

SECTION **RF**
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PRECAUTIONS

PRECAUTIONS

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

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

WARNING:

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

Precautions for Battery Service

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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

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- 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 un reusable 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 benzene.

PREPARATION

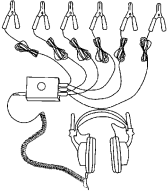
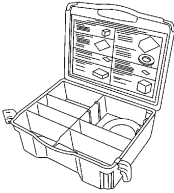
PREPARATION

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Special Service Tools

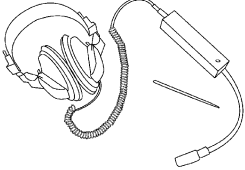
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The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

| Tool number (Kent-Moore No.) Tool name | Description |
|--|---|
| <p>(J-39570) Chassis ear</p> <div style="text-align: center; margin-top: 20px;">  <p style="margin-top: 5px;">SIIA0993E</p> </div> | <p style="text-align: center;">Location the noise</p> |
| <p>(J-43980) NISSAN Squeak and Rattle Kit</p> <div style="text-align: center; margin-top: 20px;">  <p style="margin-top: 5px;">SIIA0994E</p> </div> | <p style="text-align: center;">Repairing the cause of noise</p> |

Commercial Service Tools

AIS003YD

| Tool name | Description |
|--|---|
| <p>Engine ear</p> <div style="text-align: center; margin-top: 20px;">  <p style="margin-top: 5px;">SIIA0995E</p> </div> | <p style="text-align: center;">Location the noise</p> |

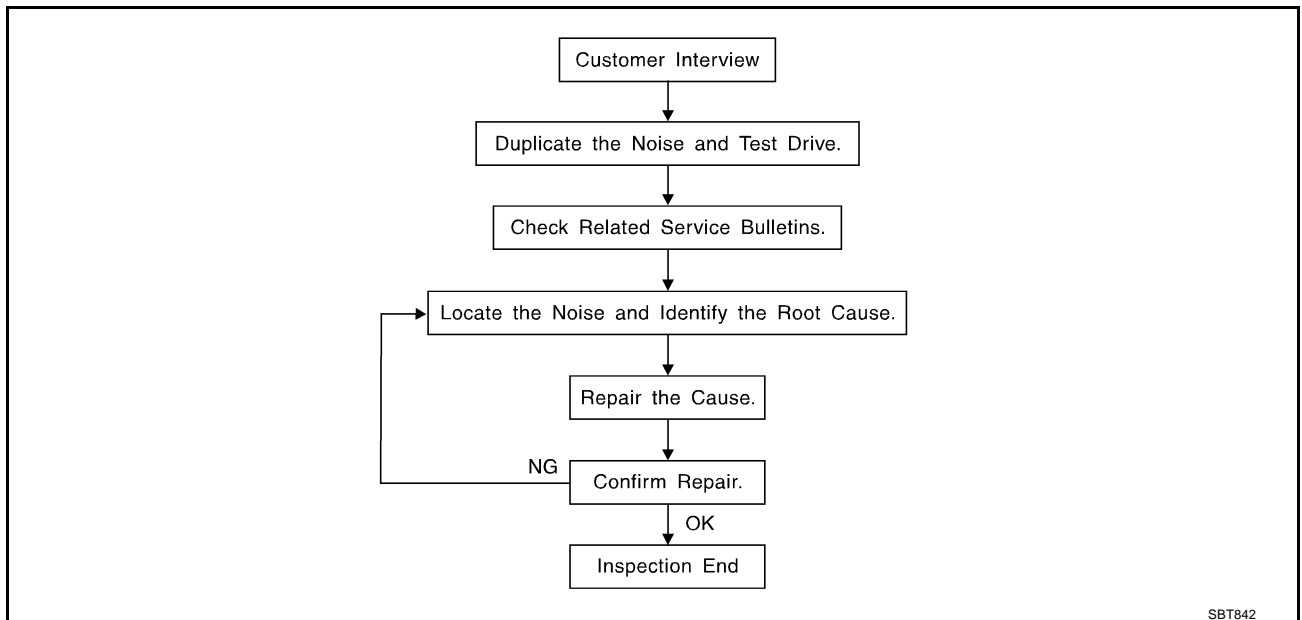
SQUEAK AND RATTLE TROUBLE DIAGNOSES

SQUEAK AND RATTLE TROUBLE DIAGNOSES

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Work Flow

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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 [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.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

DUPLICATE THE NOISE AND TEST DRIVE

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

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

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

CHECK RELATED SERVICE BULLETINS

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

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

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J-39570, Engine Ear: J-39565 and 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.

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 [1.5mm(0.059 in) thick]

Insulates connectors, harness, etc.

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

INSULATOR (Foam blocks)

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

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

INSULATOR (Light foam block)

SQUEAK AND RATTLE TROUBLE DIAGNOSES

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

FELT CLOTH TAPE

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

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

UHMW(TEFLON) TAPE

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

SILICONE GREASE

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

Note: Will only last a few months.

SILICONE SPRAY

Use when grease cannot be applied.

DUCT TAPE

Use to eliminate movement.

CONFIRM THE REPAIR

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

Generic Squeak and Rattle Troubleshooting

AIS003YF

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

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

These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or 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
2. A/C control unit and cluster lid C
3. Wiring harnesses behind audio and A/C control unit

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

DOORS

Pay attention to the:

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

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

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

TRUNK

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

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

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

SUNROOF/HEADLINER

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

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

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

SEATS

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

Cause of seat noise include:

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

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

UNDERHOOD

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

Causes of transmitted underhood noise include:

