is energized.	
	ien rear window defogger relay is turned ON, inals are transmitted	J
•	to rear window defogger terminal 1	
•	through rear window defogger relay terminals 5 and 7 (For Coupe)	Κ
•	through rear window defogger relay terminal 5. (For Roadster)	
Re Wit	ar window defogger terminal 2 is grounded through body ground D212. (For Coupe) ar window defogger terminal 2 is grounded through body ground B5, B6 and T14. (For Roadster) h power and ground supplied, rear window defogger filaments heat and defog the rear window.	L
	ien rear window defogger relay is turned ON, wer is supplied	Μ
•	through rear window defogger relay terminals 5 and 7 (For Coupe)	
•	through rear window defogger relay terminal 7 (For Roadster)	
•	through fuse block (J/B) terminal 2C	
•	through 10A fuse [No. 8, located in the fuse block (J/B)]	
•	through fuse block (J/B) terminal 5B	
•	to door mirror defogger (Driver side and passenger side) terminal 2.	
	or mirror defogger (Driver side and passenger side) terminal 1 is grounded through body grounds M30 and	
Wit Wh	o. In power and ground supplied, door mirror defogger filaments heat and defog the mirror. Ien rear window defogger relay is turned ON, wer is supplied	
•	through rear window defogger relay terminals 5 and 7 (For Coupe)	
•	through rear window defogger relay terminal 5. (For Roadster)	
•	to unified meter and A/C amp. terminal 56	
Th	en ground is supplied	

- to A/C controller terminal 78
- through unified meter and A/C amp.
- through unified meter and A/C amp. terminal 29 and 30
- through body grounds M30 and M66.

This energizes rear window defogger indicator.

CAN Communication System Description

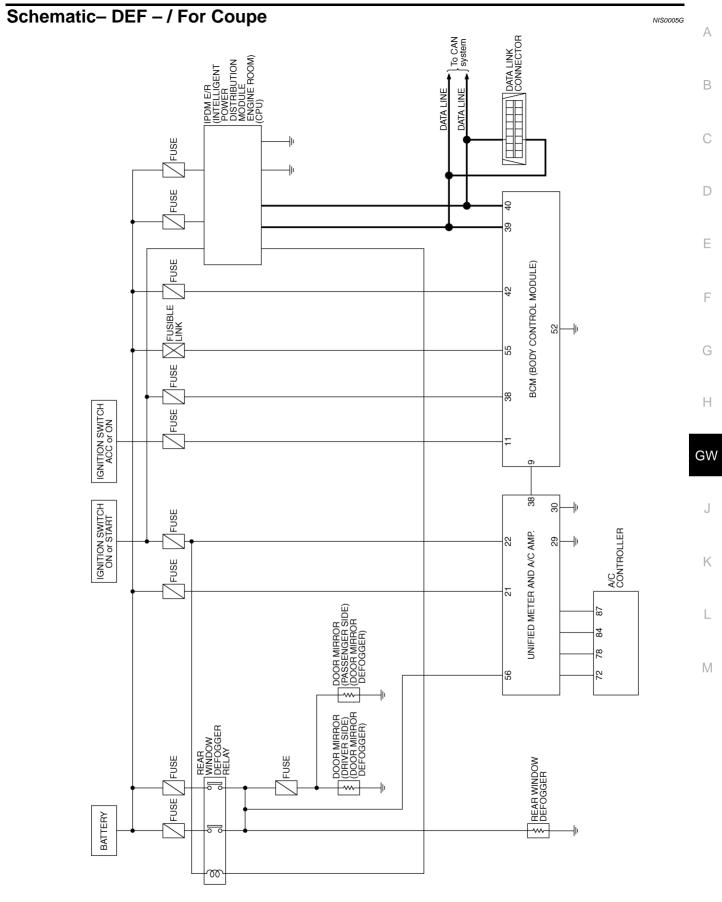
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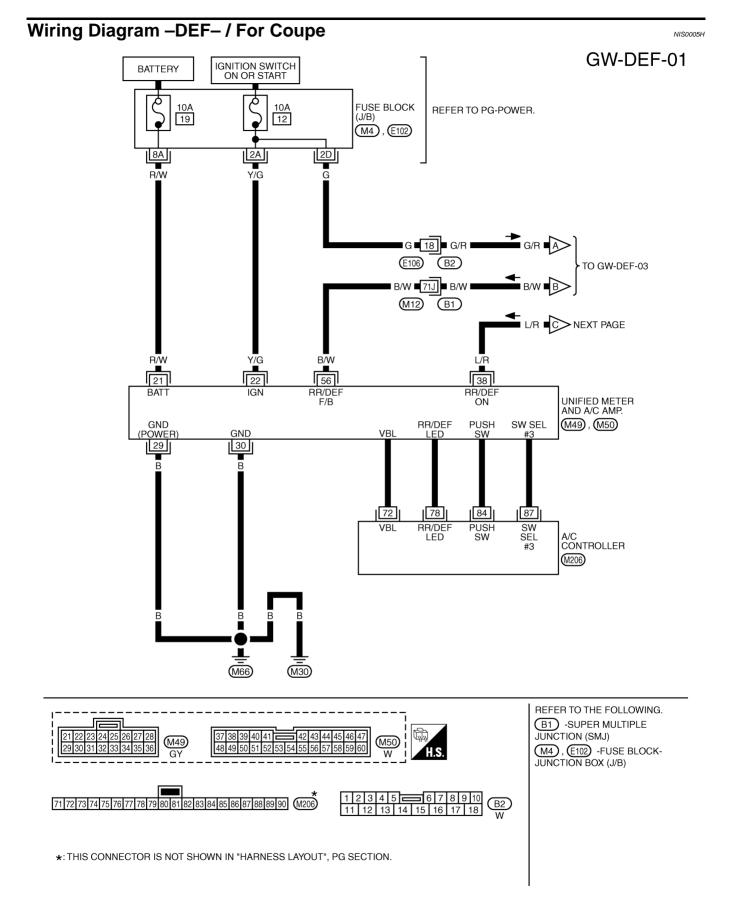
CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

