

D

Е

F

GLASSES, WINDOW SYSTEM & MIRRORS

CONTENTS

SERVICE INFORMATION3	Trouble Diagnosis Symptom Chart29	F
	Check BCM Power Supply and Ground Circuit30	
PRECAUTIONS3	Check Drive Side Power Window Motor Circuit31	
Precaution for Supplemental Restraint System	Check Passenger Side Power Window Motor Cir-	G
(SRS) "AIR BAG" and "SEAT BELT PRE-TEN-	cuit31	
SIONER"3	Check Limit Switch Circuit (Driver Side)32	
Precaution for Battery Service3	Check Limit Switch Circuit (Passenger Side)33	Н
Precaution for Procedure without Cowl Top Cover3	Check Encoder Circuit (Driver Side)35	111
Handling for Adhesive and Primer3	Check Encoder Circuit (Passenger Side)37	
DDEDADATION -	Check Door Switch38	
PREPARATION5	Check Power Window Serial Link40	GW
Special Service Tool5	Check Power Window Main Switch Power Supply	
Commercial Service Tools5	and Ground Circuit42	
SQUEAK AND RATTLE TROUBLE DIAGNO-	Check Power Window Sub-switch Power Supply	J
	and Ground43	
SIS6	Check Door Key Cylinder Switch44	
Work Flow6	• •	12
Generic Squeak and Rattle Troubleshooting8	FRONT DOOR GLASS AND REGULATOR46	K
Diagnostic Worksheet10	Removal and Installation46	
WINDSHIELD GLASS12	Disassembly and Assembly47	
Removal and Installation12	Inspection after Installation47	L
Removal and installation12	WOIDE MIDDOD	
BACK DOOR WINDOW GLASS15	INSIDE MIRROR49	
Removal and Installation15	Wiring Diagram - I/MIRR49	M
	Removal and Installation50	
SIDE WINDOW GLASS17	REAR WINDOW DEFOGGER51	
Removal and Installation17	Component Parts and Harness Connector Loca-	N.I.
DOWED WINDOW OVOTEN	tion51	Ν
POWER WINDOW SYSTEM19	System Description51	
Component Parts and Harness Connector Loca-	CAN Communication System Description52	
tion19	CAN Communication Unit53	0
System Description19	Schematic- DEF - / for Coupe53	
Schematic22	Wiring Diagram - DEF - / for Coupe54	
Wiring Diagram - WINDOW23	Schematic - DEF - / for Roadster57	Р
Terminal and Reference Value for BCM26		
Terminal and Reference Value for Power Window	Wiring Diagram - DEF - / for Roadster	
Main Switch26	Terminal and Reference Value for BCM60	
Terminal and Reference Value for Power Window	Terminal and Reference Value for IPDM E/R61	
Sub-Switch27	Terminal and Reference Value for Unified Meter	
CONSULT-III Function (BCM)28	and A/C Amp61	
Work Flow 29	CONSULT-III Function (BCM)62	

CONSULT-III Function (IPDM E/R)62	Check Door Mirror Defogger Power Supply Circuit
Work Flow 62	67
Trouble Diagnosis Symptom Chart 63	Check Driver Side Door Mirror Defogger Circuit 68
Check IPDM E/R Operation 63	Check Passenger Side Door Mirror Defogger Cir-
Check Rear Window Defogger Switch Circuit 63	cuit69
Check Rear Window Defogger Power Supply Cir-	Check Filament69
cuit 64	Filament Repair70
Check Rear Window Defogger Circuit / for Coupe 66	
Check Rear Window Defogger Circuit / for Road-	DOOR MIRROR72
ster	Wring Diagram -MIRROR72
	Removal and Installation73

SERVICE INFORMATION

PRECAUTIONS

Precaution 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 "SUPPLEMENTAL RESTRAINT SYS-TEM" and "SEAT BELTS" of this Service Manual.

Е

Α

В

D

- 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 "SUPPLEMENTAL RESTRAINT SYSTEM".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precaution for Battery Service

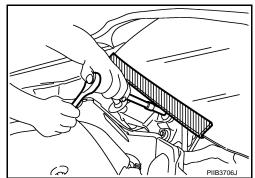
INFOID:0000000004658084

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.

Precaution for Procedure without Cowl Top Cover

INFOID:0000000004658085

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.

GW

Н

GW-3 Revision: 2009 October 2008 & 2009 350Z

PRECAUTIONS

< SERVICE INFORMATION >

- 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.

PREPARATION

< SERVICE INFORMATION >

PREPARATION

Special Service Tool

INFOID:0000000004658087

Α

В

D

Е

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 Rat- tle Kit	SIIA0994E	Repairing the cause of noise

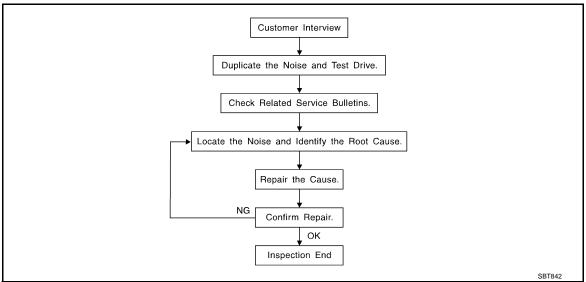
Commercial Service Tools

INFOID:0000000004658088

Engine ear Locating to SIIA0995E Holding the PIIB1805J	
	e noise
1 112 10000	e door glass
Remover tools Remove t	e clips, pawls and metal clips

GW-5 Revision: 2009 October 2008 & 2009 350Z

Work Flow



CUSTOMER INTERVIEW

- The customer may not be able to provide a detailed description of 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 diagnoseand 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/broughton by road conditions/hard surfaces=higher pitch noise/softer surfaces=lowerpitch 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/oftenbrought on by driver action.
- Tick—(Like a clock second hand)
 - Tick characteristics include gentle contacting of light materials/loosecomponents/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 dependingupon 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 great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

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

< SERVICE INFORMATION >
If the noise can be duplicated easily during the test drive, to helpidentify the source of the noise, try to dupli-
cate the noise with the vehiclestopped by doing one or all of the following:
1) Close a door.
2) Tap or push/pull around the area where the noise appears tobe coming from.
3) Rev the engine.
4) Use a floor jack to recreate vehicle "twist"

- 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.
- Drive the vehicle and attempt to duplicate the conditions thecustomer states exist when the noise occurs.

At idle, apply engine load (electrical load, half-clutch on M/T models, drive position on A/T models).

 If it is difficult to duplicate the noise, drive the vehicle slowlyon an undulating or rough road to stress the vehicle body.

CHECK RELATED SERVICE BULLETINS

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

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

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 causeof the noise by:
- removing the components in the area that you suspect the noise coming from. Do not use too much force when removing clips and fasteners, otherwiseclips and fastener can be broken or lost during the repair, resulting in thecreation of new noise.
- tapping or pushing/pulling the component that you suspect is causingthe noise. Do not tap or push/pull the component with excessive force, otherwisethe noise will be eliminated only tem-
- 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 arecausing the noise.
- looking for loose components and contact marks. Refer to GW-8, "Generic Squeak and Rattle Troubleshooting".

REPAIR THE CAUSE

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

CAUTION:

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

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

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

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

76268-9E005: 100×135 mm $(3.94 \times 5.31 \text{ in})/76884-71L01$: 60×85 mm $(2.36 \times 3.35 \text{ in})/76884-71L01$

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, 50×50 mm (1.97 \times 1.97 in)/73982-50Y00:

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

INSULATOR (Light foam block)

80845-71L00: 30 mm (1.18 in) thick, $30 \times 50 \text{ mm}$ (1.18 \times 1.97in)

FELT CLOTHTAPE

Used to insulate where movement does not occur. Ideal for instrumentpanel 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.

UHMW (TEFLON) TAPE

GW

Α

В

D

Е

M

N

Р

GW-7 Revision: 2009 October 2008 & 2009 350Z

< SERVICE INFORMATION >

Insulates where slight movement is present. Ideal for instrument panelapplications.

SILICONE GREASE

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.

CONFIRM THE REPAIR

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

Generic Squeak and Rattle Troubleshooting

INFOID:0000000004658090

Refer to Table of Contents for specific component removal and installationinformation.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

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

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

CAUTION:

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

CENTER CONSOLE

Components to pay attention to include:

- 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 thecenter console.

DOORS

Pay attention to the:

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

TRUNK

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

- Trunk lid 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

< SERVICE INFORMATION >

Most of these incidents can be repaired by adjusting, securing or insulatingthe 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:

- Sunroof lid, rail, linkage or seals making a rattle or light knockingnoise
- 2. Sunvisor shaft shaking in the holder
- 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 insulating with felt cloth tape.

SEATS

When isolating seat noise it's important to note the position the seatis 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 orapplying urethane tape to the contact area.

UNDERHOOD

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

Causes of transmitted underhood noise include:

- Any component mounted to the engine wall
- Components that pass through the engine wall
- 3. Engine wall mounts and connectors
- 4. Loose radiator mounting pins
- 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.

GW

Α

В

D

Е

F

K

L

N

0

Р

Revision: 2009 October **GW-9** 2008 & 2009 350Z

Diagnostic Worksheet

INFOID:0000000004658091



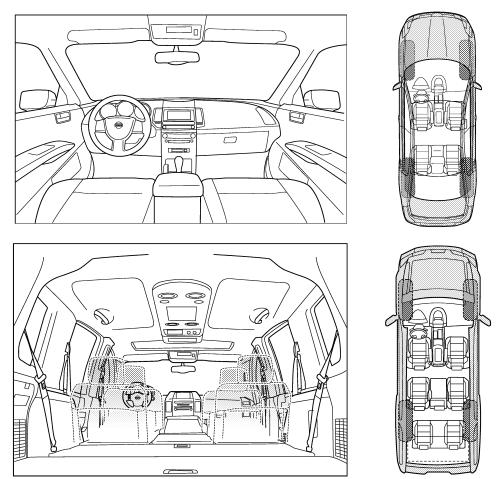
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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

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





DIIBRAANE

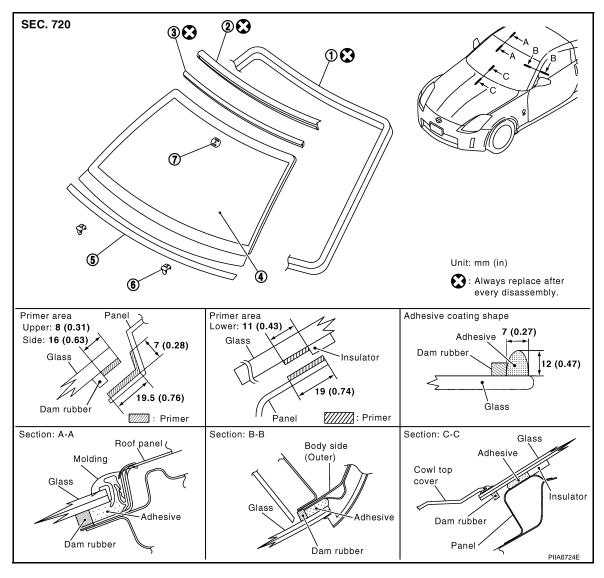
II. WHEN DOES IT OCCUR? (please o	heck the boxes that apply)	
☐ anytime	after sitting out in the rain	
1st time in the morning	when it is raining or wet	
only when it is cold outside	dry or dusty conditions	
only when it is hot outside	other:	
III. WHEN DRIVING:	IV. WHAT TYPE OF NOISE	
\square through driveways	squeak (like tennis shoes on a clean floor)	
over rough roads	creak (like walking on an old wooden floor)	
over speed bumps	rattle (like shaking a baby rattle)	
only about mph	knock (like a knock at the door)	
on acceleration	☐ tick (like a clock second hand)☐ thump (heavy, muffled knock noise)	
☐ coming to a stop☐ on turns: left, right or either (circle)	buzz (like a bumble bee)	
<u> </u>	□ buzz (inte a buttible bee)	
r r with bassenders of cardo		
□ with passengers or cargo□ other:	_	
□ with passengers or cargo □ other: □ after driving miles or n	- ninutes	
other: miles or n		<u>-</u>
other: after driving miles or n TO BE COMPLETED BY DEALERSHI		_
other: after driving miles or n TO BE COMPLETED BY DEALERSHI		_
other: after driving miles or n TO BE COMPLETED BY DEALERSHI		-
other: niles or n TO BE COMPLETED BY DEALERSHI		- -
other: after driving miles or n TO BE COMPLETED BY DEALERSHI		-
other:	P PERSONNEL YES NO Initials of person	-
□ other: □ after driving □ miles or □ n TO BE COMPLETED BY DEALERSHI Test Drive Notes:	P PERSONNEL YES NO Initials of person	
other: dafter driving miles or n TO BE COMPLETED BY DEALERSHI Test Drive Notes: Vehicle test driven with customer	P PERSONNEL YES NO Initials of person	-
other: dafter driving miles or n TO BE COMPLETED BY DEALERSHI Test Drive Notes: Vehicle test driven with customer Noise verified on test drive	P PERSONNEL YES NO Initials of person performing \[\begin{array}{c ccccccccccccccccccccccccccccccccccc	
other: after driving miles or n TO BE COMPLETED BY DEALERSHI Test Drive Notes: Vehicle test driven with customer Noise verified on test drive Noise source located and repaired	YES NO Initials of person performing	-

Revision: 2009 October **GW-11** 2008 & 2009 350Z

WINDSHIELD GLASS

Removal and Installation

INFOID:0000000004658092



- 1. Dam rubber
- 4. Windshield glass
- 7. Mirror base

- 2. Fastener
- Insulator

- Molding (upper)
- 6. Spacer

REMOVAL (COUPE)

- Remove the front pillar finisher. Refer to <u>EI-26</u>, "Removal and Installation (for Coupe Models)".
- 2. Partially remove the headlining (front edge). Refer to EI-39, "Removal and Installation (for Coupe Models)".
- 3. Remove the front pillar garnish. Refer to EI-30, "Removal and Installation (for Coupe Models)".
- 4. Remove the front wiper arms. Refer to <a href="https://www.example.com/www.
- Remove the cowl top cover. Refer to <u>EI-16</u>.
- 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.

