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# **PRECAUTIONS**

PRECAUTIONS PFP:00001

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

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

**WARNING:** 

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

# **Precautions for Battery Service**

AIS003YA

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

Precautions

• Disconnect both battery cables in advance.

- Never tamper with or force air bag lid open, as this may adversely affect air bag performance.
- Be careful not to scratch pad and other parts.
- When removing or disassembling any part, be careful not to damage or deform it. Protect parts, which may get in the way with cloth.
- When removing parts with a screwdriver or other tool, protect parts by wrapping them with vinyl or tape.
- Keep removed parts protected with cloth.
- If a clip is deformed or damaged, replace it.
- If an unreusable part is removed, replace it with a new one.
- Tighten bolts and nuts firmly to the specified torque.
- After re-assembly has been completed, make sure each part functions correctly.
- Remove stains in the following way.

Water-soluble stains:

Dip a soft cloth in warm water, and then squeeze it tightly. After wiping the stain, wipe with a soft dry cloth. Oil stain:

Dissolve a synthetic detergent in warm water (density of 2 to 3% or less), dip the cloth, then clean off the stain with the cloth. Next, dip the cloth in fresh water and squeeze it tightly. Then clean off the detergent completely. Then wipe the area with a soft dry cloth.

Do not use any organic solvent, such as thinner or benzine.

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# **PREPARATION**

# PREPARATION PFP:00002

# **Special Service Tools**

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

Tool number (Kent-Moore No.) Tool name		Description
(J39570) Chassis ear	SIIAO993E	Locating the noise
(J43980) NISSAN Squeak and Rattle Kit	SIIA0994E	Repairing the cause of noise

# **Commercial Service Tools**

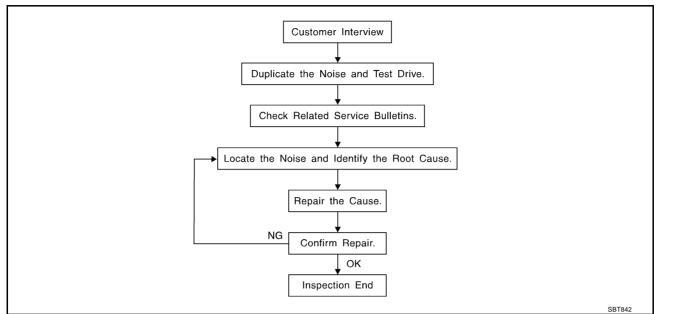
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Tool name		Description
Engine ear	SIIA0995E	Locating the noise

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### **CUSTOMER INTERVIEW**

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

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

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### **DUPLICATE THE NOISE AND TEST DRIVE**

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

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

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

### CHECK RELATED SERVICE BULLETINS

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

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

### LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

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

### REPAIR THE CAUSE

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

### **CAUTION:**

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

### NOTE:

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

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

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

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

71L02: 15  $\times$  25 mm (0.59  $\times$  0.98 in)

INSULATOR (Foam blocks)

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

73982-9E000: 45 mm (1.77 in) thick,  $50 \times 50$  mm (1.97  $\times$  1.97 in)/73982-50Y00:

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

INSULATOR (Light foam block)

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

**FELT CLOTHTAPE** 

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

 $68370-4B000: 15 \times 25 \text{ mm} (0.59 \times 0.98 \text{ in}) \text{ pad/}68239-13E00: 5 \text{ mm} (0.20 \text{ in}) \text{ wide tape roll}$ 

The following materials, not found in the kit, can also be used to repair squeaks and rattles.

**UHMW (TEFLON) TAPE** 

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

SILICONE GREASE

Used 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

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

# **INSTRUMENT PANEL**

Most incidents are caused by contact and movement between:

- 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
- 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:

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

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

### **DOORS**

Pay attention to the:

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

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

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### **TRUNK**

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

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

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

### SUNROOF/HEADLINING

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

- 1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
- Sunvisor shaft shaking in the holder
- 3. Front or rear windshield touching headlining and squeaking

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

### SEATS

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

Cause of seat noise include:

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

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

### **UNDERHOOD**

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

Causes of transmitted underhood noise include:

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

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

# **Diagnostic Worksheet**

SOURCE

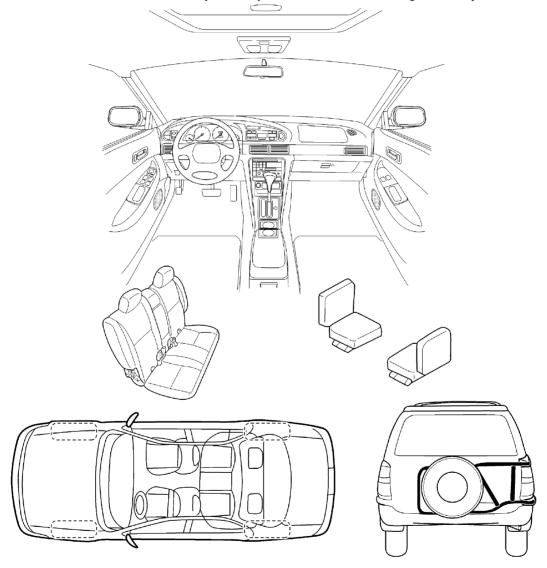
### **SQUEAK & RATTLE DIAGNOSTIC WORKSHEET**

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.

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

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



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

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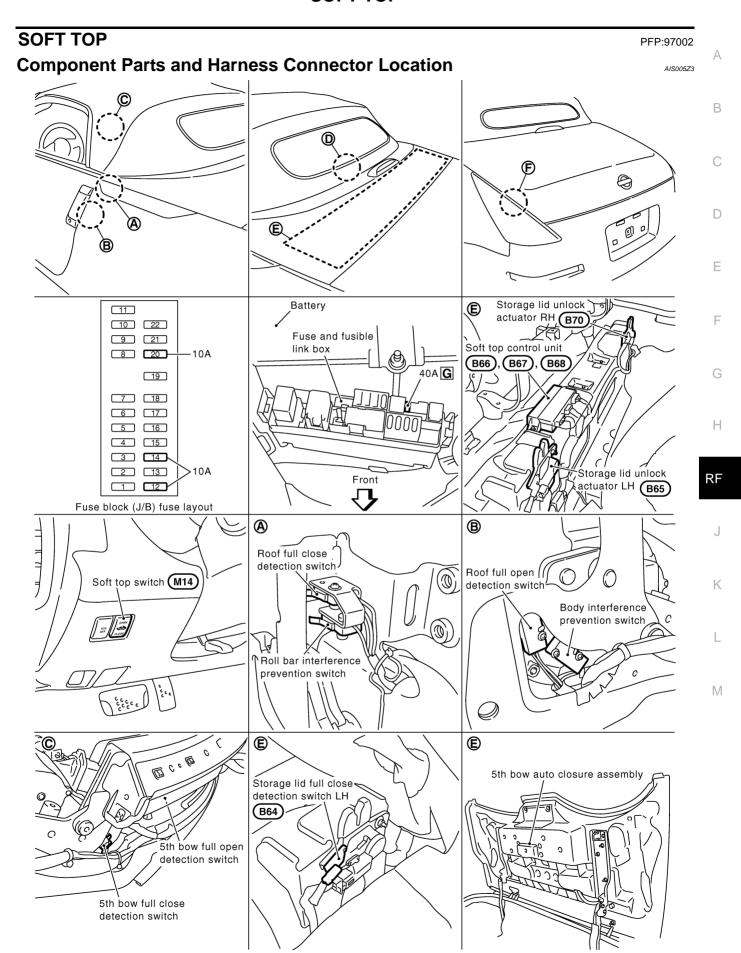
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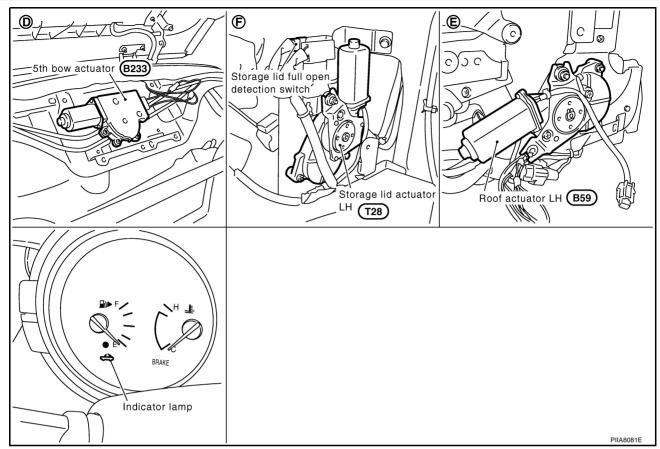
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# **SQUEAK & RATTLE DIAGNOSTIC WORKSHEET-** page 2 Briefly describe the location where the noise occurs: WHEN DOES IT OCCUR? (check the boxes that apply) II. □ anvtime after sitting out in the sun ☐ 1<sup>st</sup> time in the morning ☐ when it is raining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

This form must be attached to Work Order

SBT844





Following Parts Are Built Into 5th Bow Auto Closure Assembly.

- 5th bow half-latch switch built in 5th bow lock assembly in storage lid.
- 5th bow full-latch switch built in 5th bow lock assembly in storage lid.
- 5th bow ending switch built in 5th bow lock assembly in storage lid.
- 5th bow unlock actuator.
- 5th bow closure motor.

### NOTF:

Always replace following switches as a 5th bow lock assembly.

- 5th bow half-latch switch
- 5th bow full-latch switch
- 5th bow ending switch.

5th bow full open detection switch and 5th bow full close detection switch are built into 5th bow switch assembly located at plate rail RR. Replace above switches as a plate rail RR.

# **System Description**

AIS005Z4

An electronic soft top open/close system has been adopted that allows the soft top to be opened or closed using the soft top switch.

The following parts operate, linked with the operation of the soft top.

- When the soft top begins to operate, the passenger seat tilts forward. When operation is completed, it returns to its original position.
  - (It does not move when the seat cancel switch is ON.)
- When the soft top begins to operate, both power windows activate to the fully-open position.
   (They do not activate to the fully-closed position after operation is completed.)
   Moreover, power window cannot be operated while soft top is operating.

When the soft top switch is released, soft top operation stops.

### **CONDITIONS FOR OPERATION**

Operation is avairable when all of the conditions below are satisfied.

- Ignition switch is ON.
- The brake pedal is ON.
- Vehicle speed is 4 km/h (2 MPH) or less.
- Battery voltage is approximately 10 V or more.

Run the engine when operating or inspecting the soft top to prevent battery dies.

### CONDITIONS FOR STOPPING OPERATION

Operation of the soft top stops when the conditions below are satisfied while the soft top is operating.

- Any of the above operation conditions is no longer satisfied.
- The passenger side power seat is operated. (It does not move when seat cancel switch is ON.)

### **OUTLINE OF OPERATION**

Refer to the illustrations for the positions of the soft top, and the conditions of switch and actuator operation.

### **OPERATION: FULL CLOSE** → **FULL OPEN**

Refer to RF-19, "State Chart".

CONDITION: FULL CLOSE

Item	Condition
5th bow half-latch switch	: OFF
5th bow full-latch switch	: OFF
5th bow ending switch	: OFF
5th bow full open detection switch	: OFF
5th bow full close detection switch	: OFF
Storage lid full open detection switch	: OFF
Storage lid full close detection switch LH	: OFF
Storage lid full close detection switch RH	: OFF
Roof full open detection switch	: OFF
Roof full close detection switch	: OFF
Body interference prevention switch	: OFF
Roll bar interference prevention switch	: OFF

### CONDITION: OP 1

When the soft top switch is pushed to OPEN, the indicator lamp illuminates, windows activate to the fullyopen position and the passenger seat tilts forward by approximately 6 degrees by power window down request signal. When passenger seat tilts forward by approximately 6 degrees, seat back position signal is turned ON.

Item	Condition
Soft top switch (OPEN)	: ON (Until the operation ends)
Indicator lamp	: ON
Power window down request signal	: ON
Seat back position signal	: OFF → ON

### **CONDITION: OP 2**

The 5th bow unlock actuator operates, releasing the 5th bow lock.

Item	Condition
5th bow unlock actuator	: ON

### **CONDITION: OP 3**

The 5th bow actuator moves the 5th bow up.

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Item	Condition
5th bow half-latch switch	$:OFF\toON$
5th bow actuator	: UP
5th bow unlock actuator	$:ON\toOFF$

# CONDITION: OP 4 The 5th bow is rising.

Item	Condition
5th bow actuator	: UP
5th bow full close detection switch	$: OFF \to ON$
5th bow closure motor	: OPEN → STOP
5th bow full-latch switch	$: OFF \to ON$
5th bow ending switch	: OFF → ON

### CONDITION: OP 5

The 5th bow stops in the fully-open position. The storage lid unlock actuator operates, releasing the storage lid lock.

Item	Condition
5th bow full open detection switch	: OFF → ON
5th bow actuator	$: UP \to STOP$
Storage lid unlock actuator (LH and RH)	: ON
Storage lid full close detection switch (RH)	: OFF → ON

### • CONDITION: OP 6

The storage lid actuator operates, raising the storage lid.

Item	Condition
Storage lid full close detection switch (LH)	: OFF → ON
Storage lid actuator (LH and RH)	: OPEN
Storage lid unlock actuator (LH and RH)	$:ON\toOFF$

# • CONDITION: OP 7

The storage lid stops in the fully-open position. The 5th bow actuator moves the 5th bow down.

Item	Condition
Storage lid full open detection switch	: OFF → ON
Storage lid actuator (LH and RH)	: OPEN → STOP
5th bow actuator	: DOWN
5th bow full open detection switch	$:ON\toOFF$

### CONDITION: OP 8

The 5th bow actuator stops in the fully-closed position. The roof actuator operates (OPEN operation), opening the roof.

Item	Condition
5th bow full close detection switch	$:ON\toOFF$
5th bow actuator	$: DOWN \to STOP$
Roof actuator (LH and RH)	: OPEN
Roof full close detection switch	: OFF → ON

### CONDITION: OP 9

While the roof is opening, the 5th bow actuator moves the 5th bow up.

Item	Condition
Roof actuator (LH and RH)	: OPEN
5th bow actuator	: UP
5th bow full close detection switch	: OFF → ON
Roll bar interference prevention switch	: OFF → ON

### CONDITION: OP 10

While the roof is opening, the 5th bow stops in the fully-open position.

Item	Condition
Roof actuator (LH and RH)	: OPEN
5th bow full open detection switch	: OFF → ON
5th bow actuator	: UP → STOP
Body interference prevention switch	: OFF $\rightarrow$ ON

### CONDITION: OP 11

The roof is stored and stops motion. The storage lid actuator operates (DOWN operation) to lower the storage lid.

The passenger seat also returns to its original position.

Item	Condition
Roof full open detection switch	: OFF → ON
Roof actuator (LH and RH)	: OPEN → STOP
Storage lid actuator (LH and RH)	: CLOSE
Storage lid full open detection switch	$:ON\toOFF$
Storage lid full close detection switch (LH)	: ON → OFF

### CONDITION: OP 12

At the fully-closed position, the storage lid inverts and stops. The passenger seat tilts back. Opening operation is completed, and the indicator lamp turns OFF.

Item	Condition
Storage lid full close detection switch (RH)	$:ON\toOFF$
Storage lid actuator (LH and RH)	$: CLOSE \to OPEN \to STOP$
Indicator lamp	: ON → OFF

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### **OPERATION: FULL OPEN** → **FULL CLOSE**

Refer to <u>RF-21, "State Chart"</u>.

• CONDITION: FULL OPEN

Item	Condition
5th bow half-latch switch	: ON
5th bow full-latch switch	: ON
5th bow ending switch	: ON
5th bow full open detection switch	: ON
5th bow full close detection switch	: ON
Storage lid full open detection switch	: OFF
Storage lid full close detection switch LH	: OFF
Storage lid full close detection switch RH	: OFF
Roof full open detection switch	: ON
Roof full close detection switch	: ON
Body interference prevention switch	: ON
Roll bar interference prevention switch	: ON

### CONDITION: CL 1

When the soft top switch is pressed to the CLOSE side, the indicator lamp illuminates, storage lid unlock actuator also operates, releasing the storage lid lock.

Item	Condition
Soft top switch (CLOSE)	: ON (Until the operation ends)
Indicator lamp	: ON
Storage lid unlock actuator	: ON
Storage lid full close detection switch (RH)	: OFF $\rightarrow$ ON

### CONDITION: CL 2

Windows activate to the fully-open position and the passenger seat tilts forward by approximately 6 degrees by power window down request signal. Storage lid actuator operates to raise the storage lid. When passenger seat tilts forward by approximately 6 degrees, seat back position signal is turned ON.

Item	Condition
Storage lid full close detection switch (LH)	: OFF → ON
Storage lid actuator (LH and RH)	: UP
Power window down request signal	: ON
Storage lid unlock actuator	$:ON\toOFF$
Seat back position signal	: OFF $\rightarrow$ ON

### CONDITION: CL 3

The storage lid stops at the fully-open position. The roof actuator operates (CLOSE operation) to close the roof.

Item	Condition
Storage lid full open detection switch	$: OFF \to ON$
Storage lid actuator (LH and RH)	: OPEN → STOP
Roof actuator (LH and RH)	: CLOSE
Roof full open detection switch	$:ON\toOFF$
Body interference prevention switch	$:ON\toOFF$

### CONDITION: CL 4

While the roof is closing, the 5th bow actuator operates (DOWN operation) to lower the 5th bow.

Item	Condition
Roof actuator (LH and RH)	: CLOSE
5th bow actuator	: DOWN
5th bow full open detection switch	$:ON\toOFF$

### CONDITOIN: CL 5

The roof is closing, and 5th bow is lowering.

Item	Condition
Roof actuator (LH and RH)	: CLOSE
5th bow full close detection switch	$:ON\toOFF$
5th bow actuator	$: DOWN \to STOP$
Roll bar interference prevention switch	$:ON\toOFF$

### CONDITION: CL 6

The roof stops at the fully-closed position. The 5th bow actuator inverts, raising the 5th bow.

Item	Condition
Roof full close detection switch	: ON → OFF
Roof actuator (LH and RH)	$: CLOSE \to STOP$
5th bow actuator	: UP
5th bow full close detection switch	: OFF → ON

### **CONDITON: CL7**

The 5th bow stops in the fully-open position. The storage lid actuator operates (DOWN operation) lower the storage lid.

Item	Condition		
5th bow full open detection switch	: OFF → ON		
5th bow actuator	$: UP \to STOP$		
Storage lid actuator (LH and RH)	: CLOSE		
Storage lid full open detection switch	$:ON\toOFF$		
Storage lid full close detection switch (LH)	$:ON\toOFF$		

### **CONDITION: CL 8**

The storage lid inverts and stops at the fully-closed position. The 5th bow actuator operates (DOWN operation) to lower the 5th bow.

Item	Condition		
Storage lid full close detection switch (RH)	$:ON\toOFF$		
Storage lid actuator	$: CLOSE \to OPEN \to STOP$		
5th bow actuator	: DOWN		
5th bow full open detection switch	$:ON\toOFF$		

# **CONDITION: CL 9**

The 5th bow is lowering.

Item	Condition		
5th bow actuator	: DOWN		
5th bow full close detection switch	$:ON\toOFF$		

### **CONDITION: CL 10**

5th bow auto closure operates. The passenger seat tilts back. Closing operation is completed, and the indicator lamp turns OFF. The passenger seat also returns to its original position.

**RF-17** 2005 350Z Revision: 2005 August

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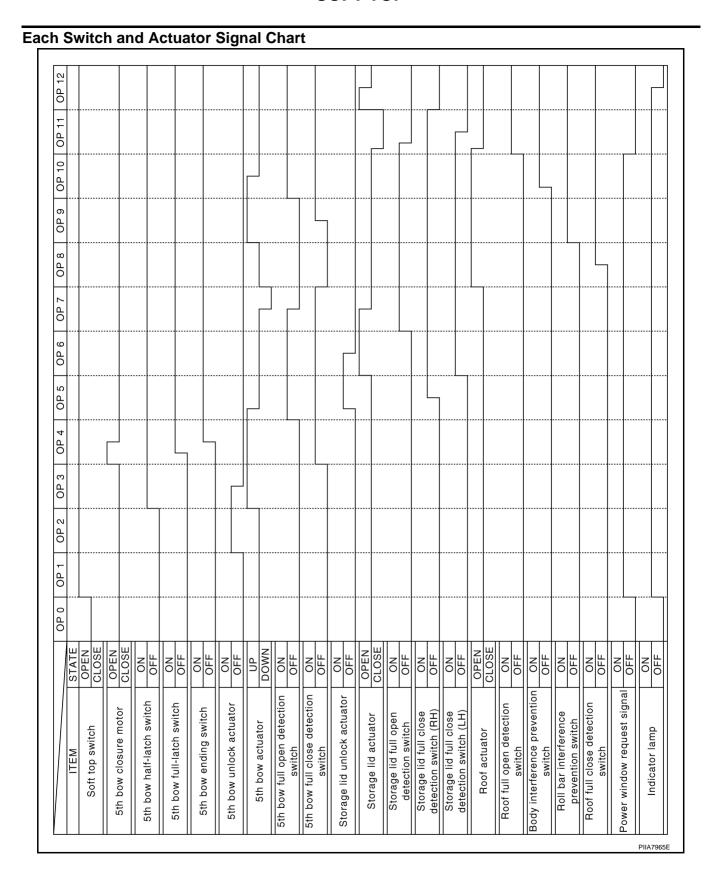
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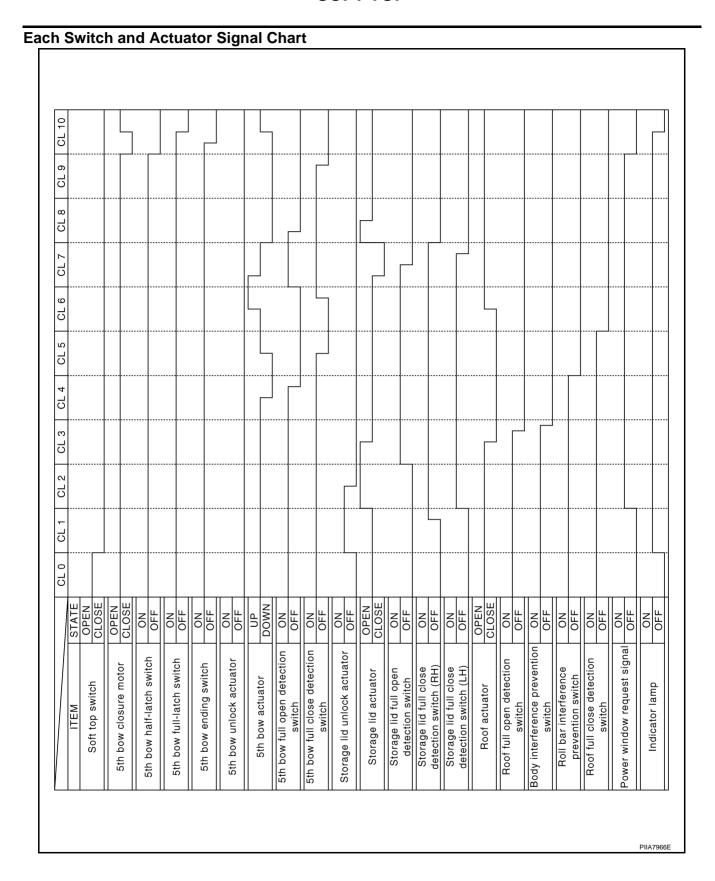
Item	Condition
5th bow actuator	: DOWN $\rightarrow$ STOP
5th bow half-latch switch	$:ON\toOFF$
5th bow full-latch switch	$:ON\toOFF$
5th bow ending switch	$:ON\toOFF$
5th bow closure motor	: CLOSE → STOP
Indicator lamp	$:ON\toOFF$

**Operation Chart** CLOSE → OPEN AIS005Z5 Α **State Chart** В OP 1 OP 7 5th BOW ROOF D **STORAGE LID** OP 2 OP 8 Е UNLOCK G OP 3 OP 9 Н RF OP 4 OP 10 *....* OP 11 OP 5 M UNLOCK v///////// OP 6 OP 12

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# $\overline{\text{OPEN} \to \text{CLOSE}}$ Α **State Chart** В CL 1 CL 6 STORAGE LID UNLOCK ROOF ~ D 5th BOW-..... Е CL 7 CL 2 G CL 3 CL 8 Н $\mathsf{RF}$ CL 4 CL 9 M CL 5 CL 10 **AUTO CLOSURE**



Indicator Lamp

The indicator lights, turns off or blinks according to the operating state.

Turns OFF : The operation stops or completes or any switch is malfunctioning

Lights : The soft top is operating or the operation stops on the way

Blinks : The soft top can not operate or stops operation by malfunction

State of roof		The operation stops when the soft top is;			
		full open or full close	in position on the way	Operation	
Operational condition		Turning off	Lighting	Lighting	
	When battery voltage decreases remarkably	Turning off	Lighting	Lighting	
Out of operational	Brake pedal is not depressed	Turning off	Lighting	Lighting	
condition	Vehicle speed is 5 km/h (3 MPH) or more	Turning off	Lighting	Lighting	
	Ignition switch: OFF	Turning off	Turning off*	Turning off*	
	any switch of the system	Turning off	Lighting	Blinking	
Malfunction of	soft top control unit	Blinking	Blinking	Blinking	
	vehicle speed signal	Blinking	Blinking	Blinking	

<sup>\*:</sup> The soft top operates for approximately 30 seconds after turn ignition switch OFF.