CAN Communication Unit

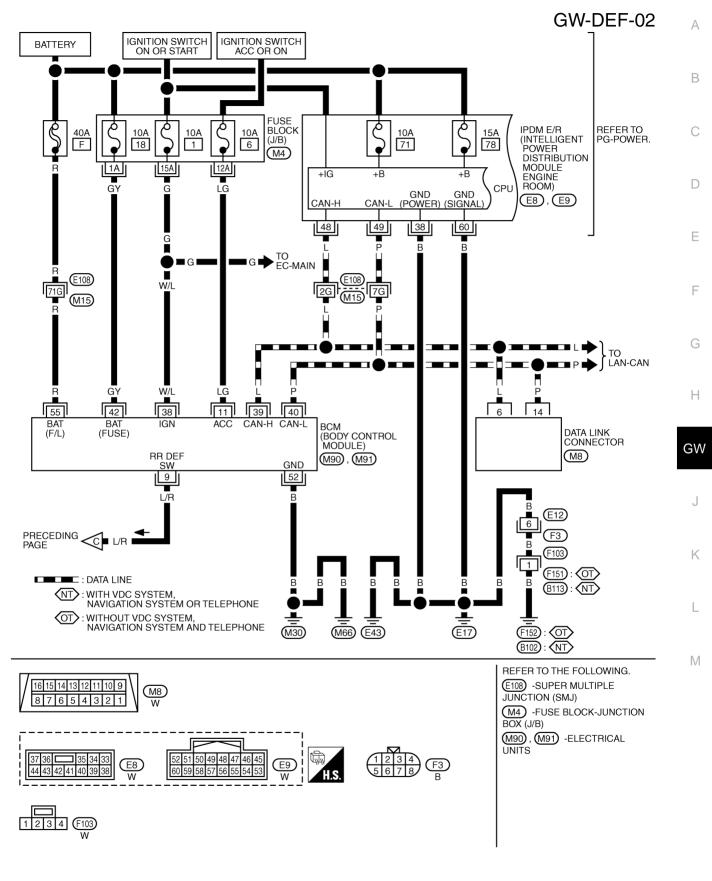
Refer to LAN-48, "CAN System Specification Chart" .