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

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

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Diagnostic Worksheet

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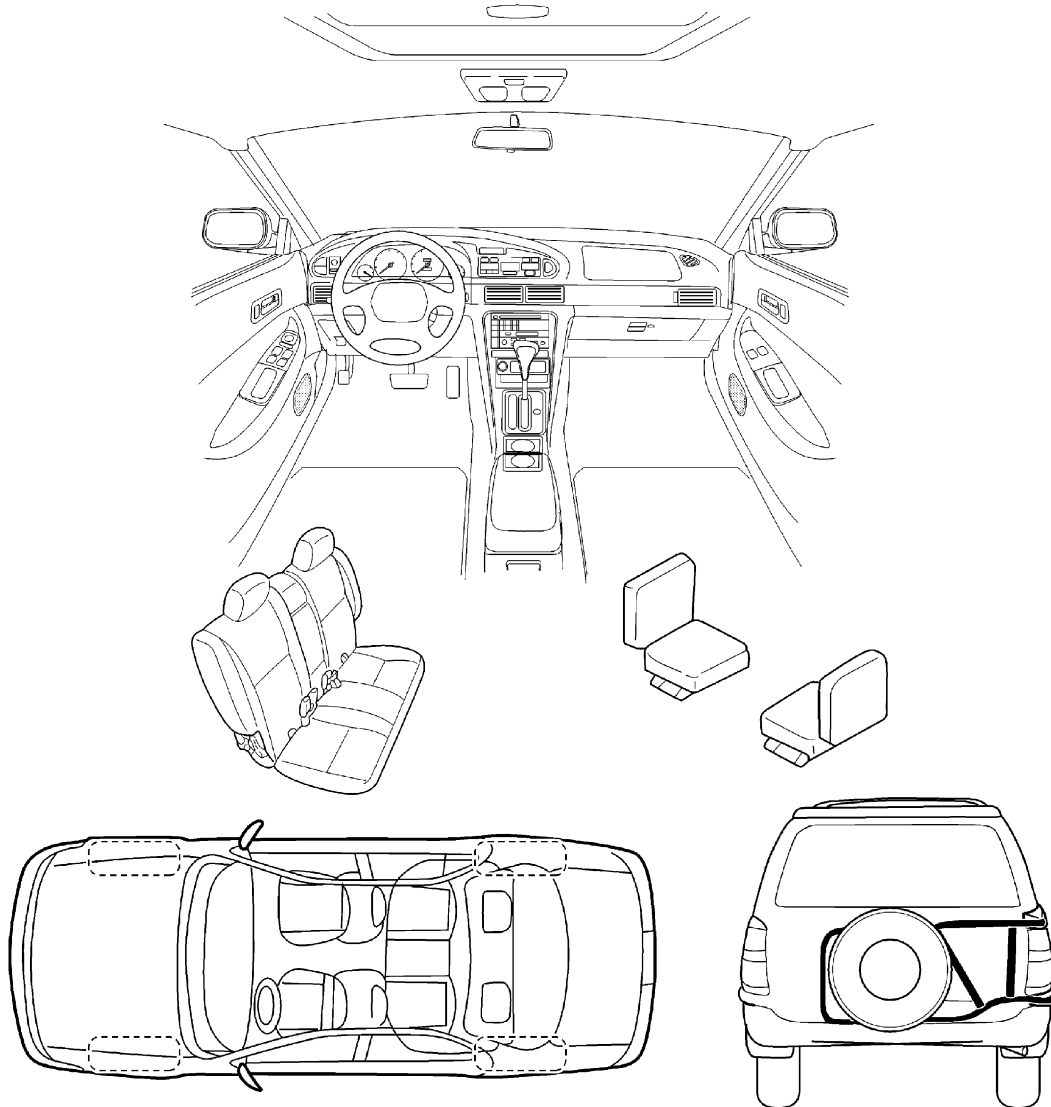
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Nissan Customer:

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

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

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



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

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET- page 2

Briefly describe the location where the noise occurs:

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

- | | |
|--|---|
| <input type="checkbox"/> anytime | <input type="checkbox"/> after sitting out in the sun |
| <input type="checkbox"/> 1 st time in the morning | <input type="checkbox"/> when it is raining or wet |
| <input type="checkbox"/> only when it is cold outside | <input type="checkbox"/> dry or dusty conditions |
| <input type="checkbox"/> only when it is hot outside | <input type="checkbox"/> other: _____ |

III. WHEN DRIVING:

- through driveways
- over rough roads
- over speed bumps
- only at about ____ mph
- on acceleration
- coming to a stop
- on turns : left, right or either (circle)
- with passengers or cargo
- other: _____
- after driving ____ miles or ____ minutes

IV. WHAT TYPE OF NOISE?

- squeak (like tennis shoes on a clean floor)
- creak (like walking on an old wooden floor)
- rattle (like shaking a baby rattle)
- knock (like a knock on a door)
- tick (like a clock second hand)
- thump (heavy, muffled knock noise)
- buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