WARNING:

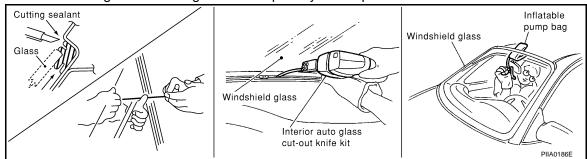
< SERVICE INFORMATION >

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.
- 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.
- Remove the front pillar finisher. Refer to EI-27, "Removal and Installation (for Roadster Models)".
- Remove the roof front finisher. Refer to EI-40, "Removal and Installation (for Roadster Models)".
- Remove the front pillar garnish. Refer to El-31, "Removal and Installation (for Roadster Models)". 4.
- Remove the front wiper arms. Refer to WW-27, "Removal and Installation of Front Wiper Arms, Adjust-5. ment of Wiper Arms Stop Location".
- Remove the cowl top cover. Refer to El-16.
- 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.
- 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:

GW

Н

Α

В

D

K

Ν

Р

GW-13 Revision: 2009 October 2008 & 2009 350Z

WINDSHIELD GLASS

< SERVICE INFORMATION >

- 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.

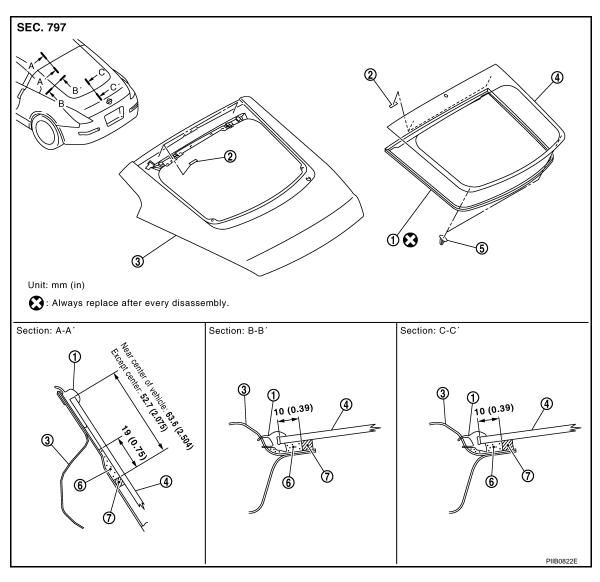
If water is leaking between the urethane adhesive material and body or glass, determine the extent of leakage.

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.

BACK DOOR WINDOW GLASS

Removal and Installation



- 1. Back door window molding
- 4. Back door window glass
- 7. Dam rubber

- 2. Dual lock fastener
- Holder

Back door

Α

В

D

F

Н

GW

K

Ν

Р

INFOID:0000000004658093

Adhesive

REMOVAL

- Remove back door finisher. Refer to <u>EI-42, "Removal and Installation (for Coupe Models)"</u>.
- 2. Remove rear wiper arm. Refer to <u>WW-44</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.

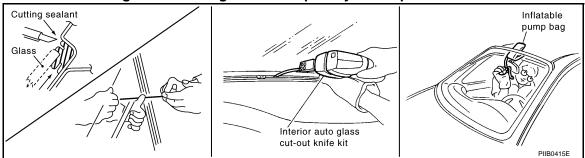
CAUTION:

Revision: 2009 October **GW-15** 2008 & 2009 350Z

BACK DOOR WINDOW GLASS

< SERVICE INFORMATION >

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



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

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:

- 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 back door window area while pushing glass outward.

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

SIDE WINDOW GLASS

Removal and Installation

SEC. 830 Q**()** : Always replace after every disassembly. Unit: mm (in) Primer area (Except side) : Primer Primer area (Side) : Primer Adhesive coating shape 11.0 (0.43) 12.0 (0.47) 9.0 (0.35) 17.0 (0.6 7.0 (0.27) 15.0 (0.59) Section: C-C Section: A-A Section: B-B Back door outer 6 PIIB1358E

- 1. Side window glass molding (upper)
- 4 Clin
- 7. Lock pillar finisher
- 2. Side window glass
- 5. Side window glass molding (lower)
- 8. Back door molding
- 3. Grommet
- 6. Adhesive
- 9. Rear fender

REMOVAL

- 1. Remove rear side finisher. Refer to El-30.
- Remove rear pillar finisher. Refer to <u>EI-30</u>.
- Remove headlining. Refer to <u>EI-39</u>.
- Remove lock pillar finisher. Refer to <u>EI-26</u>. 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.

GW

Н

Α

В

D

Е

INFOID:0000000004658094

K

_

M

Ν

0

Р

Revision: 2009 October GW-17 2008 & 2009 350Z

SIDE WINDOW GLASS

< SERVICE INFORMATION >

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 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 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 side window area while pushing glass outward.

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

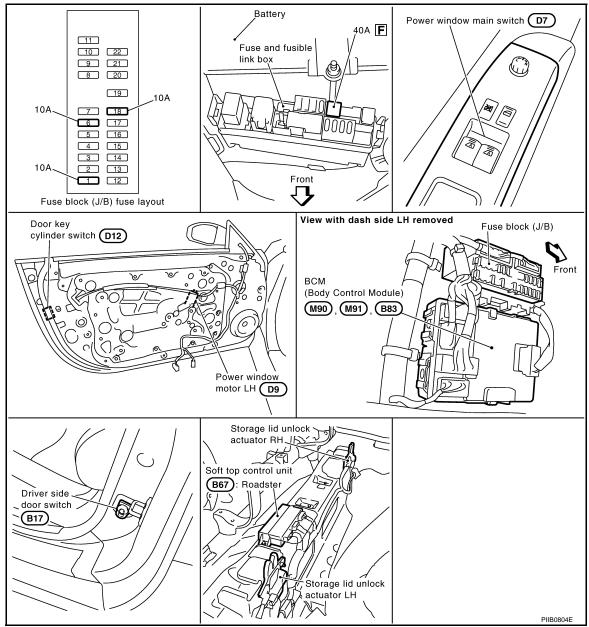
Component Parts and Harness Connector Location

INFOID:0000000004658095

Α

В

D



System Description

Power is supplied at all times

- 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 BCM terminal 54
- to power window main switch terminal 1.
- to power window sub-switch terminal 10.

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

- through 10A fuse [No.1, located in the fuse block (J/B)]
- to BCM terminal 38.
- through BCM terminal 53
- to power window main switch terminal 10.

Ground is supplied

Revision: 2009 October

GW

Н

. .

1\

INFOID:0000000004658096

2008 & 2009 350Z

< SERVICE INFORMATION >

- to BCM terminal 52
- through grounds M30 and M66.
- to power window main switch terminal 15
- through grounds M30 and M66.
- to power window sub-switch terminal 11
- through grounds M30 and M66.

MANUAL OPERATION

Driver Side Door WINDOW UP

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
- to driver side power window motor terminal 2.

Ground is supplied

- 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.

WINDOW DOWN

When the driver side window switch in the power window main switch is pressed in the down position,

Power is supplied

- through power window main switch terminal 11
- 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

< SERVICE INFORMATION >

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-28</u>, "<u>CONSULT-III Function</u> (<u>BCM</u>)".

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

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

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.
- 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.
- When the ignition switch is turned ON while the power window control operation by the key cylinder switch.

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).

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.

Automatic window adjusting function system (closing operation) does not operate when the following.

- The automatic window adjusting function system (opening operation) operation.
- The keyless power window operation.
- The power window control by the key cylinder switch operation.