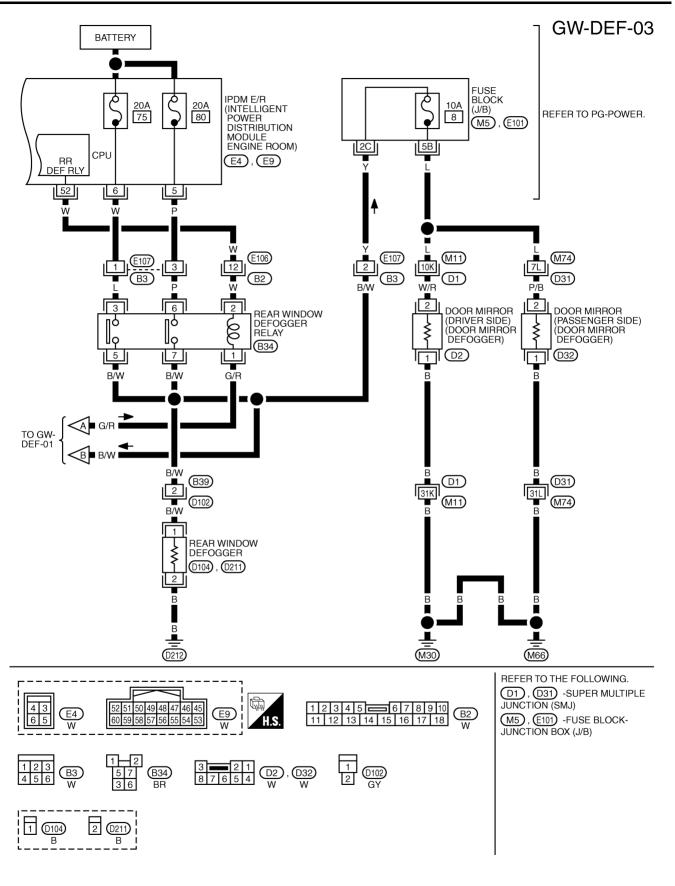
TIWT0972E



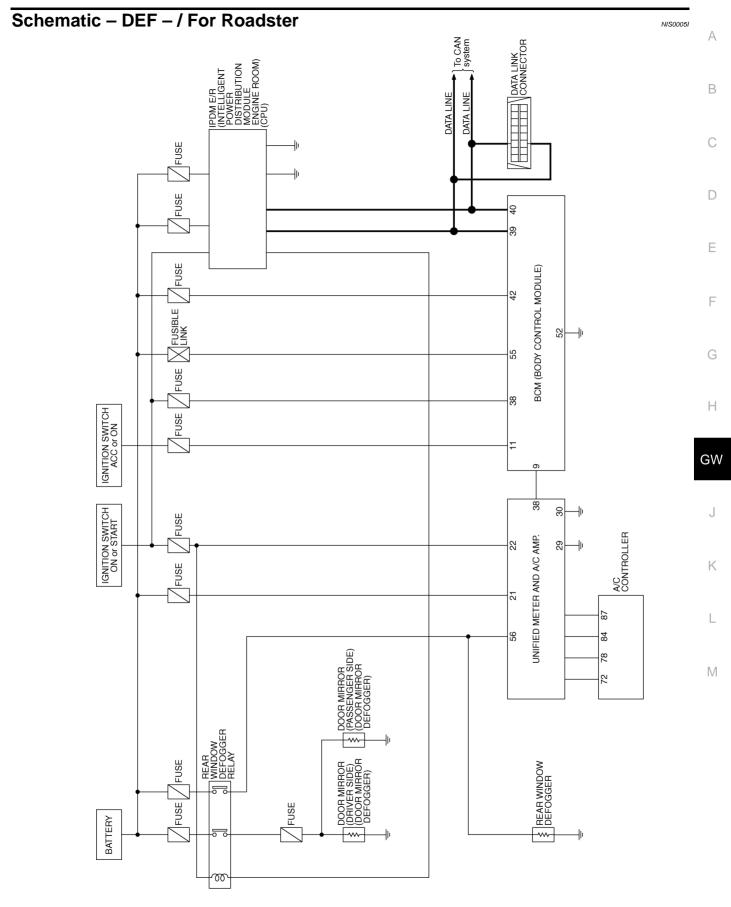
TIWT1595E



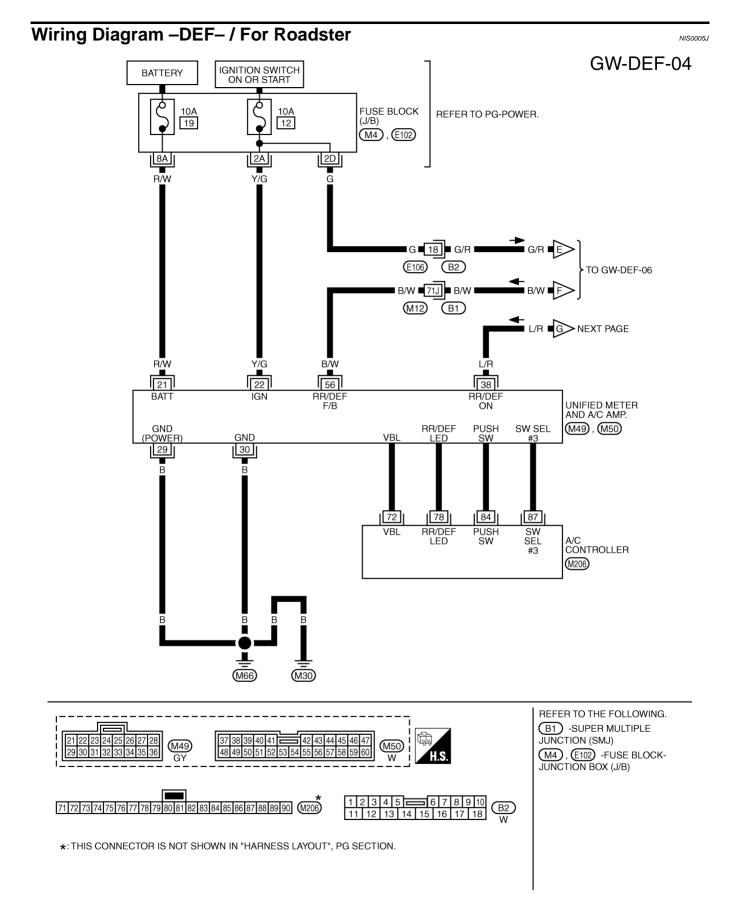
TIWT2277E



TIWT1597E



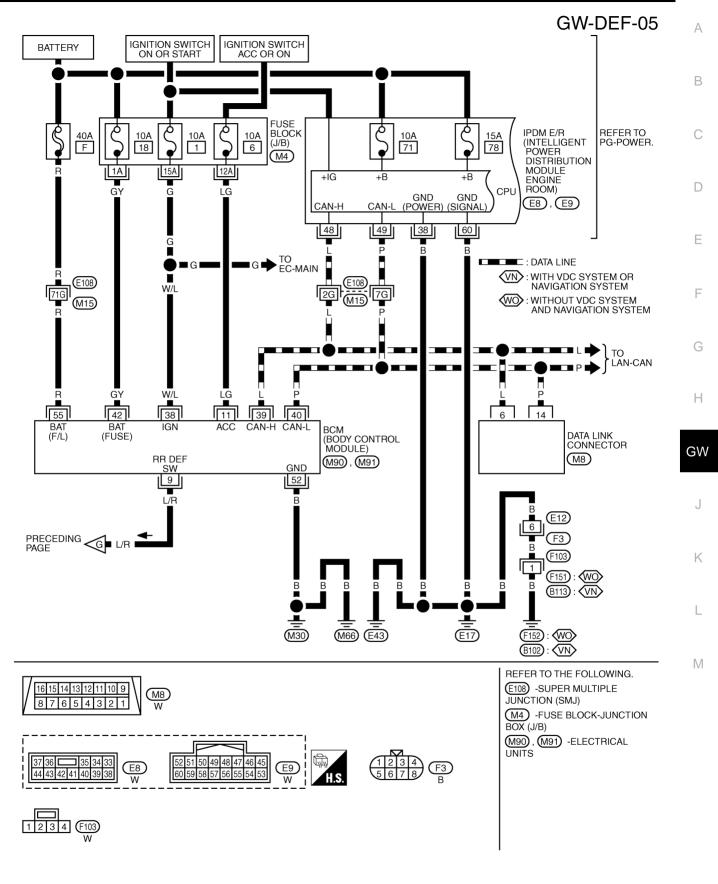
TIWT0975E



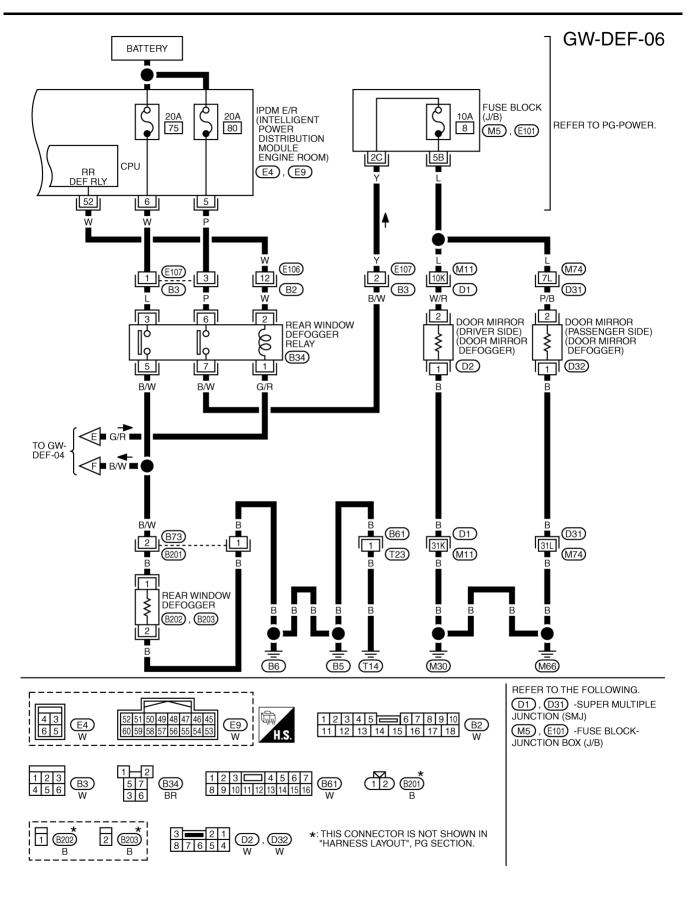
Revision: 2006 November

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TIWT2278E



TIWT1600E

Terminal and Reference Value for BCM

Ter- ninal	Wire Color	ltem	Signal input/out- put	Condition		Voltage (V) (Approx.)
9	L/R	Rear window defogger	Output	Door window deferrer owitch	: Pressed	0
9	L/R	switch signal	Output	Rear window defogger switch	: OFF	5
11	LG	Ignition switch ACC power supply (ACC or ON)	Input	Ignition switch (ACC or ON position)		Battery voltage
38	W/L	Ignition switch ON power supply (ON or START)	Input	Ignition switch (ON or START position)		Battery voltage
39	L	CAN-H	Input/Out- put	_		_
40	Р	CAN-L	Input/Out- put	_		_
42	GY	Power source (Fuse)	Input	_		Battery voltage
52	В	Ground	—	—		0
55	R	Power source (Fusible link)	Input	_		Battery voltage

Terminal and Reference Value for IPDM E/R.

Ter- minal	Wire Color	Item	Signal input/out- put	Condition		Voltage (V) (Approx.)	F
5	Р	Battery power supply	Output	_		Battery voltage	
6	W	Battery power supply	Output	—		Battery voltage	G
38	В	Ground (Power)	_	_		0	G
48	L	CAN-H	Input/Out- put	_		_	
49	Ρ	CAN-L	Input/Out- put	_		_	
50	14/	Rear window defogger relay	Innut	De en uie de contra en suitet	: ON	0	k
52	52 W	control signal	Input	Rear window defogger switch	: OFF	Battery voltage	-
60	В	Ground (Signal)	_	_		0	•

Terminal and Reference Value for Unified Meter and A/C Amp.