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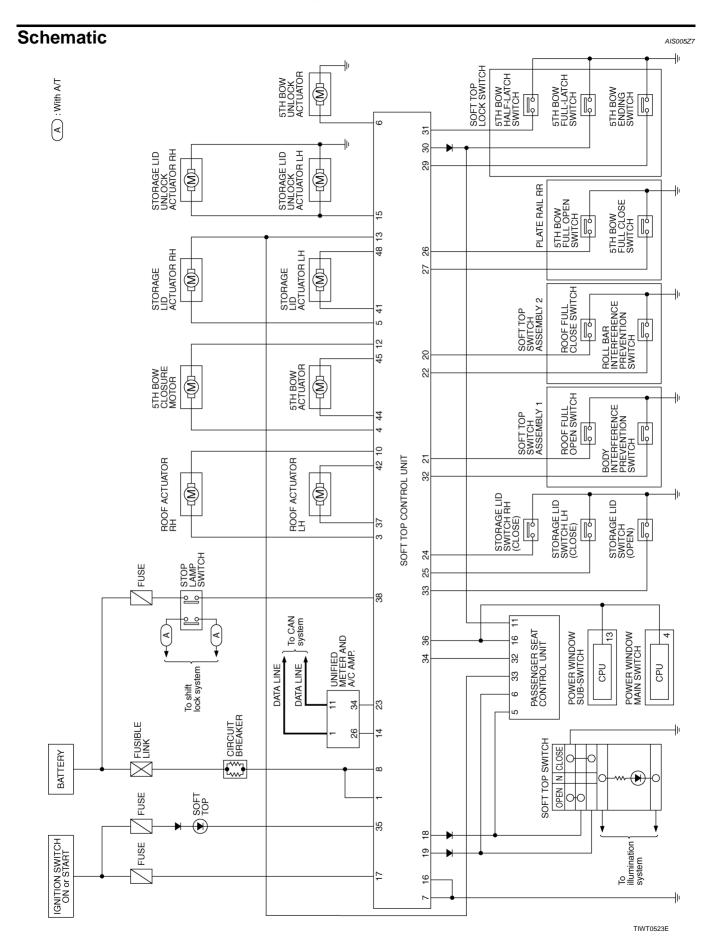
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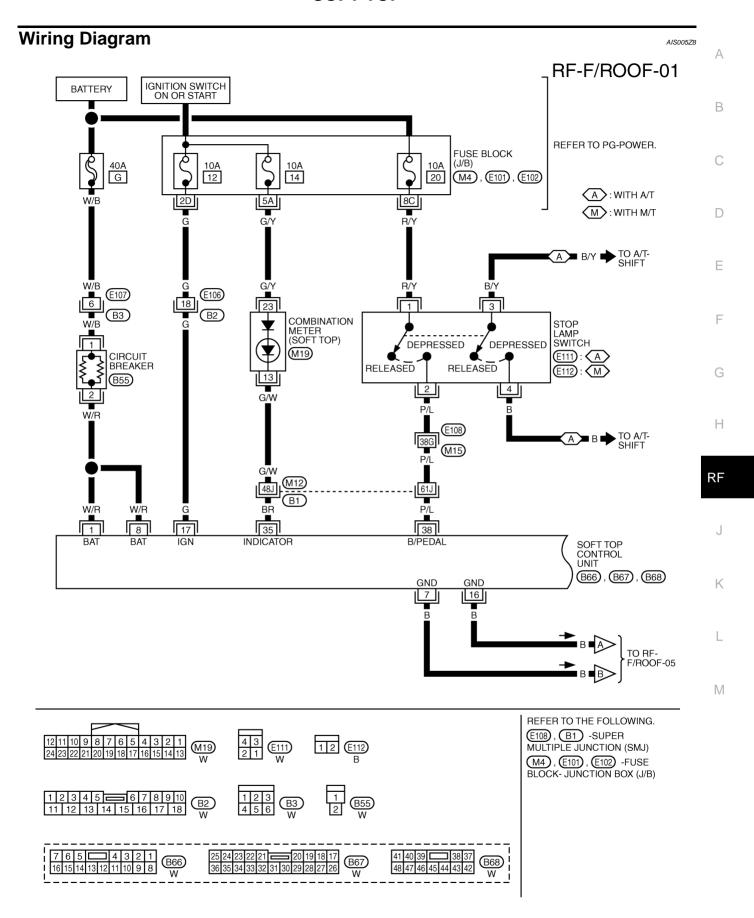
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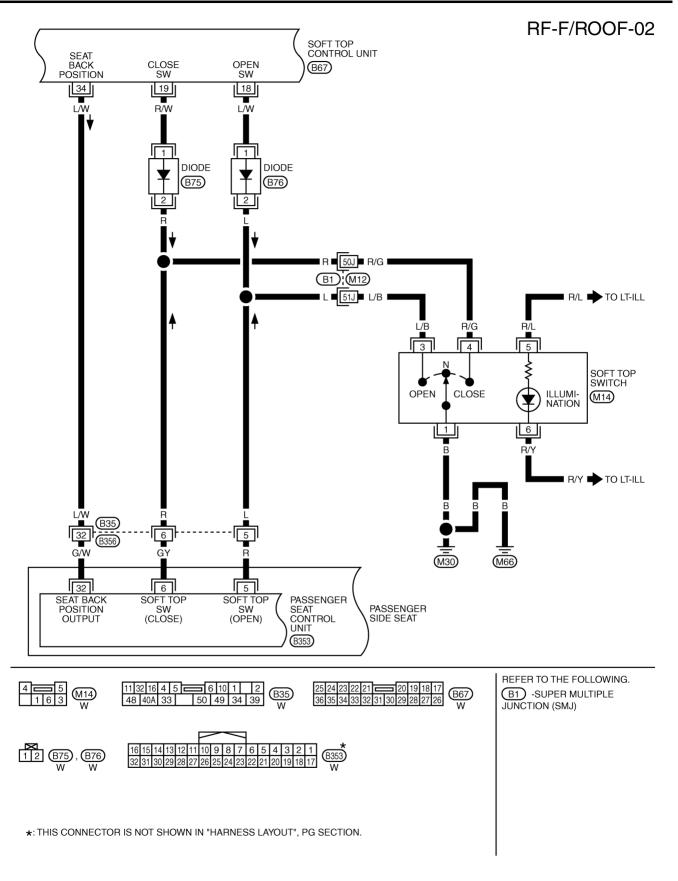
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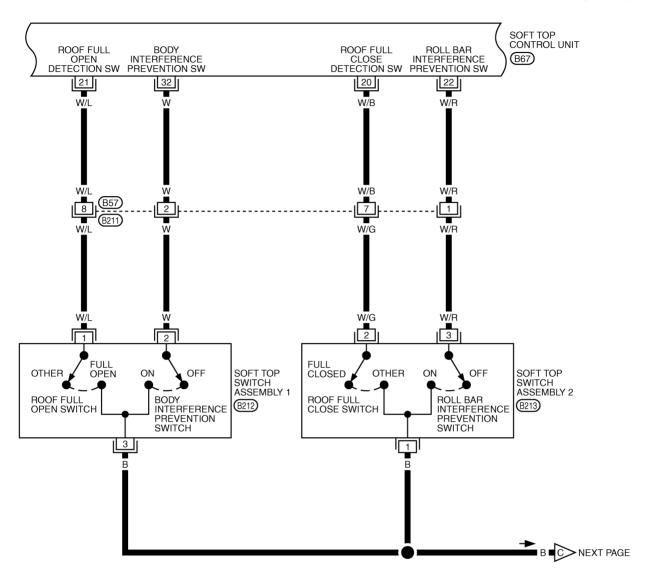
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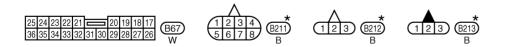
#### RF-F/ROOF-03 Α : DATA LINE SOFT TOP В **VEHICLE VEHICLE** CONTROL UNIT P/WDW SPEED SIGNAL SPEED SIGNAL DOWN (B66), (B67) (8PULSE) (2PULSE) REQUEST 36 23 14 C W/G w Y/G D W 46J W/G Y/G (B1 49J 47J M12 Е Y/G W/G F M11 M74 9K BR (D1) (D31) W/G G 34 13 4 26 8P/R 2P/R UNIFIED SOFT TOP **POWER** SOFT TOP POWER METER AND A/C AMP. WINDOW MAIN WINDOW SUB-SWITCH (M48), (M49) SWITCH Н CAN-H CAN-CPU CPU **D**37 $\bigcirc$ 7 11 RF TO LAN-CAN Y/G (B35) 16 PU/W J (B356) 16 PASSEN-P/W DOWN **PASSENGER** GER SEAT REQUEST SIDE MONITOR SEAT CONTROL UNIT **B**353 M REFER TO THE FOLLOWING. B1), D1), D31) -SUPER 1 2 3 4 5 6 7 8 9 10 M48 (M49) MULTIPLE JUNCTION (SMJ) 11 32 16 4 5 6 10 1 2 48 40A 33 50 49 34 39 25 24 23 22 21 20 19 18 17 36 35 34 33 32 31 30 29 28 27 26 7 6 5 **C** 16 15 14 13 12 11 10 9 8 W **B67 B**353 D7), D37)

TIWT0778E

\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

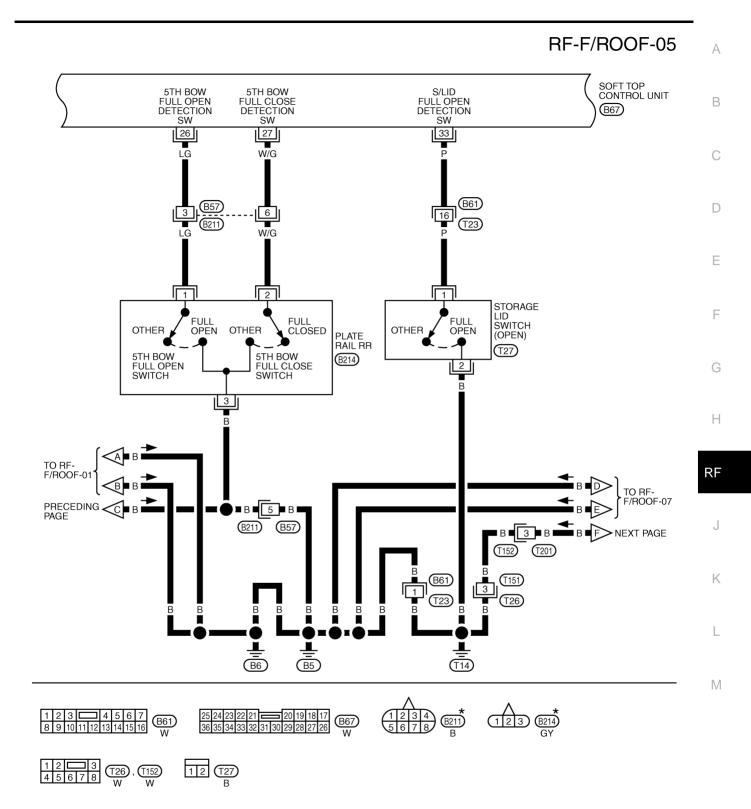
# RF-F/ROOF-04





\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

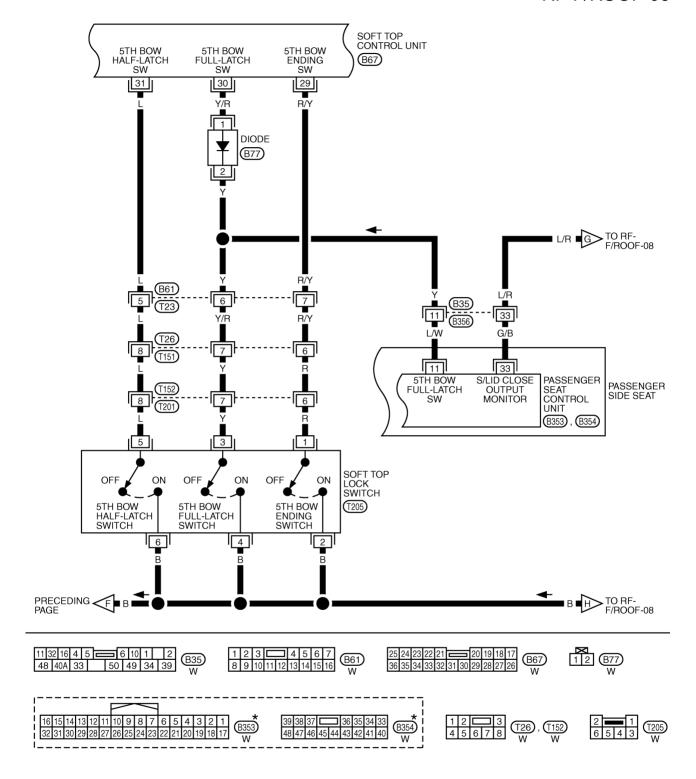
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 $\star$ : THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

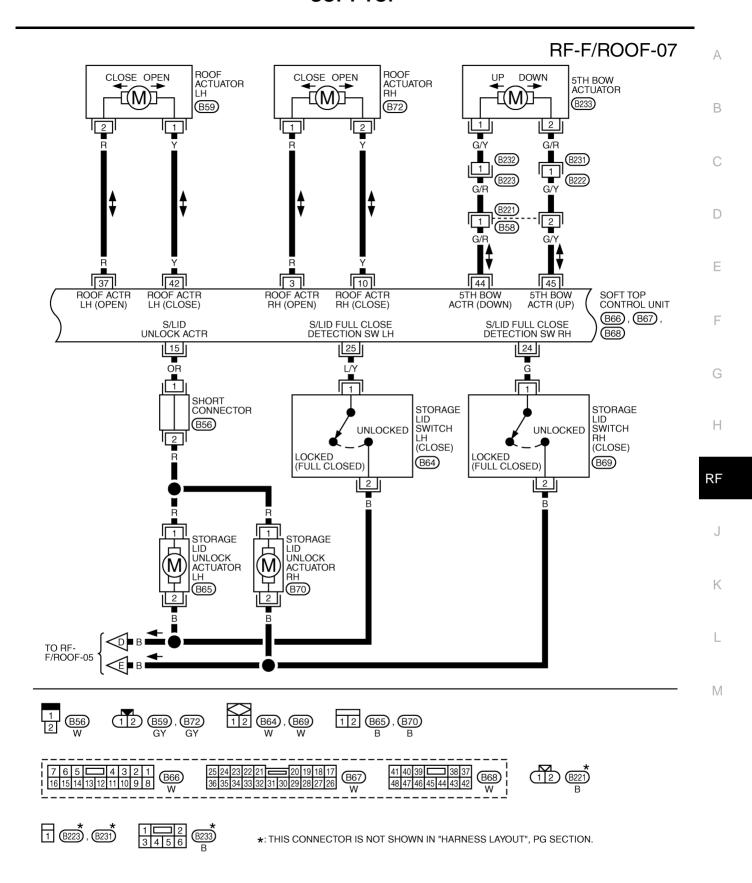
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# RF-F/ROOF-06



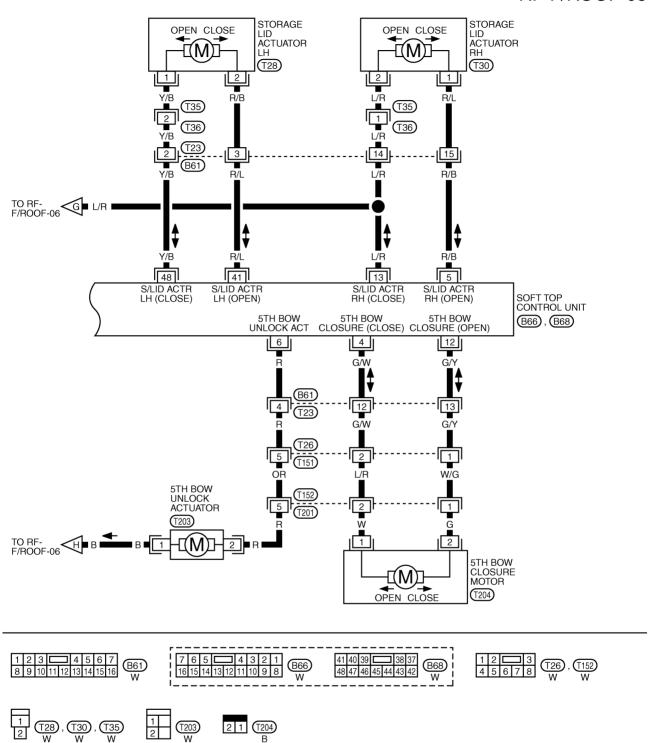
\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

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# RF-F/ROOF-08



TIWT1084E

# **Terminal and Reference Value of Soft Top Control Unit** $\textbf{CLOSE} \rightarrow \textbf{OPEN OPERATION}$

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The operation chart for roof position. Refer to RF-19, "State Chart".

Terminal	Wire color	Item	Condition (Roof position: OP)	Voltage (V) (Approx.)	В
1	W/R	Battery power supply	_	Battery voltage	_
	-	Roof actuator RH	OP8 → OP11	$0 \rightarrow \text{Battery voltage} \rightarrow 0$	_ C
3	R	(OPEN) signal	Other than above	0	
4	G/W	5th bow closure motor (CLOSE) signal	_	0	D
			OP6 → OP7	0 → Battery voltage → 0	_
5	R/B	Storage lid actuator RH (OPEN) signal	OP12	0 → battery voltage → 0	
		(Or Livy digital	Other than above	0	Е
6	R	Eth how unlook actuator signal	$OP2 \to OP3$	$0 \rightarrow Battery voltage \rightarrow 0$	_
6	K	5th bow unlock actuator signal	Other than above	0	F
7	В	Ground	_	0	_ '
8	W/R	Battery power supply	_	Battery voltage	_
10	Υ	Roof actuator RH (CLOSE) signal	_	0	G
	0.07	5th bow closure motor	OP4	0  o Battery voltage  o 0	_
12	G/Y	(OPEN) signal	Other than above	0	Н
	1./5	Storage lid actuator RH	OP11 → OP12	$0 \rightarrow \text{Battery voltage} \rightarrow 0$	_
13	L/R	(CLOSE) signal	Other than above	0	RF
14	W	Speed signal (8 pulse)	Speed meter operate [When vehicle speed is Approx. 40km/h (25 MPH)]	(V) 15 10 5 0 +-20ms	J
	0.0		OP5 → OP6	0 → Battery voltage → 0	_
15	OR	Storage lid unlock actuator signal	Other than above	0	_ 
16	В	Ground	_	0	
17	G	Ignition switch (ON or START)	Ignition switch (ON or START position)	Battery voltage	M
18	L/W	Soft top switch	Soft top switch open operate	0	_
		(OPEN) signal	Other than above	5	_
19	R/W	Soft top switch	Soft top switch close operate	0	_
		(CLOSE) signal	Other than above	5	_
20	W/B	Roof full close detection switch signal	OP8	5 → 0	_
21	W/L	Roof full open detection switch signal	OP11	5 → 0	_
22	W/R	Roll bar interference prevention switch signal	OP9	5 → 0	_

Terminal	Wire color	Item	Condition (Roof position: O	Voltage (V) (Approx.)
23	W/G	Speed signal (2 pulse)	Speed meter oper [When vehicle spee Approx. 40 km/h (25	ed is 0 4 4 4 4 4
24	G	Storage lid full close detection switch (RH) signal	OP5 → OP12	$5 \rightarrow 0 \rightarrow 5$
25	L/Y	Storage lid full close detection switch (LH) signal	OP6 → OP11	$5 \rightarrow 0 \rightarrow 5$
26	LG	5th bow full open detection	OP5 → OP7	$5 \rightarrow 0 \rightarrow 5$
	LG	switch signal	OP10	5 → 0
27	W/G	5th bow full close detection	$OP4 \to OP8$	$5 \rightarrow 0 \rightarrow 5$
	vv/G	switch signal	OP9	5 → 0
29	R/Y	5th bow ending switch signal	OP4	5 → 0
30	Y/R	5th bow full-latch switch signal	OP4	5 → 0
31	L	5th bow half-latch switch signal	OP3	5 → 0
32	W	Body interference prevention switch signal	OP10	5 → 0
33	Р	Storage lid full open detection switch signal	OP7 → OP11	$5 \rightarrow 0 \rightarrow 5$
34	L/W	Seat back position signal	When passenger sinclines forward	
			Other than abov	e 5
35	BR	Indicator lamp signal	OP1 → OP12	0
			Other than abov	e Battery voltage
36	Y/G	Power window down signal	OP1→OP11	0
		5	Other than abov	e 5
37	R	Roof actuator LH	OP8 → OP11	0 → Battery voltage → 0
		(OPEN) signal	Other than abov	
38	P/L	Brake pedal signal	Brake pedal : Depre	, ,
			: Releas	sed 0
4.4	D./I	Storage lid actuator LH (OPEN) signal	OP6 → OP7	0 $\rightarrow$ Battery voltage $\rightarrow$ 0
41	R/L		OP12	
		Poof actuator III	Other than abov	e 0
42	Υ	Roof actuator LH (CLOSE) signal	_	0
44	G/R	5th bow actuator	OP7 → OP8	0 → Battery voltage → 0
		(DOWN) signal	Other than abov	e 0
45	G/Y	5th bow actuator	$\begin{array}{c} \text{OP3} \rightarrow \text{OP5} \\ \\ \text{OP9} \rightarrow \text{OP10} \end{array}$	0 → Battery voltage → 0
		(UP) signal	Other than abov	e 0
40	\ //E	Storage lid actuator LH	OP11 → OP12	$0 \rightarrow \text{Battery voltage} \rightarrow 0$
48	Y/B	(CLOSE) signal	Other than abov	e 0

# **OPEN** → **CLOSE OPERATION**

The operation chart for roof position. Refer to RF-21, "State Chart".

Terminal	Wire color	Item	Condition (Roof position: CL)	Voltage (V) (Approx.)
1	W/R	Battery power supply		Battery voltage
3	R	Roof actuator RH (OPEN) signal	_	0
4	CAM	5th bow closure motor	CL10	$0 \rightarrow \text{Battery voltage} \rightarrow 0$
4	G/W	(CLOSE) signal	Other than above	0
			$CL2 \to CL3$	0 → Battery voltage → 0
5	R/B	Storage lid actuator RH (OPEN) signal	CL8	0 → Ballery Vollage → 0
		, , ,	Other than above	0
6	R	5th bow unlock actuator signal		0
7	В	Ground	_	0
8	W/R	Battery power supply	_	Battery voltage
10	Υ	Roof actuator RH	$CL3 \to CL6$	$0 \to \text{Battery voltage} \to 0$
	·	(CLOSE) signal	Other than above	0
12	G/Y	5th bow closure motor (OPEN) signal	_	0
13	L/R	Storage lid actuator RH	CL7 → CL8	$0 \rightarrow Battery \ voltage \rightarrow 0$
13	L/IX	(CLOSE) signal	Other than above	0
14	W	Speed signal (8 pulse)	Speed meter operate [When vehicle speed is Approx. 40 km/h (25 MPH)]	(V) 15 10 10 10 10 10 10 10 10 10 10 10 10 10
15	OR	Storage lid unlock actuator signal	CL1 → CL2	$0 \to \text{Battery voltage} \to 0$
10	OIX	otorage na unioek actuator signal	Other than above	0
16	В	Ground	_	0
17	G	Ignition switch (ON or START)	Ignition switch (ON or START position)	Battery voltage
18	L/W	/W Soft top switch (OPEN) signal	Soft top switch open operate	0
			Other than above	5
19	R/W	Soft top switch (CLOSE) signal	Soft top switch close operate	0
			Other than above	5
20	W/B	Roof full close detection switch signal	CL6 0 → 5	
21	W/L	Roof full open detection switch signal	CL3	0 → 5
22	W/R	Roll bar interference prevention switch signal	CL5 0 → 5	

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Townsia	Wire	lto-m	Condition		Voltage (V)	
Terminal	color	Item	(Roof position: CL)		(Approx.)	
23	W/G	Speed signal (2 pulse)	Speed meter operate [When vehicle speed is Approx. 40 km/h (25 MPH)]		(V) 15 10 50ms PIIB0078J	
24	G	Storage lid full close detection switch (RH) signal	CL1 → CL8		$5 \rightarrow 0 \rightarrow 5$	
25	L/Y	Storage lid full close detection switch (LH) signal	CL2 → C	L7	$5 \rightarrow 0 \rightarrow 5$	
		Eth how full open detection	CL4		$0 \rightarrow 5$	
26	LG	5th bow full open detection switch signal	CL7		5 → 0	
		J	CL8		0 → 5	
27	W/G	5th bow full close	CL5 → C	L6	$0 \rightarrow 5 \rightarrow 0$	
21	W/O	detection switch signal	CL9		$0 \rightarrow 5$	
29	R/Y	5th bow ending switch signal	CL10		$0 \rightarrow 5$	
30	Y/R	5th bow full-latch switch signal	CL10		$0 \rightarrow 5$	
31	L	5th bow half-latch switch signal	CL9 → CL10		$0 \rightarrow 5$	
32	W	Body interference prevention switch signal	CL3		$0 \rightarrow 5$	
33	Р	Storage lid full open detection switch signal	CL3 → CL7		$5 \rightarrow 0 \rightarrow 5$	
34	L/W	Seat back position signal	When passenger seat inclines forward		0	
			Other than a	above	5	
35	BR	Indicator lamp signal	CL1 → Cl	L10	0	
00	DI.	maioator iamp oignar	Other than a	above	Battery voltage	
36	Y/G	Power window down signal	CL1 → Cl	L10	0	
00	1,70	r offer militaen demir eighal	Other than a	above	5	
37	R	Roof actuator LH (OPEN) signal	_		0	
38	P/L	Brake pedal signal	: De	epressed	Battery voltage	
	. ,_	2.a.to poddi olgilai	: Re	eleased	0	
		Storage lid actuator LH  (OPEN) signal	CL2 → C	L3	$0 \rightarrow \text{Battery voltage} \rightarrow 0$	
41	R/L		CL8			
			Other than above		0	
42	Y	Roof actuator LH (CLOSE) signal	CL3 → CL6		$0 \to \text{Battery voltage} \to 0$	
44	G/R	5th bow actuator (DOWN) signal	$CL4 \rightarrow CL5$ $CL8 \rightarrow CL10$		$0 \to \text{Battery voltage} \to 0$	
45	G/Y	5th bow actuator (UP) signal	CL6 → CL7		0 → Battery voltage → 0	
40	\//E	Storage lid actuator LH	CL7 → CL8		$0 \rightarrow \text{Battery voltage} \rightarrow 0$	
48	48 Y/B (CLOSE) signal		Other than above		0	

Work Flow

- 1. Check the symptom and customer's requests.
- 2. Understand the outline of system. Refer to RF-12, "System Description".
- 3. According to the trouble diagnosis chart, repair or replace the cause of the malfunction. Refer to RF-37, "Trouble Diagnosis Chart by Symptom".
- 4. Does soft top system operate normally? If Yes, GO TO 5. If No, GO TO 3.
- INSPECTION END.

# Trouble Diagnosis Chart by Symptom (CLOSE $\rightarrow$ OPEN)

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The operation chart for roof position. Refer to RF-19, "State Chart".