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

VIN: _____ Customer Name: _____

W.O. #: _____ Date: _____

SBT844

This form must be attached to Work Order

SOFT TOP

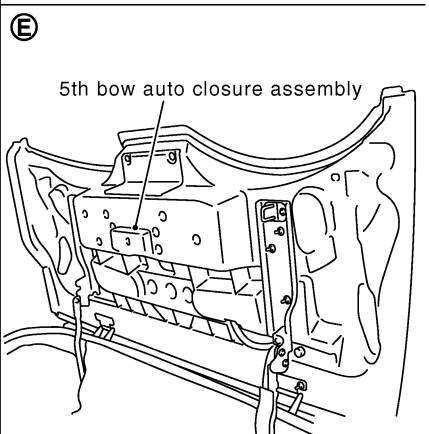
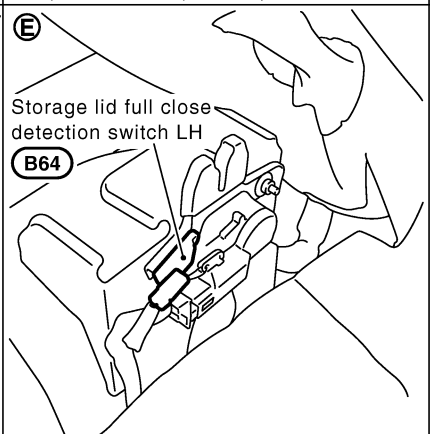
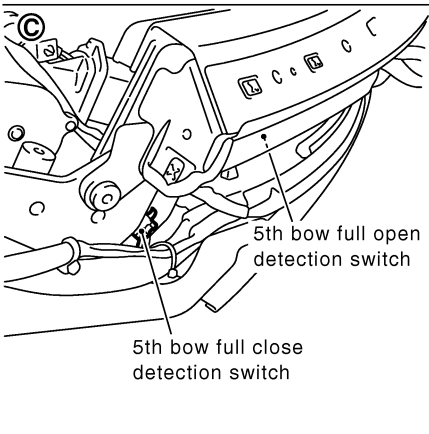
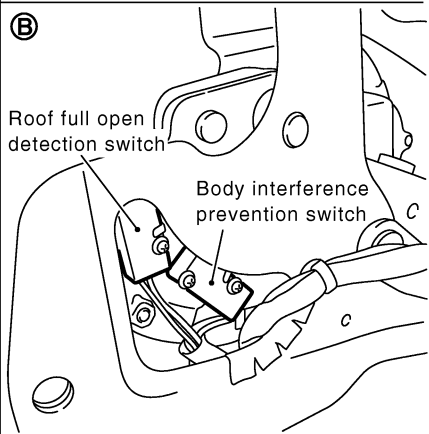
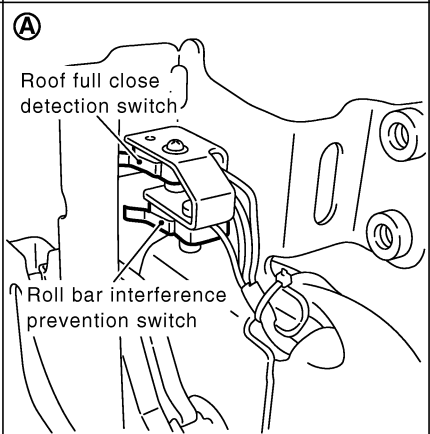
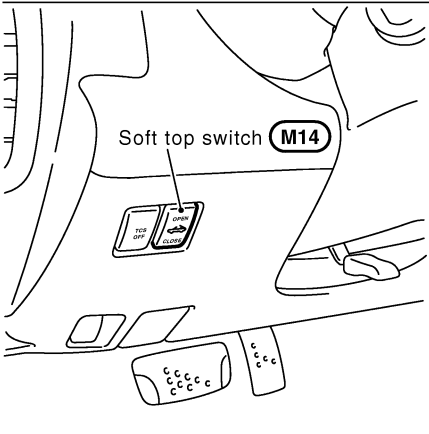
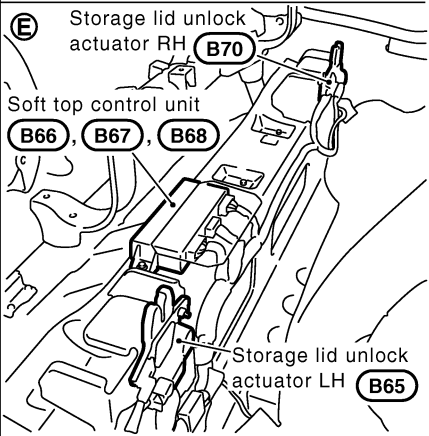
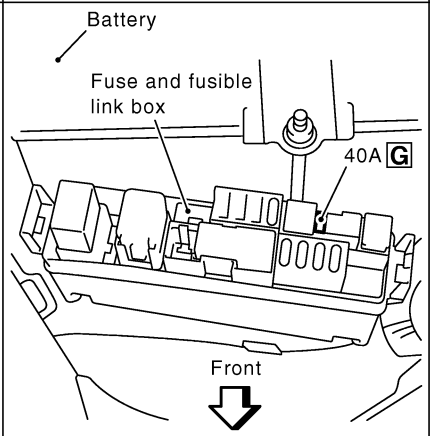
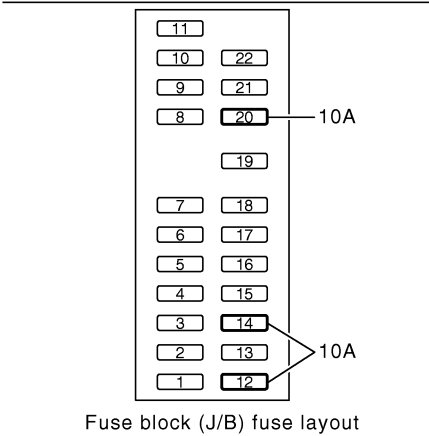
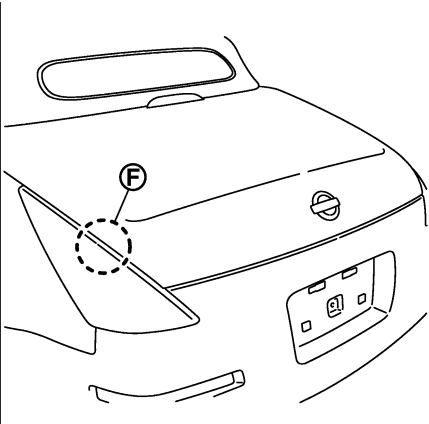
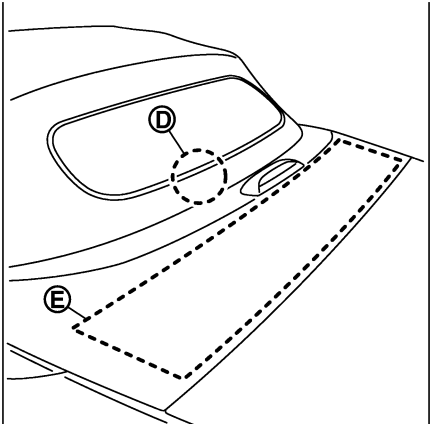
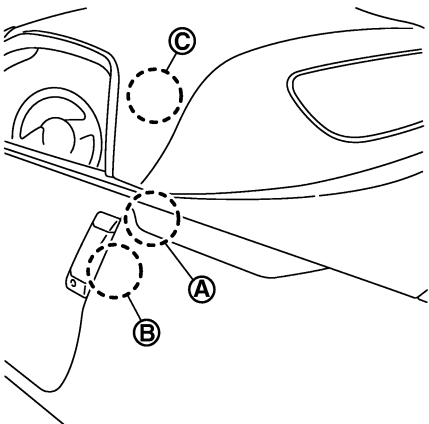
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SOFT TOP