Signal Ter-Wire Voltage (V) Item input/out-Condition minal Color (Approx.) put R/W 21 Power source (Fuse) Battery voltage Input Ignition switch ON power supply Ignition switch Y/G 22 Input Battery voltage (ON or START) (ON or START position) Ground (Power) 0 29 В ____ 30 в Ground 0 : Pressed 0 Rear window defogger 38 L/R Input Rear window defogger switch. switch signal : OFF 5 : ON Battery voltage Rear window defogger B/W 56 Input Rear window defogger switch ON signal : OFF 0 Ignition switch 72 Indicator power supply Input 5 (ON or START position) : ON 0 Rear window defogger 78 Input Rear window defogger switch indicator signal : OFF 5

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Ter- minal	Wire Color	ltem	Signal input/out- put	Condition		Voltage (V) (Approx.)	
84	_	A/C control push switch power supply	Input	Ignition switch (ON or START position)		5	
87		Rear window defogger	Input	It Rear window defogger switch	: ON	0	
07	8/ —	switch ON signal	input		: OFF	5	

CONSULT-III Function (BCM)

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

BCM diagnostic test item	Check item diagnostic test mode	Content
REAR DEFOGGER	Data monitor	Displays the input data of BCM in real time.
REAR DEI OGGER	Active test	Gives a drive signal to a load to check the operation.

DATA MONITOR

Display Item List

Monitor item "C	peration"	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 DEFOGGER	Gives a drive signal to the rear window defogger to activate it.

CONSULT-III Function (IPDM E/R)

CONSULT-III can display each diagnostic item using the diagnostic test mode shown following.

IPDM E/R diagnostic test item	Check item diagnostic test mode	Content
REAR DEFOGGER	Data monitor	Displays the input data of BCM in real time.
	Active test	Gives a drive signal to a load to check the operation.