Symptom	Diagnostic procedure and repair order	Roof position	Refer to page
	Soft top control unit power supply check	OP1	<u>RF-39</u>
	2. Soft top switch (Open) check	OP1	<u>RF-39</u>
	3. Operation permission condition check	OP1	<u>RF-76</u>
Roof does not operate	4. Each switch condition check (Open operate)	Full close	<u>RF-79</u>
Roof does not operate	5. Seat back position signal check	OP1	<u>RF-82</u>
	6. 5th bow unlock actuator check (Open operate)	OP2	<u>RF-43</u>
	7. 5th bow half-latch switch check (Open operate)	OP2	<u>RF-43</u>
	8. 5th bow actuator check (Open operate)	OP3	<u>RF-45</u>
	Sth bow full close detection switch check (Open operate)	OP4	<u>RF-45</u>
	Sth bow full open detection switch check (Open operate)	OP5	<u>RF-47</u>
open position	Storage lid unlock actuator check (Open operate)	OP5	<u>RF-48</u>
	Storage lid full close detection switch (LH and RH) check (Open operate)	OP5.6	<u>RF-49</u>
	5. Storage lid actuator check (Open operate)	OP6	<u>RF-51</u>
Storage lid operation stops at full open position	Storage lid full open detection switch check (Open operate)	OP7	<u>RF-52</u>
Roof does not operate	Roof actuator check (Open operate)	OP8	<u>RF-54</u>
Roof stops on the way	Roll bar interference prevention switch check (Open operate)	OP8	<u>RF-55</u>
Storage lid operation stops at full open position after the roof	Body interference prevention switch check (Open operate)	OP10	<u>RF-56</u>
s stored.	2. Roof full open detection switch check	OP10	<u>RF-57</u>
Passenger side seat back does	Passenger side seat cancel switch check	OP1	<u>SE-50</u>
not operate.	Passenger side seat operate signal check 1	OP1	<u>RF-81</u>
Passenger side seat bock does not return to former state	Passenger side seat operate signal check 2	OP10	<u>RF-82</u>
Power window down does not operate.	Power window harness check	OP1	<u>RF-81</u>
Both power window down and passenger seat are not operated.	Power window down request signal check	OP1	<u>RF-80</u>
ndicator lamp does not light. (soft top operates properly)	Indicator lamp circuit check	_	<u>RF-84</u>

Symptom	Diagnostic procedure and repair order	Roof position	Refer to page
Indicator lamp blinks when IGN SW : OFF $\rightarrow$ ON is done.	1. Replace soft top control unit	_	<u>RF-85</u>
Indicator lamp blinks when beginning to run.	1. Speed signal check	_	<u>RF-83</u>

# $\textbf{(OPEN} \rightarrow \textbf{CLOSE)}$

The operation chart for roof position. Refer to RF-21, "State Chart".

Symptom	Diagnostic procedure and repair order	Roof position	Refer to page
	1 Soft top control unit power supply check	CL1	<u>RF-39</u>
	2. Soft top switch (Close) check	CL1	<u>RF-41</u>
	3. Operation permission condition check	CL1	<u>RF-76</u>
Roof does not operate	4. Each switch condition check (Close operate)	Full open	<u>RF-80</u>
	5. Seat back position signal check	CL1	<u>RF-82</u>
	6. Storage lid unlock actuator check (Close operate)	CL1	<u>RF-58</u>
	7. Storage lid full close detection switch (LH and RH) check (Close operate)	CL1.2	<u>RF-59</u>
	8. Storage lid actuator check (Close operate)	CL2	<u>RF-61</u>
Ptorago lid operation atoms at	Roof actuator check (Close operate)	CL2	<u>RF-65</u>
Storage lid operation stops at full open position	Body interference prevention switch check     (Close operate)	CL3	<u>RF-64</u>
	Storage lid full open detection switch check (Close operate)	CL3	<u>RF-62</u>
Roof stops on the way	Roof full close detection switch check (Close operate)	CL5	<u>RF-66</u>
	3. 5th bow actuator check (Close operate)	CL5	<u>RF-68</u>
Operation stops after 5th bow operates down	Sth bow full close detection switch check (Close operate)	CL5	<u>RF-68</u>
Operation stops after 5th bow operates up	Sth bow full open detection switch check (Close operate)	CL6	<u>RF-70</u>
	1. 5th bow half-latch switch check	CL10	<u>RF-71</u>
Auto closure of 5th bow does	2. 5th bow full-latch switch check	CL10	<u>RF-72</u>
not operate.	3. 5th bow ending switch check	CL10	<u>RF-74</u>
	4. 5th bow closure motor check	CL10	<u>RF-75</u>
Passenger side seat back does	Passenger side seat cancel switch check	CL1	<u>SE-50</u>
not operate.	Passenger side seat operate signal check 1	CL1	<u>RF-81</u>
Passenger side seat back does not return to former state	Passenger side seat operate signal check 3	CL10	<u>RF-82</u>
Power window down does not operate.	Power window harness check	CL1	<u>RF-81</u>
Both power window down and passenger seat are not oper- ated.	Power window down request signal check	CL1	<u>RF-80</u>
ndicator lamp does not light. (soft top operates properly)	Indicator lamp circuit check	_	<u>RF-84</u>
ndicator lamp blinks when IGN SW : OFF $ ightarrow$ ON is done.	Replace soft top control unit	_	<u>RF-85</u>
Indicator lamp blinks when beginning to run.	1. Speed signal check	_	<u>RF-83</u>

# Soft Top Control Unit Power Supply Check (OP, CL)

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### 1. CHECK FUSE

- Check 10A fuse [No.12, located in the fuse block (J/B)]
- Check 40A fusible link (letter G located in the fuse and fusible link box.)

### NOTE:

Refer to RF-11. "Component Parts and Harness Connector Location".

### OK or NG

OK >> GO TO 2

>> If fuse blown out, be sure to eliminate cause of malfunction before installing new fuse. Refer to NG PG-3. "POWER SUPPLY ROUTING CIRCUIT".

### 2. CHECK POWER SUPPLY CIRCUIT

1. Start engine.

Check voltage between soft top control unit connector B66, 67 terminal 1, 8, 17 and ground.

> 1 (W/R) - Ground : Battery voltage 8 (W/R) - Ground : Battery voltage 17 (G) - Ground : Battery voltage

### OK or NG

OK >> GO TO 3.

NG >> Check soft top control unit power supply circuit for open or short.

# Soft top control unit connector <u>1, 8, 17</u> PIIA7886E

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# 3. CHECK GROUND CIRCUIT

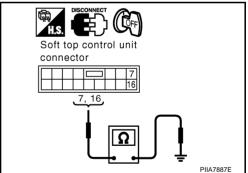
- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit connector.
- Check continuity between soft top control unit connector B66 terminal 7, 16 and ground.

7 (B) - Ground : Continuity should exist. : Continuity should exist. 16 (B) - Ground

### OK or NG

OK >> Power supply and ground circuit are OK.

NG >> Check soft top control unit ground circuit for open or short.



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# Soft Top Switch (OPEN) Check

### 1. CHECK SOFT TOP OPEN SWITCH SIGNAL

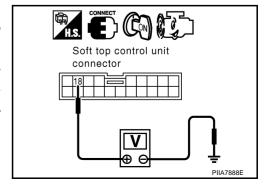
- Start engine.
- Check soft top control unit connector and ground.

Connector	Terminal (	Wire color)	Soft top switch	Voltage (V)
Connector	(+)	(-)	Condition	(Approx.)
B67 18 (L/W)		Ground	OPEN	0
	10 (L/VV)	Oround	Other than above	5

### OK or NG

OK >> Soft top switch (OPEN) is OK.

NG >> GO TO 2.



**RF-39** Revision: 2005 August 2005 350Z

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# $\overline{2}$ . CHECK SOFT TOP SWITCH GROUND CIRCUIT

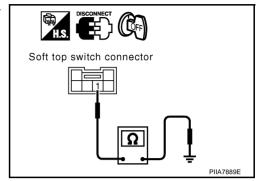
- 1. Turn ignition switch OFF.
- 2. Disconnect soft top switch connector.
- 3. Check continuity between soft top switch connector M14 terminal 1 and ground.

1 (B) - Ground : Continuity should exist.

### OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.



# 3. CHECK SOFT TOP SWITCH

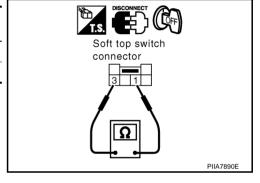
Soft top switch operate, check continuity between soft top switch connector M14 terminal 1 and 3.

Connector	Terminal		Soft top switch Condition	Continuity
M14	M14 1 3		OPEN	Yes
IVI 1-4	'	3	Other than above	No

### OK or NG

OK >> GO TO 4.

NG >> Replace soft top switch.



# 4. CHECK SOFT TOP SWITCH CIRCUIT

 Check continuity between soft top control unit connector B67 terminal 18 and soft top switch connector M14 terminal 3.

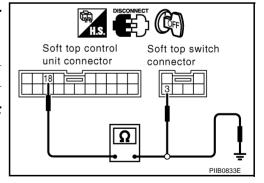
Connector	Terminal (Wire color)	Connector	Terminal (Wire color)	Continuity
	(+)		(-)	
B67	18 (L/W)	M14	3 (L/B)	No
M14	3 (L/B)	B67	18 (L/W)	Yes

Check continuity between soft top control unit connector B67 terminal 18 and ground.

### 18 (L/W) - Ground : Continuity should not exist.

### OK or NG

OK >> GO TO 5.



# 5. CHECK SOFT TOP CONTROL UNIT OUTPUT SIGNAL

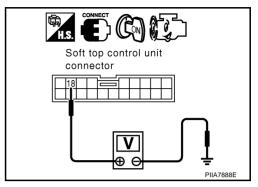
- 1. Connect soft top control unit connector.
- 2. Start engine.
- Check voltage between soft top control unit connector B67 terminal 18 and ground.

18 (L/W) - Ground : Approx. 5V

### OK or NG

OK >> Check condition of harness and connector.

NG >> Replace soft top control unit.



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### Soft Top Switch (CLOSE) Check

# 1. CHECK SOFT TOP CLOSE SWITCH SIGNAL

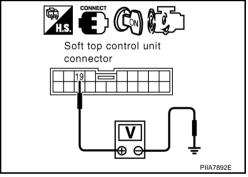
- Start engine.
- Check soft top control unit connector and ground.

Connector	Terminal (Wire color)		Soft top	Voltage (V)	
Connector	(+)	(-)	switch Condition	(Approx.)	
B67	19 (R/W) Ground		CLOSE	0	
D07	19 (14/77)	Giodila	Other than above	5	

### OK or NG

OK >> Soft top switch (CLOSE) is OK.

NG >> GO TO 2.



# 2. CHECK SOFT TOP SWITCH GROUND CIRCUIT

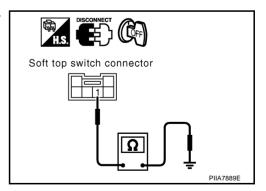
- Turn ignition switch OFF.
- 2. Disconnect soft top switch connector.
- Check continuity between soft top switch connector M14 terminal 1 and ground.

1 (B) - Ground : Continuity should exist.

### OK or NG

>> GO TO 3. OK

NG >> Repair or replace harness.



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# $\overline{3}$ . CHECK SOFT TOP SWITCH

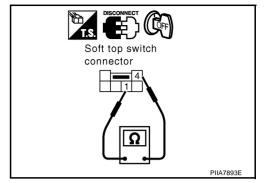
Soft top switch operate, check continuity between soft top switch connector M14 terminal 1 and 4.

Connector	Terminal		Soft top switch Condition	Continuity
M14	1 4		CLOSE	Yes
		†	Other than above	No

### OK or NG

OK >> GO TO 4.

NG >> Replace soft top switch.



### 4. CHECK SOFT TOP SWITCH CIRCUIT

1. Check continuity between soft top control unit connector B67 terminal 19 and soft top switch connector M14 terminal 4.

Connector	Terminal (Wire color) (+)	Connector	Terminal (Wire color)	Continuity
B67	19 (R/W)	M14	4 (R/G)	No
M14	4 (R/G)	B67	19 (R/W)	Yes

Check continuity between soft top control unit connector B67 terminal 19 and ground.

19 (R/W) - Ground : Continuity should not exist.

### OK or NG

OK >> GO TO 5.

NG >> Repair or replace harness.

# Soft top control unit connector Soft top switch connector PIIB0834E

### 5. CHECK SOFT TOP CONTROL UNIT OUTPUT SIGNAL

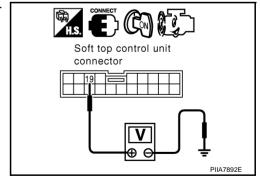
- 1. Connect soft top control unit connector.
- 2. Start engine.
- 3. Check voltage between soft top control unit connector B67 terminal 19 and ground.

19 (R/W) - Ground : Approx. 5V

### OK or NG

OK >> Check condition of harness and connector.

NG >> Replace soft top control unit.



# 5th Bow Unlock Actuator Check (Open Operate)

### 1. CHECK 5TH BOW UNLOCK ACTUATOR SIGNAL

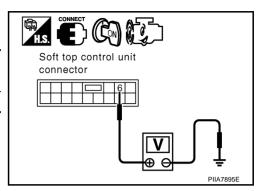
- 1. Start engine.
- 2. Operate soft top switch OPEN, check voltage between soft top control unit connector and ground.

Con-	Terminal (Wire color)		Roof Condition	Voltage (V)	
nector	(+)	(-)	1001 Condition	(Approx.)	
B66	6 (R)	Ground	OP1 → OP2	0 → Battery voltage	

### OK or NG

OK >> GO TO 2.

NG >> Replace soft top control unit.



# 2. CHECK 5TH BOW UNLOCK ACTUATOR GROUND CIRCUIT

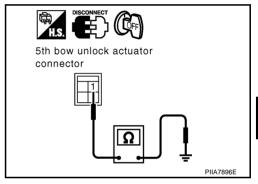
- 1. Turn ignition switch OFF.
- 2. Disconnect 5th bow unlock actuator connector.
- 3. Check continuity between 5th bow unlock actuator connector T203 terminal 1 and ground.

1 (B) - Ground : Continuity should exist.

### OK or NG

OK >> Replace 5th bow unlock actuator.

NG >> Repair or replace harness.



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# 5th Bow Half-Latch Switch Check (Open Operate)

### 1. CHECK 5TH BOW HALF-LATCH SWITCH SIGNAL CHECK

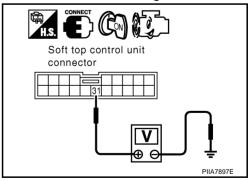
- 1. Start engine.
- 2. Operate soft top switch OPEN, check voltage between soft top control unit connector and ground.

Connector	Terminal (Wire color)		Roof condition	Voltage (V)
Connector	(+)	(-)	1001 Condition	(Approx.)
B67	31 (L)	Ground	$OP2 \to OP3$	5 → 0

### OK or NG

OK >> 5th bow half-latch switch is OK.

NG >> GO TO 2.



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# $\overline{2}$ . CHECK 5TH BOW HALF-LATCH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit and soft top lock switch (at 5th bow lock assembly in storage lid) connector.
- 3. Check continuity between soft top control unit connector B67 terminal 31 and soft top lock switch connector T205 terminal 5.

31 (L) - 5 (L) : Continuity should exist.

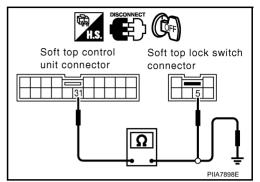
Check continuity between soft top control unit connector B67 terminal 31 and ground.

31 (L) - Ground : Continuity should not exist.

### OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.



### 3. CHECK 5TH BOW HALF-LATCH SWITCH GROUND CIRCUIT

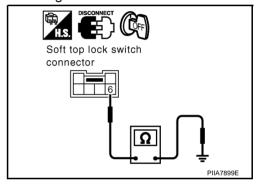
Check continuity between soft top lock switch connector T205 terminal 6 and ground.

6 (B) - Ground : Continuity should exist.

### OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness.



# 4. CHECK SOFT TOP CONTROL UNIT OUTPUT SIGNAL

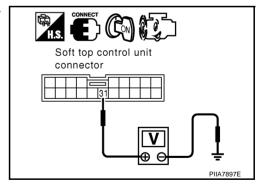
- 1. Connect soft top control unit connector.
- 2. Start engine.
- 3. Check voltage between soft top control unit connector B67 terminal 31 and ground.

31 (L) - Ground : Approx. 5V

### OK or NG

OK >> Replace 5th bow lock assembly in storage lid.

NG >> Replace soft top control unit.



## 5th Bow Actuator Check (Open Operate)

### 1. CHECK 5TH BOW ACTUATOR INPUT SIGNAL

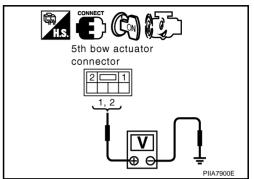
- 1. Start engine.
- Operate soft top switch OPEN, check voltage between 5th bow 2. actuator connector and ground.

Con-	Terminal (Wire color)		Roof condition	Voltage (V)
nector	(+)	(-)	Roof Condition	(Approx.)
B233	2 (G/R)	Ground	OP2 → OP3	0 → Battery voltage

### OK or NG

OK >> Replace 5th bow actuator.

NG >> GO TO 2.



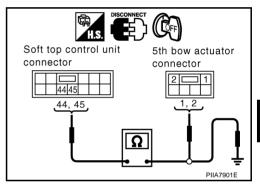
# 2. CHECK 5TH BOW ACTUATOR CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect soft top control unit and 5th bow actuator connector.
- Check continuity between soft top control unit connector B68 terminal 44, 45 and 5ht bow actuator connector B233 terminal 1, 2.

44 (G/R) - 1 (G/Y) : Continuity should exist. 45 (G/Y) - 2 (G/R) : Continuity should exist.

Check continuity between soft top control unit connector B68 terminal 44, 45 and ground.

> 44 (G/R) - Ground : Continuity should not exist. 45 (G/Y) - Ground : Continuity should not exist.



### OK or NG

OK >> Replace soft top control unit.

NG >> Repair or replace harness.

# 5th Bow Full Close Detection Switch Check (Open Operate)

CHECK 5TH BOW FULL CLOSE DETECTION SWITCH SIGNAL

1. Start engine.

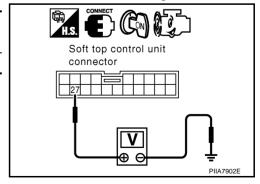
Operate soft top switch OPEN, check voltage between soft top control unit connector and ground.

Connector	Terminal (	Wire color)	Roof condition	Voltage (V)	
Connector	(+)	(-)	1001 Condition	(Approx.)	
B67	27 (W/G)	Ground	$OP3 \rightarrow OP4$	5 → 0	

### OK or NG

OK >> 5th bow full close switch is OK.

NG >> GO TO 2.



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# 2. CHECK 5TH BOW FULL CLOSE DETECTION SWITCH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit and 5th bow switch assembly (at plate rail RR) connector.
- Check continuity between soft top control unit connector B67 terminal 27 and 5th bow switch assembly connector B214 terminal 2.

27 (W/G) - 2 (W/G) : Continuity should exist.

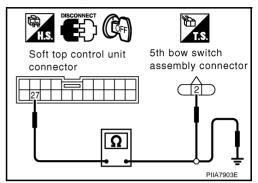
Check continuity between soft top control unit connector B67 terminal 27 and ground.

27 (W/G) - Ground : Continuity should not exist.

### OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.



# 3. CHECK 5TH BOW FULL CLOSE DETECTION SWITCH GROUND CIRCUIT

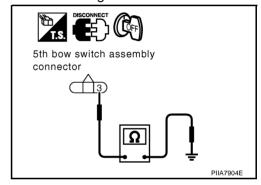
Check continuity between 5th bow switch assembly connector B214 terminal 3 and ground.

3 (B) - Ground : Continuity should exist.

### OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness.



# 4. CHECK SOFT TOP CONTORL UNIT OUTPUT SIGNAL

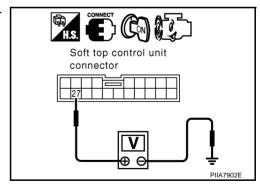
- 1. Connect soft top control unit connector.
- 2. Start engine.
- 3. Check voltage between soft top control unit connector B67 terminal 27 and ground.

27 (W/G) - Ground : Approx. 5V

### OK or NG

OK >> Replace plate rail RR.

NG >> Replace soft top control unit.



# 5th Bow Full Open Detection Switch Check (Open Operate)

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### 1. CHECK 5TH BOW FULL OPEN DETECTION SWTICH SIGNAL

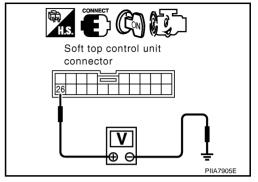
- 1. Start engine.
- 2. Operate soft top switch OPEN, check voltage between soft top control unit connector and ground.

Connector	Terminal (Wire color)		Roof condition	Voltage (V)	
Connector	(+)	(-)	1001 Condition	(Approx.)	
B67	26 (LG)	Ground	OP4 → OP5	5 → 0	

### OK or NG

OK >> 5th bow full open switch is OK.

NG >> GO TO 2.



# 2. CHECK 5TH BOW FULL OPEN DETECTION SWITCH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit and 5th bow switch assembly (at plate rail RR) connector.
- Check continuity between soft top control unit connector B67 terminal 26 and 5th bow switch assembly connector B214 terminal 1.

### 26 (LG) - 1 (LG) : Continuity should exist.

4. Check continuity between soft top control unit connector B67 terminal 26 and ground.



### OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.

# Soft top control unit connector Soft top control unit assembly connector Pila7906E

# 3. CHECK 5TH BOW FULL OPEN DETECTION SWITCH GROUND CIRCUIT

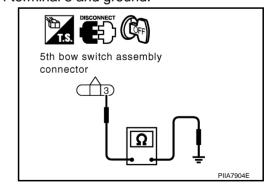
Check continuity between 5th bow switch assembly connector B214 terminal 3 and ground.

3 (B) - Ground : Continuity should exist.

### OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness.



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# 4. CHECK SOFT TOP CONTORL UNIT OUTPUT SIGNAL

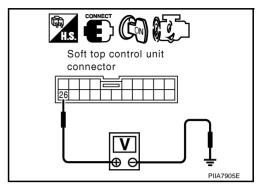
- 1. Connect soft top control unit connector.
- 2. Start engine.
- 3. Check voltage between soft top control unit connector B67 terminal 26 and ground.

26 (LG) - Ground : Approx. 5V

### OK or NG

OK >> Replace plate rail RR.

NG >> Replace soft top control unit.



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# **Storage Lid Unlock Actuator Check (Open Operate)**

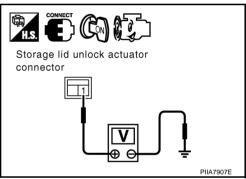
1. CHECK STORAGE LID UNLOCK ACTUATOR SIGNAL

- 1. Start engine.
- 2. Operate soft top switch OPEN, check voltage between storage lid unlock actuator (LH or RH) connector and ground.

Connector	Terminal (Wire color)		Roof condition	Voltage (V)	
Connector	(+)	(-)	1001 Condition	(Approx.)	
B65 (LH) B70 (RH)	1 (R)	Ground	OP5 → OP6	$0 \to \text{Battery voltage} \to 0$	

### OK or NG

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



# 2. CHECK STORAGE LID UNLOCK ACTUATOR CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect soft top control unit and storage lid unlock actuator connector.
- Check continuity between soft top control unit connector B66 terminal 15 and storage lid unlock actuator connector B65 (LH), B70 (RH) terminal 1.

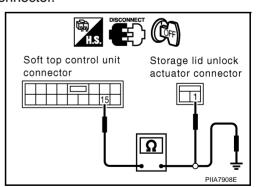
15 (OR) - 1 (R) : Continuity should exist.

 Check continuity between soft top control unit connector B66 terminal 15 and ground.

15 (OR) - Ground : Continuity should not exist.

### OK or NG

OK >> Replace soft top control unit.



# 3. CHECK STORAGE LID UNLOCK ACTUATOR GROUND CIRCUIT

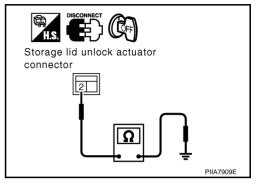
- 1. Turn ignition switch OFF.
- 2. Disconnect storage lid unlock actuator connector.
- 3. Check continuity between storage lid unlock actuator connector B65 (LH), B70 (RH) terminal 2 and ground.

2 (B) - Ground : Continuity should exist.

### OK or NG

OK >> Replace malfunction storage lid unlock actuator (LH or RH).

NG >> Repair or replace harness.



# Storage Lid Full Close Detection Switch Check (Open Operate)

1. CHECK STORAGE LID FULL CLOSE DETECTION SWITCH SIGNAL

1. Start engine.

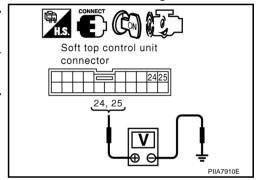
2. Operate soft top switch OPEN, check voltage between soft top control unit connector and ground.

Connector	Terminal (	Wire color)	Roof condition	Voltage (V)	
Connector	(+)	(-)	1001 condition	(Approx.)	
D67	24 (G)	Ground	OP5	F . 0	
B67	25 (L/Y)	Ground	OP6	5 → 0	

### OK or NG

OK >> Storage lid full close detection switch is OK.

NG >> GO TO 2.



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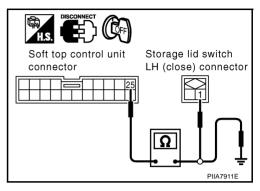
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# 2. CHECK STORAGE LID FULL CLOSE DETECTION SWITCH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit and storage lid switch (close) connector.
- 3. Check the following.
- Continuity between soft top control unit connector B67 terminal
   25 and storage lid switch LH (close) connector B64 terminal

 Continuity between soft top control unit connector B67 terminal 25 and ground.

25 (L/Y) - Ground : Continuity should not exist.



- Check the following.
- Continuity between soft top control unit connector B67 terminal
   24 and storage lid switch RH (close) connector B69 terminal

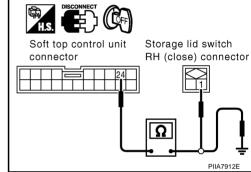
 Continuity between soft top control unit connector B67 terminal 24 and ground.

24 (G) - Ground : Continuity should not exist.

### OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.



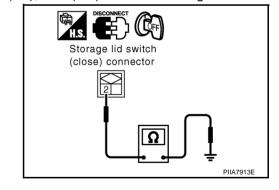
# 3. CHECK STORAGE LID FULL CLOSE DETECTION SWITCH GROUND CIRCUIT

Check continuity between storage lid switch (close) connector B64 (LH), B69 (RH) terminal 2 and ground.

2 (B) - Ground : Continuity should exist.

### OK or NG

OK >> GO TO 4.