Component Parts and Harness Connector Location

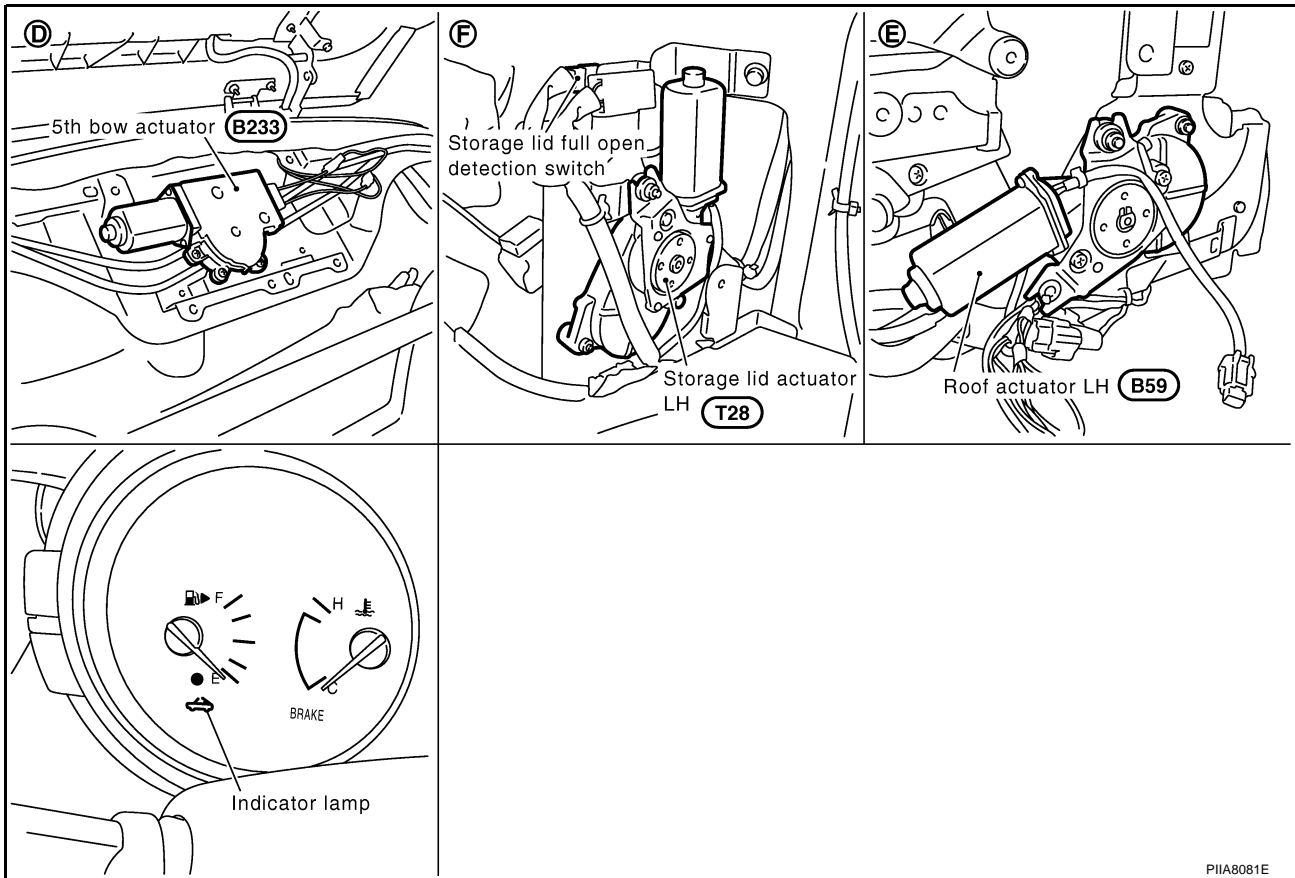
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PIA8080E

SOFT TOP



PIIA8081E

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.

NOTE:

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

AIS0063U

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.

SOFT TOP

CONDITIONS FOR OPERATION

Operation is available 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.

CAUTION:

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 fully-open 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.

SOFT TOP

| Item | Condition |
|---------------------------|------------|
| 5th bow half-latch switch | : OFF → ON |
| 5th bow actuator | : UP |
| 5th bow unlock actuator | : ON → OFF |

- **CONDITION: OP 4**
The 5th bow is rising.

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

- **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 → OFF |

- **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 → OFF |
| 5th bow actuator | : DOWN → 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.

SOFT TOP

| Item | Condition | |
|---|------------|---|
| Roof actuator (LH and RH) | : OPEN | A |
| 5th bow actuator | : UP | |
| 5th bow full close detection switch | : OFF → ON | B |
| 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 | D |
| 5th bow full open detection switch | : OFF → ON | |
| 5th bow actuator | : UP → STOP | E |
| Body interference prevention switch | : OFF → 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 | G |
| Roof actuator (LH and RH) | : OPEN → STOP | H |
| Storage lid actuator (LH and RH) | : CLOSE | |
| Storage lid full open detection switch | : ON → OFF | |
| Storage lid full close detection switch (LH) | : ON → OFF | RF |

- **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 → OFF | J |
| Storage lid actuator (LH and RH) | : CLOSE → OPEN → STOP | K |
| Indicator lamp | : ON → OFF | L |

M

SOFT TOP

OPERATION: FULL OPEN → FULL CLOSE

Refer to [RF-21, "State Chart"](#) .

- **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 → 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 → OFF |
| Seat back position signal | : OFF → 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 → ON |
| Storage lid actuator (LH and RH) | : OPEN → STOP |
| Roof actuator (LH and RH) | : CLOSE |
| Roof full open detection switch | : ON → OFF |
| Body interference prevention switch | : ON → OFF |

- **CONDITION: CL 4**

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

SOFT TOP

| Item | Condition |
|------------------------------------|------------|
| Roof actuator (LH and RH) | : CLOSE |
| 5th bow actuator | : DOWN |
| 5th bow full open detection switch | : ON → OFF |

- **CONDITON: 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 → OFF |
| 5th bow actuator | : DOWN → STOP |
| Roll bar interference prevention switch | : ON → OFF |

- **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 → STOP |
| 5th bow actuator | : UP |
| 5th bow full close detection switch | : OFF → ON |

- **CONDITON: CL 7**
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 → STOP |
| Storage lid actuator (LH and RH) | : CLOSE |
| Storage lid full open detection switch | : ON → OFF |
| Storage lid full close detection switch (LH) | : ON → OFF |

- **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 → OFF |
| Storage lid actuator | : CLOSE → OPEN → STOP |
| 5th bow actuator | : DOWN |
| 5th bow full open detection switch | : ON → OFF |

- **CONDITION: CL 9**
The 5th bow is lowering.

| Item | Condition |
|-------------------------------------|------------|
| 5th bow actuator | : DOWN |
| 5th bow full close detection switch | : ON → OFF |

- **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.