DATA MONITOR

Monitored Item	Description		
RR DEF REQ Indicates [ON/OFF] condition of rear window defogger function by IPDM E/R.			
ACTIVE TEST			
Test Item	Description		
REAR DEFOGGER	This test is able to check rear window defogger operation. Rear window defogger operates when "ON" on CONSULT-III screen is touched.		

Work Flow

- 1. Check the symptom and customer's requests.
- 2. Understand the outline of system. Refer to GW-56, "System Description" .
- 3. According to the trouble diagnosis chart, repair or replace the cause of the malfunction. Refer to <u>GW-69</u>, <u>"Trouble Diagnoses Symptom Chart"</u>.
- 4. Does rear window defogger operate normally? YES: GO TO 5, NO: GO TO 4.
- 5. INSPECTION END

Trouble Diagnoses Symptom Chart

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

Symptom	Diagnoses / service procedure	Refer to page	
	1. CAN communication inspection using CONSLUT-III (self-diagnosis)	<u>BCS-16</u>	•
	2. Check IPDM E/R operation	<u>GW-70</u>	•
Rear window defogger does not operate.	3. Check rear window defogger switch circuit	<u>GW-70</u>	
	4. Check rear window defogger power supply circuit	<u>GW-71</u>	•
	5. Replace IPDM E/R.	<u>PG-26</u>	•
Rear window defogger does not response but door mir- ror defoggers operate.	1. Check rear window defogger circuit	<u>GW-73</u> * ¹ <u>GW-74</u> * ²	
	2. Check filament	<u>GW-78</u>	
Both of door mirror defoggers do not response but rear window defogger operates.	Check door mirror defogger power supply circuit	<u>GW-75</u>	
Driver side door mirror defogger does not operate.	Check driver side door mirror defogger circuit	<u>GW-76</u>	
Passenger side door mirror defogger does not operate.	Check passenger side door mirror defogger circuit	<u>GW-76</u>	-

*1 : For Coupe

*2 : For Roadster

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Check IPDM E/R Operation

1. CHECK IPDM E/R OPERATION

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(P) With CONSULT-III

Check IPDM E/R "REAR DEFOGGER" in "ACTIVE TEST" mode with CONSULT-III. Refer to <u>GW-68, "ACTIVE TEST"</u>.

When "ACTIVE TEST" is performed, does rear defogger switch indicator illuminate?

YES or NO

YES >> GO TO diagnosis/service procedure 3 in "Trouble Diagnosis Symptom Chart". Refer to <u>GW-69</u>. NO >> GO TO diagnosis/service procedure 4 in "Trouble Diagnosis Symptom Chart". Refer to <u>GW-69</u>.

Check Rear Window Defogger Switch Circuit

1. CHECK REAR WINDOW DEFOGGER SWITCH OPERATION

With CONSULT-III

Check ("REAR DEF SW" and "IGN ON SW") in DATA MONITOR mode with CONSULT-III. Refer to <u>GW-68</u>, <u>"DATA MONITOR"</u>.

When rear defogger switch is turned to ONREAR DEF SW:ONWhen ignition switch is turned to ONIGN ON SW:ON

With out CONSULT-III

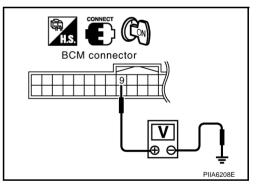
- 1. Turn ignition switch ON.
- 2. Check voltage between BCM connector ground.

Connector	Terminal (Wire color)	Condition		Voltage (V)
Connector	(+)	(-)	(Ap		(Approx.)
M90	9 (L/R)	Ground	Rear window defogger switch	: ON	0
10130	3 (L/IX)	Orband		defogger switch	: OFF

OK or NG

OK >> Rear window defogger switch check is OK.

NG >> GO TO 2.



2. REAR WINDOW DEFOGGER SWITCH SIGNAL CIRCUIT HARNESS CONTINUITY INSPECTION

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector and unified meter and A/C amp.connector.
- Check continuity between BCM connector M90 terminal 9 and unified meter and A/C amp. connector M50 terminal 38.

9 (L/R) - 38 (L/R)

: Continuity should exist

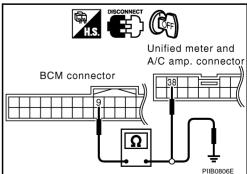
4. Check continuity between BCM harness connector M90 terminal 9 and ground

9 (L/R) – Ground

: Continuity should not exist

OK or NG

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



3.	CHECK BC	SIGNAL
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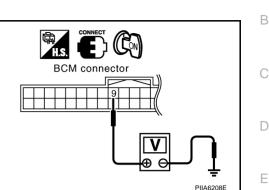
- 1. Connect BCM connector.
- 2. Turn ignition switch ON.
- 3. Check voltage between BCM connector M90 terminal 9 and ground.

9 (L/R) – Ground

:Approx. 5V

OK or NG

- OK >> Replace unified meter and A/C amp.
- NG >> Replace BCM.



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Check Rear Window Defogger Power Supply Circuit NIS00057 1. CHECK FUSE F Check 10A fuse [No. 12, located in fuse block (J/B)]. NOTE: Refer to GW-56, "Component Parts and Harness Connector Location" . OK or NG OK >> GO TO 2. Н NG >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse, refer to PG-4, "POWER SUPPLY ROUTING CIRCUIT" . 2. REAR WINDOW DEFOGGER RELAY POWER SUPPLY CIRCUIT INSPECTION GW 1. Turn ignition switch OFF. J 2. Remove rear window defogger relay. Check voltage between rear window defogger relay connector 3. B34 terminal 1 and ground. Κ 1 (G/R) – Ground : Battery voltage Rear window defogger relay connector OK or NG OK >> GO TO 3. NG >> Repair or replace harness.