GW

Н

Α

D

Е

F

K

L

IVI

Ν

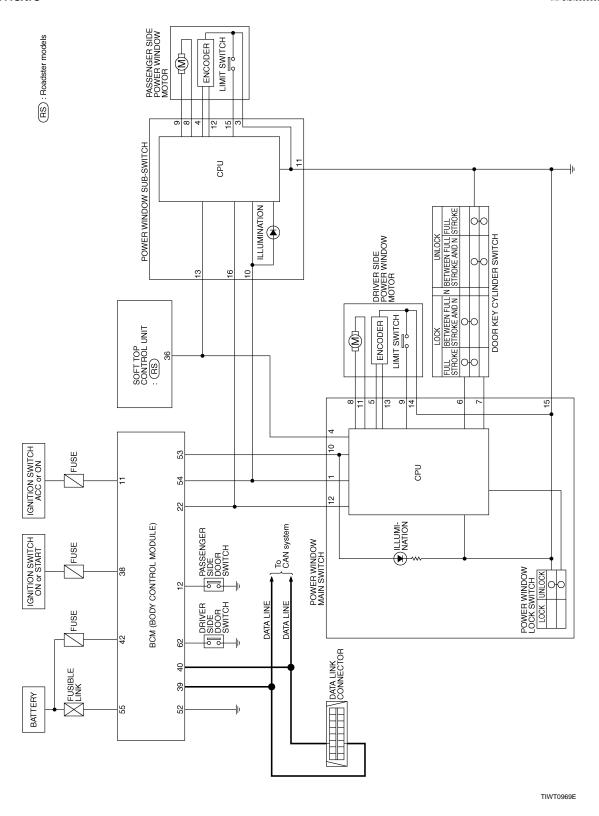
 \cap

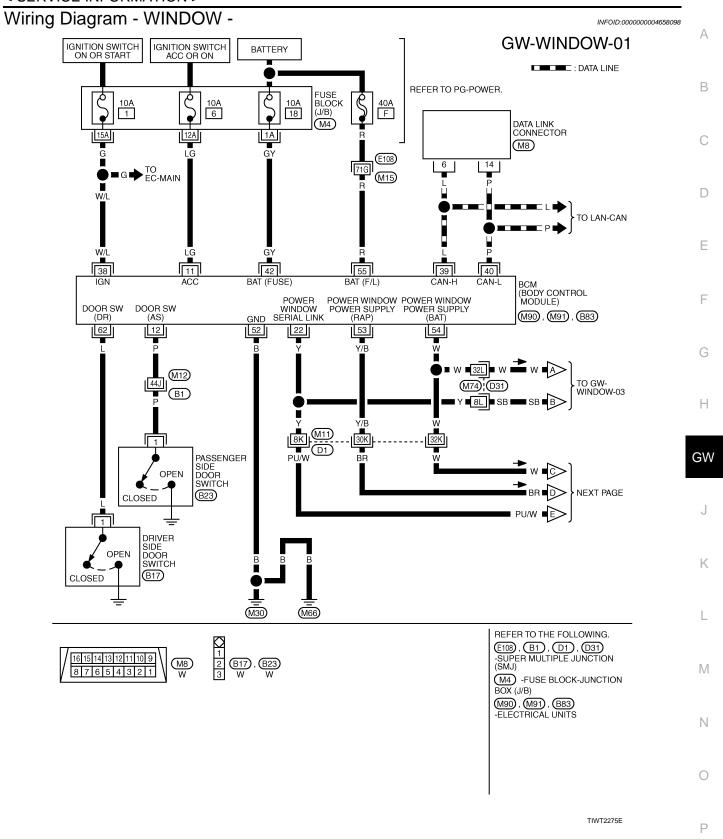
0

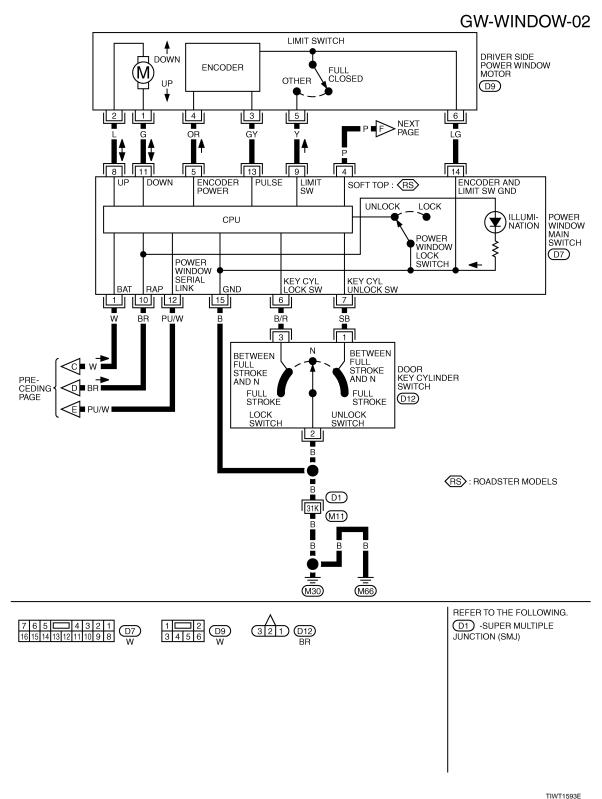
Р

Revision: 2009 October GW-21 2008 & 2009 350Z

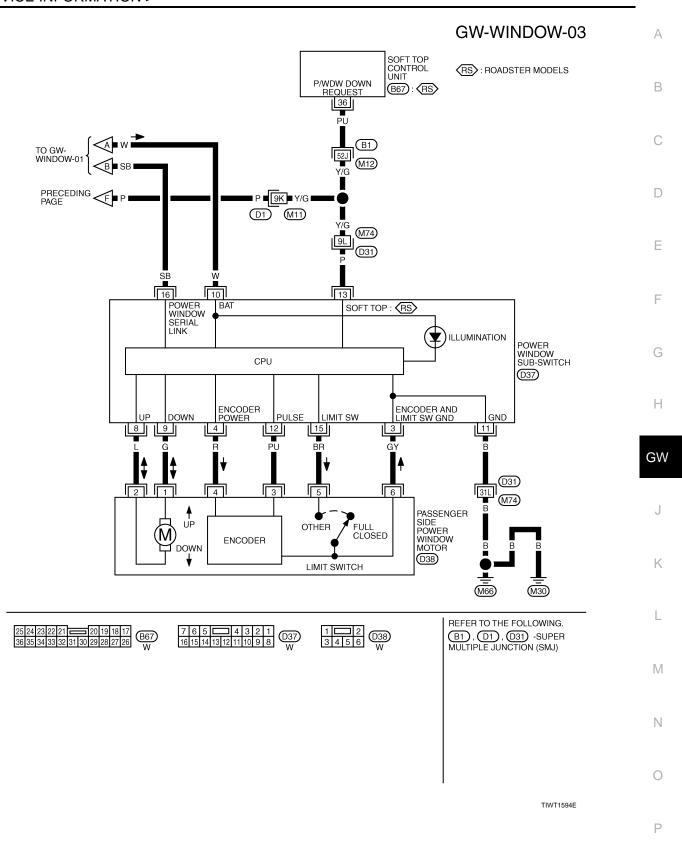
Schematic







11W11333L



< SERVICE INFORMATION >

Terminal and Reference Value for BCM

INFOID:0000000004658099

Ter- minal	Wire color	Item	Signal in- put/output	Condition	Voltage (V) (Approx.)		
11	LG	Ignition switch ACC power supply (ACC or ON)	Input	Ignition switch (ACC or ON position)	Battery voltage		
12	Р	Passenger side door switch	Input	ON (open)	0		
12	F	rassenger side door switch	input	OFF (closed)	Battery voltage		
22	Y	Power window serial link	Input/Out- put	_	(V) 15 10 5 0 200 ms		
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		
				IGN SW ON	Battery voltage		
53	Y/B	Rap signal Ou	B Rap signal Output	Rap signal Output When driving side door	Output	Within 45 second after ignition switch is turned to OFF	Battery voltage
	.,_					33.530	
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		
	62 L Driver side door switch Input	Прис	OFF (closed)	Battery voltage			

Terminal and Reference Value for Power Window Main Switch

INFOID:0000000004658100

Ter- minal	Wire Color	Item	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 window down function is operating.	0
				Other than above	5
5	OR	Encoder power supply	Input	_	10
6	B/R	Key cylinder lock switch	Output	Key position (Neutral → Locked)	5 → 0
7	SB	Key cylinder unlock switch	Output	Key position (Neutral → Unlocked)	5 → 0
8	L	Driver side power window motor UP signal	Output	When power window motor UP operation.	Battery voltage

< SERVICE INFORMATION >

_					
Ter- minal	Wire Color	Item	Signal input/ output	Condition	Voltage (V) (Approx.)
			Driver side door window is between fully-open and just before fully-closed position (ON).	0	
9	Y	Limit switch signal	Input	Driver side door window is be- tween just before fully-closed position and fully-closed posi- tion (OFF).	5
-				IGN SW ON	Battery voltage
10	BR	Rap signal	Output	Within 45 second after ignition switch is turned to OFF	Battery voltage
. •	2.,	repolgra	Сагра	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
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

INFOID:0000000004658101

Α

В

D

Е

F

Н

Κ

M

Ν

Ter- minal	Wire Color	Item	Signal in- put/output	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 signal	Output	When power window motor DOWN operation.	Battery voltage
10	W	BAT power supply	Input	_	Battery voltage
11	В	Ground	_	_	0

< SERVICE INFORMATION >

Ter- minal	Wire Color	Item	Signal in- put/output	Condition	Voltage (V) (Approx)
12	PU	Encoder pulse signal	Input/Out- put	When power window motor operates.	(V) 6 4 2 0
40*		Power window down request sig-		When soft top open/close function starts and window	OCC3383D
13*	Р	nal	Input	down function is operating. Except the above	5
45		Limit switch signal Inpu	Input	Passenger side door window is between fully-open and just before fully-closed position (ON).	0
15	BR			Passenger side door window 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

^{*:} For Roadster

CONSULT-III Function (BCM)

INFOID:0000000004658102

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

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 can be changed by mode setting. Selects rap signal's power supply period between three steps • MODE 1 (45 sec.) / MODE 2 (OFF) / MODE 3 (2 min.).		

DATE MONITOR

Monitor item	Description	
IGN ON SW	Indicates [ON/OFF] condition of ignition switch.	
DOOR SW-DR	Indicates [ON/OFF] condition of driver side door switch.	
DOOR SW-AS	Indicates [ON/OFF] condition of passenger side door switch.	

ACTIVE TEST

< SERVICE INFORMATION >

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

Work Flow

- 1. Check the symptom and customer's requests.
- 2. Understand the outline of system. Refer to GW-19, "System Description".
- According to the trouble diagnosis chart, repair or replace the cause of the malfunction. Refer to <u>GW-29</u>.
 <u>"Trouble Diagnosis Symptom Chart"</u>.
- 4. Does power window system operate normally? If Yes, GO TO 5, If No, GO TO 3.
- 5. INSPECTION END

Trouble Diagnosis Symptom Chart

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

Symptom	Diagnoses / service procedure	Reference page
	Check BCM power supply and ground circuit	<u>GW-30</u>
None of the power windows can be operated using any switch.	Check power window main switch power supply and ground circuit	<u>GW-42</u>
SWICH.	3. Check power window serial link	<u>GW-40</u>
	4. Replace BCM.	BCS-15
Driver side power window cannot be operated	1.Check driver side power window motor circuit	<u>GW-31</u>
Driver side power willdow carriot be operated	2. Replace the power window main switch.	<u>GW-42</u>
	Check power window sub-switch power supply and ground circuit	<u>GW-43</u>
Passenger side power window cannot be operated.	2. Check power window serial link	<u>GW-40</u>
	3. Check passenger side power window motor circuit	<u>GW-31</u>
	4. Replace BCM.	BCS-15
Anti-pinch system does not operate normally (driver	Door window sliding part malfunction A foreign material adheres to window glass or grass run rubber. Glass run rubber wear or deformation. Sash is tilted too much, or not enough.	_
side).	2. Limit switch adjusting	<u>GW-47</u>
	3. Check limit switch circuit (driver side)	<u>GW-32</u>
	4. Check encoder circuit (driver side)	<u>GW-35</u>
Anti-pinch system does not operate normally (passenger	Door window sliding part malfunction A foreign material adheres to window glass or grass run rubber. Glass run rubber wear or deformation. Sash is tilted too much, or not enough.	_
side).	2. Limit switch adjusting	<u>GW-47</u>
	3. Check limit switch circuit (passenger side)	<u>GW-33</u>
	4. Check encoder circuit (passenger side)	<u>GW-37</u>

Е

Α

В

F

INFOID:0000000004658104

Н

GW

J

\ /I

Ν

0

Ρ

< SERVICE INFORMATION >

Symptom	Diagnoses / service procedure	Reference page
	Check the retained power operation mode setting.	<u>GW-28</u>
Power window retained power operation does not operate properly.	2. Check door switch	<u>GW-38</u>
ato proposity.	3. Replace BCM.	BCS-15
	1. Check door switch	<u>GW-38</u>
	2. Limit switch adjusting	<u>GW-47</u>
Automotic window adjusting function does not appear	3. Check limit switch circuit (driver side)	<u>GW-32</u>
Automatic window adjusting function does not operate.	4. Check limit switch circuit (passenger side)	<u>GW-33</u>
	5. Check power window serial link	<u>GW-40</u>
	6. Replace BCM.	BCS-15
Door not an existe by the least ordinder quiteb	Check door key cylinder switch	<u>GW-44</u>
Does not operate by the key cylinder switch.	2. Replace the power window main switch.	<u>EI-28</u>
Developing developing with the second formation	Check power window serial link	<u>GW-40</u>
Power window lock switch does not function.	2. Replace the power window main switch.	<u>EI-28</u>
Auto operation does not operate but manual operate nor-	Check encoder circuit (driver side)	<u>GW-35</u>
mally (driver side)	2. Replace power window main switch	<u>EI-28</u>
Auto operation does not operate but manual operate nor-	Check encoder circuit (passenger side)	<u>GW-37</u>
mally (passenger side)	2. Replace power window sub-switch	<u>EI-28</u>

Check BCM Power Supply and Ground Circuit

INFOID:0000000004658105

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-19, "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.

2.CHECK POWER SUPPLY CIRCUIT

- Turn ignition switch ON.
- 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

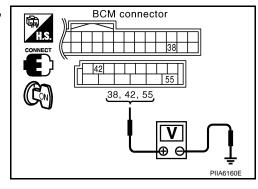
OK or NG

OK >> GO TO 3.

NG >> Check BCM power supply circuit for open or short.

3. CHECK GROUND CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM connector.



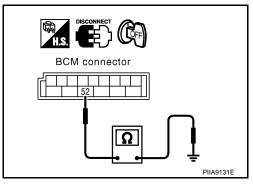
< SERVICE INFORMATION >

- 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.



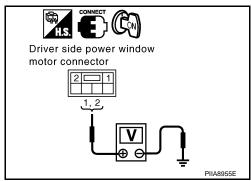
INFOID:0000000004658106

Check Drive Side Power Window Motor Circuit

1. CHECK POWER WINDOW MAIN SWITCH OUTPUT SIGNAL

- Turn ignition switch ON.
- Power window main switch operate, check voltage between driver side power window motor connector and ground.

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



OK or NG

OK >> Replace driver side power window motor.

NG >> GO TO 2.