# 4. CHECK SOFT TOP CONTROL UNIT OUTPUT SIGNAL

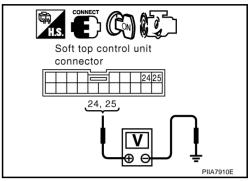
- 1. Connect soft top control unit connector.
- 2. Start engine.
- 3. Check voltage between soft top control unit connector B67 terminal 24, 25 and ground.

24 (G) - Ground : Approx. 5V 25 (L/Y) - Ground : Approx. 5V

### OK or NG

OK >> Replace malfunction storage lid full close detection switch (LH or RH).

NG >> Replace soft top control unit.



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### **Storage Lid Actuator Check (Open Operate)**

# 1. CHECK STORAGE LID ACTUATOR (OPEN) SIGNAL

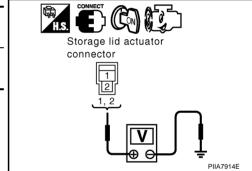
- 1. Start engine.
- 2. Operate soft top switch OPEN, check voltage between storage lid actuator connector and ground.

Connector	Terminal (Wire color)		Roof condition	Voltage (V)
Connector	(+)	(-)	1001 Condition	(Approx.)
T28 (LH)	2 (R/B)	Ground	OP6 → OP7	$0 \rightarrow \text{Battery voltage} \rightarrow 0$
T30 (RH)	1 (R/L)	Giodila	OF 0 → OF 1	0 → Dattery Voltage → 0

### OK or NG

OK >> Replace storage lid actuator (LH or RH).

NG >> GO TO 2.



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# $\overline{2}$ . CHECK STORAGE LID ACTUATOR CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit and storage lid actuator connector.
- Check the following.
- Continuity between soft top control unit connector B68 terminal 41, 48 and storage lid actuator (LH) connector T28 terminal 1, 2.

41 (R/L) - 2 (R/B) : Continuity should exist. 48 (Y/B) - 1 (Y/B) : Continuity should exist.

 Continuity between soft top control unit connector B68 terminal 41, 48 and ground.

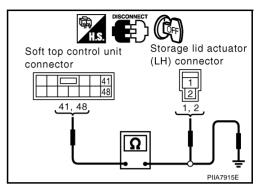
> 41 (R/L) - Ground : Continuity should not exist. 48 (Y/B) - Ground : Continuity should not exist.

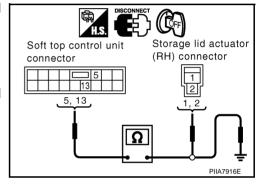
- 4. Check the following.
- Continuity between soft top control unit connector B66 terminal
   5, 13 and storage lid actuator (RH) connector T30 terminal
   2.

5 (R/B) - 1 (R/L) : Continuity should exist. 13 (L/R) - 2 (L/R) : Continuity should exist.

 Continuity between soft top control unit connector B66 terminal 5, 13 and ground.

> 5 (R/B) - Ground : Continuity should not exist. 13 (L/R) - Ground : Continuity should not exist.





### OK or NG

OK >> Replace soft top control unit. NG >> Repair or replace harness.

# Storage Lid Full Open Detection Switch Check (Open Operate)

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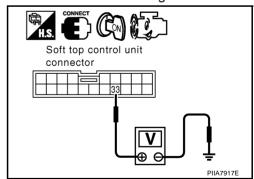
- 1. CHECK STORAGE LID FULL OPEN DETECTION SWITCH SIGNAL
- 1. Start engine.
- 2. Operate soft top switch OPEN, check voltage between soft top control unit connector and ground.

Connector	Terminal (	Wire color)	Roof condition	Voltage (V)
Connector	(+)	(-)	Roof condition	(Approx.)
B67	33 (P)	Ground	OP6 → OP7	$5 \rightarrow 0$

### OK or NG

OK >> Storage lid full open detection switch is OK.

NG >> GO TO 2.



# 2. CHECK SOTORAGE LID FULL OPEN DETECTION SWTICH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit and storage lid switch (open) connector.
- Check continuity between soft top control unit connector B67 terminal 33 and storage lid switch (open) connector T27 terminal 1.

33 (P) - 1 (P) : Continuity should exist.

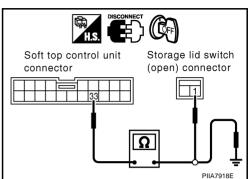
Check continuity between soft top control unit connector B67 terminal 33 and ground.

33 (P) - Ground : Continuity should not exist.

### OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.



# 3. CHECK STORAGE LID FULL OPEN DETECTION SWITCH GROUND CIRCUIT

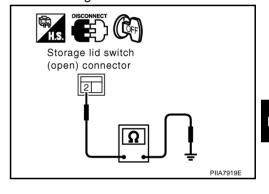
Check continuity between storage lid switch (open) connector T27 terminal 2 and ground.

2 (B) - Ground : Continuity should exist.

### OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness.



# 4. CHECK SOFT TOP CONTROL UNIT OUTPUT SIGNAL

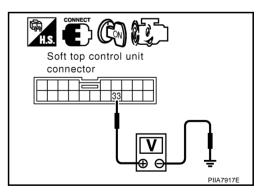
- 1. Connect soft top control unit connector.
- 2. Start engine.
- 3. Check voltage between soft top control unit connector B67 terminal 33 and ground.

33 (P) - Ground : Approx. 5V

### OK or NG

OK >> Replace storage lid switch (open).

NG >> Replace soft top control unit.



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# **Roof Actuator Check (Open Operate)**

# 1. CHECK ROOF ACTUATOR (OPEN) SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect roof actuator connector.
- 3. Start engine.
- 4. Operate soft top switch (OPEN), check voltage between roof actuator connector and ground.

Connector	Terminal (Wire color)		Roof condition	Voltage (V)	
Connector	(+)	(-)	1001 condition	(Approx.)	
B59 (LH)	2 (R)	Ground	OP8 → OP11	$0 \rightarrow Battery \ voltage \rightarrow 0$	
B72 (RH)	1 (R)	Ground	OP8 → OP11	0 → ballery vollage → 0	

# Roof actuator connector 1 2 1, 2 PIIA7920E

AIS005ZO

### OK or NG

OK >> Replace roof actuator (LH or RH).

NG >> GO TO 2.

# 2. CHECK ROOF ACTUATOR CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit connector.
- 3. Check the following.
- Continuity between soft top control unit connector B68 terminal 37, 42 and roof actuator (LH) connector B59 terminal 1, 2.

37 (R) - 2 (R) : Continuity should exist. 42 (Y) - 1 (Y) : Continuity should exist.

 Continuity between soft top control unit connector B68 terminal 37, 42 and ground.

> 37 (R) - Ground : Continuity should not exist. 42 (Y) - Ground : Continuity should not exist.

Soft top control unit connector

37
42
1, 2
1, 2
PIIA7921E

- Check the following.
- Continuity between soft top control unit connector B66 terminal
   3, 10 and roof actuator (RH) connector B72 terminal
   1, 2.

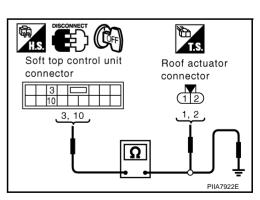
3 (R) - 1 (R) : Continuity should exist. 10 (Y) - 2 (Y) : Continuity should exist.

 Continuity between soft top control unit connector B66 terminal 3, 10 and ground.

3 (R) - Ground : Continuity should not exist.10 (Y) - Ground : Continuity should not exist.

### OK or NG

OK >> Replace soft top control unit.



# **Roll Bar Interference Prevention Switch Check (Open Operate)**

AIS005ZP

### 1. CHECK ROLL BAR INTERFERENCE PREVENTION SWITCH SIGNAL

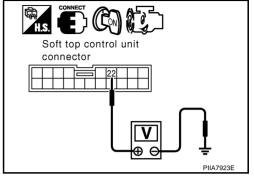
- 1. Start engine.
- 2. Operate soft top switch OPEN, check voltage between soft top control unit connector and ground.

Connector	Terminal (	Wire color)	Roof condition	Voltage (V)
Connector	(+)	(-)	1001 condition	(Approx.)
B67	22 (W/R)	Ground	OP8 → OP9	5 → 0

### OK or NG

OK >> Roll bar interference prevention switch is OK.

NG >> GO TO 2.



### $2.\,$ CHECK ROLL BAR INTERFERENCE PREVENTION SWTICH CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect soft top control unit and soft top switch assembly 2 (roll bar interference prevention switch) connector.
- Check continuity between soft top control unit connector B67 terminal 22 and soft top switch assembly 2 connector B213 terminal 3.

22 (W/R) - 3 (W/R) : Continuity should exist.

4. Check continuity between soft top control unit connector B67 terminal 22 and ground.

22 (W/R) - Ground : Continuity should not exist.

### OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.

# Soft top control unit connector 22 PIIAT924E

# 3. CHECK ROLL BAR INTERFERENCE PREVENTION SWITCH GROUND CIRCUIT

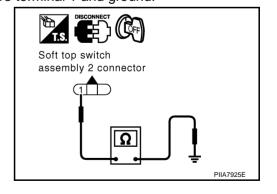
Check continuity between soft top switch assembly 2 connector B213 terminal 1 and ground.

1 (B) - Ground : Continuity should exist.

### OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness.



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# 4. CHECK SOFT TOP CONTROL UNIT OUTPUT SIGNAL

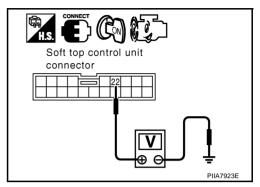
- 1. Connect soft top control unit connector.
- 2. Start engine.
- Check voltage between soft top control unit connector B67 terminal 22 and ground.

22 (W/R) - Ground : Approx. 5V

### OK or NG

OK >> Replace soft top switch assembly 2.

NG >> Replace soft top control unit.



AIS005ZQ

# **Body Interference Prevention Switch Check (Open Operate)**

1. CHECK BODY INTERFERENCE PREVENTION SWITCH

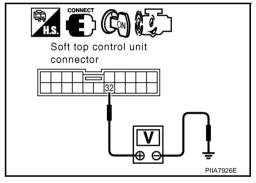
- 1. Start engine.
- 2. Operate soft top switch OPEN, check voltage between soft top control unit connector and ground.

Connector	Terminal (Wire color)		Roof condition	Voltage (V)	
Connector	(+)	(-)	1001 Condition	(Approx.)	
B67	32 (W)	Ground	OP10	$5 \rightarrow 0$	

### OK or NG

OK >> Body interference prevention switch is OK.

NG >> GO TO 2.



# 2. CHECK BODY INTERFERENCE PREVENTION SWITCH CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect soft top control unit and soft top switch assembly 2 (body interference prevention switch) connector.
- 3. Check continuity between soft top control unit connector B67 terminal 32 and soft top switch assembly 1 connector B212 terminal 2.

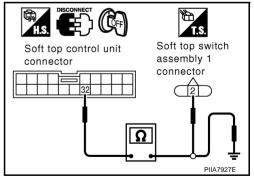
### 32 (W) - 2 (W) : Continuity should exist.

Check continuity between soft top control unit connector B67 terminal 32 and ground.

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

### OK or NG

OK >> GO TO 3.



# 3. CHECK BODY INTERFERENCE PREVENTION SWITCH GROUND CIRCUIT

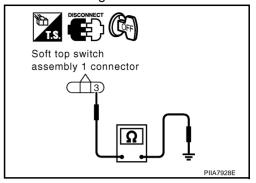
Check continuity between soft top switch assembly 1 connector B212 terminal 3 and ground.

3 (B) - Ground : Continuity should exist.

### OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness.



### 4. CHECK SOFT TOP CONTROL UNIT OUTPUT SIGNAL

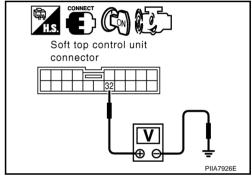
- 1. Connect soft top control unit connector.
- 2. Start engine.
- 3. Check voltage between soft top control unit connector B67 terminal 32 and ground.

32 (W) - Ground : Approx. 5V

### OK or NG

OK >> Replace soft top switch assembly 1.

NG >> Replace soft top control unit.



# **Roof Full Open Detection Switch Check (Open Operate)**

1. CHECK ROOF FULL OPEN DETECTION SWTICH SIGNAL

Start engine.

2. Operate soft top switch OPEN, check voltage between soft top control unit connector and ground.

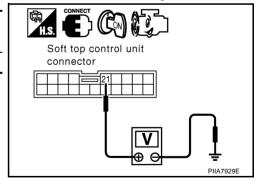
**RF-57** 

Connector	Terminal (Wire color)		Roof condition	Voltage (V)	
Connector	(+)	(-)	1001 Condition	(Approx.)	
B67	21 (W/L)	Ground	OP10 → OP11	5 → 0	

### OK or NG

OK >> Roof full open detection switch is OK.

NG >> GO TO 2.



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# $\overline{2}$ . CHECK ROOF OPEN DETECTION SWITCH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit and soft top switch assembly 1 connector.
- Check continuity between soft top control unit connector B67 terminal 21 and soft top switch assembly 1 connector B212 terminal 1.

21 (W/L) - 1 (W/L) : Continuity should exist.

Check continuity between soft top control unit connector B67 terminal 21 and ground.

> 21 (W/L) - Ground : Continuity should not exist.

### OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.

# Soft top switch Soft top control unit assembly 1 connector connector

# 3. CHECK SOFT TOP CONTROL UNIT OUTPUT SIGNAL

- Connect soft top control unit connector.
- 2. Start engine.
- Check voltage between soft top control unit connector B67 terminal 21 and ground.

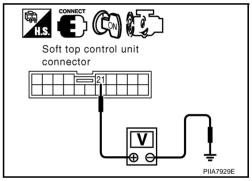
21 (W/L) - Ground : Approx. 5V

### OK or NG

OK

>> Replace soft top switch assembly 1.

>> Replace soft top control unit.



AIS005ZS

# **Storage Lid Unlock Actuator Check (Close Operate)**

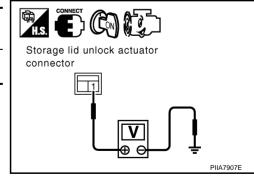
1. CHECK STORAGE LID UNLOCK ACTUATOR SIGNAL

- 1. Start engine.
- 2. Operate soft top switch CLOSE, check voltage between storage lid unlock actuator connector and ground.

Connector -	Terminal (Wire color)		Roof condition	Voltage (V)	
	(+)	(-)	1001 condition	(Approx.)	
B65 (LH) B70 (RH)	1 (R)	Ground	CL1 → CL2	$0 \rightarrow \text{Battery voltage} \rightarrow 0$	

### OK or NG

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



# $\overline{2}$ . CHECK STORAGE LID UNLOCK ACTUATOR CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect soft top control unit and storage lid unlock actuator connector.
- Check continuity between soft top control unit connector B66 terminal 15 and storage lid unlock actuator connector B65 (LH), B70 (RH) terminal 1.

: Continuity should exist. 15 (OR) - 1 (R)

Check continuity between soft top control unit connector B66 terminal 15 and ground.

> 15 (OR) - Ground : Continuity should not exist.

### OK or NG

OK >> Replace soft top control unit.

NG >> Repair or replace harness.

# $oldsymbol{3}.$ Check storage lid unlock actuator ground circuit

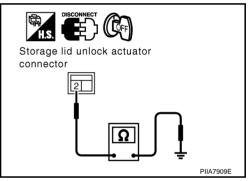
- Turn ignition switch OFF.
- 2. Disconnect storage lid unlock actuator connector.
- Check continuity between storage lid unlock actuator connector B65 (LH), B70 (RH) terminal 2 and ground.

: Continuity should exist. 2 (B) - Ground

### OK or NG

OK >> Replace malfunction storage lid unlock actuator (LH or

NG >> Repair or replace harness.



# Storage Lid Full Close Detection Switch Check (Close Operate)

1. CHECK STORAGE LID FULL CLOSE DETECTION SWITCH SIGNAL

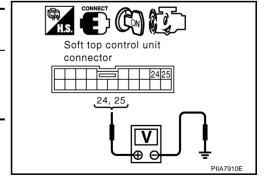
- 1. Start engine.
- 2. Operate soft top switch CLOSE, check voltage between soft top control unit connector and ground.

Connector	Terminal (	Wire color)	Roof condition	Voltage (V)	
Connector	(+)	(-)	Noor condition	(Approx.)	
B67	24 (G) for switch RH	Ground	CL1	5 → 0	
867	25 (L/Y) for switch LH	Ground	CL1 → CL2	J → 0	

### OK or NG

OK >> Storage lid full close detection switch is OK.

NG >> GO TO 2.



Soft top control unit Storage lid unlock connector actuator connector

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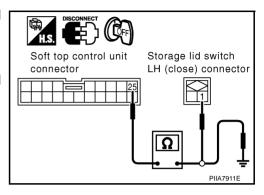
# 2. CHECK STORAGE LID FULL CLOSE DETECTION SWTICH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit and storage lid switch (close) connector.
- 3. Check the following.
- Continuity between soft top control unit connector B67 terminal
   25 and storage lid switch LH (close) connector B64 terminal

25 (L/Y) - 1 (L/Y) : Continuity should exist.

 Continuity between soft top control unit connector B67 terminal 25 and ground.

25 (L/Y) - Ground : Continuity should not exist.



- 4. Check the following.
- Continuity between soft top control unit connector B67 terminal
   24 and storage lid switch RH (close) connector B69 terminal

24 (G) - 1 (G) : Continuity should exist.

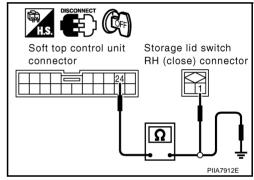
 Continuity between soft top control unit connector B67 terminal 24 and ground.

24 (G) - Ground : Continuity should not exist.

### OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.



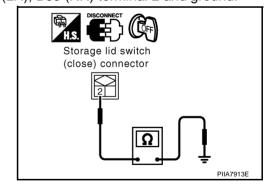
# 3. CHECK STORAGE LID FULL CLOSE DETECTION SWITCH GROUND CIRCUIT

Check continuity between storage lid switch (close) connector B64 (LH), B69 (RH) terminal 2 and ground.

2 (B) - Ground : Continuity should exist.

### OK or NG

OK >> GO TO 4.



# 4. CHECK SOFT TOP ROOF CONTROL UNIT OUTPUT SIGNAL

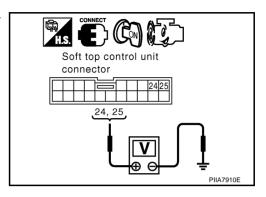
- 1. Connect soft top control unit connector.
- 2. Start engine.
- 3. Check voltage between soft top control unit connector B67 terminal 24, 25 and ground.

24 (G) - Ground : Approx. 5V 25 (L/Y) - Ground : Approx. 5V

### OK or NG

OK >> Replace storage lid full close detection switch RH or LH.

NG >> Replace soft top control unit.



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# **Storage Lid Actuator Check (Close Operate)**

# 1. CHECK STORAGE LID ACTUATOR (CLOSE) SIGNAL

1. Start engine.

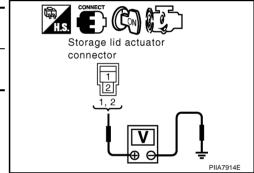
2. Operate soft top switch CLOSE, check voltage between storage lid actuator connector and ground.

Connector	Terminal (Wire color)		Roof condition	Voltage (V)
Connector	(+)	(-)	1001 condition	(Approx.)
T28 (LH)	1 (Y/B)	Ground	CL2 → CL3	0 → Battery voltage → 0
T30 (RH)	2 (L/R)	Giodila	CLZ → CL3	0 → Battery Voltage → 0

### OK or NG

OK >> Replace storage lid actuator (LH or RH).

NG >> GO TO 2.



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# $\overline{2}$ . CHECK STORAGE LID ACTUATOR CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit and storage lid actuator connector.
- Check the following.
- Continuity between soft top control unit connector B68 terminal 41, 48 and storage lid actuator (LH) connector T28 terminal 1, 2.

41 (R/L) - 2 (R/B) : Continuity should exist. 48 (Y/B) - 1 (Y/B) : Continuity should exist.

 Continuity between soft top control unit connector B68 terminal 41, 48 and ground.

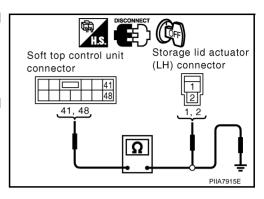
> 41 (R/L) - Ground : Continuity should not exist. 48 (Y/B) - Ground : Continuity should not exist.

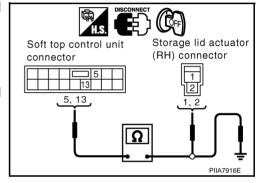
- 4. Check the following.
- Continuity between soft top control unit connector B66 terminal
   5, 13 and storage lid actuator (RH) connector T30 terminal
   1, 2.

5 (R/B) - 1 (R/L) : Continuity should exist. 13 (L/R) - 2 (L/R) : Continuity should exist.

 Continuity between soft top control unit connector B66 terminal 5, 13 and ground.

> 5 (R/B) - Ground : Continuity should not exist. 13 (L/R) - Ground : Continuity should not exist.





### OK or NG

OK >> Replace soft top control unit. NG >> Repair or replace harness.

# Storage Lid Full Open Detection Switch Check (Close Operate)

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### 1. CHECK STORAGE LID FULL OPEN DETECTION SWITCH SIGNAL

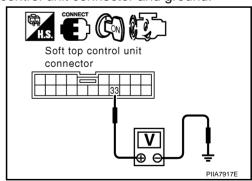
- 1. Start engine.
- Operate soft top switch CLOSE, check voltage between soft top control unit connector and ground.

Connector	Terminal (Wire color)		Roof condition	Voltage (V)
Connector	(+)	(-)	Roof condition	(Approx.)
B67	33 (P)	Ground	$CL2 \to CL3$	$5 \rightarrow 0$

### OK or NG

OK >> Storage lid full open detection switch is OK.

NG >> GO TO 2.



# $\overline{2}$ . CHECK SOTORAGE LID FULL OPEN DETECTION SWITCH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit and storage lid switch (open) connector.
- Check continuity between soft top control unit connector B67 terminal 33 and storage lid switch (open) connector T27 terminal 1.

### 33 (P) - 1 (P) : Continuity should exist.

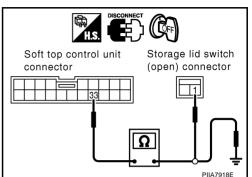
4. Check continuity between soft top control unit connector B67 terminal 33 and ground.

33 (P) - Ground : Continuity should not exist.

### OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.



# 3. CHECK STORAGE LID FULL OPEN DETECTION SWITCH GROUND CIRCUIT

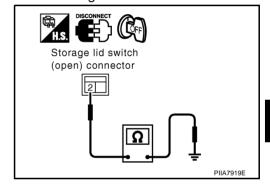
Check continuity between storage lid switch (open) connector T27 terminal 2 and ground.

2 (B) - Ground : Continuity should exist.

### OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness.



# 4. CHECK SOFT TOP CONTROL UNIT OUTPUT SIGNAL

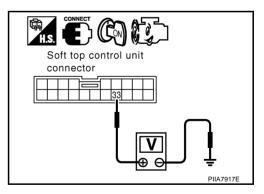
- 1. Connect soft top control unit connector.
- 2. Start engine.
- 3. Check voltage between soft top control unit connector B67 terminal 33 and ground.

33 (P) - Ground : Approx. 5V

### OK or NG

OK >> Replace storage lid switch (open).

NG >> Replace soft top control unit.



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# **Body Interference Prevention Switch Check (Close Operate)**

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### 1. CHECK BODY INTERFERENCE PREVENTION SWITCH

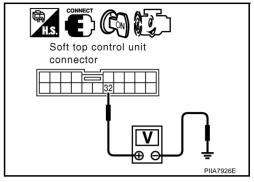
- Start engine.
- 2. Operate soft top switch CLOSE, check voltage between soft top control unit connector and ground.

Connector	Terminal (Wire color)		Roof condition	Voltage (V)
	(+)	(-)	reor condition	(Approx.)
B67	32 (W)	Ground	CL3	$0 \rightarrow 5$

### OK or NG

OK >> Body interference prevention switch is OK.

NG >> GO TO 2.



# 2. CHECK BODY INTERFERENCE PREVENTION SWITCH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit and soft top switch assembly 1 (body interference prevention switch) connector.
- Check continuity between soft top control unit connector B67 terminal 32 and soft top switch assembly 1 connector B212 terminal 2.

### 32 (W) - 2 (W) : Continuity should exist.

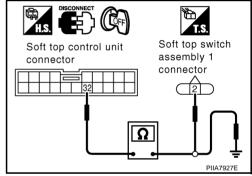
Check continuity between soft top control unit connector B67 terminal 32 and ground.

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

### OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.



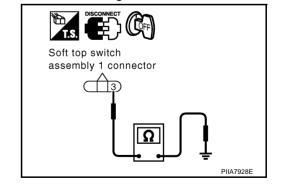
# 3. CHECK BODY INTERFERENCE PREVENTION SWITCH GROUND CIRCUIT

Check continuity between soft top switch assembly 1 connector B212 terminal 3 and ground.

3 (B) - Ground : Continuity should exist.

### OK or NG

OK >> GO TO 4.



# 4. CHECK SOFT TOP CONTROL UNIT OUTPUT SIGNAL

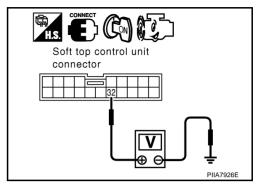
- 1. Connect soft top control unit connector.
- 2. Start engine.
- 3. Check voltage between soft top control unit connector B67 terminal 32 and ground.

32 (W) - Ground : Approx. 5V

### OK or NG

OK >> Replace soft top switch assembly 1.

NG >> Replace soft top control unit.



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### **Roof Actuator Check (Close Operate)**

# 1. CHECK ROOF ACTUATOR (CLOSE) SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect roof actuator connector.
- 3. Start engine.
- 4. Operate soft top switch (CLOSE), check voltage between roof actuator connector and ground.

Connector	Terminal (Wire color)		Roof condition	Voltage (V)
Connector	(+)	(-)	1001 condition	(Approx.)
B59 (LH)	1 (Y)	Ground	CL3 → CL6	$0 \rightarrow \text{Battery voltage} \rightarrow 0$
B72 (RH)	2 (Y)	Glound		

# Roof actuator connector

OK or NG

OK >> Replace roof actuator (LH or RH).

NG >> GO TO 2.