SOFT TOP

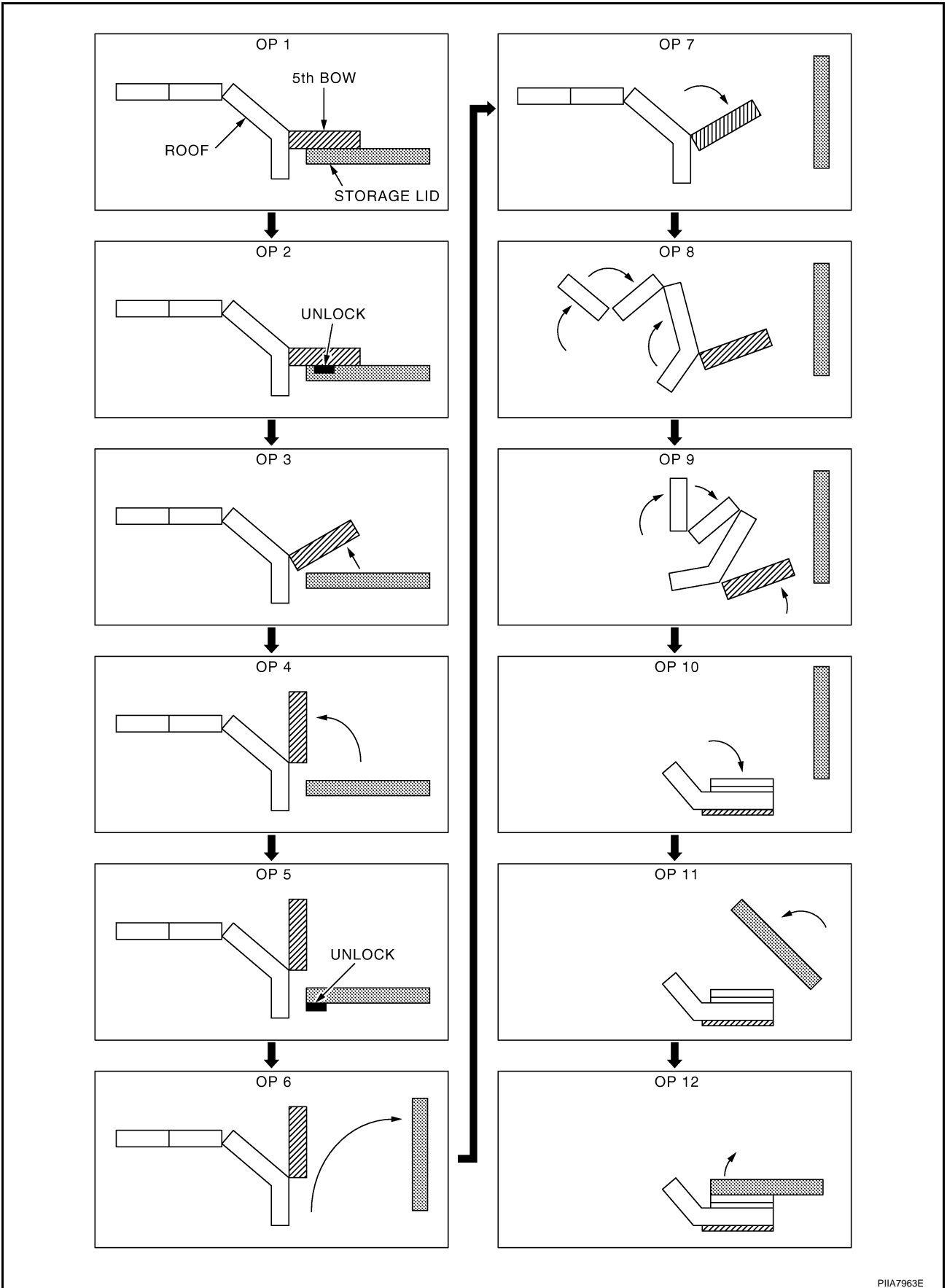
| Item | Condition |
|---------------------------|----------------|
| 5th bow actuator | : DOWN → STOP |
| 5th bow half-latch switch | : ON → OFF |
| 5th bow full-latch switch | : ON → OFF |
| 5th bow ending switch | : ON → OFF |
| 5th bow closure motor | : CLOSE → STOP |
| Indicator lamp | : ON → OFF |

SOFT TOP

AI/S0063V

Operation Chart CLOSE → OPEN State Chart

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PIIA7963E

SOFT TOP

Each Switch and Actuator Signal Chart

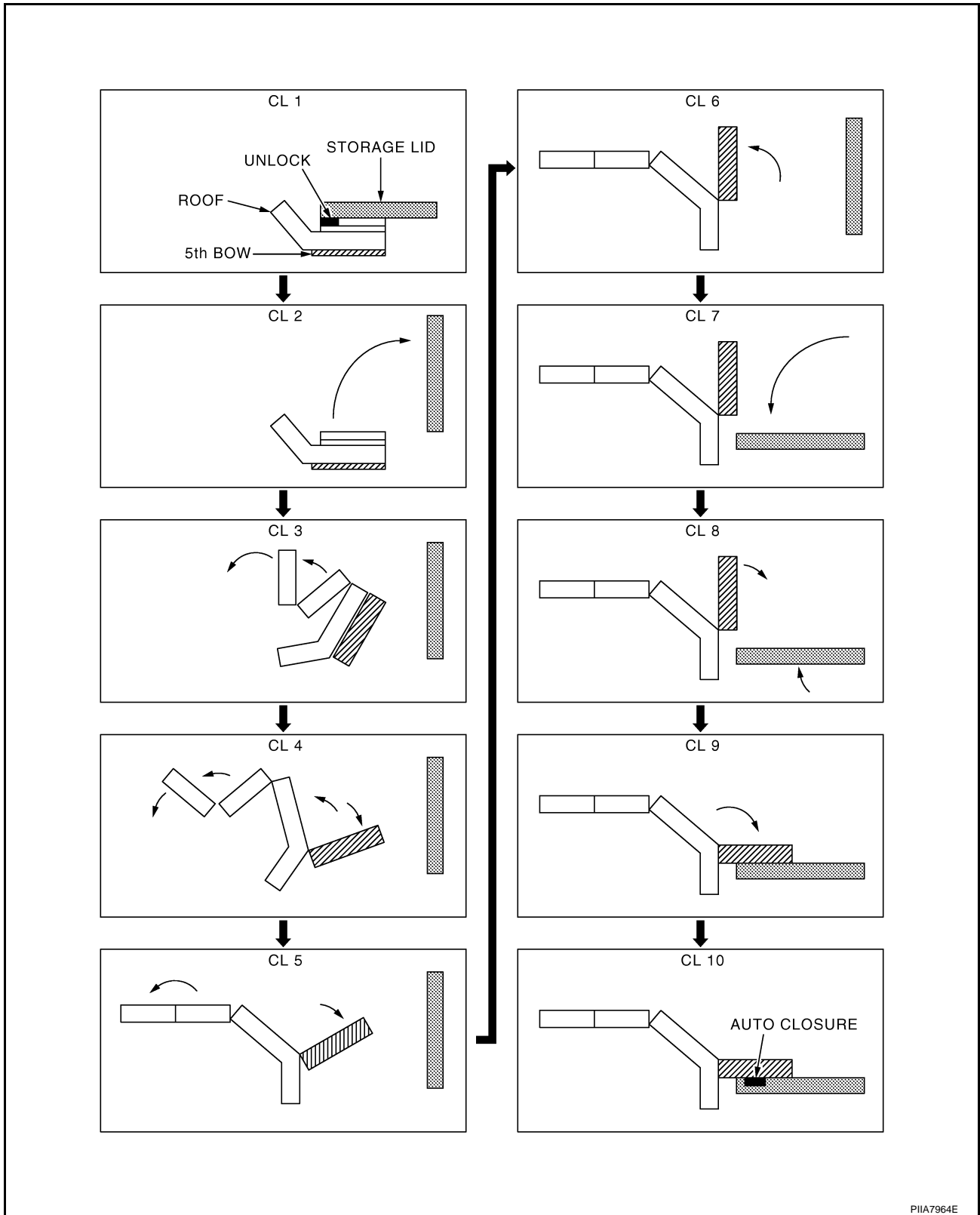
| ITEM | STATE | OP 0 | OP 1 | OP 2 | OP 3 | OP 4 | OP 5 | OP 6 | OP 7 | OP 8 | OP 9 | OP 10 | OP 11 | OP 12 |
|--|---------------|-----------------|---------------|------|------|------|------|------|------|------|------|-------|-------|-------|
| | | Soft top switch | OPEN CLOSE | | | | | | | | | | | |
| 5th bow closure motor | OPEN CLOSE | | | | | | | | | | | | | |
| 5th bow half-latch switch | ON OFF | | | | | | | | | | | | | |
| 5th bow full-latch switch | ON OFF | | | | | | | | | | | | | |
| 5th bow ending switch | ON OFF | | | | | | | | | | | | | |
| 5th bow unlock actuator | ON OFF | | | | | | | | | | | | | |
| 5th bow actuator | UP DOWN | | | | | | | | | | | | | |
| 5th bow full open detection switch | ON OFF | | | | | | | | | | | | | |
| 5th bow full close detection switch | ON OFF | | | | | | | | | | | | | |
| Storage lid unlock actuator | ON OFF | | | | | | | | | | | | | |
| Storage lid actuator | OPEN CLOSE | | | | | | | | | | | | | |
| Storage lid full open detection switch | ON OFF | | | | | | | | | | | | | |
| Storage lid full close detection switch (RH) | ON OFF | | | | | | | | | | | | | |
| Storage lid full close detection switch (LH) | ON OFF | | | | | | | | | | | | | |
| Roof actuator | OPEN CLOSE | | | | | | | | | | | | | |
| Roof full open detection switch | ON OFF | | | | | | | | | | | | | |
| Body interference prevention switch | ON OFF | | | | | | | | | | | | | |
| Roll bar interference prevention switch | ON OFF | | | | | | | | | | | | | |
| Roof full close detection switch | ON OFF | | | | | | | | | | | | | |
| Power window request signal | ON OFF | | | | | | | | | | | | | |
| Indicator lamp | ON OFF | | | | | | | | | | | | | |