2.CHECK POWER WINDOW MAIN SWITCH CIRCUIT

- Turn ignition switch OFF.
- Disconnect power window main switch and driver side power window motor connector.
- 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): Continuity should exist. 11 (G) - 1 (G) : Continuity should exist.

OK or NG

OK >> Further inspection is necessary. Refer to symptom

NG >> Repair or replace harness.

Driver side power window Power window main switch connector motor connector 8, 11 PIIA8376F

INFOID:0000000004658107

Check Passenger Side Power Window Motor Circuit

1. CHECK POWER WINDOW SUB-SWITCH OUTPUT SIGNAL

- 1. Turn ignition switch ON.
- Power window sub-switch operate, check voltage between passenger side power window motor connector and ground.

2008 & 2009 350Z

GW-31 Revision: 2009 October

В

Α

D

Е

F

Н

GW

K

M

Ν

< SERVICE INFORMATION >

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

Passenger side power window motor connector

OK or NG

OK >> Replace passenger side power window motor.

NG >> GO TO 2.

$2.\mathsf{CHECK}$ 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.

Passenger side power window sub-switch connector 89 1, 2 PIIA8377E

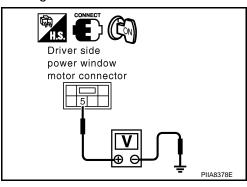
INFOID:0000000004658108

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)
Commodor	(+)	(-)	Condition	(Approx.)
D9	5 (V)	Ground	Driver side door window is between fully-open and just before fully-closed po- sition (ON)	0
פּט	5 (Y)		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

- Turn ignition switch OFF.
- 2. Disconnect driver side power window motor connector.

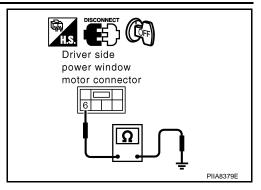
< SERVICE INFORMATION >

- 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.



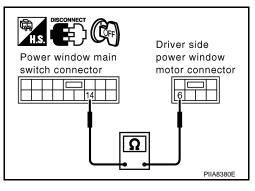
3. CHECK HARNESS CONTINUITY

- 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.

OK or NG

OK >> Replace power window main switch.

NG >> Repair or replace harness.



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.

OK or NG

OK >> GO TO 5.

NG >> Repair or replace harness.

Power window main switch connector motor connector

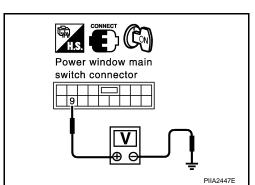
5. CHECK POWER WINDOW MAIN SWITCH OUTPUT SIGNAL

- 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.

OK or NG

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

NG >> Replace power window main switch.



INFOID:0000000004658109

Check Limit Switch Circuit (Passenger Side)

1. CHECK POWER WINDOW LIMIT SWITCH SIGNAL

1. Turn ignition switch ON.

Revision: 2009 October **GW-33** 2008 & 2009 350Z

GW

Α

В

D

J

K

L

M

Ν

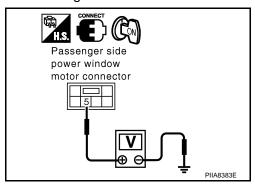
 \circ

Р

< SERVICE INFORMATION >

2. Check voltage between passenger side power window motor connector and ground.

Connector	Terminals (Wire color)		Condition	Voltage (V) (Approx.)
Connector	(+) (-)		Condition	
D38	5 (BR)	Ground	Passenger side door win- dow is between fully-open and just before fully-closed position (ON)	0
D30	3 (БК)		Passenger 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.

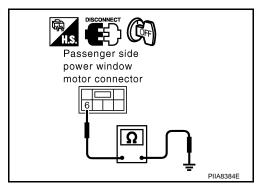
2. CHECK LIMIT SWITCH GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect 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

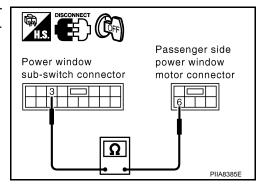
- 1. Disconnect power window sub-switch connector.
- Check continuity between power window sub-switch connector D37 terminal 3 and passenger side power window motor connector D38 terminal 6.

3 (GY) – 6 (GY) : Continuity should exist.

OK or NG

OK >> Replace power window sub-switch.

NG >> Repair or replace harness.



4. CHECK HARNESS CONTINUITY

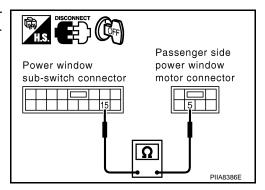
- 1. Disconnect power window sub-switch connector.
- Check continuity between power window sub-switch connector D37 terminal 15 and passenger side power window motor connector D38 terminal 5.

15 (BR) – 5 (BR) : Continuity should exist.

OK or NG

OK >> GO TO 5.

NG >> Repair or replace harness.



< SERVICE INFORMATION >

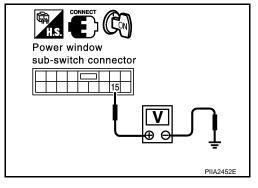
$5.\mathsf{CHECK}$ POWER WINDOW SUB-SWITCH OUTPUT SIGNAL

- 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.

OK or NG

OK >> Further inspection is necessary. Refer to symptom

NG >> Replace power window sub-switch.



INFOID:0000000004658110

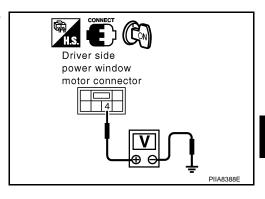
Check Encoder Circuit (Driver Side)

1.CHECK DRIVER SIDE POWER WINDOW MOTOR POWER SUPPLY

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

OK or NG

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



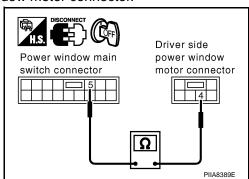
2. CHECK HARNESS CONTINUITY

- 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.

OK or NG

OK >> Replace power window main switch.

NG >> Repair or replace harness.



3. CHECK ENCODER GROUND

- Turn ignition switch OFF.
- 2. Disconnect driver side power window motor connector.

G

Н

В

D

GW

K

M

Ν

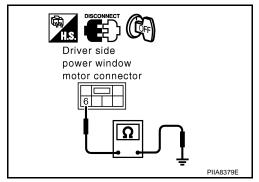
Р

< SERVICE INFORMATION >

Check continuity between driver side power window motor connector D9 terminal 6 and ground.

OK or NG

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



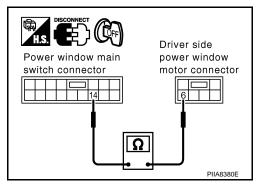
4. CHECK ENCODER GROUND CIRCUIT

- 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.

OK or NG

OK >> Replace power window main switch.

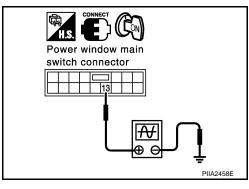
NG >> Repair or replace harness.



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.

Connector	nector (+) (-) Condition		Signal	
			Ochalion	(Reference valve)
D7	13 (GY)	Ground	DOWN	(V) 6 4 2 0 10mS



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.

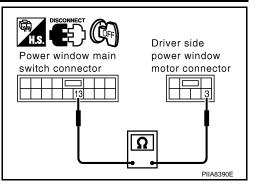
< SERVICE INFORMATION >

- 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.



INFOID:0000000004658111

Check Encoder Circuit (Passenger Side)

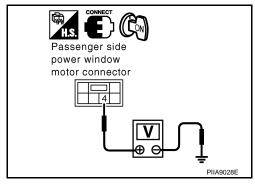
1. CHECK PASSENGER SIDE POWER WINDOW MOTOR POWER SUPPLY

- 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.



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.



OK or NG

NG

OK >> Replace power window sub-switch.

>> Repair or replace harness.

Power window sub-switch connector Pliasenger side power window motor connector

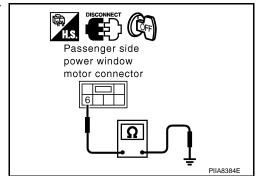
3. CHECK ENCODER GROUND

- 1. Turn ignition switch OFF.
- Disconnect passenger side power window motor connector.
- 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 5. NG >> GO TO 4.



4. CHECK ENCODER GROUND CIRCUIT

Н

GW

Α

В

D

J

K

L

M

Ν

0

Р

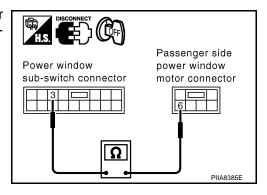
< SERVICE INFORMATION >

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

OK or NG

OK >> Replace power window sub switch.

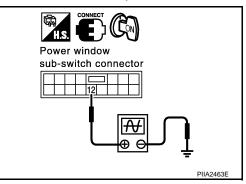
NG >> Repair or replace harness.



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.

Connector	Terminals (Wire color)		Condition	Signal	
Comicolor	(+)	(-)	Condition	(Reference valve)	
D37	12 (PU)	Ground	DOWN	(V) 6 4 2 0 	



OK or NG

OK >> Replace power window sub-switch.

NG >> GO TO 6.

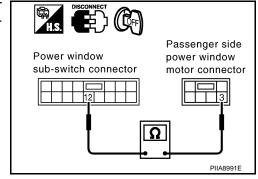
6. CHECK ENCODER CIRCUIT

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

OK or NG

OK >> Replace passenger side power window motor.

NG >> Repair or replace harness.



INFOID:0000000004658112

Check Door Switch

1. CHECK DOOR SWITCH INPUT SIGNAL

(I) 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	
	CLOSE	: OFF	

< SERVICE INFORMATION >

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

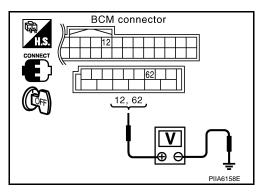
Α

В

Without CONSULT-III

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

Item	Connector		Terminals (Wire color)		Voltage (V) (Approx.)	
		(+)	(-)		(Αρρίολ.)	
Passenger side	M90	12 (P)		OPEN	0	
door switch	IVIO	12 (1)	Ground	CLOSE	Battery voltage	
Driver side door B83		62 (L)	Giodila	OPEN	0	
switch	D03	02 (L)		CLOSE	Battery voltage	



OK or NG

OK >> Door switch is OK.

NG >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

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

12 (P) – 1 (P) : Continuity should exist. 62 (L) – 1 (L) : Continuity should exist.

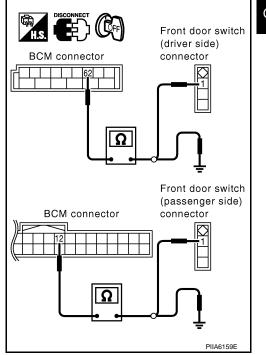
4. Check continuity between BCM connector M90, B83 terminals 12, 62 and ground.

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.



3. CHECK DOOR SWITCH

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

Revision: 2009 October GW-39 2008 & 2009 350Z

Е

D

F

Н

GW

J

K

L

M

Ν

Ρ

< SERVICE INFORMATION >

Teri	minal	Condition of door switch	Continuity
1	Ground part of	Pushed	No
ı	door switch	Released	Yes

Door switch

OK or NG

OK >> GO TO 4.

NG >> Replace malfunction door switch.

4. CHECK BCM OUTPUT SIGNAL

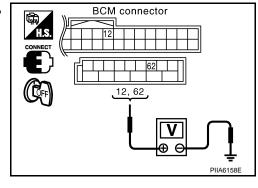
- 1. Connect BCM connector.
- Check voltage between BCM connector M90, B83 terminals 12, 62 and ground.

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.



INFOID:0000000004658113

Check Power Window Serial Link

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

(P) With CONSULT-III

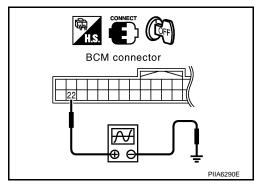
Check door lock and unlock switch ("LOCK SW DR/AS", "UNLK SW DR/AS") in DATA MONITOR mode with CONSULT-III. Refer to <u>BL-33</u>, "CONSULT-III Function (BCM)".

Monitor item	Condition
CDL LOCK SW	LOCK: ON
CDE LOCK SW	UNLOCK: OFF
CDL UNLOCK SW	LOCK: OFF
ODE 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".

Connector	Terminals	(Wire color)	Signal	
Connector	(+)	(–)	(Reference valve)	
M90	22 (Y)	Ground	(V) 15 10 5 0 10 ms	



< SERVICE INFORMATION >

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-65</u>, "CONSULT-III Application Item for BCM".