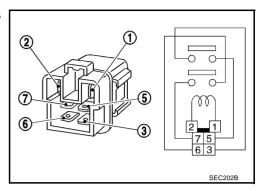
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$\overline{\mathbf{3}}$. REAR WINDOW DEFOGGER RELAY INSPECTION

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

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



OK or NG

OK >> GO TO 4.

NG >> Replace rear window defogger relay.

4. REAR WINDOW DEFOGGER RELAY GROUND CIRCUIT INSPECTION

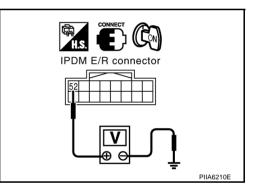
- 1. Installation rear window defogger relay.
- 2. Turn ignition switch ON.
- 3. Turn rear window defogger switch OFF.
- 4. Check voltage between IPDM E/R connector E9 terminal 52 and ground.

52 (B) – Ground

: Battery voltage

OK or NG

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



5. CHECK HARNESS CONTINUITY

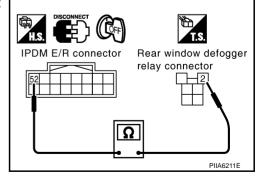
- 1. Turn ignition switch OFF.
- 2. Disconnect IPDM E/R connector and rear window defogger relay.
- 3. Check continuity between IPDM E/R connector E9 terminal 52 and rear window defogger relay connector B34 terminal 2.

52 (W) - 2 (W)

:Continuity should exist.

OK or NG

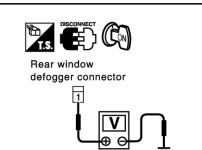
- OK >> Check the condition of harness and the connector.
- NG >> Repair or replace harness.



Check Rear Window Defogger Circuit / For Coupe 1. REAR WINDOW DEFOGGER POWER SUPPLY CIRCUIT INSPECTION

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

Connector	r (Wire color) Condition		Voltage [V] (Approx.)		
	(+)	(—)			(Applox.)
D104	1 (B/W)	Ground	Rear window	: ON	Battery voltage
D104	1 (B/VV)	Gibunu	defogger switch	: OFF	0



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OK or NG

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

2. REAR WINDOW DEFOGGER GROUND HARNESS INSPECTION

- Turn ignition switch OFF. 1.
- 2. Disconnect rear window defogger connector.
- Check continuity between rear window defogger connector 3. D211 terminal 2 and ground.
 - 2 (B) Ground

: Continuity should exist

OK or NG

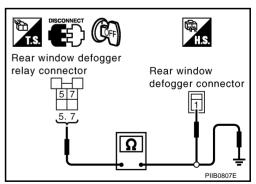
- OK >> Rear window defogger circuit is OK.
- NG >> Repair or replace harness.



- 1. Turn ignition switch OFF.
- 2. Disconnect rear window defogger relay connector.
- 3. Check continuity between rear window defogger relay connector B34 terminal 5, 7 and rear window defogger connector D104 terminal 1.
 - 5 (B/W) 1 (B/W) 7 (B/W) - 1 (B/W)
- : Continuity should exist.
 - : Continuity should exist.
- 4. Check continuity between rear window defogger relay connector B34 terminal 5, 7 and ground.
 - 5 (B/W) Ground
- : Continuity should not exist.
- 7 (B/W) Ground
- : Continuity should not exist.

OK or NG

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



Rear window

defogger connector

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Check Rear Window Defogger Circuit / For Roadster

1. REAR WINDOW DEFOGGER POWER SUPPLY CIRCUIT INSPECTION

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

Connector	Terminal (Wire color)				Voltage [V] (Approx.)
	(+)	()			(Approx.)
B202 1 (B) Groun		Ground	Rear window	: ON	Battery voltage
D202	ч (D)	Giounu	defogger relay	: OFF	0

OK or NG

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

$2.~{ m rear}$ window defogger ground harness inspection

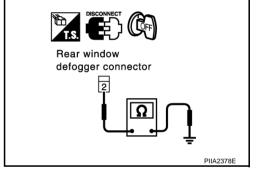
- 1. Turn ignition switch OFF.
- 2. Disconnect rear window defogger connector.
- 3. Check continuity between rear window defogger connector D203 terminal 2 and ground.

2(B) – Ground

: Continuity should exist

OK or NG

- OK >> Rear window defogger circuit is OK.
- NG >> Repair or replace harness.



3. CHECK HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect rear window defogger relay connector.
- Check continuity between rear window defogger relay connector B34 terminal 5 and rear window defogger connector B202 terminal 1.

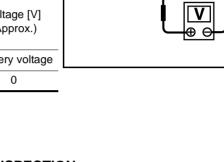
5 (B/W) – 1 (B)

: Continuity should exist.