PIIA7965E

SOFT TOP

OPEN → CLOSE

State Chart



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SOFT TOP

Each Switch and Actuator Signal Chart

| ITEM | STATE | CL 0 | CL 1 | CL 2 | CL 3 | CL 4 | CL 5 | CL 6 | CL 7 | CL 8 | CL 9 | CL 10 |
|--|-------|------|------|------|------|------|------|------|------|------|------|-------|
| Soft top switch | OPEN | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low |
| | CLOSE | High | High | High | High | High | High | High | High | High | High | High |
| | | | | | | | | | | | | |
| 5th bow closure motor | OPEN | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low |
| | CLOSE | High | High | High | High | High | High | High | High | High | High | High |
| 5th bow half-latch switch | ON | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low |
| | OFF | High | High | High | High | High | High | High | High | High | High | High |
| 5th bow full-latch switch | ON | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low |
| | OFF | High | High | High | High | High | High | High | High | High | High | High |
| 5th bow ending switch | ON | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low |
| | OFF | High | High | High | High | High | High | High | High | High | High | High |
| 5th bow unlock actuator | ON | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low |
| | OFF | High | High | High | High | High | High | High | High | High | High | High |
| 5th bow actuator | UP | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low |
| | DOWN | High | High | High | High | High | High | High | High | High | High | High |
| 5th bow full open detection switch | ON | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low |
| | OFF | High | High | High | High | High | High | High | High | High | High | High |
| 5th bow full close detection switch | ON | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low |
| | OFF | High | High | High | High | High | High | High | High | High | High | High |
| Storage lid unlock actuator | ON | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low |
| | OFF | High | High | High | High | High | High | High | High | High | High | High |
| Storage lid actuator | OPEN | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low |
| | CLOSE | High | High | High | High | High | High | High | High | High | High | High |
| Storage lid full open detection switch | ON | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low |
| | OFF | High | High | High | High | High | High | High | High | High | High | High |
| Storage lid full close detection switch (RH) | ON | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low |
| | OFF | High | High | High | High | High | High | High | High | High | High | High |
| Storage lid full close detection switch (LH) | ON | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low |
| | OFF | High | High | High | High | High | High | High | High | High | High | High |
| Roof actuator | OPEN | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low |
| | CLOSE | High | High | High | High | High | High | High | High | High | High | High |
| Roof full open detection switch | ON | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low |
| | OFF | High | High | High | High | High | High | High | High | High | High | High |
| Body interference prevention switch | ON | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low |
| | OFF | High | High | High | High | High | High | High | High | High | High | High |
| Roll bar interference prevention switch | ON | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low |
| | OFF | High | High | High | High | High | High | High | High | High | High | High |
| Roof full close detection switch | ON | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low |
| | OFF | High | High | High | High | High | High | High | High | High | High | High |
| Power window request signal | ON | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low |
| | OFF | High | High | High | High | High | High | High | High | High | High | High |
| Indicator lamp | ON | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low | Low |
| | OFF | High | High | High | High | High | High | High | High | High | High | High |

PIIA7966E

SOFT TOP

Indicator Lamp

AIS0063W

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

*: The soft top operates for approximately 30 seconds after turn ignition switch OFF.