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.

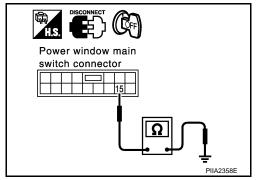
3. CHECK POWER WINDOW SWITCH GROUND

1. Turn ignition switch OFF.

- 2. Disconnect power window main switch and power window sub-switch connector.
- 3. Check continuity between power window main switch connector D7 terminals 15 and ground.

15 (B) – Ground

: Continuity should exist.



 Check continuity between power window sub-switch connector D37 terminal 11 and ground.

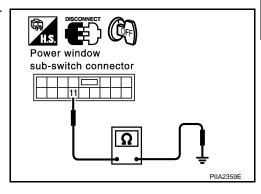
11 (B) - Ground

: Continuity should exist.

OK or NG

OK >> GO TO 4.

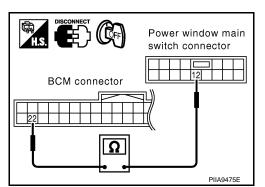
NG >> Repair or replace harness.



4. CHECK POWER WINDOW SERIAL LINK CIRCUIT

- 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.



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

GW

Н

Α

D

Е

F

J

K

Ν

Р

< SERVICE INFORMATION >

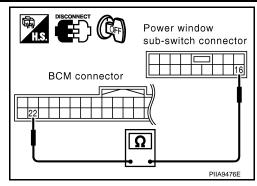
22 (Y) - 16 (SB)

: Continuity should exist.

OK or NG

OK >> Replace power window main switch.

NG >> Repair or replace harness.



Check Power Window Main Switch Power Supply and Ground Circuit

INFOID:0000000004658114

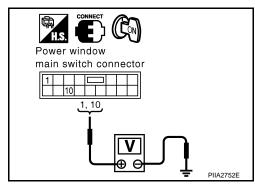
1. CHECK POWER SUPPLY CIRCUIT

- 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 10 (BR) – Ground : Battery voltage

OK or NG

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



2. CHECK GROUND CIRCUIT

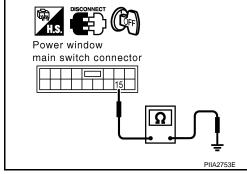
- 1. Turn ignition switch OFF.
- 2. Disconnect power window main switch connector.
- Check continuity between power window main switch connector D7 terminal 15 and ground.

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.



${f 3.}$ CHECK POWER WINDOW MAIN SWITCH POWER SUPPLY CIRCUIT

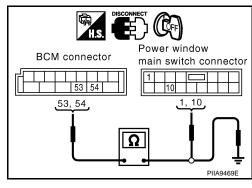
- 1. Turn ignition switch OFF.
- 2. Disconnect BCM and power window main switch connector.
- Check continuity between BCM connector M91 terminals 53, 54 and power window main switch connector D7 terminal 1, 10.

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.

53 (Y/B) – Ground : Continuity should not exist. 54 (W) – Ground : Continuity should not exist.

OK or NG



< SERVICE INFORMATION >

OK >> GO TO 4.

NG >> Repair or replace harness.

4. CHECK BCM OUTPUT SIGNAL

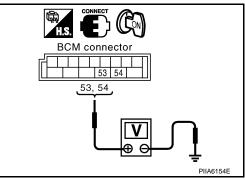
- Connect BCM connector.
- 2. Turn ignition switch ON.
- Check voltage between BCM connector M91 terminals 53, 54 and ground.

53 (Y/B) - Ground : Battery voltage 54 (W) - Ground : Battery voltage

OK or NG

OK >> Check condition of harness and connector.

NG >> Replace BCM.



Check Power Window Sub-switch Power Supply and Ground

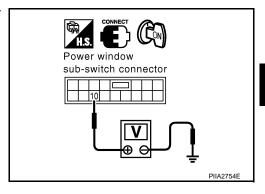
1. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch ON. Check voltage between power window sub-switch connector D37 terminal 10 and ground.

> 10 (W) - Ground : Battery voltage

OK or NG

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



2. CHECK GROUND CIRCUIT

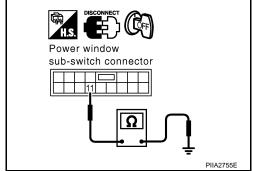
- Turn ignition switch OFF.
- Disconnect power window sub-switch connector. 2.
- Check continuity between power window sub-switch connector D37 terminal 11 and ground.

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

- Turn ignition switch OFF.
- Disconnect BCM and power window sub-switch connector.

GW

Н

Α

В

D

Е

INFOID:0000000004658115

K

M

Ν

Р

< SERVICE INFORMATION >

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

INFOID:0000000004658116

Power window

Ω

sub-switch connector

BCM connector

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

(P) With CONSULT-III

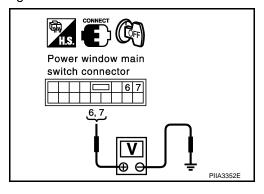
Check door key cylinder switch ("KEY CYL LK-SW", "KEY CYL UN-SW") in "DATA MONITOR" mode with CONSULT-III.

Monitor item	Condition
KEY CYL LK- SW	Lock: ON
RETUTE ER- SW	Neutral/Unlock: OFF
KEY CYL UN- SW	Unlock: ON
RETUTE ON- 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) (Approx.)	
Connection	(+)	(-)	recy position		
	6 (B/R)		Neutral/Unlock	5	
D7	O (B/IV)	Ground	Lock	0	
<i>D1</i>	7 (SB)	Oround	Neutral/Lock	5	
	7 (35)		Unlock	0	



OK or NG

OK >> Door key cylinder switch is OK.

NG >> GO TO 2.

2.check door key cylinder switch circuit

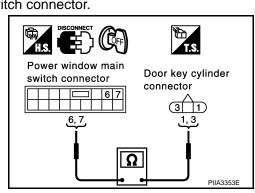
- Turn ignition switch OFF.
- 2. Disconnect power window main switch and door key cylinder switch connector.
- Check continuity between power window main switch connector D7 terminal 6, 7 and door key cylinder switch connector D12 terminals 1, 3.

6 (B/R) – 3 (B/R) : Continuity should exist. 7 (SB) – 1 (SB) : Continuity should exist.

OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.



< SERVICE INFORMATION >

3. CHECK DOOR KEY CYLINDER SWITCH GROUND

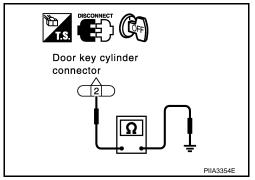
Check continuity between door key cylinder switch connector D12 terminal 2 and ground.

2 (B) – Ground : Continuity should exist.

OK or NG

OK >> GO TO 4.

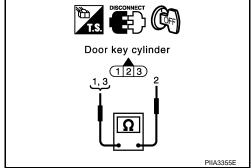
NG >> Repair or replace harness.



4. CHECK DOOR KEY CYLINDER SWITCH

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

Connector	Terr	minal	Key position	Continuity
	1		Neutral/Lock	No
D12	'	2	Unlock	Yes
D12	2		Neutral/Unlock	No
	3		Lock	Yes



OK or NG

OK >> GO TO 5.

NG >> Replace door key cylinder switch.

$5. \mathsf{CHECK}$ POWER WINDOW MAIN SWITCH OUTPUT SIGNAL

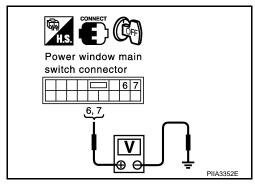
- 1. Connect power window main switch connector.
- 2. Check voltage between power window main switch connector D7 terminals 6, 7 and ground.

6 (B/R) – Ground : Battery voltage 7 (SB) – Ground : Battery voltage

OK or NG

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

NG >> Replace power window main switch.



Н

Α

В

D

Е

F

GW

K

L

M

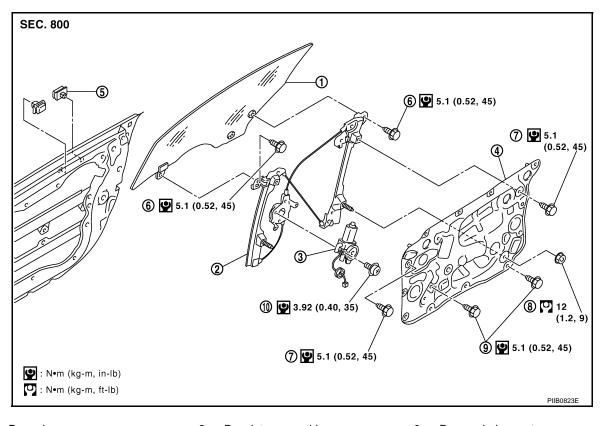
Ν

0

Р

FRONT DOOR GLASS AND REGULATOR

Removal and Installation



- 1. Door glass
- 4. Module assembly
- 7. Regulator mounting bolt
- 10. Power window motor mounting bolt
- 2. Regulator assembly
- 5. Glass stabilizer
- 8. Regulator mounting nut
- 3. Power window motor

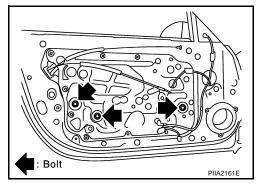
INFOID:0000000004658117

- 6. Glass mounting bolt
- 9. Module mounting bolt

DOOR GLASS

Removal

- 1. Remove front door finisher. Refer to El-28.
- 2. Operate power window main switch to raise/lower door window until glass mounting bolts can be seen.
- 3. Remove the glass mounting bolts.



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.

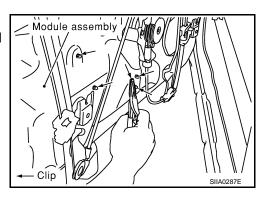
REGULATOR ASSEMBLY

Removal

FRONT DOOR GLASS AND REGULATOR

< SERVICE INFORMATION >

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



Installation

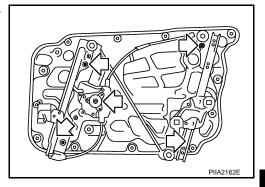
Install in the reverse order of removal.

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.



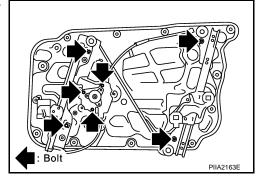
Disassembly and Assembly

INFOID:0000000004658118

REGULATOR ASSEMBLY

Disassembly

Remove power window motor and guide rail from module assembly.



Assembly

Assemble in the reverse order of removal.

Inspection after Installation

INFOID:0000000004658119

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

Revision: 2009 October

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

1. With the door open, lift up and hold the power window switch until the door glass is fully closed.

GW

Н

Α

В

D

Е

300

N

M

С

Р

GW-47 2008 & 2009 350Z

FRONT DOOR GLASS AND REGULATOR

< SERVICE INFORMATION >

Get inside the vehicle and close the door.

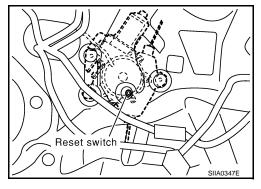
NOTE:

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 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.

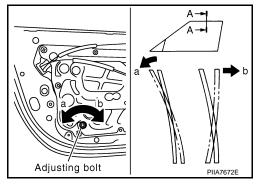


FITTING INSPECTION

- 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-110</u>, <u>"Repairing Method for Water Leakage Around Doors"</u>.



IGNITION SWITCH ON OR START

BATTERY

INSIDE MIRROR

Wiring Diagram - I/MIRR -

INFOID:0000000004658120

Α

В

C

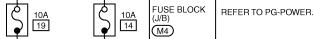
D

F

Н

GW

GW-I/MIRR-01



Е

R/W M93

B/OR

AUTO ANTI-DAZZLING INSIDE MIRROR R4

K

M

Ν

0

Р

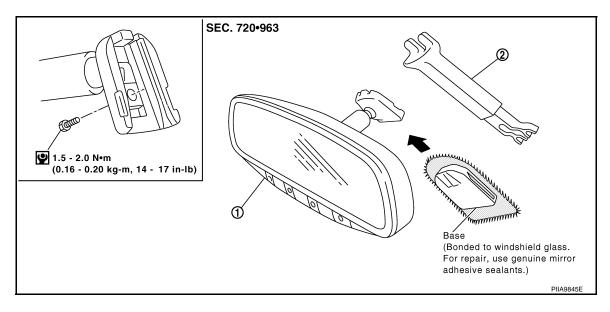
1 2 3 4 5 6 7 8 9 10 11 12 W

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

TIWT2276E

Removal and Installation

INFOID:0000000004658121



1. Inside mirror

2. Inside mirror finisher

REMOVAL

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

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Apply Genuine Mirror Adhesive or equivalent to bonding surface of mounting bracket. Refer to GI-42.