OK or NG

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

	译录 H.S.
Rear window defogger	Rear window defogger
relay connector	connector
	PIIA4236E



	10A fus	e [No. 8	, located in fuse	e block (J/	B)].	
NOTE:	M-56 "C	Compone	ont Parts and H	arness Co	onnector Location	n
OK or NG	<u>vv-30, c</u>		fill Fails and H	amess oc		- •
	> GO TO		he sure to eli	minata cai	use of malfunction	n before installing new fuse, refer to <u>PG-</u>
			JPPLY ROUTI			Therefore installing new ruse, relet to <u>rus</u> -
2. door	MIRRO	R DEFC	GGER POWE	R SUPPLY	Y CIRCUIT INSPE	ECTION 1
2. Rear	window				voltage between	
Connector	nnector (Wire color) Condition		tion	Voltage [V] (Approx.)	Fuse block (J/B) connector	
	. ,		Rear window	: ON	Battery voltage	
E101 2C (Y) Ground	defogger switch	: OFF				
NG >		or repla	ce between ha		Y INSPECTION 2	PIIA2388E
Rear wind block (J/B)				eck voltag	e between Fuse	
	_	minal color)	Condition	on	Voltage [V] (Approx.)	Fuse block (J/B) connector
Connector	(+)	(-)				
Connector		Cround	Rear window defogger switch	: ON : OFF	Battery voltage	
Connector M5	5B (L)	Ground	ucioggei switch		0	
	5B (L)	Ground	delogger switch	-		

Check Driver Side Door Mirror Defogger Circuit

1. DOOR MIRROR DEFOGGER POWER SUPPLY CIRCUIT INSPECTION

- Turn ignition switch OFF. 1.
- 2. Disconnect driver side door mirror defogger connector.
- Turn ignition switch ON. 3.
- 4. Rear window defogger switch operate, check voltage between driver side door mirror defogger connector and ground.

Connector	-	ninal color)			Condition Voltage [V] (Approx.)		
	(+)	(—)			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
D2	2 (W/R)) Ground Rea	Rear window	: ON	Battery voltage		
DΖ	∠ (vv/I\)	Gibunu	defogger switch	: OFF	0		

OK or NG

OK >> GO TO 2.

NG >> Repair or replace harness.

2. DOOR MIRROR DEFOGGER GROUND HARNESS INSPECTION

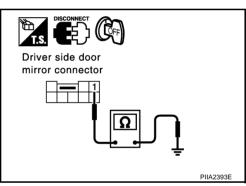
- 1. Turn ignition switch OFF.
- 2. Check continuity between driver side door mirror defogger connector D2 terminal 1 (B) and ground.

1 (B) - Ground

: Continuity should exist.

OK or NG

- OK >> Check door mirror defogger firmament continuity.
- NG >> Repair or replace harness.



Check Passenger Side Door Mirror Defogger Circuit 1. DOOR MIRROR DEFOGGER POWER SUPPLY CIRCUIT INSPECTION

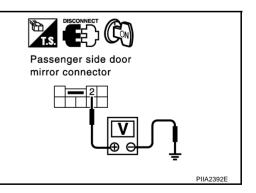
- Turn ignition switch ON. 1.
- 2. Disconnect passenger side door mirror defogger connector.
- 3. Rear window defogger switch operate, check voltage between passenger side door mirror defogger connector and ground.

Connector	_	minal color)	Condition		Voltage [V] (Approx.)
	(+)	()			(Applox.)
D32	2 (P/B)	3) Ground	Rear window	: ON	Battery voltage
D32	2 (F/B)	Ground	defogger switch	: OFF	0

OK or NG

OK >> GO TO 2.

NG >> Repair or replace harness.



Driver side door mirror connector

PIIA2394E

NIS0005Y

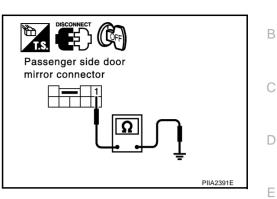
2. DOOR MIRROR DEFOGGER GROUND HARNESS INSPECTION

- 1. Turn ignition switch OFF.
- 2. Check continuity between passenger side door mirror defogger connector D32 terminal 1 and ground.

1 (B) – Ground

: Continuity should exist.

- OK or NG
 - OK >> Check door mirror defogger firmament continuity.
 - NG >> Repair or replace harness.



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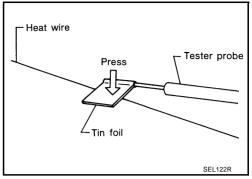
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Check Filament

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



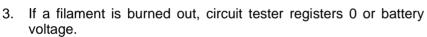
[_]

SEL263

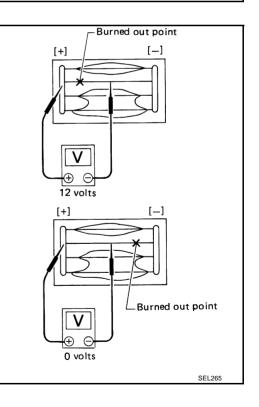
[+]

6 volts (normal filament)

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



4. To locate burned out point, move probe to left and right along filament. Test needle will swing abruptly when probe passes the point.



NIS0005Z

Filament Repair REPAIR EQUIPMENT

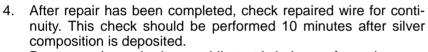
- Conductive silver composition (Dupont No. 4817 or equivalent)
- Ruler 30 cm (11.8 in) long
- Drawing pen
- Heat gun
- Alcohol
- Cloth

REPAIRING PROCEDURE

- 1. Wipe broken heat wire and its surrounding area clean with a cloth dampened in alcohol.
- 2. Apply a small amount of conductive silver composition to tip of drawing pen.

Shake silver composition container before use.

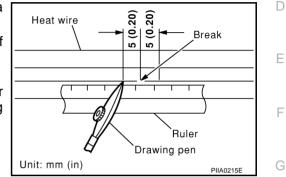
3. Place ruler on glass along broken line. Deposit conductive silver composition on break with drawing pen. Slightly overlap existing heat wire on both sides [preferably 5 mm (0.20 in)] of the break.



Do not touch repaired area while test is being performed.

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.