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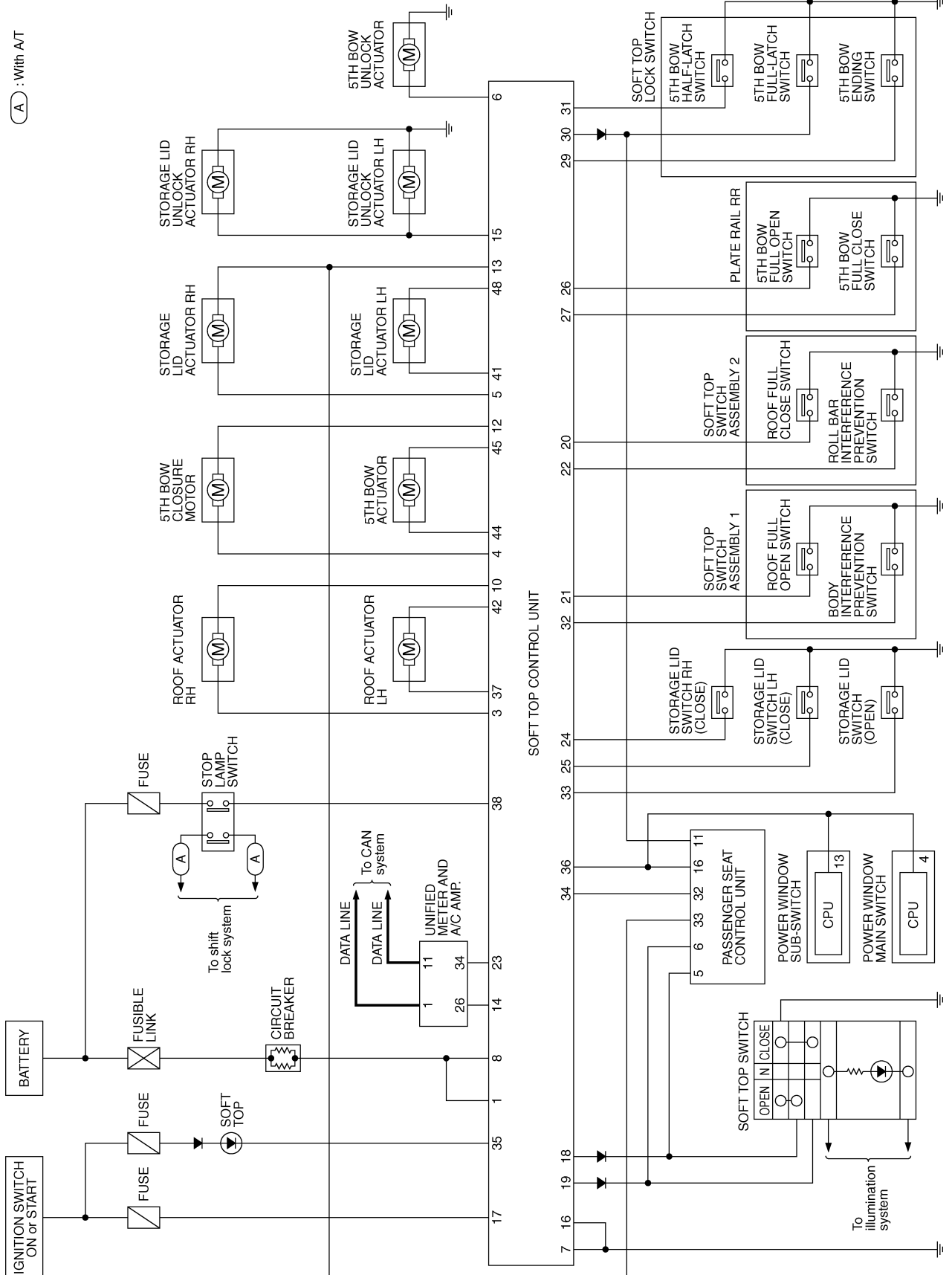
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SOFT TOP

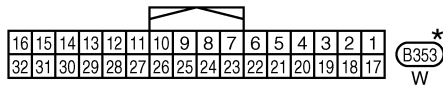
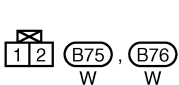
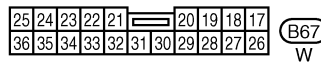
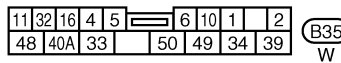
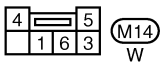
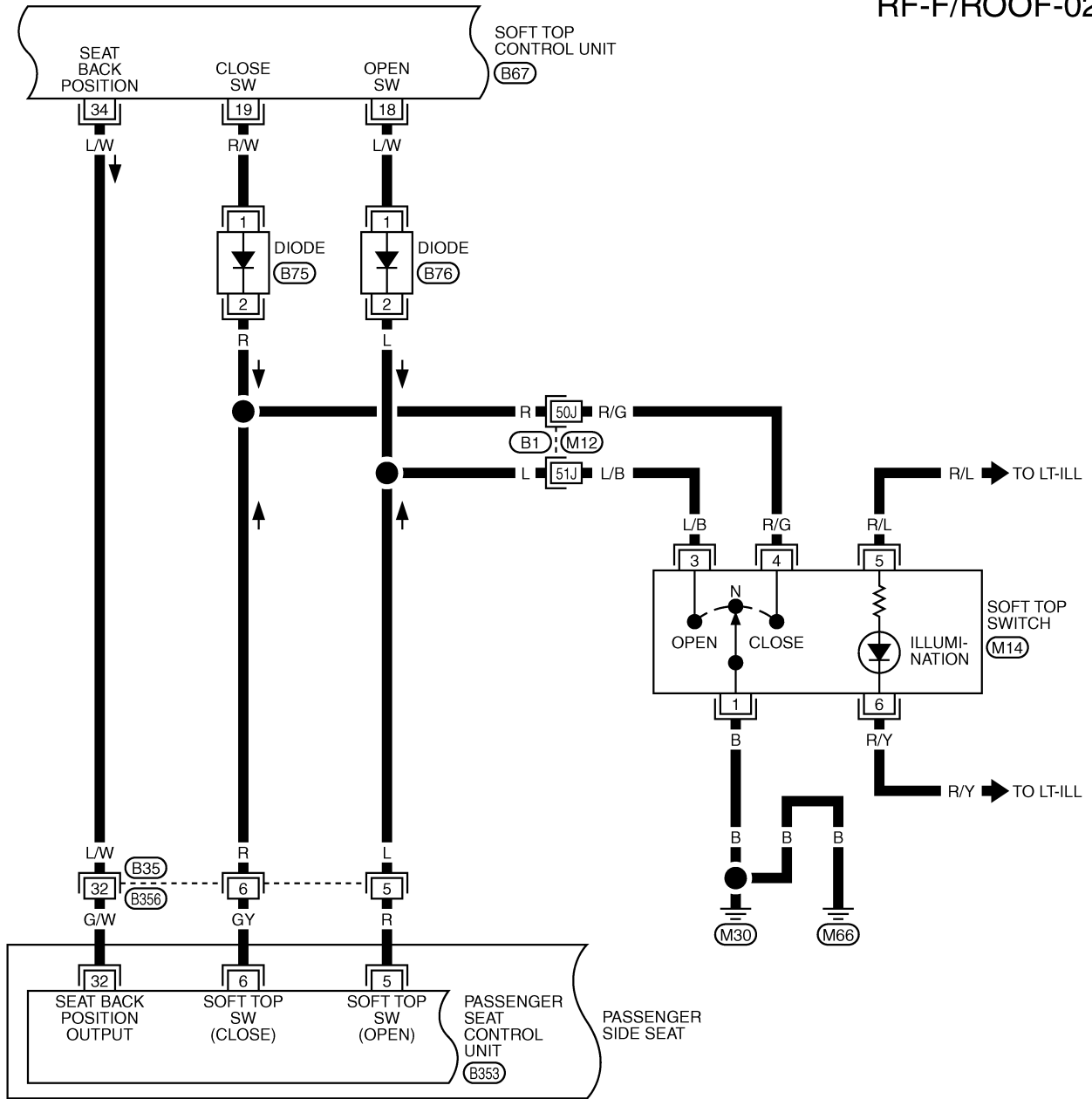
Schematic