Component Parts and Harness Connector Location

INFOID:0000000004658122 Battery 40A **F** 11 10 22 10A 9 21 72 81 73 82 -10A 74 83 19 75 84 7 18 76 85 **6** 17 86 5 16 87 4 15 78 88 3 14 79 Fuse and fusible Fuse block (J/B) fuse layout IPDM E/R fuse layout link box View with dash side LH removed View with cowl top removed View with console finisher removed Fuse block (J/B) A/C controller (E8)(E9) connector (M206) (M4) (M5)(E101) (E102) BCM (Body Control Module) (M90) (M91) Unified meter and A/C amp Fuse and fusible link box (M49) (M50) 0 000000 (ð) Réar window defogger Rear window defogger connector connector Rear window defogger switch (B202) (B203) : Roadste (built in A/C controller) (M206) (D104) (D211) : Coupe PIIB3830E

System Description

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.

Ground is supplied

- to BCM terminal 52
- through body grounds M30, and M66.
- to unified meter and A/C amp. terminal 29 and 30
- through body grounds M30 and M66.

Α

D

Н

GW

INFOID:0000000004658123

L

N

to internal CPU of IPDM E/R terminal 38 and 60

< SERVICE INFORMATION >

through body grounds E17, E43, B102 (with VDC system or navigation system) and F152 (without VDC system and navigation system).

When A/C controller (rear window defogger switch) is turned ON,

Rear window defogger switch signals are transmitted,

- through A/C controller terminal 87
- to unified meter and A/C amp.

Then ground is supplied

- to BCM terminal 9
- through unified meter and A/C amp. terminal 38
- through unified meter and A/C amp. terminal 30
- through body grounds M30 and M66.

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

Then it sends rear window defogger switch signals to IPDM E/R via DATA LINE (CAN H, CAN L).

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

Ground is supplied

- to rear window defogger relay terminal 2
- through IPDM E/R terminal 52
- through internal CPU of IPDM E/R
- through IPDM E/R terminal 60
- 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.

When rear window defogger relay is turned ON,

Signals are transmitted

- to rear window defogger terminal 1
- through rear window defogger relay terminals 5 and 7 (For Coupe)
- through rear window defogger relay terminal 5. (For Roadster)

Rear window defogger terminal 2 is grounded through body ground D212. (For Coupe)

Rear window defogger terminal 2 is grounded through body ground B5, B6 and T14. (For Roadster)

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

When rear window defogger relay is turned ON,

Power is supplied

- 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.

Door mirror defogger (Driver side and passenger side) terminal 1 is grounded through body grounds M30 and M66.

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

When rear window defogger relay is turned ON,

Power 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

Then ground is supplied

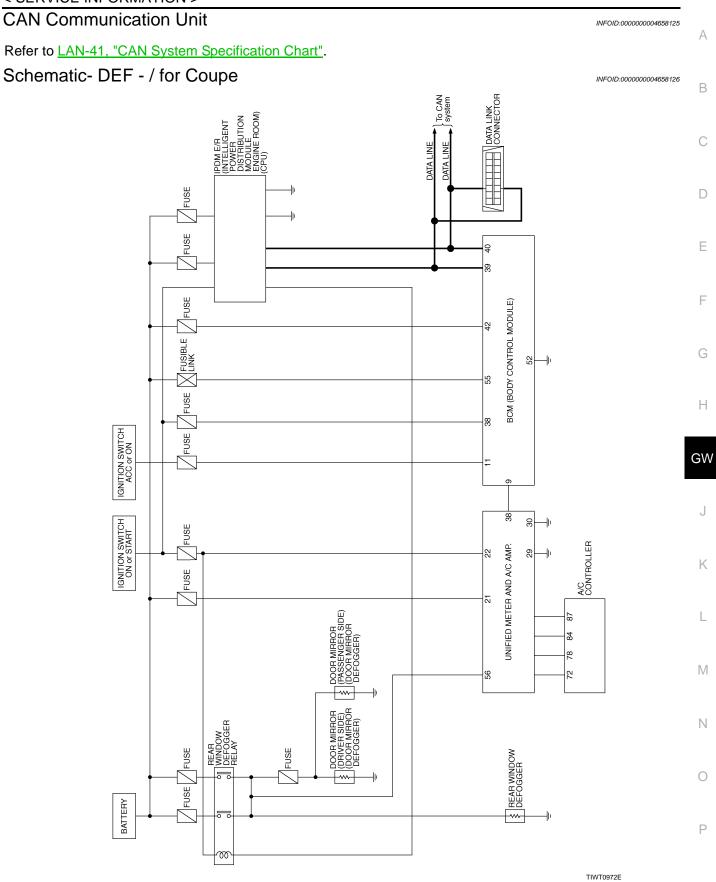
- to A/C controller terminal 78
- through unified meter and A/C amp.
- through unified meter and A/C amp. terminal 29 and 30
- through body grounds M30 and M66.

This energizes rear window defogger indicator.

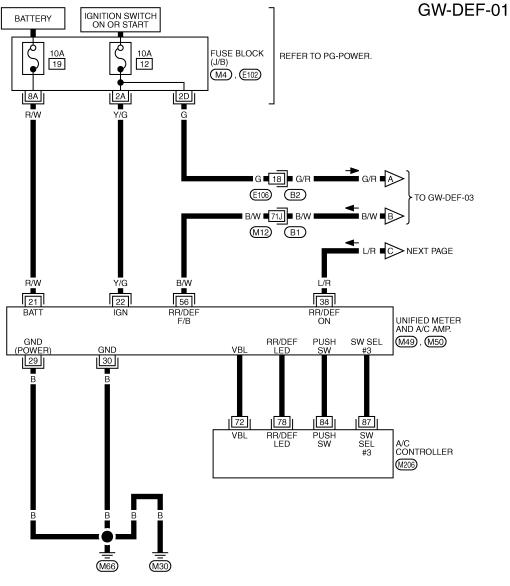
CAN Communication System Description

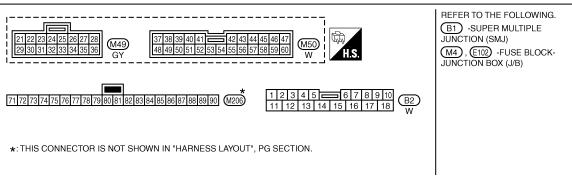
INFOID:0000000004658124

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.

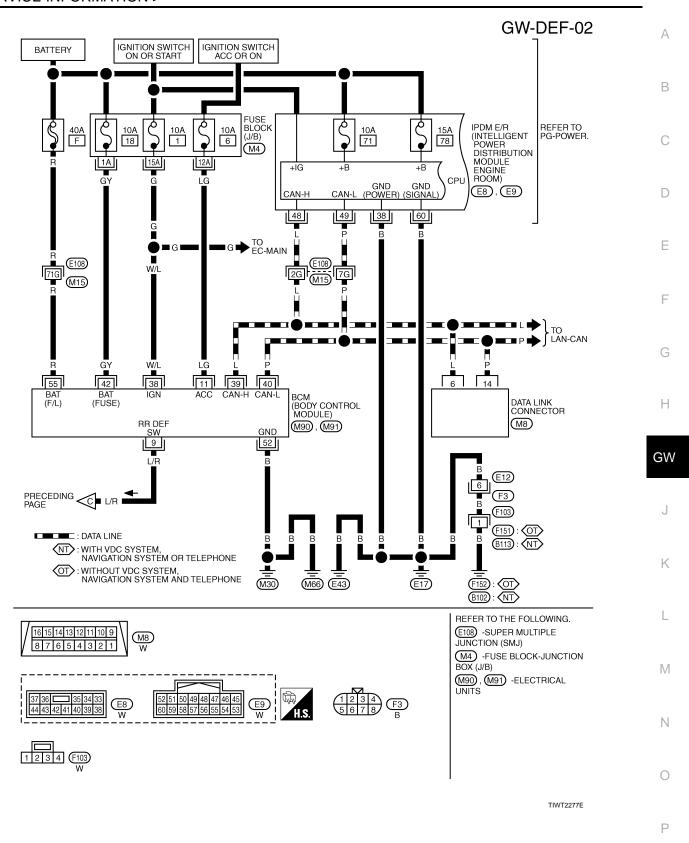


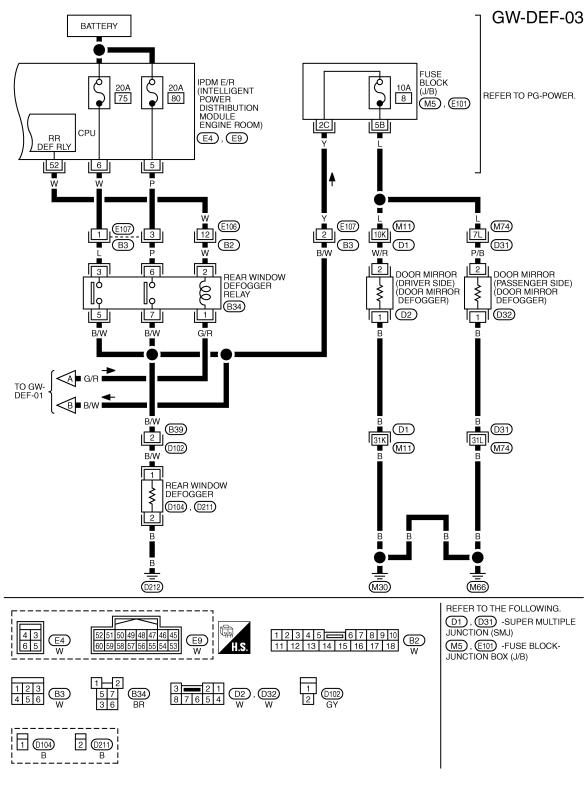
Wiring Diagram - DEF - / for Coupe BATTERY GW-DEF-01 GW-DEF-01