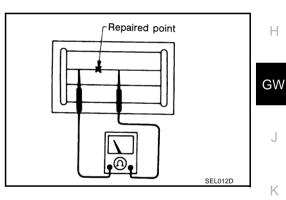


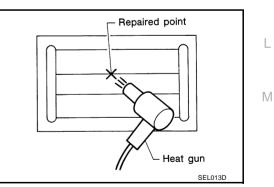
NIS00060

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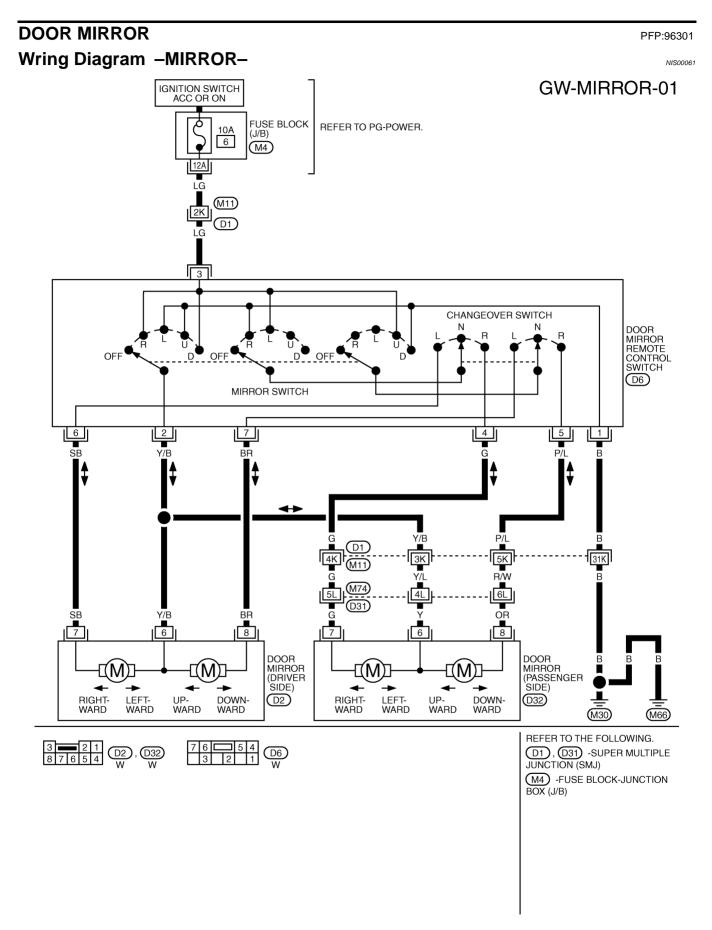
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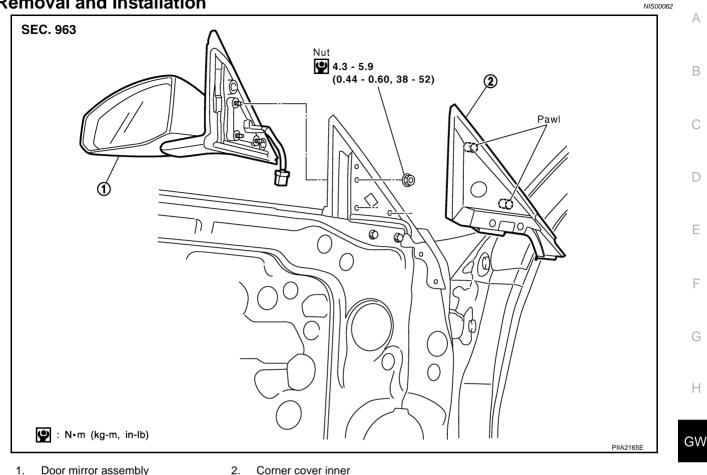
DOOR MIRROR



TIWT1601E

DOOR MIRROR





1. Door mirror assembly

REMOVAL

- 1. Remove door finisher. Refer to EI-33, "DOOR FINISHER" .
- 2. Remove corner cover inner.
- 3. Disconnect door mirror harness connector.
- Remove door mirror mounting nuts, and remove door mirror assembly. 4.

INSTALLATION

Install in the reverse order of removal.

DISASSEMBLY

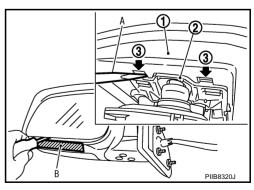
- 1. Place the mirror body with mirror glass facing upward.
- 2. Put a strip of protective tape B on mirror body.
- As shown in the figure, insert a small slotted screwdriver A into 3. the recess between mirror base (mirror holder) (1) and mirror holder bracket (2) and push up two pawls (3) to remove mirror holder lower half side.

NOTE:

When pushing up pawls do not attempt to use one recess only, be sure to push up with both recesses.

Insert screwdriver into recesses, and push up while rotating (twist) to make work easier.

- Remove two terminals of mirror heater attachment. 4.
- Lightly lift up lower side of mirror surface from mirror surface, and detach pawls of upper side as if pulling 5. it out. Remove mirror surface from mirror body.



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NOTE:

Be certain not to allow grease on sealing agent in center of mirror body assembly (actuator) or back side of mirror surface (mirror holder).

ASSEMBLY

- 1. Place mirror holder bracket and mirror body assembly (actuator) in a horizontal position.
- 2. Connect terminals of heater installed mirror.
- 3. Fit the upper pawls on the mirror face onto the mirror holder bracket first, then press the lower side of mirror face until a click sound is heard to engage the lower pawls.

NOTE:

After installation, visually check that lower pawls are securely engaged from the bottom of mirror face.