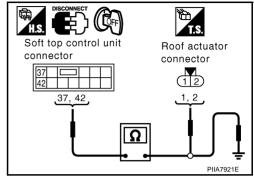
# 2. CHECK ROOF ACTUATOR CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit connector.
- 3. Check the following.
- Continuity between soft top control unit connector B68 terminal 37, 42 and roof actuator (LH) connector B59 terminal 1, 2.

37 (R) - 2 (R) : Continuity should exist. 42 (Y) - 1 (Y) : Continuity should exist.

 Continuity between soft top control unit connector B68 terminal 37, 42 and ground.

37 (R) - Ground : Continuity should not exist.42 (Y) - Ground : Continuity should not exist.



- 4. Check the following.
- Continuity between soft top control unit connector B66 terminal
   3, 10 and roof actuator (RH) connector B72 terminal
   1, 2.

3 (R) - 1 (R) : Continuity should exist. 10 (Y) - 2 (Y) : Continuity should exist.

 Continuity between soft top control unit connector B66 terminal 3, 10 and ground.

3 (R) - Ground : Continuity should not exist.10 (Y) - Ground : Continuity should not exist.

# 3, 10 1, 2

Soft top control unit

connector

### OK or NG

OK >> Replace soft top control unit. NG >> Repair or replace harness.

# Roof Full Close Detection Switch Check

AIS005ZY

Roof actuator

connector

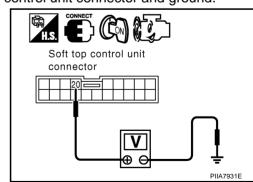
- 1. CHECK ROOF FULL CLOSE DETECTION SWTICH SIGNAL
- 1. Start engine.
- 2. Operate soft top switch CLOSE, check voltage between soft top control unit connector and ground.

Connector	Terminal (Wire color)		Roof condition	Voltage (V)
Connector	(+)	(-)	1001 condition	(Approx.)
B67	20 (W/B)	Ground	CL5 → CL6	0 → 5

### OK or NG

OK >> Roof full close detection switch is OK.

NG >> GO TO 2.



# $\overline{2}$ . CHECK ROOF FULL CLOSE DETECTION SWITCH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit and soft top switch assembly 2 (roof full close detection switch) connector.
- Check continuity between soft top control unit connector B67 terminal 20 and soft top switch assembly 2 connector B213 terminal 2.

20 (W/B) - 2 (W/G) : Continuity should exist.

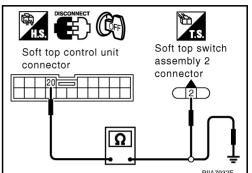
Check continuity between soft top control unit connector B67 terminal 20 and ground.

20 (W/B) - Ground : Continuity should not exist.

### OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.



# 3. CHECK ROOF FULL CLOSE DETECTION SWITCH GROUND CIRCUIT

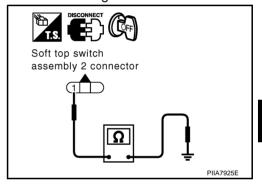
Check continuity between soft top switch assembly 2 connector B213 terminal 1 and ground.

1 (B) - Ground : Continuity should exist.

### OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness.



# 4. CHECK SOFT TOP CONTROL UNIT OUTPUT SIGNAL

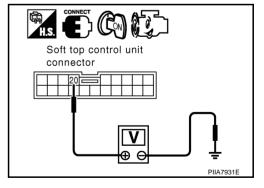
- 1. Connect soft top control unit connector.
- 2. Start engine.
- 3. Check voltage between soft top control unit connector B67 terminal 20 and ground.

20 (W/B) - Ground : Approx. 5V

### OK or NG

OK >> Replace soft top switch assembly 2.

NG >> Replace soft top control unit.



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# **5th Bow Actuator Check (Close Operate)**

### 1. CHECK 5TH BOW ACTUATOR INPUT SIGNAL

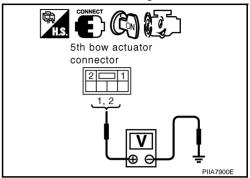
- 1. Start engine.
- 2. Operate soft top switch CLOSE, check voltage between 5th bow actuator connector and ground.

Connector	Terminal (	Wire color)	Roof condition	Voltage (V)
Connector	(+)	(-)	Roof Cortainon	(Approx.)
B233	1 (G/Y)	Ground	$CL4 \rightarrow CL5$	0  o Battery voltage  o 0

### OK or NG

OK >> Replace 5th bow actuator.

NG >> GO TO 2.



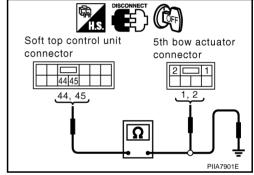
# 2. CHECK 5TH BOW ACTUATOR CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect soft top control unit and 5th bow actuator connector.
- 3. Check continuity between soft top control unit connector B68 terminal 44, 45 and 5ht bow actuator connector B233 terminal 1, 2.

44 (G/R) - 1 (G/Y) : Continuity should exist. 45 (G/Y) - 2 (G/R) : Continuity should exist.

4. Check continuity between soft top control unit connector B68 terminal 44, 45 and ground.

44 (G/R) - Ground : Continuity should not exist. 45 (G/Y) - Ground : Continuity should not exist.



### OK or NG

OK >> Replace soft top control unit. NG >> Repair or replace harness.

# 5th Bow Full Close Detection Switch Check (Close Operate)

AIS00600

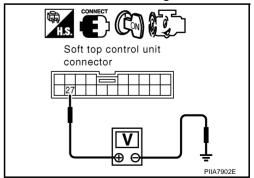
- 1. CHECK 5TH BOW FULL CLOSE DETECTION SWITCH SIGNAL
- Start engine.
- 2. Operate soft top switch CLOSE, check voltage between soft top control unit connector and ground.

Connector	Terminal (Wire color)		Roof condition	Voltage (V)
	(+)	(-)	1001 condition	(Approx.)
B67	27 (W/G)	Ground	$CL5 \to CL6$	$0 \rightarrow 5 \rightarrow 0$

### OK or NG

OK >> 5th bow full close switch is OK.

NG >> GO TO 2.



AIS005ZZ

# $\overline{2}$ . CHECK 5TH BOW FULL CLOSE DETECTION SWITCH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit and 5th bow switch assembly (at plate rail RR) connector.
- Check continuity between soft top control unit connector B67 terminal 27 and 5th bow switch assembly connector B214 terminal 2.

27 (W/G) - 2 (W/G) : Continuity should exist.

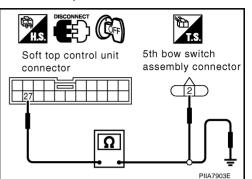
 Check continuity between soft top control unit connector B67 terminal 27 and ground.

27 (W/G) - Ground : Continuity should not exist.

### OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.



# 3. CHECK 5TH BOW FULL CLOSE DETECTION SWITCH GROUND CIRCUIT

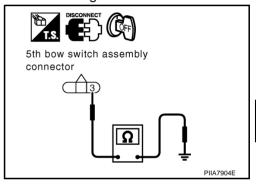
Check continuity between 5th bow switch assembly connector B214 terminal 3 and ground.

3 (B) - Ground : Continuity should exist.

### OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness.



# 4. CHECK SOFT TOP CONTORL UNIT OUTPUT SIGNAL

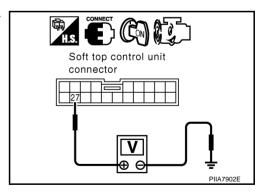
- 1. Connect soft top control unit connector.
- 2. Start engine.
- 3. Check voltage between soft top control unit connector B67 terminal 27 and ground.

27 (W/G) - Ground : Approx. 5V

### OK or NG

OK >> Replace plate rail RR.

NG >> Replace soft top control unit.



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# 5th Bow Full Open Detection Switch Check (Close Operate)

AIS00601

### 1. CHECK 5TH BOW FULL OPEN DETECTION SWTICH SIGNAL

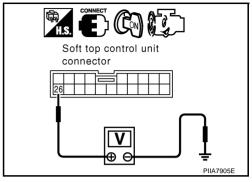
- Start engine.
- 2. Operate soft top switch CLOSE, check voltage between soft top control unit connector and ground.

Connector	Terminal (Wire color)		Roof condition	Voltage (V)
Connector	(+)	(-)	Roof Condition	(Approx.)
B67	26 (LG)	Ground	CL6 → CL7	5 → 0

### OK or NG

OK >> 5th bow full open switch is OK.

NG >> GO TO 2.



# 2. CHECK 5TH BOW FULL OPEN DETECTION SWITCH CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect soft top control unit and 5th bow switch assembly connector.
- Check continuity between soft top control unit connector B67 terminal 26 and 5th bow switch assembly connector B214 terminal 1.

 Check continuity between soft top control unit connector B67 terminal 26 and ground.

26 (LG) - Ground : Continuity should not exist.

### OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.

# Soft top control unit connector 5th bow switch assembly connector

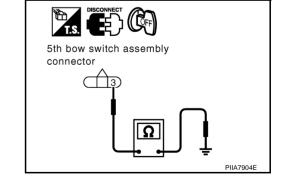
# 3. CHECK 5TH BOW FULL OPEN DETECTION SWITCH GROUND CIRCUIT

Check continuity between 5th bow switch assembly connector B214 terminal 3 and ground.

3 (B) - Ground : Continuity should exist.

### OK or NG

OK >> GO TO 4.



# 4. CHECK SOFT TOP CONTORL UNIT OUTPUT SIGNAL

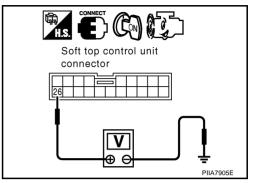
- 1. Connect soft top control unit connector.
- 2. Start engine.
- Check voltage between soft top control unit connector B67 terminal 26 and ground.

26 (LG) - Ground : Approx. 5V

### OK or NG

OK >> Replace plate rail RR.

NG >> Replace soft top control unit.



AIS00602

# 5th Bow Half-Latch Switch Check (Close Operate)

### 1. CHECK 5TH BOW HALF-LATCH SWITCH SIGNAL CHECK

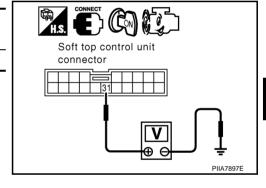
- Start engine.
- Operate soft top switch CLOSE, check voltage between soft top control unit connector and ground.

Connector	Terminal (Wire color)		Roof condition	Voltage (V)
Connector	(+)	(-)	Roof condition	(Approx.)
B67	31 (L)	Ground	CL9 → CL10	0 → 5

### OK or NG

OK >> 5th bow half-latch switch is OK.

NG >> GO TO 2.



# 2. CHECK 5TH BOW HALF-LATCH CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect soft top control unit and soft top lock switch (at 5th bow lock assembly in storage lid) connector.
- Check continuity between soft top control unit connector B67 terminal 31 and soft top lock switch connector T205 terminal 5.

: Continuity should exist. 31 (L) - 5 (L)

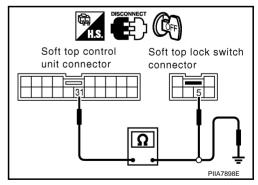
Check continuity between soft top control unit connector B67 terminal 31 and ground.

> 31 (L) - Ground : Continuity should not exist.

### OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.



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# 3. CHECK 5TH BOW HALF-LATCH SWITCH GROUND CIRCUIT

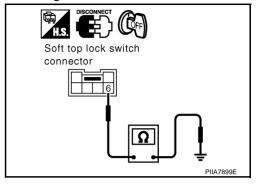
Check continuity between soft top lock switch connector T205 terminal 6 and ground.

6 (B) - Ground : Continuity should exist.

### OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness.



# 4. CHECK SOFT TOP CONTROL UNIT OUTPUT SIGNAL

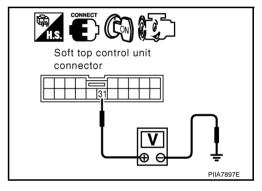
- 1. Connect soft top control unit connector.
- 2. Start engine.
- 3. Check voltage between soft top control unit connector B67 terminal 31 and ground.

31 (L) - Ground : Approx. 5V

### OK or NG

OK >> Replace 5th bow lock assembly in storage lid.

NG >> Replace soft top control unit.



AIS00603

### 5th Bow Full-Latch Switch Check

# 1. CHECK 5TH BOW FULL-LATCH SWITCH SIGNAL

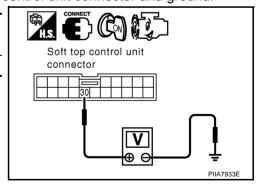
- 1. Start engine.
- 2. Operate soft top switch CLOSE, check voltage between soft top control unit connector and ground.

Connector	Terminal (Wire color)		Roof condition	Voltage (V)
Connector	(+)	(-)	1001 Condition	(Approx.)
B67	30 (Y/R)	Ground	CL10	0 → 5

### OK or NG

OK >> 5th bow full-latch switch is OK.

NG >> GO TO 2.



# $\overline{2}$ . CHECK 5TH BOW FULL-LATCH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit and soft top lock switch (at 5th bow lock assembly in storage lid) connector.
- Check continuity between soft top control unit connector B67 terminal 30 and soft top lock switch connector T205 terminal 3.

30 (Y/R) - 3 (Y) : Continuity should exist.

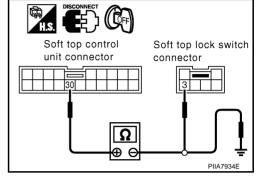
4. Check continuity between soft top control unit connector B67 terminal 30 and ground.

30 (Y/R) - Ground : Continuity should not exist.

#### OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.



# 3. CHECK 5TH BOW HALF-LATCH SWITCH GROUND CIRCUIT

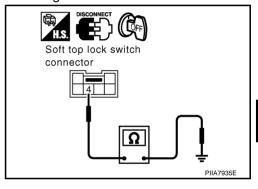
Check continuity between soft top lock switch connector T205 terminal 4 and ground.

4 (B) - Ground : Continuity should exist.

#### OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness.



# 4. CHECK SOFT TOP CONTROL UNIT OUTPUT SIGNAL

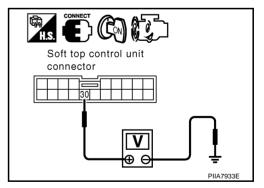
- 1. Connect soft top control unit connector.
- 2. Start engine.
- 3. Check voltage between soft top control unit connector B67 terminal 30 and ground.

**30 (Y/R) - Ground : Approx. 5V** 

#### OK or NG

OK >> Replace 5th bow assembly in storage lid.

NG >> Replace soft top control unit.



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## 5th Bow Ending Switch Check

#### 1. CHECK 5TH BOW ENDING SWITCH SIGNAL

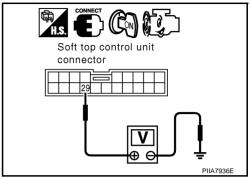
- 1. Start engine.
- 2. Operate soft top switch CLOSE, check voltage between soft top control unit connector and ground.

Connector	Terminal (	Wire color)	Roof condition	Voltage (V)	
	(+)	(-)	1001 Condition	(Approx.)	
B67	29 (R/Y)	Ground	CL10	0 → 5	

#### OK or NG

OK >> 5th bow ending switch is OK.

NG >> GO TO 2.



AIS00604

## 2. CHECK 5TH BOW ENDING CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit and soft top lock switch (at 5th bow lock assembly in storage lid) connector.
- 3. Check continuity between soft top control unit connector B67 terminal 29 and soft top lock switch connector T205 terminal 1.

Check continuity between soft top control unit connector B67 terminal 29 and ground.

29 (R/Y) - Ground : Continuity should not exist.

#### OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.

# Soft top control unit connector 29 PIIA7937E

# 3. CHECK 5TH BOW ENDING SWITCH GROUND CIRCUIT

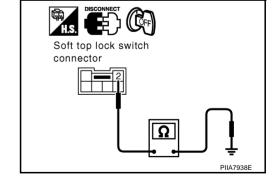
Check continuity between soft top lock switch connector T205 terminal 2 and ground.

2 (B) - Ground : Continuity should exist.

#### OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness.



# 4. CHECK SOFT TOP CONTROL UNIT OUTPUT SIGNAL

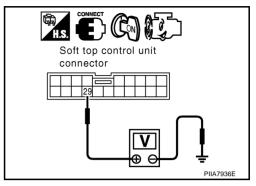
- 1. Connect soft top control unit connector.
- 2. Start engine.
- Check voltage between soft top control unit connector B67 terminal 29 and ground.

29 (R/Y) - Ground : Approx. 5V

#### OK or NG

OK >> Replace 5th bow lock assembly in storage lid.

NG >> Replace soft top control unit.



AIS00605

#### 5th Bow Closure Motor Check

#### 1. 5TH BOW CLOSURE MOTOR INPUT SIGNAL

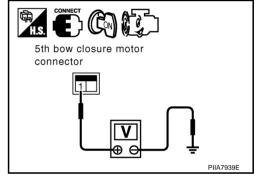
- Start engine.
- Operate soft top switch CLOSE, check voltage between 5th bow closure motor connector and ground.

Connector -	Terminal (Wire color)		Roof condition	Voltage (V)	
	(+)	(-)	1001 condition	(Approx.)	
T204	1 (W)	Ground	CL9 → CL10	$0 \rightarrow \text{Battery voltage} \rightarrow 0$	

#### OK or NG

OK >> Replace 5th bow closure motor.

NG >> GO TO 2.



# 2. CHECK 5TH BOW CLOSURE MOTOR CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit and 5th bow closure motor connector.
- Check continuity between soft top control unit connector B66 terminal 4, 12 and 5th bow closure motor connector T204 terminal 1, 2.

4 (G/W) - 1 (W) : Continuity should exist. 12 (G/Y) - 2 (G) : Continuity should exist.

Check continuity between soft top control unit connector B66 terminal 4, 12 and ground.

> 4 (G/W) - Ground : Continuity should not exist. 12 (G/Y) - Ground : Continuity should not exist.

## Soft top control unit 5th bow closure connector motor connector 4 🗀 1 2 12 4, 12

#### OK or NG

OK >> Replace soft top control unit.

NG >> Repair or replace harness.

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# **Operation Permission Condition Check**

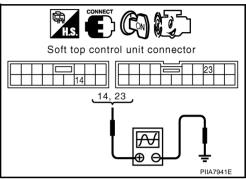
AIS0060

First perform the "SELF-DIAG RESULT" in "BCM" with CONSULT-II, then perform the each trouble diagnosis of malfunction system indicated "SELF-DIAG RESULT" of "BCM". Refer to <u>BCS-15, "CONSULT-II Function (BCM)"</u>.

# 1. CHECK VEHICLE SPEED SIGNAL

- 1. Start engine.
- 2. Check the signal between soft top control unit connector and ground.

Connec- tor	Terminal (Wire color)		Condition	Signal (Reference value.)	
	(+)	(-)		(Itelefolioe value.)	
B66	14 (W)	Ground	Speedometer operated [When vehicle speed	(V) 15 10 5 0 + + 20ms PKIA1935E	
B67	23 (W/G)	Glound	is Approx. 40km/h (25MPH)]	(V) 15 10 5 0 PIIB0078J	



#### OK or NG

OK >> GO TO 3.

NG >> GO TO 2.

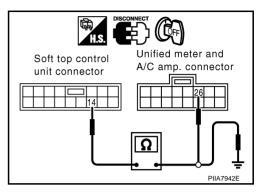
# $\overline{2}$ . CHECK VEHICLE SPEED SIGNAL CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit and unified meter and A/C amp connector.
- 3. Check the following.
- Continuity between soft top control unit connector B66 terminal
   14 and unified meter and A/C amp connector M49 terminal

14 (W) - 26 (W) : Continuity should exist.

 Continuity between soft top control unit connector B66 terminal 14 and ground.

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



- Check the following.
- Continuity between soft top control unit connector B67 terminal 23 and unified meter and A/C amp connector M49 terminal 34.

23 (W/G) - 34 (W/G) : Continuity should exist.

 Continuity between soft top control unit connector B67 terminal 23 and ground.

23 (W/G) - Ground : Continuity should not exist.

#### OK or NG

OK >> Check unified meter and A/C amp. Refer to <u>DI-49, "System Description"</u>.

NG >> Repair or replace harness.

# Soft top control unit connector Unified meter and A/C amp. connector A/C amp. display in the second secon

## 3. CHECK FUSE

Check 10A fuse [No.20, located in fuse block (J/B)].

#### NOTE

Refer to RF-11, "Component Parts and Harness Connector Location".

#### OK or NG

NG

OK >> GO TO 4.

>> If fuse blown out, be sure to eliminate cause of malfunction before installing new fuse. Refer to PG-3, "POWER SUPPLY ROUTING CIRCUIT".

#### 4. CHECK BRAKE PEDAL SIGNAL

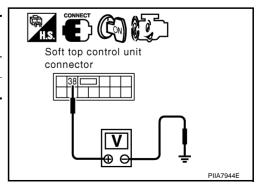
Check voltage between soft top control unit connector and ground.

Connector	Terminal (Wire color)		Brake pedal condi-	Voltage (V)
Connector	(+)	(-)	tion	(Approx.)
B68	B68 38 (P/L) Grou		Depressed	Battery voltage
Боо			Released	0

#### OK or NG

OK >> Operation permission condition is OK.

NG >> GO TO 5.



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# 5. CHECK BRAKE PEDAL SIGNAL CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit and stop lamp switch connector.
- Check the following.

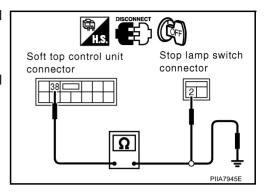
#### (M/T Models)

 Continuity between soft top control unit connector B68 terminal 38 and stop lamp switch connector E112 terminal 2.

38 (P/L) - 2 (P/L) : Continuity should exist.

 Continuity between soft top control unit connector B68 terminal 38 and ground.

38 (P/L) - Ground : Continuity should not exist.



#### (A/T Models)

 Continuity between soft top control unit connector B68 terminal 38 and stop lamp switch connector E111 terminal 2.

38 (P/L) - 2 (P/L) : Continuity should exist.

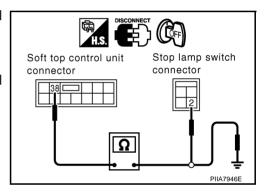
 Continuity between soft top control unit connector B68 terminal 38 and ground.

38 (P/L) - Ground : Continuity should not exist.

#### OK or NG

OK >> GO TO 6.

NG >> Repair or replace harness.



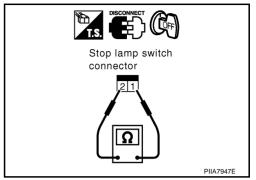
# 6. CHECK STOP LAMP SWITCH

1. Check the following.

(M/T Models)

Continuity between stop lamp switch connector E112 terminal 1 and 2.

Connector	Terminal		Brake pedal condition	Continuity
F112	1 2	Depressed	Yes	
LIIZ	· ·	2	Released	No



(A/T Models)

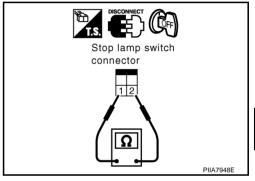
- Continuity between stop lamp switch connector E111 terminal 1 and 2.

Connector	Terminal		Brake pedal condition	Continuity
E111	E111 1 2	2	Depressed	Yes
		2	Released	No

#### OK or NG

OK >> Check condition of harness and connector.

NG >> Replace stop lamp switch.



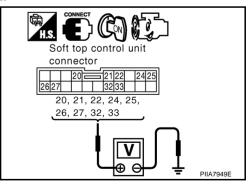
AIS00607

# **Each Switch Condition Check (Open Operate)**

# 1. CHECK EACH SWITCH SIGNAL

- Start engine.
- 2. Check voltage between soft top control unit connector and ground.

Connector	Terminal (	Wire color)	Roof condition	Voltage (V)	
Connector	(+)	(-)	1001 Condition	(Approx.)	
	20 (W/B)				
	21 (W/L)				
B67	22 (W/R)		Full closed	5	
	24 (G)				
	25 (L/Y)	Ground			
	26 (LG)				
	27 (W/G)				
	32 (W)				
	33 (P)				



OK or NG

OK >> Each switch condition is OK.

NG >> Check malfunction switch.

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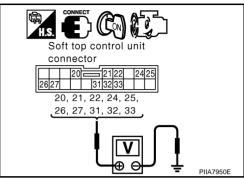
# **Each Switch Condition Check (Close Operate)**

AIS00608

# 1. CHECK EACH SWITCH SIGNAL

- 1. Start engine.
- 2. Check voltage between soft top control unit connector and ground.

Connector	Terminal (	Wire color)	- Roof condition	Voltage (V)
Connector	(+)	(-)	1001 condition	(Approx.)
	20 (W/B)			
	21 (W/L)			0
B67 -	22 (W/R)		Full opened	
	24 (G)			5
	25 (L/Y)	Ground		3
	26 (LG)	Glound		
	27 (W/G)			0
	31 (L)			U
	32 (W)			
	33 (P)			5



#### OK or NG

OK >> Each switch condition is OK.

NG >> Check malfunction switch.

# **Power Window Down Request Signal Check**

AIS00609

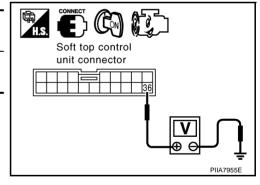
- 1. CHECK POWER WINDOW REQUEST SIGNAL
- 1. Start engine.
- 2. Soft top switch operate, check voltage between soft top control unit connector and ground.

Connector	Terminal (Wire color)		Roof condition	Voltage (V)
Connector	(+)	(-)	1001 Condition	(Approx.)
B67 36 (Y/G)		Ground	OP1 → OP11	$5 \rightarrow 0 \rightarrow 5$
		Olouliu	CL1 → CL10	3-70-73

#### OK or NG

OK >> Check the condition of harness and connector.

NG >> Replace soft top control unit.



#### **Power Window Harness Check**

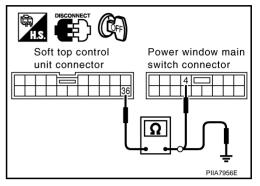
#### 1. CHECK POWER WINDOW CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit, power window main switch and power window sub-switch connector.
- 3. Check the following.
- Continuity between soft top control unit connector B67 terminal
   36 and power window main switch connector D7 terminal

36 (Y/G) - 4 (B/R) : Continuity should exist.

 Continuity between soft top control unit connector B67 terminal 36 and ground.

36 (Y/G) - Ground : Continuity should not exist.



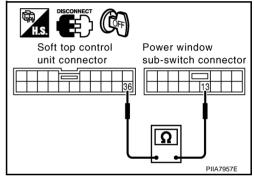
- 4. Check the following.
- Continuity between soft top control unit connector B67 terminal 36 and power window sub-switch connector D37 terminal 13.