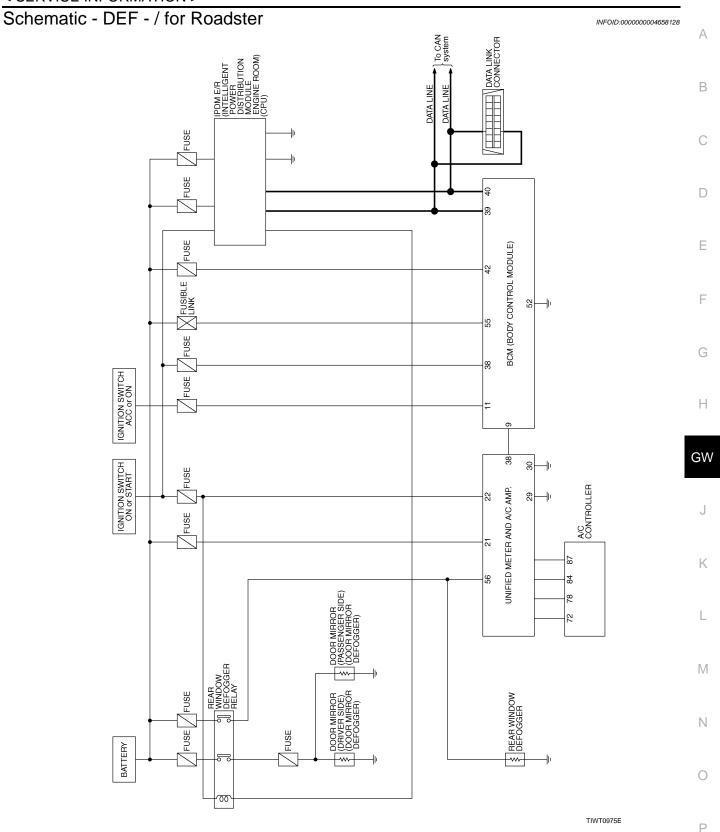


TIWT1595E



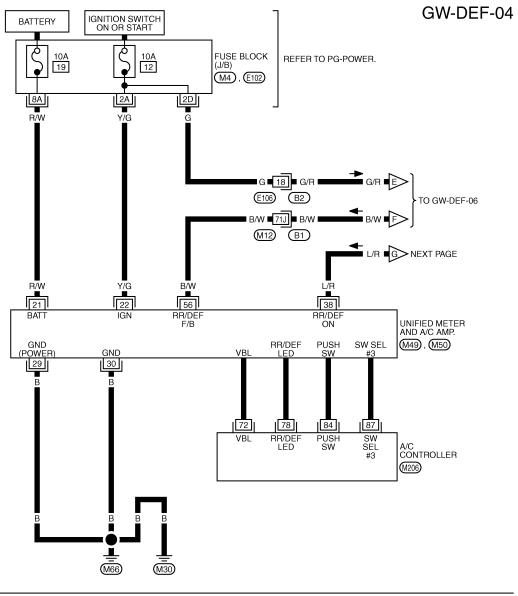


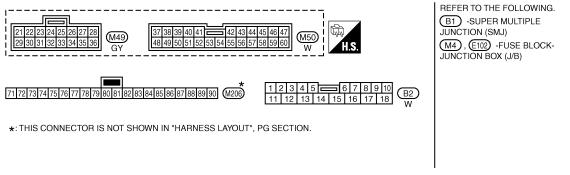
TIWT1597E



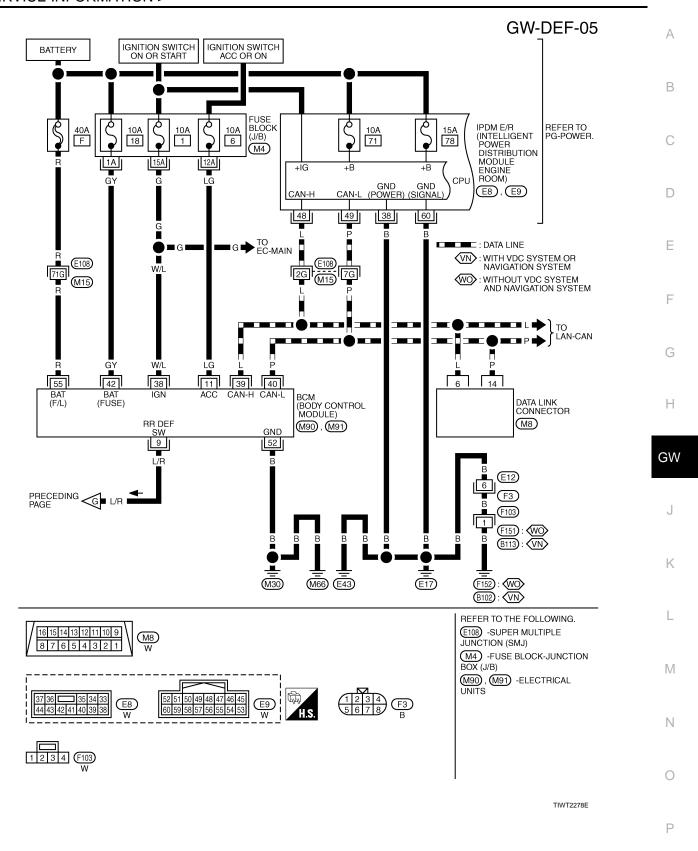
Wiring Diagram - DEF - / for Roadster

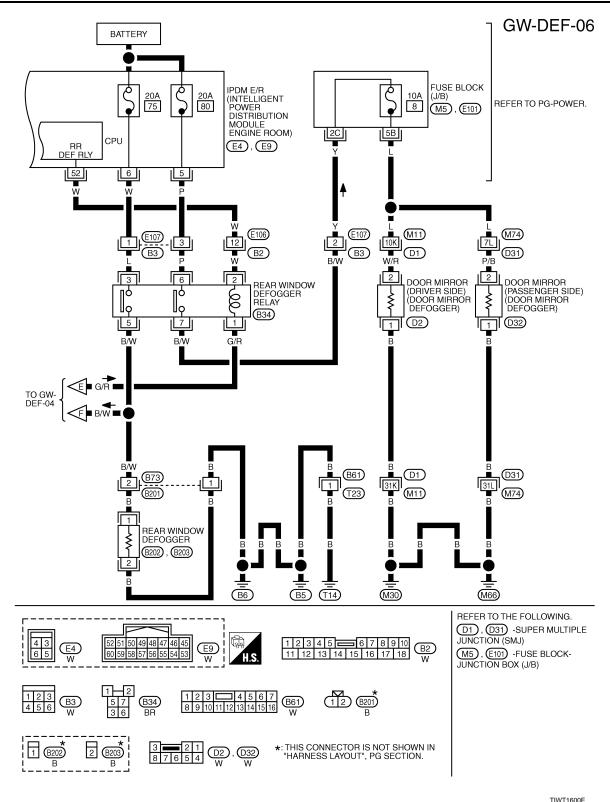
INFOID:0000000004658129





TIWT1598E





Terminal and Reference Value for BCM

IVVIIOOOL

INFOID:0000000004658130

Ter- minal	Wire Color	Item	Signal in- put/output	Condition		Voltage (V) (Approx.)
9	L/R	Rear window defogger	Output	Rear window defogger switch	: Pressed	0
9	L/IX	switch signal	Output	iteal willdow delogger switch	: OFF	5

< SERVICE INFORMATION >

Ter- minal	Wire Color	Item	Signal in- put/output	Condition	Voltage (V) (Approx.)
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

INFOID:0000000004658131

Α

В

D

GW

Ter- minal	Wire Color	Item	Signal in- put/output	Condition		Voltage (V) (Approx.)
5	Р	Battery power supply	Output	_	_	
6	W	Battery power supply	Output	_		Battery voltage
38	В	Ground (Power)	_	_		0
48	L	CAN-H	Input/Out- put	_		_
49	Р	CAN-L	Input/Out- put	_		_
52	W	Rear window defogger relay control signal	Input	Rear window defogger switch	: ON : OFF	0 Battery voltage
60	В	Ground (Signal)	_	_		0

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

INFOID:0000000004658132

Ter- minal	Wire Color	Item	Signal in- put/output	Condition		Voltage (V) (Approx.)
21	R/W	Power source (Fuse)	Input	_		Battery voltage
22	Y/G	Ignition switch ON power supply (ON or START)	Input	Ignition switch (ON or START position)		Battery voltage
29	В	Ground (Power)	_	_		0
30	В	Ground	_	-		0
38	L/R	Rear window defogger	Input	Input Dear window defeager quiteb		0
36	38 L/R	switch signal	Input I	Rear window defogger switch.	: OFF	5
56	B/W	Rear window defogger	Innut	Door window defeager switch	: ON	Battery voltage
36	D/VV	ON signal	Input	Rear window defogger switch	: OFF	0
72		Indicator power supply	Input	Ignition switch (ON or START position)		5
70		Rear window defogger	lament	December de la constant	: ON	0
78	_	indicator signal	Input	Rear window defogger switch	: OFF	5
84	_	A/C control push switch power supply	Input	Ignition switch (ON or START position)		5

< SERVICE INFORMATION >

Ter- minal	Wire Color	Item	Signal in- put/output	Condition		Voltage (V) (Approx.)
87		Rear window defogger	Input	Rear window defogger switch	: ON	0
87 —		switch ON signal	Input	ixear willdow delogger switch	: OFF	5

CONSULT-III Function (BCM)

INFOID:0000000004658133

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.	
KLAK DLI OGGLK	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)

INFOID:0000000004658134

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.	
REAR DEFOGGER	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-51, "System Description".
- According to the trouble diagnosis chart, repair or replace the cause of the malfunction. Refer to <u>GW-63</u>. <u>"Trouble Diagnosis Symptom Chart"</u>.
- Does rear window defogger operate normally? YES: GO TO 5, NO: GO TO 4.

< SERVICE INFORMATION >

5. INSPECTION END

Trouble Diagnosis Symptom Chart

INFOID:0000000004658136

Α

В

D

Е

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

Symptom	Diagnoses / service procedure	Refer to page
	CAN communication inspection using CON- SLUT-III (self-diagnosis)	BCS-2
	2. Check IPDM E/R operation	<u>GW-63</u>
Rear window defogger does not operate.	3. Check rear window defogger switch circuit	<u>GW-63</u>
	4. Check rear window defogger power supply circuit	<u>GW-64</u>
	5. Replace IPDM E/R.	PG-23
Rear window defogger does not response but door mirror defoggers operate.	Check rear window defogger circuit	<u>GW-66</u> *1 <u>GW-66</u> *2
to deleggere eperater	2. Check filament	<u>GW-69</u>
Both of door mirror defoggers do not response but rear window defogger operates.	Check door mirror defogger power supply circuit	<u>GW-67</u>
Driver side door mirror defogger does not operate.	Check driver side door mirror defogger circuit	<u>GW-68</u>
Passenger side door mirror defogger does not operate.	Check passenger side door mirror defogger circuit	<u>GW-69</u>

^{*1:} For Coupe

Check IPDM E/R Operation

INFOID:0000000004658137

INFOID:00000000004658138

1. CHECK IPDM E/R OPERATION

(P) With CONSULT-III

Check IPDM E/R "REAR DEFOGGER" in "ACTIVE TEST" mode with CONSULT-III. Refer to GW-62, "CONSULT-III Function (IPDM E/R)".

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

YES or NO

YES >> Refer to <u>GW-63</u>, "<u>Trouble Diagnosis Symptom Chart</u>". (Diagnosis/service procedure 3) >> Refer to <u>GW-63</u>, "<u>Trouble Diagnosis Symptom Chart</u>". (Diagnosis/service procedure 4)

Check Rear Window Defogger Switch Circuit

1. CHECK REAR WINDOW DEFOGGER SWITCH OPERATION

(P) With CONSULT-III

Check ("REAR DEF SW" and "IGN ON SW") in DATA MONITOR mode with CONSULT-III. Refer to <u>GW-62, "CONSULT-III Function (BCM)"</u>.

When rear defogger switch is turned to ON

REAR DEF SW :ON
When ignition switch is turned to ON
IGN ON SW :ON

(R) With out CONSULT-III

Turn ignition switch ON.

2. Check voltage between BCM connector ground.

GW

M

Ν

Н

Revision: 2009 October **GW-63** 2008 & 2009 350Z

^{*&}lt;sup>2</sup>: For Roadster

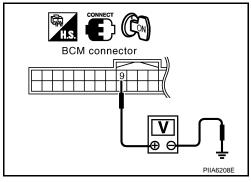
< SERVICE INFORMATION >

Connector	Terminal (Wire color)	Condition		Voltage (V)
Connector	(+)	(–)			(Approx.)
M90	9 (L/R)	(L/R) Ground	Rear window defogger switch	: ON	0
IVIO	3 (L/IX)	Ground		: OFF	5

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

- Turn ignition switch OFF.
- 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

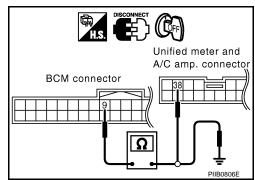
4. Check continuity between BCM harness connector M90 terminal 9 and ground

> 9 (L/R) - Ground : Continuity should not exist

OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.



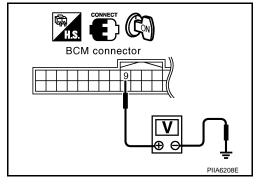
3.CHECK BCM OUTPUT SIGNAL

- Connect BCM connector.
- Turn ignition switch ON.
- Check voltage between BCM connector M90 terminal 9 and ground.

OK or NG

OK >> Replace unified meter and A/C amp.

NG >> Replace BCM.



Check Rear Window Defogger Power Supply Circuit

INFOID:0000000004658139

1. CHECK FUSE

Check 10A fuse [No. 12, located in fuse block (J/B)].

NOTE:

Refer to GW-51, "Component Parts and Harness Connector Location".

OK or NG

OK >> GO TO 2.

NG >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse, refer to PG-

2.rear window defogger relay power supply circuit inspection

- Turn ignition switch OFF.
- 2. Remove rear window defogger relay.
- Turn ignition switch ON.

< SERVICE INFORMATION >

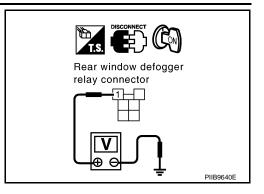
4. Check voltage between rear window defogger relay connector B34 terminal 1 and ground.

1 (G/R) – Ground : Battery voltage

OK or NG

OK >> GO TO 3.

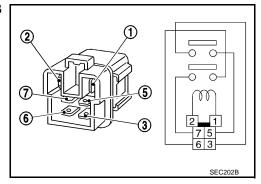
NG >> Repair or replace harness.