36 (Y/G) - 13 (P) : Continuity should exist.

#### OK or NG

OK >> Replace malfunction power window switch.

NG >> Repair or replace harness.



AIS0060B

# Passenger Side Seat Operate Signal Check 1

#### 1. CHECK PASSENGER SIDE SEAT CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit and passenger side seat control unit connector.
- 3. Check continuity between soft top control unit connector B67 terminal 36 and passenger side seat control unit connector B353 terminal 16.

36 (Y/G) - 16 (PU/W) : Continuity should exist.

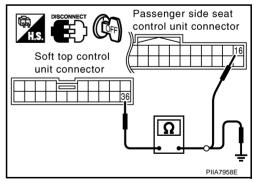
Check continuity between soft top control unit connector B67 terminal 36 and ground.

36 (Y/G) - Ground : Continuity should not exist.

#### OK or NG

OK >> Replace passenger side seat control unit.

NG >> Repair or replace harness.



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## Passenger Side Seat Operate Signal Check 2

#### 1. CHECK PASSENGER SIDE SEAT CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit, storage lid actuator RH and passenger side seat control unit connector.
- Check continuity between soft top control unit connector B66 terminal 13 and passenger side seat control unit connector B354 terminal 33.

13 (L/R) - 33 (G/B) : Continuity should exist.

 Check continuity between soft top control unit connector B66 terminal 13 and ground.

13 (L/R) - Ground : Continuity should not exist.

#### OK or NG

OK >> Replace passenger side seat control unit.

NG >> Repair or replace harness.

## Passenger Side Seat Operate Signal Check 3

1. CHECK PASSENGER SIDE SEAT CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit, passenger side seat control unit and soft top lock switch connector.
- Check continuity between soft top control unit connector B67 terminal 30 and passenger side seat control unit connector B353 terminal 11.

30 (Y/R) - 11 (L/W) : Continuity should exist.

4. Check continuity between soft top control unit connector B67 terminal 30 and ground.

30 (Y/R) - Ground : Continuity should not exist.

#### OK or NG

OK >> Replace passenger side seat control unit.

NG >> Repair or replace harness.

# Seat Back Position Signal Check

1. CHECK SEAT BACK POSITION SIGNAL

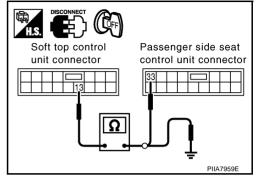
- 1. Start engine.
- 2. The thing whose seat cancel switch is OFF is confirmed.
- 3. Soft top switch operate, check voltage between soft top control unit connector and ground.

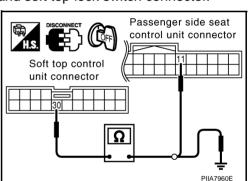
Connector	Terminal (Wire color)		Seat condition	Voltage (V)
Connector	(+)	(-)	Seat Condition	(Approx.)
B67	34 (L/W)	Ground	When passenger seat inclines forward	5
			Other than above	0

#### OK or NG

OK >> Replace soft top control unit.

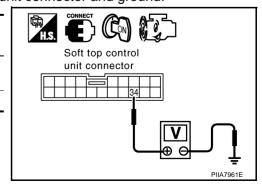
NG >> GO TO 2.





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# $\overline{2}$ . CHECK SEAT BACK POSITION SIGNAL CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit and passenger side seat control unit connector.
- Check continuity between soft top control unit connector B67 terminal 34 and passenger side seat control unit connector B353 terminal 32.

34 (L/W) - 32 (G/W) : Continuity should exist.

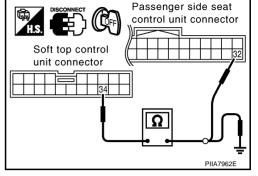
 Check continuity between soft top control unit connector B67 terminal 34 and ground.

34 (L/W) - Ground : Continuity should not exist.

#### OK or NG

OK >> Check passenger side seat. Refer to <u>SE-36, "Trouble Diagnosis Symptom Chart"</u>.

NG >> Repair or replace harness.



## **Speed Signal Circuit Check**

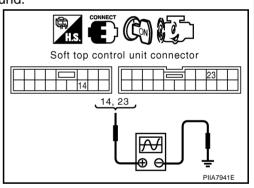
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First perform the "SELF-DIAG RESULT" in "BCM" with CONSULT-II, then perform the each trouble diagnosis of malfunction system indicated "SELF-DIAG RESULT" of "BCM". Refer to <a href="BCS-15">BCS-15</a>, "CONSULT-II Function (BCM)".

## 1. CHECK VEHICLE SPEED SIGNAL

- 1. Start engine.
- 2. Check the signal between soft top control unit connector and ground.

Connec- tor	Terminal (Wire color)		Condition	Signal (Reference value.)	
	(+)	(-)		(Reference value.)	
B66	14 (W)	Ground	Speedometer operated [When vehicle speed	(V) 15 10 + 20ms PKIA1935E	
B67	23 (W/G)	Glound	is Approx. 40km/h (25MPH)]	(V) 15 10 5 0 50ms PIIB0078J	



OK or NG

OK >> Replace soft top control unit.

NG >> GO TO 2.

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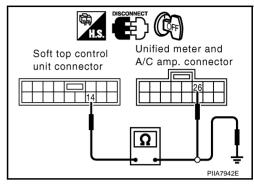
# $\overline{2}$ . CHECK VEHICLE SPEED SIGNAL CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit and unified meter and A/C amp connector.
- 3. Check the following.
- Continuity between soft top control unit connector B66 terminal 14 and unified meter and A/C amp connector M49 terminal 26.

14 (W) - 26 (W) : Continuity should exist.

 Continuity between soft top control unit connector B66 terminal 14 and ground.

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



- 4. Check the following.
- Continuity between soft top control unit connector B67 terminal 23 and unified meter and A/C amp connector M49 terminal 34.

23 (W/G) - 34 (W/G) : Continuity should exist.

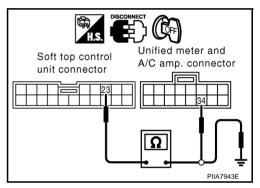
 Continuity between soft top control unit connector B67 terminal 23 and ground.

23 (W/G) - Ground : Continuity should not exist.

#### OK or NG

OK >> Check unified meter and A/C amp. Refer to <u>DI-49, "System Description"</u>.

NG >> Repair or replace harness.



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## **Indicator Lamp Circuit Check**

1. CHECK FUSE

Check 10A fuse [No.14, located in fuse block (J/B)]

#### NOTE:

Refer to RF-11, "Component Parts and Harness Connector Location".

#### OK or NG

OK >> GO TO 3.

NG >> If fuse blown out, be sure to eliminate cause of malfunction before installing new fuse. Refer to PG-3, "POWER SUPPLY ROUTING CIRCUIT".

## 2. CHECK INDICATOR LAMP SIGNAL

- 1. Start engine.
- Soft top switch operate, check voltage between soft top control unit connector and ground.

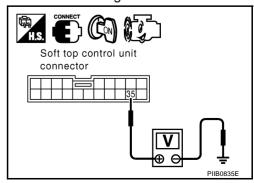
Connector	Terminal (Wire color)		Roof condition	Voltage (V)
Connector	(+)	(-)	1001 Condition	(Approx.)
B67 35 (BR)		Ground	In position on the way	0
	55 (BIV)	Sibulia	Full open or full close	Battery voltage

#### OK or NG

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

NG - 1 >> If battery voltage : Replace soft top control unit.

NG - 2 >> If 0V : GO TO 3.



# $\overline{3}$ . CHECK INDICATOR LAMP CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect soft top control unit and combination meter connector.
- 3. Check continuity between soft top control unit connector B67 terminal 35 and combination meter connector M19 terminal 13.

35 (BR) – 13 (G/W) : Continuity should exist.

4. Check continuity between soft top control unit connector B67 terminal 35 and ground.

35 (BR) – Ground : Continuity should not exist.

#### OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness.

## 4. CHECK INDICATOR LAMP POWER SUPPLY

- Turn ignition switch ON.
- Check voltage between combination meter connector M19 terminal 23 and ground.

23 (G/Y) - Ground : Battery voltage

#### OK or NG

OK >> Check the Condition of the Harness and the Connector.

- If OK : Replace combination meter.
- If NG: Repair or replace harness.

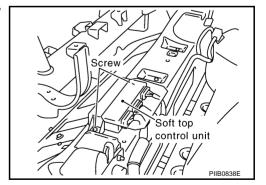
NG >> Repair or replace harness.

# Combination meter connector

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# Removal and Installation of Soft Top Control Unit REMOVAL

- 1. Push the soft top switch on the close side to clear the soft top strage room, and release the buttom before strage lid starts closing.
- Remove trim parts and turn the front side of storage room finisher. <u>RF-125</u>, "Removal and Installation of <u>Storage Room Finisher"</u>
- Disconnect soft top control unit connector, remove the screw and soft top control unit.



#### INSTALLATION

Installation in the reverse order of removal.

Soft top control unit connector

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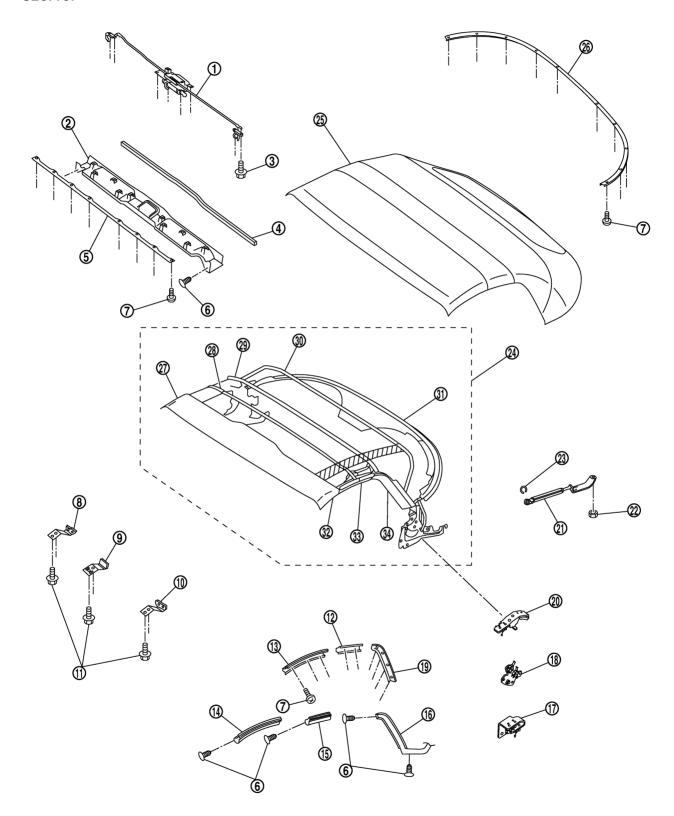
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# **Component Parts Drawing**

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- 1. Front lock 4. Welt 7. Screw 10. Front lock striker, LH 13. A link retainer 19. C link retainer
- 16. C link and 5th bow weatherstrip 22. Nut
- 25. Soft top cover 28. 2nd bow 31. 5th bow 34. C link
- 2. Front lock finisher 5. Front center retainer Front lock striker, RH
- 11. Bolt 14. A link weatherstrip 17. Soft top switch bracket 1
- 20. Plate rail RR bracket 23. Holder 26. 5th bow retainer
- 29. 3rd bow 32. A link
- 3. TORX bolt (T30)
- 6. Clip
- 9. Front lock striker, center
- 12. B link retainer
- 15. B link weatherstrip
- 18. Soft top switch bracket 2 21. 5th bow operating strut rod
- 24. Soft top frame
- 27. 1st bow
- 30. 4th bow
- 33. B link

# Removal and Installation of Soft Top Assembly

#### **CAUTION:**

Install fender cover to protect rear fender.

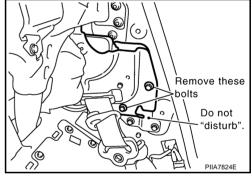
#### **REMOVAL**

- 1. Fully open storage lid with soft top retracting.
- Remove seat belt sholder bolt. Refer to SB-6, "REMOVAL OF SEAT BELT RETRACTOR".
- Remove rear side finisher. Refer to EI-37, "REAR SIDE FINISHER".
- Remove back panel finisher. Refer to EI-42, "BACK PANEL FINISHER".
- Loosen bolts at soft top mounting bracket (front).

#### **CAUTION:**

Do not remove soft top mounting bracket (front) (body

Nut: 28.0 N·m (2.9 kg-m, 21 ft-lb)

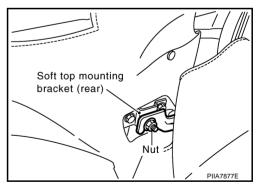


6. Close soft top until 5th bow are raised and folded with C-link. Loosen nut at soft top mounting bracket (rear). Then fold (open) soft top assembly completely.

#### **CAUTION:**

Do not remove soft top mounting bracket (rear) (body side).

Bolt : 28.0 N·m (2.9 kg-m, 21 ft-lb)



7. Remove back panel bracket.

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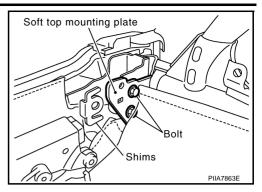
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8. Remove bolts, at the soft top mounting plate and shims.

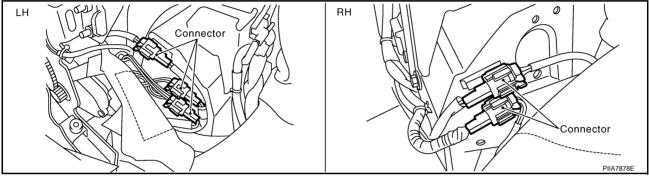
#### **CAUTION:**

Do not replace left and right shims with each one with different thickness.

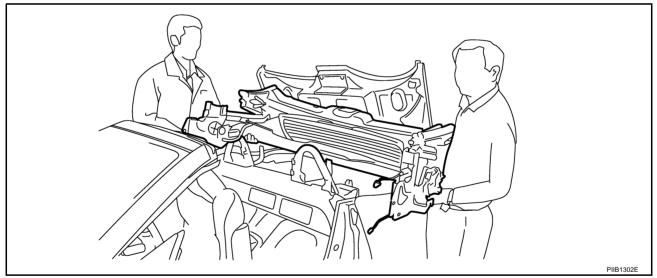
O Bolt: 28.0 N·m (2.9 kg-m, 21 ft-lb)



9. Disconnect harness connector.



10. Lift up soft top assembly from left and right, and then remove soft top assembly



#### CAUTION:

2 workers are required for the heavy load of approximately 40 kg (89 lb).

#### **INSTALLATION**

Install in the reverse order of removal except the order of tightening bolts and nuts. (See note below.)

#### NOTE:

- Before tighten soft top fixing bolts and nuts, make sure that soft top is sat on each pins from soft top
  mounting brackets without any gaps.
  - To sit soft top correctly, follow this order.
- 1. Push soft top assembly down when nuts at soft top mounting bracket (rear) is tighten.
- 2. Close soft top until the angle of A-link becomes vertical against ground, then tighten bolts at soft top mounting bracket (front).
- 3. Tighten bolts at soft top mounting plate with shims, then attach back panel bracket with bolts.

# Removal and Installation of Soft Top Cover REMOVAL

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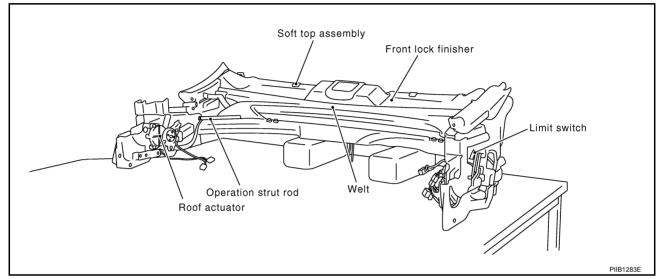
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#### **CAUTION:**

- Do not reuse used double-faced adhesive tape, nonwoven fabric, EPT seal, pad, etc.
- Be careful not to damage soft top assembly during removal. Do not place it upside-down so as to prevent cover from compression scars.
- 1. Remove soft top assembly from the vehicle. Refer to RF-87, "Removal and Installation of Soft Top Assembly".
- 2. Set up the soft top assembly on the table.

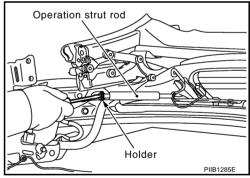


- 3. Remove roof actuator (RH/LH). Refer to RF-107, "Removal and Installation of Roof Actuator".
- 4. Remove holder of 5th bow operation strut rods, and then remove 5th bow operation strut rods.

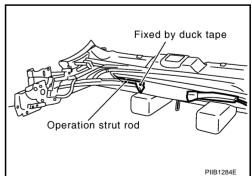
#### **CAUTION:**

 When 5th bow operating strut rods are removed, 5th bow drops suddenly.

Perform operation while holding 5th bow.



 Temporarily fix 5th bow operating strut rods on 5th bow finisher after removal.



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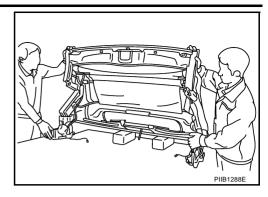
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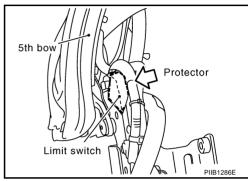
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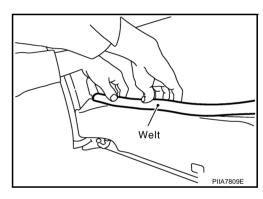
5. Open soft top assembly.



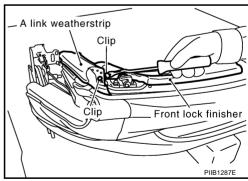
6. Protect the limit switch contact around the rotation axis of the 5th bow on the left side of soft top with tape.



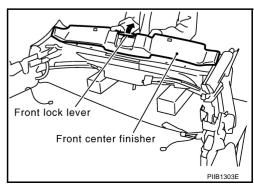
7. Remove welt on the rear end of front lock finisher.



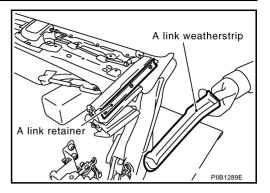
8. Remove left/right clips on the front end of front lock finisher.



9. Pull up front lock lever, and then disengage clips to remove front lock finisher.



10. Remove clip, and then A link weatherstrip.



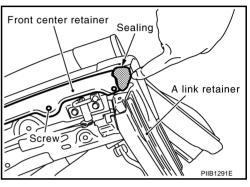
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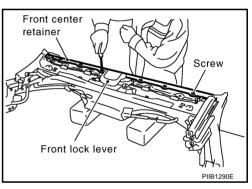
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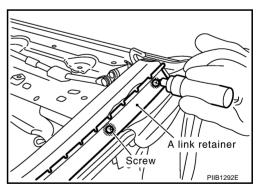
11. Peel a link sealing out.



12. Remove screws, and then remove front center retainer.

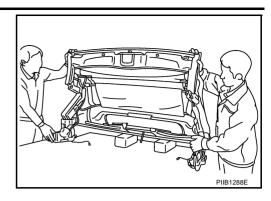


13. Put matching marks to installation position of A link retainer.

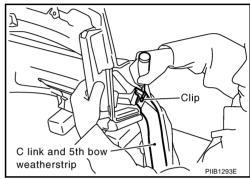


14. Remove screws, and then remove A link retainer.

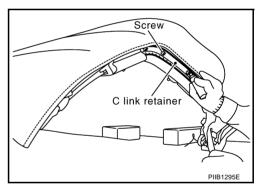
15. Open soft top about 90 degrees.



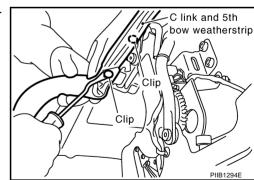
16. Remove clips on the top of C link and 5th bow weatherstrip.



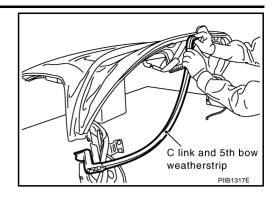
- 17. Fully open soft top.
- 18. Put matching marks to installation position on C link retainer.
- 19. Remove screws, and then remove C link retainer.



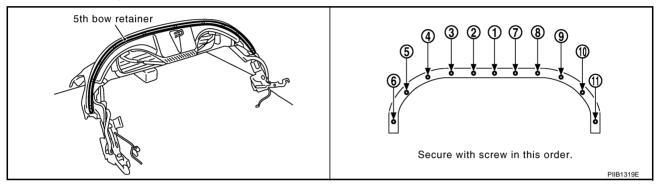
20. Remove clips on the bottom edge of C link and 5th bow weatherstrip.



21. Remove C link and 5th bow weatherstrip from 5th bow.



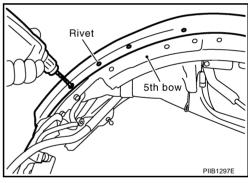
22. Remove screws, and then remove 5th bow retainer.

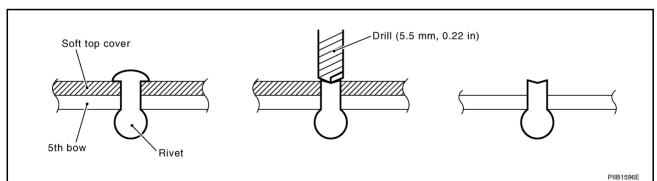


23. Shave rivets head of soft top cover 5th bow by using a drill. [Drill bit diameter: 5.5 mm (0.22 in)]

#### **CAUTION:**

Do not attempt to remove rivets completely.





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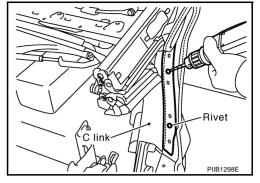
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24. Close soft top, and then Shave rivets head and of C link by using a drill.

[Drill bit diameter: 5.5 mm (0.22 in)]

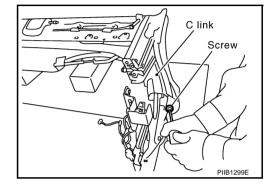
#### **CAUTION:**

Do not attempt to remove rivets completely.



25. Cut EPT seal and remove screws on the bottom of C link. **NOTE:** 

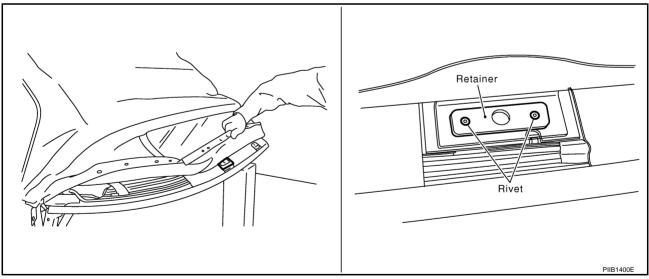
Check the position when cutting EPT seal.



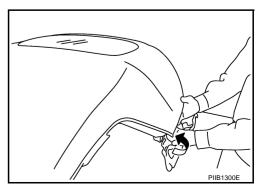
- 26. Pull up soft top cover from 5th bow finisher.
- 27. Shave rivets head of 5th bow finisher upper surface, and then remove rivets head and remove retainer. [Drill bit diameter: 5.5 mm (0.22 in)]

#### **CAUTION:**

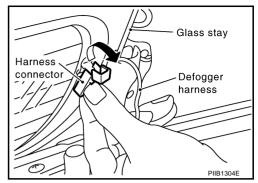
- Do not attempt to remove rivets completely.
- Be careful not to damage soft top when using a drill.



28. Pull up cover from the bottom of C link.



29. Open harness connector cover, and then disconnect defogger harness connector from terminal.



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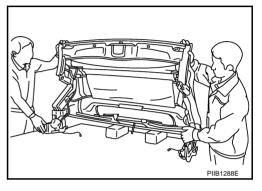
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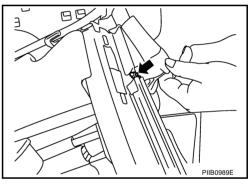
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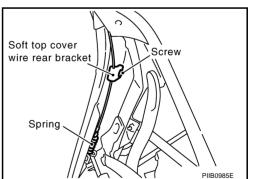
30. Open soft top about 90 degrees.



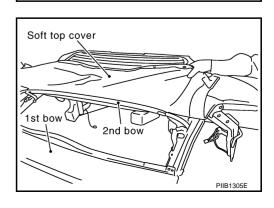
31. Remove soft top wire from A link.



- 32. Remove soft top cover wire rear bracket from C link.
- 33. Remove spring from C link.

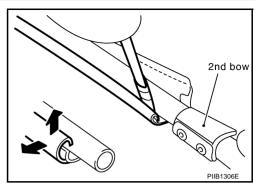


34. Pull out soft top cover frontward from 1st bow.

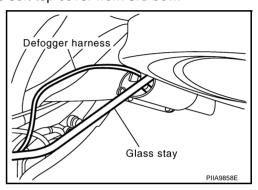


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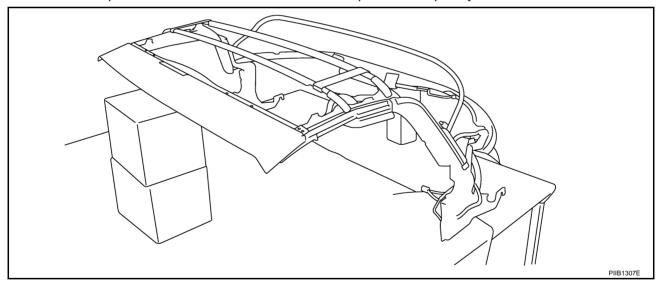
35. Pull up 2nd bow retainer by using a screwdriver, and then remove soft top cover from 2nd bow.



- 36. Pull up 3rd bow retainer by using a screwdriver, and then remove soft top cover from 3rd bow.
- 37. Pull out glass stay and defogger harness from sleeve on rear window glass side.



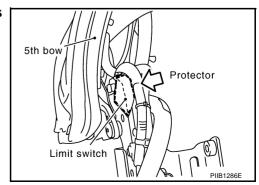
38. Pull out soft top cover from 4th bow and remove soft top cover completely from frame.



#### **INSTALLATION**

#### **CAUTION:**

Make sure that the limit switch contact around the rotation axis of the 5th bow on the left side of soft top is protected with tape.

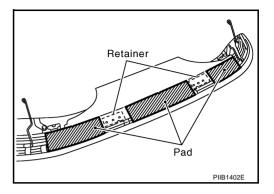


## **Preparation Work**

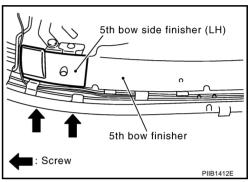
1. Remove 5th bow finisher pads.

#### NOTE:

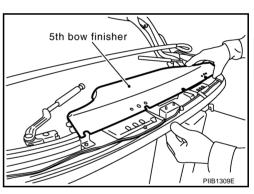
Put matching marks so as to check the position when installing.



2. Remove screws, and then remove 5th bow side finisher (RH/LH).



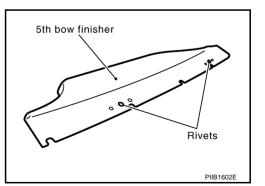
3. Remove clips, and then remove 5th bow finisher.



4. Remove rivets head of 5th bow finisher retainer.

#### **CAUTION:**

Do not attempt to remove rivets completely.



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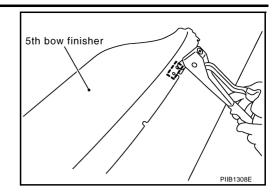
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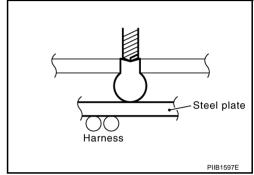
- 5. Replace retainers under 5th bow finisher with a new part.
  - Put new retainers under 5th bow finisher with rivet.
  - Apply nonwoven fabric to retainer lower edge.



6. Remove remains of soft top cover mounting rivet from 5th bow and C link.

#### NOTE:

 Put a steel plate between a rivet and harnesses on 5th bow for harness protection, when removing the remaining rivets by drill.

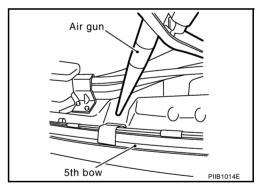


#### **CAUTION:**

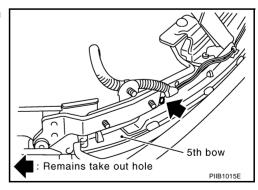
Take out the remains of rivets completely from 5th bow, other wise the remains cause noise.

#### NOTE:

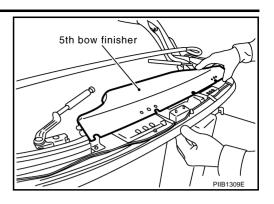
Blow remains of rivet toward both ends of 5th bow with compressed air if they are in 5th bow.



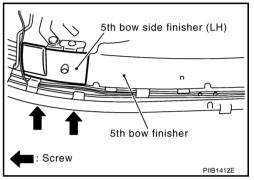
 Remove the remains drawn to both ends by the air blow from the gap.



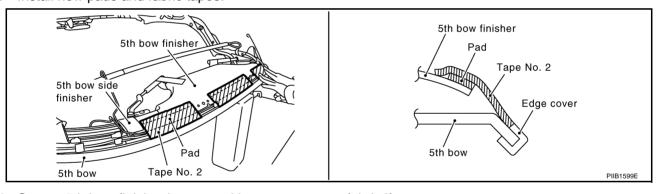
7. Install 5th bow finisher to 5th bow.



8. Install 5th bow side finisher (RH/LH) to 5th bow.



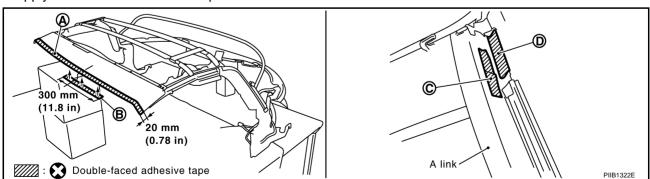
9. Install new pads and fabric tapes.



10. Secure 5th bow finisher harness with new nonwoven fabric if necessary.

#### Installation

1. Apply double faced adhesive tape for frame.



- A: Upper side of 1st bow
- B: Under side of 1st bow
- C: Outer side of A link (between grommets)
- D: Outer and under side of 1st bow edge
- Put soft top cover on frame.

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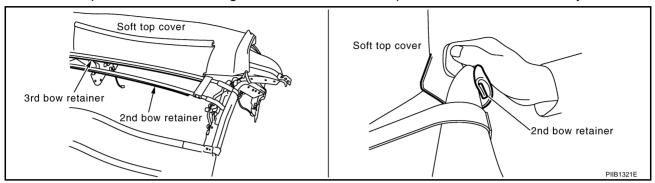
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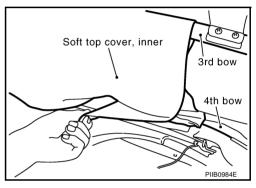
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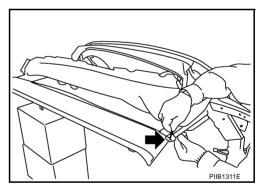
- 3. Put glass stays and defogger harnesses into sleeves on both side of rear window.
  - Out side bag is for glass stay.
  - Inside bag is for harness.
- 4. Hook soft top cover inner fabric edge to 3rd bow retainer and press retainer to hold securely.



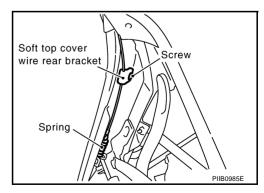
- 5. Hook soft top cover inner fabric edge to 2nd bow retainer and press retainer to hold securely.
- Wrap soft top cover around 4th bow and fix soft top cover by velcro fastener.



7. Insert soft top cover wire to A link.

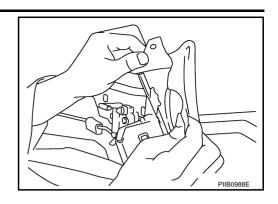


8. Tighten soft top cover wire rear bracket to C link with screw. (Face tension wire outside.)

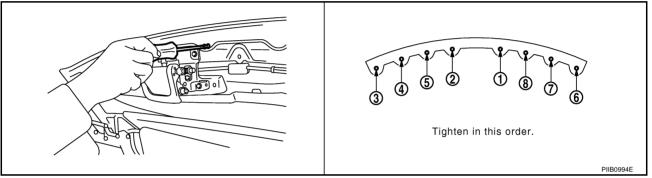


9. Hook soft top cover wire spring on C link and bend the hook of wire spring to prevent unhooking the hook.

10. Put soft top cover on 1st bow.



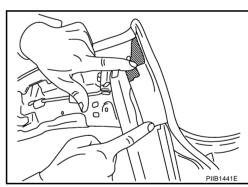
- 11. Align soft top cover hole and grommet hole at the 1st bow.
- 12. Tighten screws on 1st bow with front center retainer.



13. Apply EPT seal to A link installation position.

#### **CAUTION:**

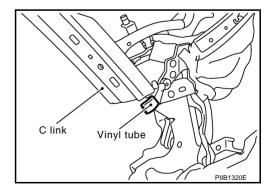
Install EPT seal to the original position.



14. Put soft top cover on C link lower.

#### NOTE:

- Make sure that vinyl tube is on C link bottom end bracket.
- Be careful not to pull soft top cover with too much tension.



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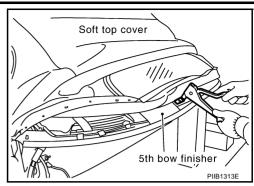
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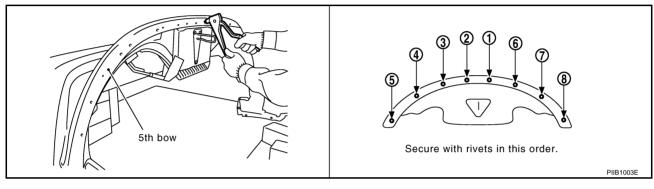
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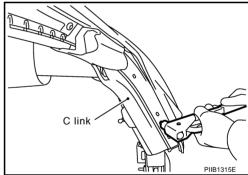
15. Open 5th bow then secure soft top cover to 5th bow finisher upper surface with rivet.



- 16. Close 5th bow then wrap soft top cover around 5th bow.
- 17. Secure soft top cover to 5th bow with rivet.



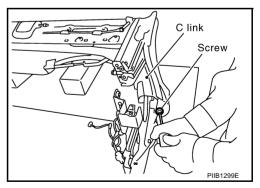
18. Secure soft top cover to C link with rivet.



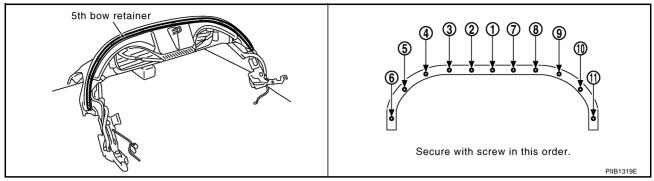
19. Align screw hole on soft top cover and the bottom of C link, and then tighten with screw.

#### NOTE:

- During tighten up the screw, insert a thin metal rod such as a nail [diameter: 4mm (0.16in)] to a clip hole near the screw to align holes of soft top cloth and its backing plastic plate, and C link frame.
- Tighten screw while holding soft top at certain angle for easy screw installation.



#### 20. Close 5th bow then install 5th bow retainer with screws.



#### **CAUTION:**

Apply it to the original position.

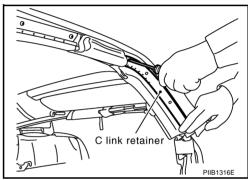
#### NOTE:

During tighten up the screw, insert a thin metal rod such as a nail [diameter: 4mm (0.16in)] to a clip hole near the each end of 5th bow retainer to align holes of the retainer, soft top cloth and its backing plastic plate, and 5th bow.

21. Install C link retainer with screws.

#### NOTE:

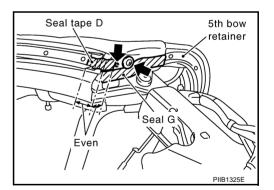
Align matching marks on the retainer to screw heads, when installing the retainer.



22. Apply seal to C link lower installation position.

#### **CAUTION:**

Make sure not to cover clip hole and screw head.

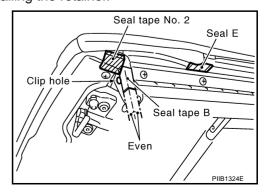


23. Install A link retainer with screws.

#### NOTE:

Align matching marks on the retainer to screw heads, when installing the retainer.

24. Apply seal E to A link installation position.



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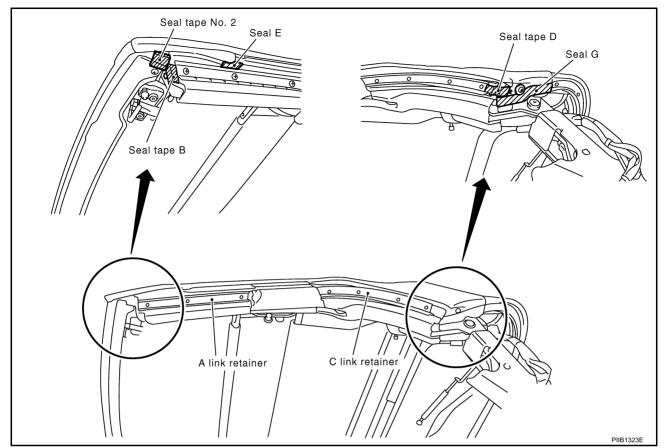
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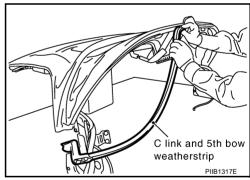
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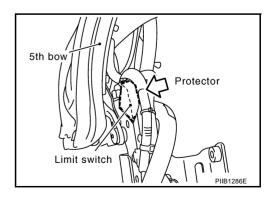
#### 25. Recheck seals for A link and C link.



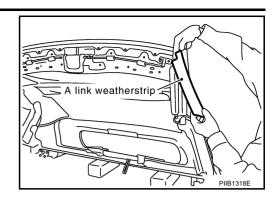
26. Install C link and 5th bow weatherstrip to 5th bow and C link.



27. Remove protection tape on the limit switch.



28. Install A link weatherstrip.



- 29. Install front lock finisher and welt after closing soft top.
- 30. Connect defogger harnesses at rear window.
- 31. Install 5th bow operating strut rods (RH/LH).
- 32. Install roof actuator (RH/LH). Refer to RF-107, "Removal and Installation of Roof Actuator".
- 33. Install soft top assembly to vehicle. Refer to RF-87, "Removal and Installation of Soft Top Assembly" .
- 34. Check soft top open/close operation.
- 35. Check door glass contact. Refer to GW-54, "FITTING INSPECTION".
- 36. Check for water leakage. Refer to RF-115, "Repairing Method for Water Leakage Around Doors".

#### NOTE:

If there are wrinkles on the soft top cover, use a hair dryer to warm up the wrinkled area. Apply warm air from the hair dryer keeping the distance by 150 - 200 mm (5.9 - 7.8 in) and move the dryer to gently warm up soft top cover, for about 5 - 10 minutes until the wrinkle seems to be gone. Not to heat up soft top cover to much.

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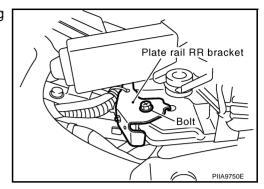
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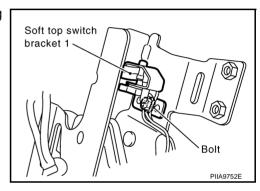
# Removal and Installation of Switches REMOVAL

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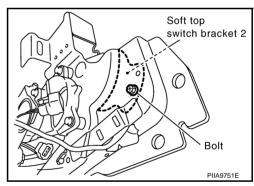
- 1. Uninstall soft top assembly from the vehicle. Remove roof actuator (RH/LH) from the soft top.
- 2. Remove harness tie wrap band at the left side of the soft top.
- Remove limit switches with plate rail RR bracket by removing bolt.



 Remove limit switches with soft top switch bracket1 by removing bolt.



Remove limit switches with soft top switch bracket 2 by removing bolt.



#### **INSTALLATION**

Install in the reverse order of removal.

#### NOTE:

Wire harnesses correctly to avoid following situation.

- Pinching harnesses by frame
- Tangling harnesses by frame and links
- Pulling harnesses between fixing point by harness clips.

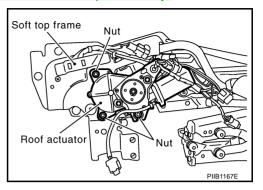
# Removal and Installation of Roof Actuator REMOVAL

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- 1. Remove soft top assembly. Refer to RF-87, "Removal and Installation of Soft Top Assembly".
- 2. Remove nuts and then remove roof actuator (RH/LH).

#### NOTE:

If removal is difficult, rotate motor axis to remove them.



3. Disconnect soft top actuator harness connector.

#### **INSTALLATION**

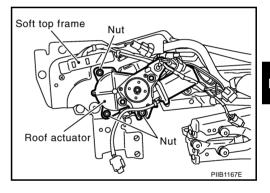
Install in the reverse order of removal.

# Removal and Installation of 5th Bow Drive Unit REMOVAL

- 1. Uninstall soft top assembly from the vehicle.
- 2. Remove roof actuator (RH/LH) from the soft top.

#### NOTE:

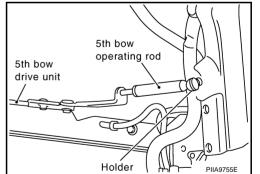
If removal is difficult, rotate motor axis to remove them.



3. Disconnect 5th bow operating rod (RH/LH) at the frame side by pulling out the holder.

#### NOTE:

This step will make the 5th bow up and down motion easier.



- 4. Make sure that the limit switch contact around the rotation axis of the 5th bow on the left side of soft top is protected with tape.
- 5. Open the soft top manually, and put a stand under the 1st bow. Then fix the soft top not to move during this procedure.

#### NOTE:

Put a waste cloth between the front lock and the stand not to make any scratches to the soft top.

6. Remove the C link and 5th bow weatherstrip.

Revision: 2005 August **RF-107** 2005 350Z

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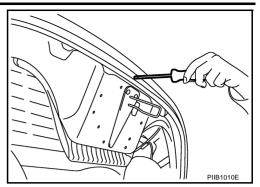
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Remove the soft top cover retainer (5th bow retainer) from 5th bow by taking out screws.



8. Drilling rivets attaching the soft top cover to 5th bow, then pull up the soft top cover bottom edge.

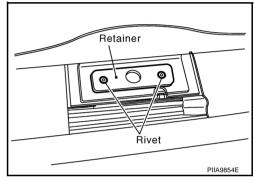
#### NOTE:

Use 4 mm (0.16 in) diameter drill bit to remove the rivet head. When drilling rivets, be careful not to damage the soft top cover.

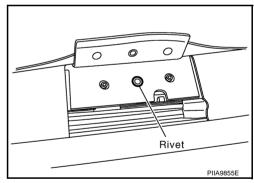
9. Drilling rivets with retainers attaching with tags from the soft top cover, 5th bow finisher and the 5th bow.

#### NOTE:

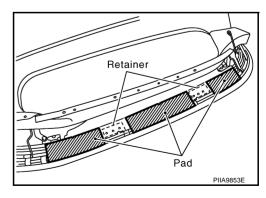
Use 4 mm (0.16 in) diameter drill bit to remove the rivet head. The soft top cover is separated from 5th bow.



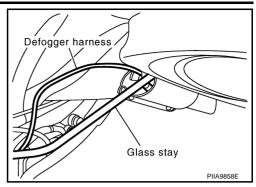
10. Drilling rivets under retainers by using 4 mm (0.16 in) diameter drill bit.



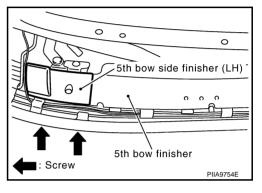
11. Remove pads from 5th bow finisher.



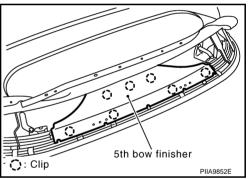
- 12. Roll the soft top cover bottom edge up, and disconnect defogger harness connector from the rear window glass.
- 13. Pull out glass stays from sleeves on each side of the rear window glass.



14. Remove 5th bow side finisher (RH/LH) by removing screws.



15. Remove 5th bow finisher by pulling the finisher up.

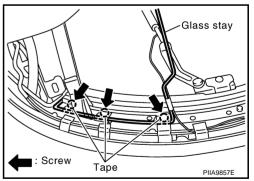


16. Remove glass stays from 5th bow by removing screws from the bottom of the 5th bow.

#### NOTE:

- When removing glass stays, support 5th bow to avoid a bend of glass stay. This bend may happen by the weight of the 5th bow and the tensile force of the tether from the soft top cover.
- Be careful not to damage the 5th bow nor to be hurt by the falling 5th bow, because the 5th bow is heavy and moves freely after removing glass stays.





Harness 5th bow drive unit : Screw = PIIA9753E

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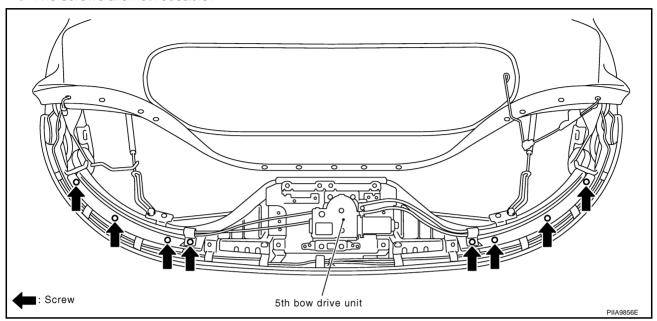
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18. Remove 5th bow drive unit and rails together from 5th bow by removing screws.

#### NOTE

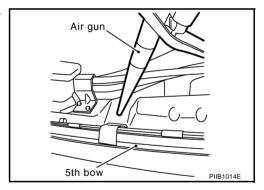
- After removing drive unit and rails, not to pull rails. Otherwise, the wire in the rail may be damaged.
- The screws are not reusable.



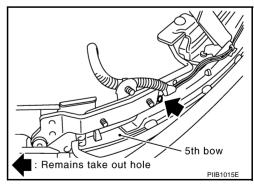
#### **INSTALLATION**

#### **Preparation Work**

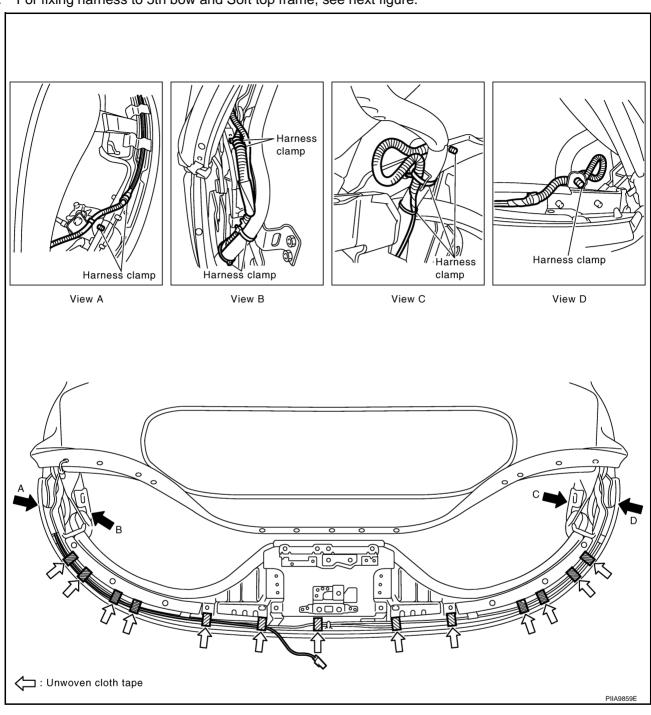
1. Blow remains of rivet toward both ends of 5th bow with compressed air if they are entering into 5th bow.



2. Remove the remains drawn to both ends by the air blow from the gap.



For fixing harness to 5th bow and Soft top frame, see next figure.



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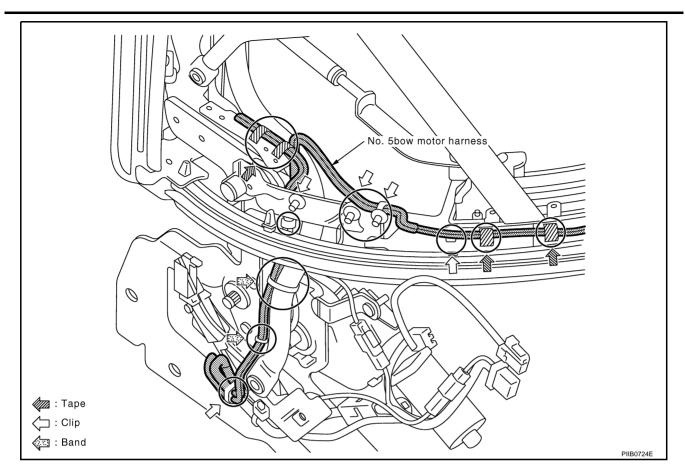
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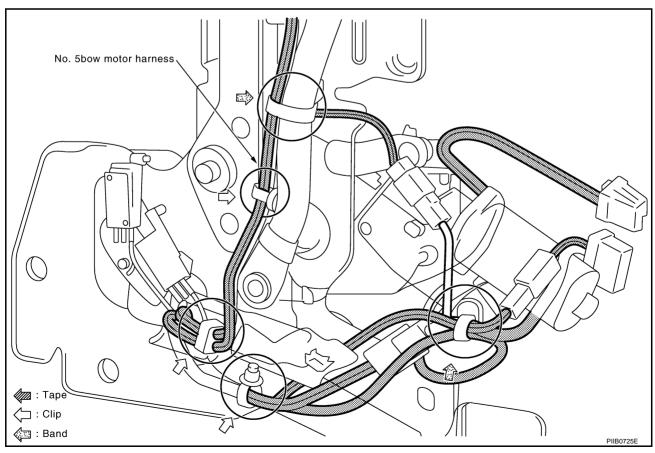
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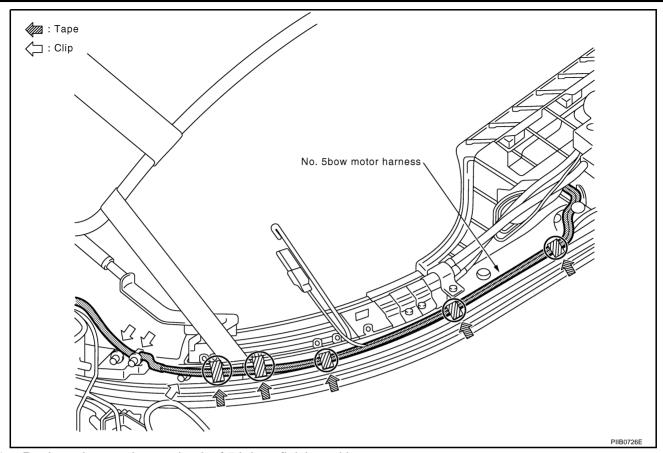
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#### **SOFT TOP**



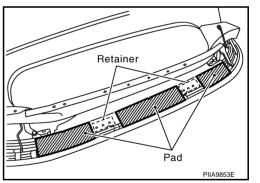




- 4. Replace rivet retainer on back of 5th bow finisher with a new one.
- 5. Secure 5th bow finisher with rivet, and then apply nonwoven fabric.
- 6. Install 5th bow finisher and 5th bow finisher (RH/LH).
- 7. Apply pad on 5th bow finisher.

#### NOTE:

Apply pad to the original position.



#### Installation

Install in the reverse order of removal.

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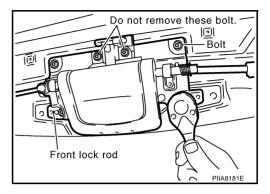
### Removal and Installation of Front Lock REMOVAL

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- Remove welt and front finisher.
- 2. Remove bolts, and then remove front lock rod.

#### **CAUTION:**

Do not remove front lock hook, center bolts.



3. Remove bolts, and then remove front lock striker, LH, center, and RH.

#### NOTE:

Paint matching marks for front lock assembly to check location for installation.

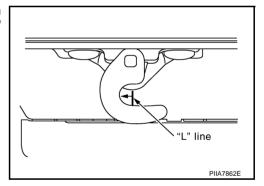
#### **INSTALLATION**

Install in the reverse order of removal.

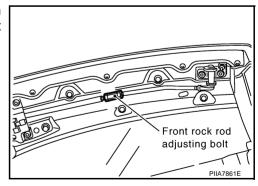
Always adjust before installation. Refer to <u>RF-114, "INSPECTION AND ADJUSTMENT"</u>.

#### INSPECTION AND ADJUSTMENT

- 1. Apply super-check spray on a contact surface of 3 hooks which may touch with rods on the body. Fully close soft top, and then engage front lock.
- Open soft top, and then make sure that the part, from which iron material is visible by peeling off super-check mark, exceeds "L" line.