3.rear window defogger relay inspection

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

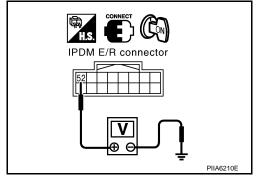
- 1. Installation rear window defogger relay.
- 2. Turn ignition switch ON.
- 3. Turn rear window defogger switch OFF.
- Check voltage between IPDM E/R connector E9 terminal 52 and ground.

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

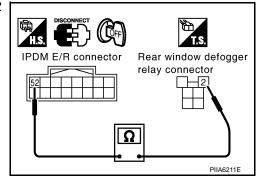
- 1. Turn ignition switch OFF.
- Disconnect IPDM E/R connector and rear window defogger relay.
- 3. Check continuity between IPDM E/R connector E9 terminal 52 and rear window defogger relay connector B34 terminal 2.



OK or NG

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

NG >> Repair or replace harness.



GW

Н

Α

В

D

J

M

Ν

0

Р

< SERVICE INFORMATION >

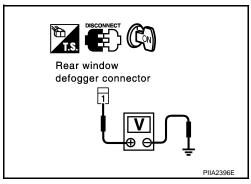
Check Rear Window Defogger Circuit / for Coupe

INFOID:0000000004658140

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)		Condition		Voltage [V] (Approx.)
	(+)	(–)			(дрргох.)
D104	1 (B/W)	W) Ground	Rear window de- fogger switch	: ON	Battery voltage
	1 (0/00)			: OFF	0



OK or NG

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

2.rear window defogger ground harness inspection

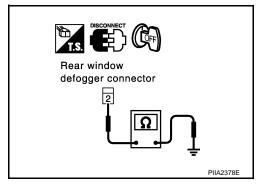
- 1. Turn ignition switch OFF.
- 2. Disconnect rear window defogger connector.
- 3. Check continuity between rear window defogger connector D211 terminal 2 and ground.

2 (B) – Ground : Continuity should exist

OK or NG

OK >> Rear window defogger circuit is OK.

NG >> Repair or replace harness.



3. CHECK HARNESS CONTINUITY

- 1. Turn ignition switch OFF.
- Disconnect rear window defogger relay connector.
- 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) : Continuity should exist. 7 (B/W) – 1 (B/W) : Continuity should exist.

 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.

Rear window defogger relay connector Solve the sear window defogger connector Rear window defogger connector

OK or NG

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

NG >> Repair or replace harness.

Check Rear Window Defogger Circuit / for Roadster

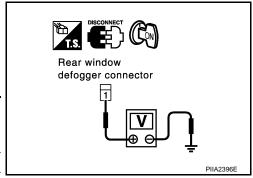
1. REAR WINDOW DEFOGGER POWER SUPPLY CIRCUIT INSPECTION

INFOID:0000000004658141

< SERVICE INFORMATION >

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

Connector	Terminal (Wire color)		Condition		Voltage [V] (Approx.)
	(+)	(-)			(дргох.)
B202	1 (B)	Ground	Rear window de- fogger relay	: ON	Battery voltage
	i (b)	Giodila		: OFF	0



OK or NG

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

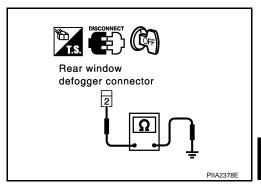
2.rear window defogger ground harness inspection

- 1. Turn ignition switch OFF.
- 2. Disconnect rear window defogger connector.
- 3. Check continuity between rear window defogger connector B203 terminal 2 and ground.

OK or NG

OK >> Rear window defogger circuit is OK.

NG >> Repair or replace harness.



3. CHECK HARNESS CONTINUITY

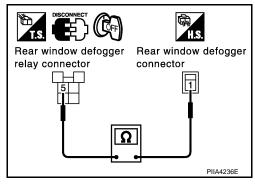
- 1. Turn ignition switch OFF.
- 2. Disconnect rear window defogger relay connector.
- Check continuity between rear window defogger relay connector B34 terminal 5 and rear window defogger connector B202 terminal 1.

OK or NG

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

Check Door Mirror Defogger Power Supply Circuit

NG >> Repair or replace harness.



INFOID:0000000004658142

1.CHECK FUSE

• Check 10A fuse [No. 8, located in fuse block (J/B)].

NOTE:

Refer to GW-51, "Component Parts and Harness Connector Location".

OK or NG

OK >> GO TO 2.

NG >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse, refer to \underline{PG} - $\underline{4}$.

2.DOOR MIRROR DEFOGGER POWER SUPPLY CIRCUIT INSPECTION 1 $\,$

Α

В

С

D

Е

F

G

Н

GW

K

M

Ν

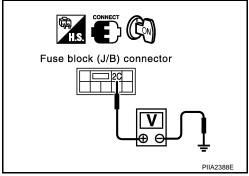
0

Р

< SERVICE INFORMATION >

- 1. Turn ignition switch ON.
- 2. Rear window defogger switch operate, check voltage between fuse block (J/B) connector and ground.

Connector	Terminal (Wire color)		Condition		Voltage [V] (Approx.)
	(+)	(-)			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
E101	2C (Y) Ground	Ground	Rear window de-	: ON	Battery voltage
		fogger switch : OFF	: OFF	0	



OK or NG

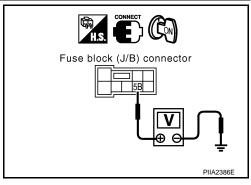
OK >> GO TO 3.

NG >> Repair or replace between harness.

${f 3.}$ DOOR MIRROR DEFOGGER POWER SUPPLY INSPECTION 2

Rear window defogger switch operate, check voltage between Fuse block (J/B) connector and ground.

Connector	Terminal (Wire color)		Condition		Voltage [V] (Approx.)
	(+)	(–)			(другох.)
M5	5R (I)	SB (L) Ground	Rear window defogger switch	: ON	Battery voltage
	3B (L)			: OFF	0



OK or NG

OK >> Repair or replace harness between fuse block (J/B) and door mirror defogger.

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

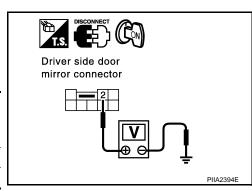
Check Driver Side Door Mirror Defogger Circuit

INFOID:0000000004658143

1. DOOR MIRROR DEFOGGER POWER SUPPLY CIRCUIT INSPECTION

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

Connector	Terminal (Wire color)		Condition		Voltage [V] (Approx.)
	(+)	(-)			(дрыох.)
D2	2 (W/R)	Ground	Rear window	: ON	Battery voltage
	2 (VV/IX)	Orodria	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.

< SERVICE INFORMATION >

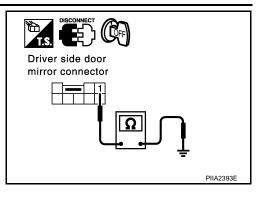
- Check continuity between driver side door mirror defogger connector D2 terminal 1 (B) and ground.
 - 1 (B) Ground

: Continuity should exist.

OK or NG

OK >> Check door mirror defogger filament continuity.

NG >> Repair or replace harness.



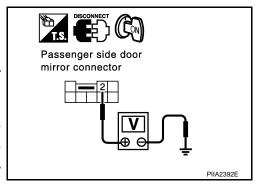
Check Passenger Side Door Mirror Defogger Circuit

INFOID:0000000004658144

1. DOOR MIRROR DEFOGGER POWER SUPPLY CIRCUIT INSPECTION

- 1. Turn ignition switch ON.
- 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	Terminal (Wire color)		Condition		Voltage [V] (Approx.)
	(+)	(-)			(дрыох.)
D32	2 (P/B)	Ground	Rear window defogger switch	: ON	Battery voltage
	2 (F/D)	Giodila		: OFF	0



OK or NG

OK >> GO TO 2.

NG >> Repair or replace harness.

2. DOOR MIRROR DEFOGGER GROUND HARNESS INSPECTION

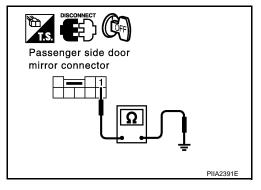
- 1. Turn ignition switch OFF.
- Check continuity between passenger side door mirror defogger connector D32 terminal 1 and ground.

: Continuity should exist.

OK or NG

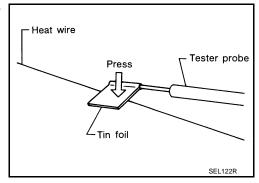
OK >> Check door mirror defogger filament continuity.

NG >> Repair or replace harness.



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.



GW

Н

Α

В

D

K

M

Ν

INFOID:0000000004658145

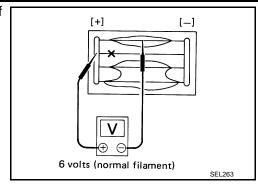
C

Р

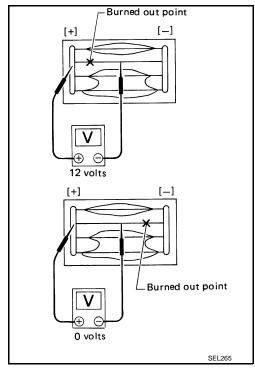
Revision: 2009 October **GW-69** 2008 & 2009 350Z

< SERVICE INFORMATION >

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



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



Filament Repair

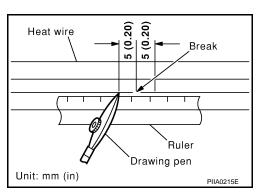
INFOID:0000000004658146

REPAIR EQUIPMENT

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

REPAIRING PROCEDURE

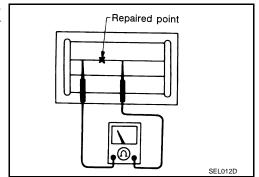
- 1. Wipe broken heat wire and its surrounding area clean with a cloth dampened in alcohol.
- Apply a small amount of conductive silver composition to tip of drawing pen.
 Shake silver composition container before use.
- 3. Place ruler on glass along broken line. Deposit conductive silver composition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



< SERVICE INFORMATION >

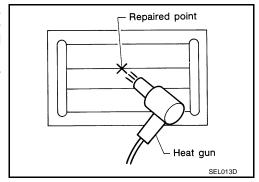
After repair has been completed, check repaired wire for continuity. This check should be performed 10 minutes after silver composition is deposited.

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.



GW

J

Н

Α

В

C

D

Е

F

K

L

M

Ν

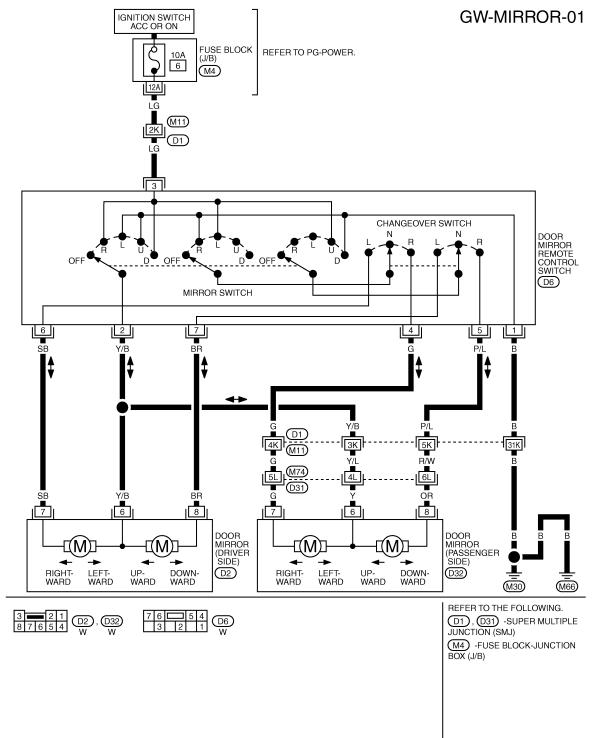
0

Р

DOOR MIRROR



INFOID:0000000004658147



TIWT1601E

Removal and Installation

SEC. 963

Nut 4.3 - 5.9 (0.44 - 0.60, 38 - 52)

Pawl

Door mirror assembly

Corner cover inner

REMOVAL

- 1. Remove door finisher. Refer to El-28.
- Remove corner cover inner.
- Disconnect door mirror harness connector.
- 4. Remove door mirror mounting nuts, and remove door mirror assembly.

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 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.

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

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

GW

Н

Α

В

D

Е

F

J

M

Ν

DOOR MIRROR

< SERVICE INFORMATION >

- 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.