 Adjust hook contact length by adjusting front lock rod length using front lock rod adjust bolt if "L" line is not exceeded in front lock hook, RH and LH.



- 4. There is a part malfunction, if "L" line is not exceeded in front lock center hook. Replace front lock assembly.
- 5. Make sure that the super check mark exceeds the "L" line, and then measure the fully closed operating force while contacting push-pull gauge to the handle. Make sure that the operating force is 68.6 N (7 kg, 15.4 lb) or less, and then install it.

#### NOTE:

Replace front lock assembly if the operating force is over the specified value.

• Make sure that operating force when replacing front weatherstrip, center weatherstrip, and rear weatherstrip is 107.8 N (11 kg, 24.2 lb) or less.

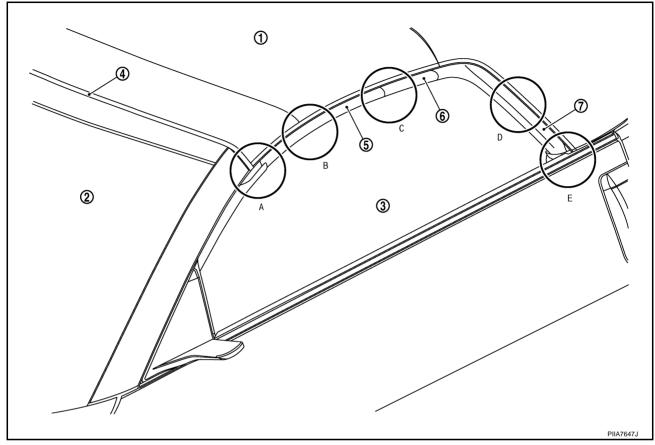
#### **Repairing Method for Water Leakage Around Doors**

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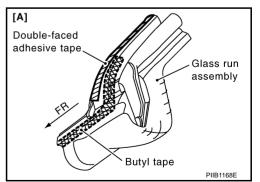
- 1. Soft top assembly
- 4. Glass run assembly
- 7 C link and 5th bow weatherstrip
- 2. Windshield glass
- 5. A link weatherstrip
- 3. Door glass
- 6. B link weatherstrip

#### WATER LEAKAGE FROM A

Water may be entering passenger room through back of front pillar. Cause: Butyl tape on back of glass run assembly may be separating from roof panel.

#### **Repair Procedure 1**

Apply butyl tape on back of glass run assembly again, and correct installing position.



Water may be entering through connection between front pillar and front edge of soft top. Cause: There may be a gap between glass run assembly and weatherstrip of soft top.

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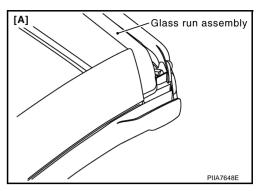
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#### **Repair Procedure 2**

Replace glass run assembly with a new one to eliminate the gap between glass run assembly and weatherstrip.



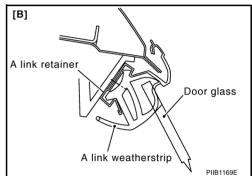
#### WATER LEAKAGE FROM B

Water may be entering through door glass upper inside edge.

Cause: There may be poor contact between A link weatherstrip of soft top and door glass.

#### **Repair Procedure 3**

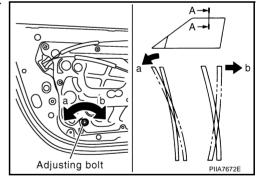
- Adjust door glass position frontward/backward or upward/downward against soft top assembly.
- Adjust door glass tilt contact by rotating adjusting bolt on regulator lower edge.



#### **CAUTION:**

Soft top assembly position may be incorrect when glass upper position is low even if door glass adjustment is performed. Perform soft top assembly adjustment, if necessary. Refer to <a href="#">GW-52, "FRONT DOOR GLASS AND REGULATOR"</a>.

Adjust door glass tilt contact by rotating adjusting bolt on regulator lower edge.

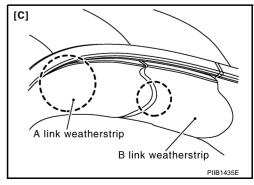


#### WATER LEAKAGE FROM C

Water may be entering through a joint between soft top weatherstrips. Cause: There may be a step or a gap at the weatherstrips joint.

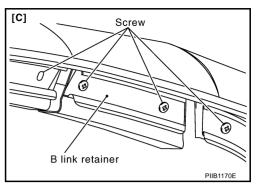
#### **Repair Procedure 4**

- Replace weatherstrip with a new one.
- If the step or the gap is not eliminated after replacing weatherstrip, then perform the following procedure.

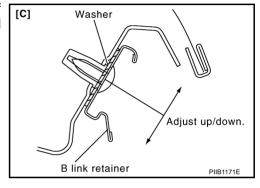


#### **Repair Procedure 5**

- Loosen retainer screws.
- Make fine upward/downward position adjustments to the B link retainer
  - (Move the B link retainer of a protruded weatherstrip downward for the adjustment.)



 Insert approximately 0.5 mm (0.02 in) washer into the back of the subsiding weatherstrip retainer, if the step is not eliminated after adjustment.



#### WATER LEAKAGE FROM D

Water may be entering through inside door glass rear.

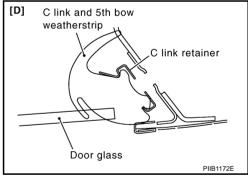
Cause: There may be poor contact between Clink and 5th bow weatherstrip of soft top and door glass.

#### **Repair Procedure 6**

- Adjust door glass position frontward/backward or upward/downward against soft top.
- Adjust door glass tilt contact by rotating adjusting bolt on regulator lower edge.

#### **CAUTION:**

Soft top assembly position may be incorrect in the case of glass upper position is low even if door glass adjustment is performed. Perform soft top assembly adjustment if necessary. Refer to GW-52, "FRONT DOOR GLASS AND REGULATOR".



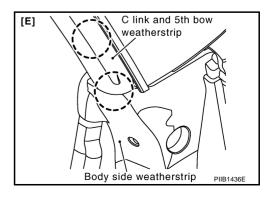
#### WATER LEAKAGE FROM E

Water may be entering passenger room through weatherstrip joint.

Cause: There may be a step or a gap between C link and 5th bow weatherstrip side and body side of weatherstrip.

#### **Repair Procedure 7**

- Remove C link weatherstrip.
- Remove C link retainer.



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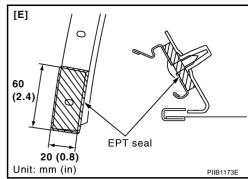
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#### **SOFT TOP**

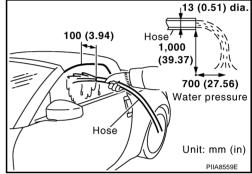
 Apply approximately 5 mm (0.2 in) thick EPT seal to retainer back surface.



#### WATER LEAKAGE TEST

Visually check for water leakage after repairing.

- 1. 2 workers are required. One worker checks inside the vehicle, and the other one washes with water.
- 2. Use 13 mm (0.51 in) diameter hose. Adjust water pressure by following method. Hold the hose horizontally, and release water at 1000 mm (39.37 in) height from ground. Adjust the distance, between the ground point just below the hose and the water dropping point, to reach 700 mm (27.56 in). (See the figure.)
- 3. Keeping the distance between the hose and the testing area by 100 mm (3.94 in), apply water along the area 3 times. During applying water, move the hose by 100 mm (3.94 in)/sec speed.



4. Visually check for water leakage.

#### **Correspondence in Emergency**

Α

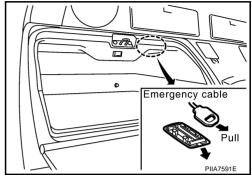
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If the soft top cannot be operated electrically in the event of a discharged battery or any other system malfunction, the soft top needs to be closed manually or opened manually according to the following procedures.

#### MANUAL OPERATION (SOFT TOP FULLY OPEN ⇒ FULLY CLOSE)

#### 1. Open The Trunk Lid

- Open the lid behind the passenger's seat (rear floor box).
- Remove cap of the emergency cable.
- Pull the emergency cable upper surface in the box.
- Open trunk lid.



#### 2. Open The Storage Lid

- Remove floorboard inside of the trunk.
- Disconnect the storage lid motor harness connector upperward. which is located at the right hand side of the trunk.
- Pull down the storage lid lock release cable (right and left sides in the trunk).
- Confirm a clicking sound of lock release.
- Pull up the storage lid from the right and left sides of vehicle (two people are required).

#### **CAUTION:**

The storage lid is extremely heavy. Pulling it up should be done by two people. Use Hex-wrench to rotate the axis of the gear, when the lid does not move.

#### 3. Close The Soft Top

Disconnect roof actuator harness connector right and left sides.

2nd disconnect top of roof actuator harness connector right and first disconnect top of roof actuator harness connectors left sides.

- Pull up the soft top right and left sides of the vehicle slowly by hand (two people are required).
- Lock soft top front lock.

# Front Harness connector (Right side)

#### 4. Close The Storage Lid

Push down soft top to body panel.

Storage lid unlock cable

Harness connector

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#### **SOFT TOP**

#### 5. Lower The Soft Top 5th Bow

Remove both operating rod of soft top 5th bow.

#### **CAUTION:**

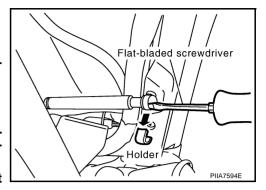
Remove a holder of operating rod end. Simultaneously hold soft top 5th bow by hand when removing the holder.

Push in 5th bow to storage lid (do half lock).

#### **CAUTION:**

After closing the soft top manually according to the above procedures, have the soft top operation system checked and/or repaired by a NISSAN dealer as soon as possible.

Avoid leaving the vehicle outside for long periods or driving at high speed. As the rear of the soft top is not locked completely, this may allow wind and rain get into the vehicle.



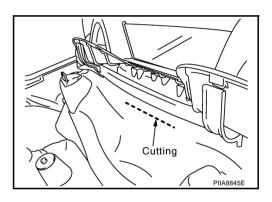
#### MANUAL OPERATION (SOFT TOP FULLY CLOSE ⇒ FULLY OPEN)

#### 1. Remove The Luggage Floor Trim

• Remove the rear floor box and luggage floor finisher upper. Refer to <u>EI-41</u>, "Removal and Installation (for Roadster Models)".

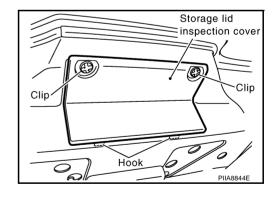
#### 2. Cutting Storage Room Finisher

Cut storage room finisher from seat side.

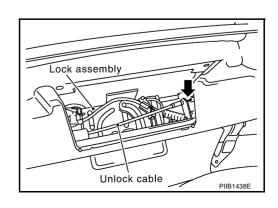


#### 3. Unlock The Storage Lid

Remove clip of inspection cover.



- Remove the storage lid inspection cover.
- Pull the unlock wire then unlock the soft top 5th bow.



#### **SOFT TOP**

#### 4. Open The Soft Top 5th Bow

- Remove both shock absorber of soft top 5th bow.
- Open the soft top 5th bow (approximate 90 degrees)

#### 5. Open The Trunk Lid

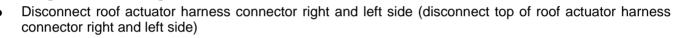
- Pull the emergency cable.
- Open the trunk lid.

#### 6. Open The Storage Lid

- Remove floorboard inside of the trunk.
- Disconnect the storage lid motor harness connector downward which is in the right hand side of the trunk.
- Pull down the storage lid lock release cable (right and left side of the trunk).
- Confirm a clicking sound of lock release.
- Pull up the storage lid from the right and left sides of vehicle (two people are required).

#### **CAUTION:**

The storage lid is extremely heavy. Pulling it up should be done by two people. Use Hex-wrench to rotate the axis of the gear, when storage lid does not move.



#### 7. Open The Soft Top

- Lower the soft top 5th bow.
- Unlock the front lock.
- Open the soft top right and left side of the vehicle slowly by hand (two person job).

#### 8. Close The Storage Lid

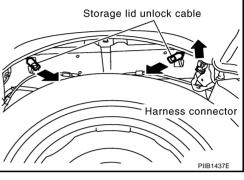
#### NOTE:

If necessary.

#### 9. Close The Trunk Lid

#### NOTE:

If necessary.



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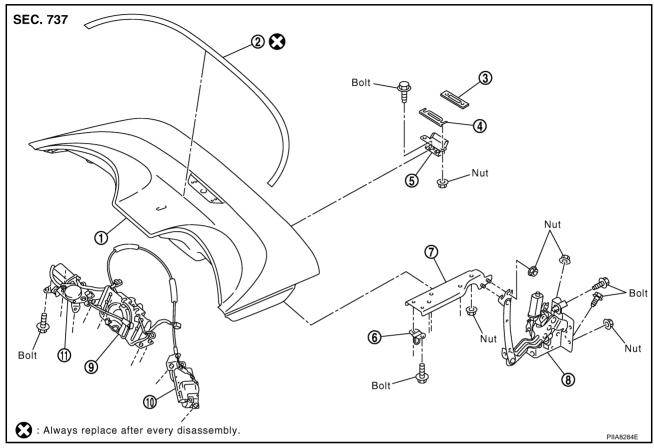
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STORAGE LID PFP:97002

#### Removal and Installation of Storage Lid Assembly

AIS0060R



- Storage lid
- 4. Shim
- 7. Storage lid upper bracket
- 10. 5th bow unlock actuator
- 2. Storage outer protector
- 5. Storage lid hinge
- 8. Storage lid lower bracket
- 11. 5th bow closure motor
- 3. Spacer
- Storage lid striker
- 9. 5th bow lock

#### **REMOVAL**

- 1. Disconnect storage lid actuator connector.
- 2. Remove bolts, and then remove storage lid striker.

#### NOTE:

- 2 or more workers are required.
- Paint matching marks to check location for installation.
- 3. Remove nuts which is connecting the storage lid upper bracket and the storage lid lower bracket.

#### NOTE:

Paint matching marks to check location for installation

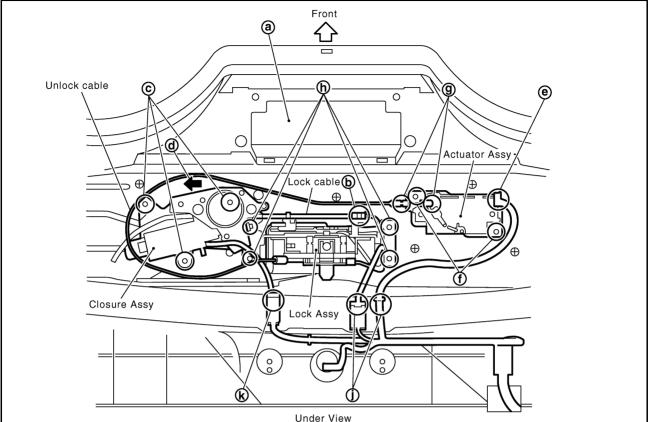
4. Remove nuts of storage lid hinge, and then remove storage lid, spacers and shims.

# Storage lid bracket, upper Storage lid hinge

#### **INSTALLATION**

- Install in the reverse order of removal.
- Install storage lid, and then adjust fitting of lid.





#### **REMOVAL**

#### NOTE:

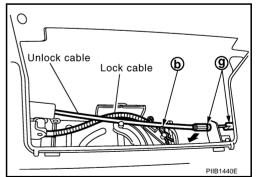
After installing Storage lid on the vehicle, an adjustment of Storage lid position is required in both closed and opened condition.

Put the removed storage lid on the floor or a work bench covered by waste clothes to prevent any scratches.

- I. Remove storage lid inspection cover on the front side of Storage lid. (a in the figure)
- 2. Disconnect a wire from a lock assembly by pulling out a connection pin. (b in the figure)

#### NOTE:

The pin should be taken off by a small pliers not to fell into Storage lid. If the pin fell into Storage lid, then it is very difficult to take the pin out from the lid. And if the pin is left inside the lid, it may make an uncomfortable noise.



- 3. Remove closure mounting bolt from back of storage lid. (c in the figure)
- 4. Move closure toward outside of vehicle (because it interferes with unlock). (d in the figure)
- 5. Disconnect unlock actuator connector. (e in the figure)
- 6. Disconnect actuator side of unlock cable. (g in the figure)
- 7. Remove unlock actuator mounting bolt from back of storage lid, and then remove unlock actuator from inspection cover. (f in the figure)
- 8. Remove lock mounting bolt from back of storage lid, and then move entire lock toward rear of storage lid. (h in the figure)

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#### STORAGE LID

9. Disconnect lock harness connector, and then remove lock from inspection cover. (j in the figure)

#### NOTE:

Turn lock catcher counterclockwise, and then face it to storage lid inspection hole side to remove because it interferes with storage lid when removing.

- 10. Disconnect closure harness connector, and then remove closure from inspection cover. (k in the figure)
- 11. Disconnect unlock actuator, lock, and closure harness connectors from inspection cover. (Push in harness connector clip tabs from back of storage lid using a screwdriver so as to remove.)

#### **INSTALLATION**

Install in the reverse order of removal.

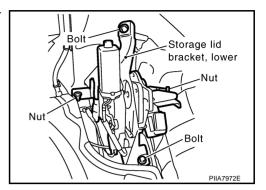
#### Removal and Installation of Storage Lid Actuator **REMOVAL**

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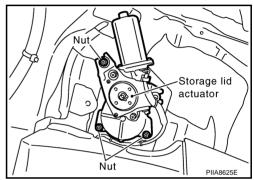
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- Remove trank room trim.
- Remove nuts and bolts, and then remove storage lid lower bracket.



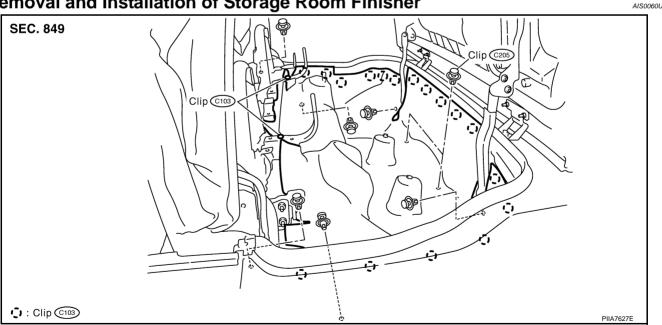
- Disconnect storage lid actuator harness connector.
- Remove nuts and remove storage lid actuator from storage lid bracket, lower.



#### **INSTALLATION**

Install in the reverse order of removal.

#### Removal and Installation of Storage Room Finisher



#### **REMOVAL**

- Remove rear side finisher. Refer to EI-37, "REAR SIDE FINISHER" .
- 2. Remove bolts, and then soft top mounting bracket (front).
- Remove bolts, and then soft top mounting bracket (rear). 3.
- Lift up soft top mounting bracket using a lever, and then remove storage room finisher clips.
- Remove storage room finisher clips, and then remove rear side of storage room finisher.

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6. Lift up back panel finisher clips using remover tools, and then remove front side of storage room finisher.

#### **INSTALLATION**

Install in the reverse order of removal.

#### Removal and Installation of Storage Outer Protector

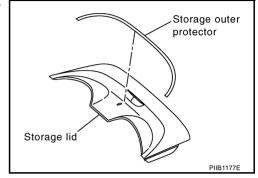
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Note the following, and install in the reverse order of removal.

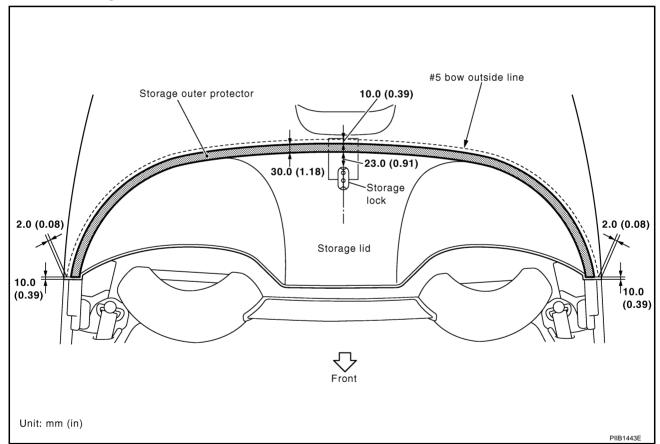
1. Heat the bonded area using a hair dryer, and then remove storage outer protector.

#### NOTE:

Do not reuse storage outer protector after removing.



Remove storage room finisher.



- 3. Clean Storage lid surface.
- 4. Close Soft top, and draw a line on a storage lid just behind the 5th bow out side edge by a water base marker pen.
- 5. Apply IPA solution (isopropyl alcohol: water = 1:1) on the lid, and set the storage outer protector position from one side. And do the same procedure to another side.
- 6. Apply left side storage lid outer aligning with left storage lid scribed line.
- 7. Apply right side storage lid outer aligning with right storage lid scribed line.

#### NOTE:

Not to put air or dust under the tape.

After applying the tape on the lid, peal off the protection film on the storage outer protector.

Revision: 2005 August **RF-126** 2005 350Z

#### STORAGE LID

 Secure left, right, and front end of storage room finisher with remaining part when removing using doublefaced adhesive tape.

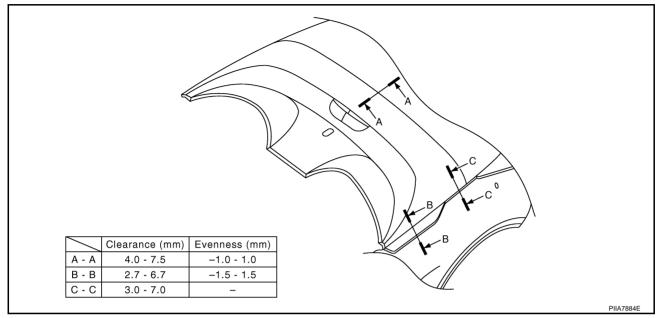
## Adjustment of Storage Lid ADJUSTMENT IN FULLY CLOSED POSITION

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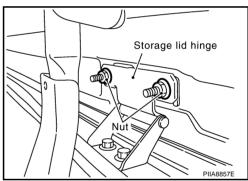
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#### **A-A Clearance Adjustment**

Loosen nuts of storage lid hinge. Adjust storage lid until the clearance is within the specification.

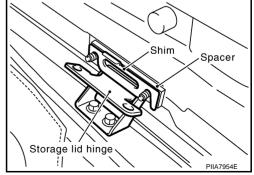


#### **B-B Clearance Adjustment**

Loosen nut of storage lid striker lock, and adjust it until the clearance is within the specification.

#### C-C Clearance Adjustment, A-A Evenness Adjustment

Loosen nuts of storage lid hinge. Adjust storage lid height by exchanging or adding shim until the evenness is within the specification.



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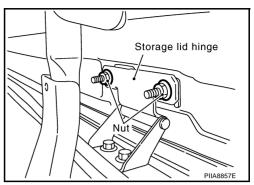
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#### STORAGE LID

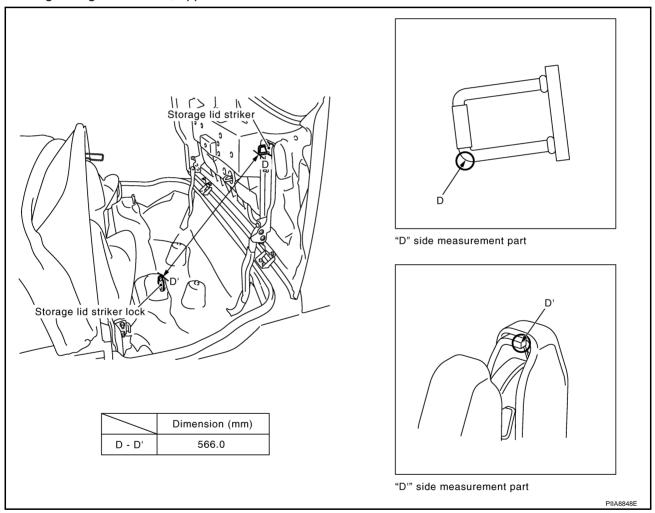
#### **B-B Evenness Adjustment**

Loosen nuts of storage lid hinge. Adjust the lid until the evenness is within the specification.

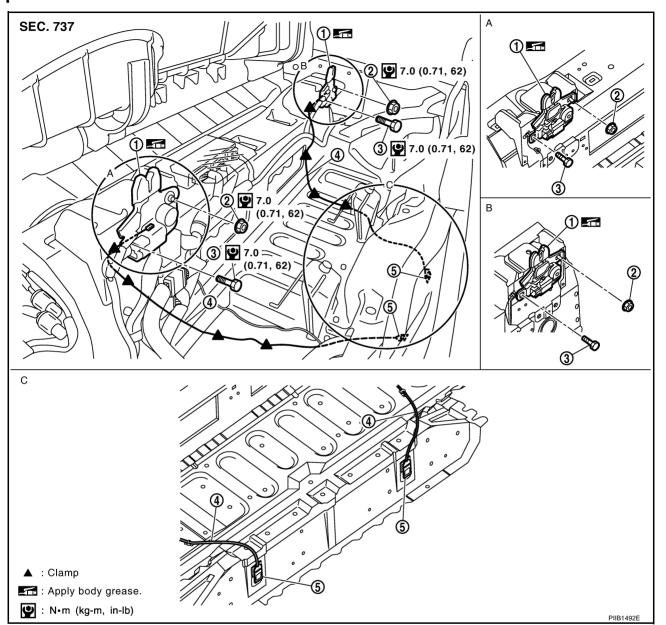


#### **ADJUSTMENT IN FULLY OPENED POSITION**

Adjust linkage position of storage lid striker and storage lid striker lock to specified dimension, by loosening nuts fixing storage lid bracket, upper and lower.



# Removal and Installation of Storage Lid Striker Lock & Storage Lid Emergency Opener Cable



- . Storage lid striker lock assembly
- 2. Nut

3. Bolt

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. Storage lid emergency opener cable 5. Storage lid emergency opener hook

#### **REMOVAL**

- 1. Remove storage room finisher. Refer to RF-125, "Removal and Installation of Storage Room Finisher".
- Remove trunk front finisher. Refer to EI-48, "TRUNK ROOM TRIM & TRUNK LID FINISHER".
- 3. Disconnect each clamp of storage lid emergency opener cable.
- 4. Disconnect each harness connector of storage lid lock assembly.
- 5. Remove storage lid lock mounting bolts, and then remove storage lid lock assembly.

#### INSTALLATION

Install in the reverse order of removal.

#### **STORAGE LID**