AIS0063X

(A) : With A/T



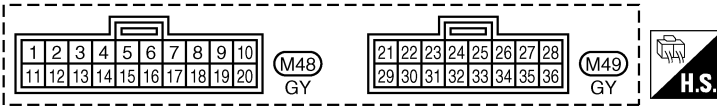
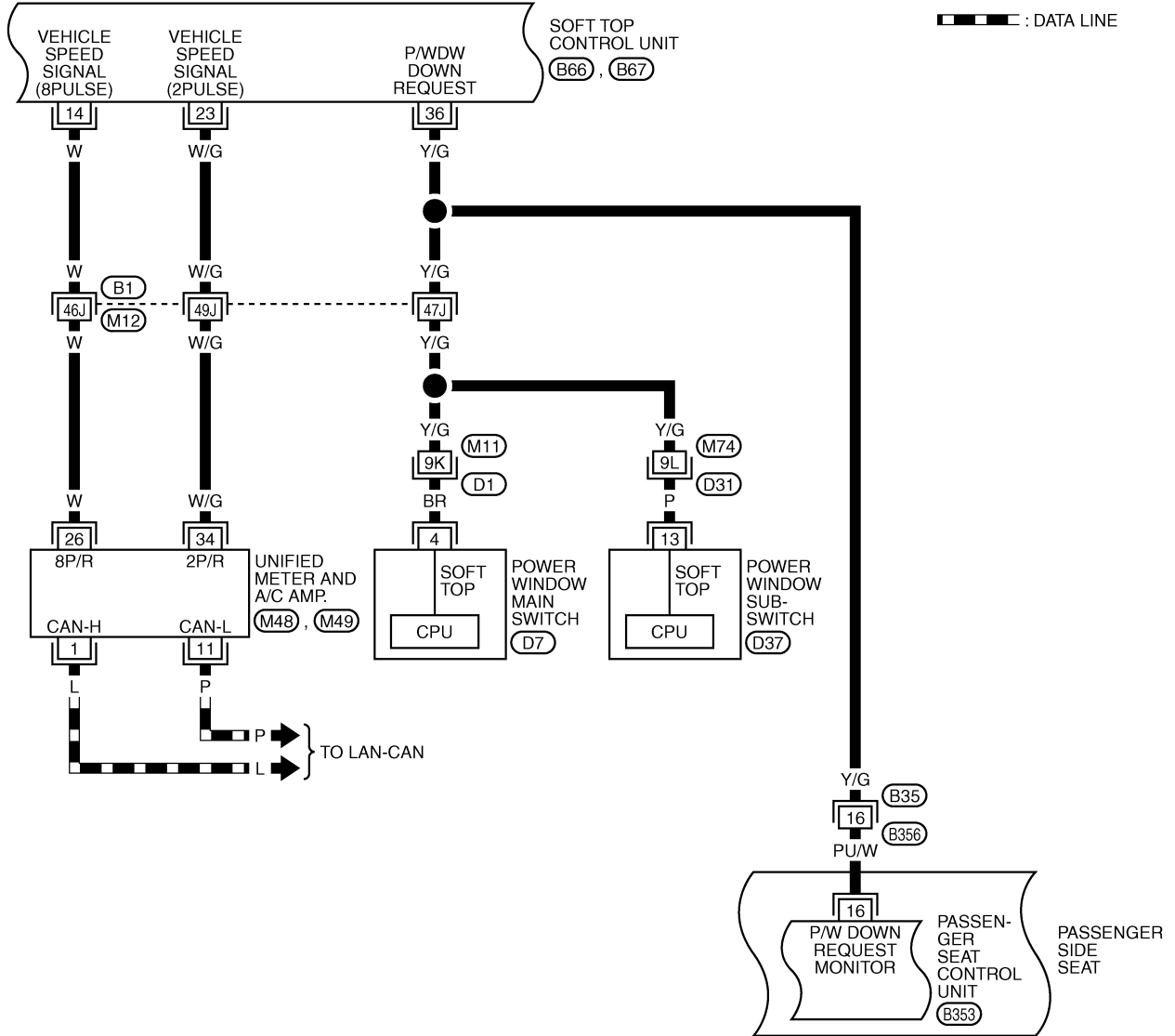
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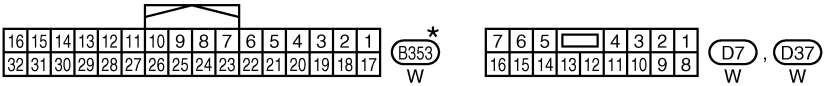
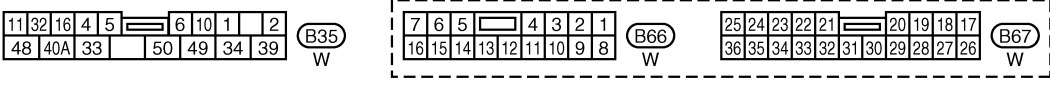
REFER TO THE FOLLOWING.
 (B1) -SUPER MULTIPLE JUNCTION (SMJ)

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

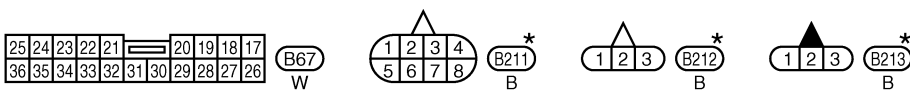
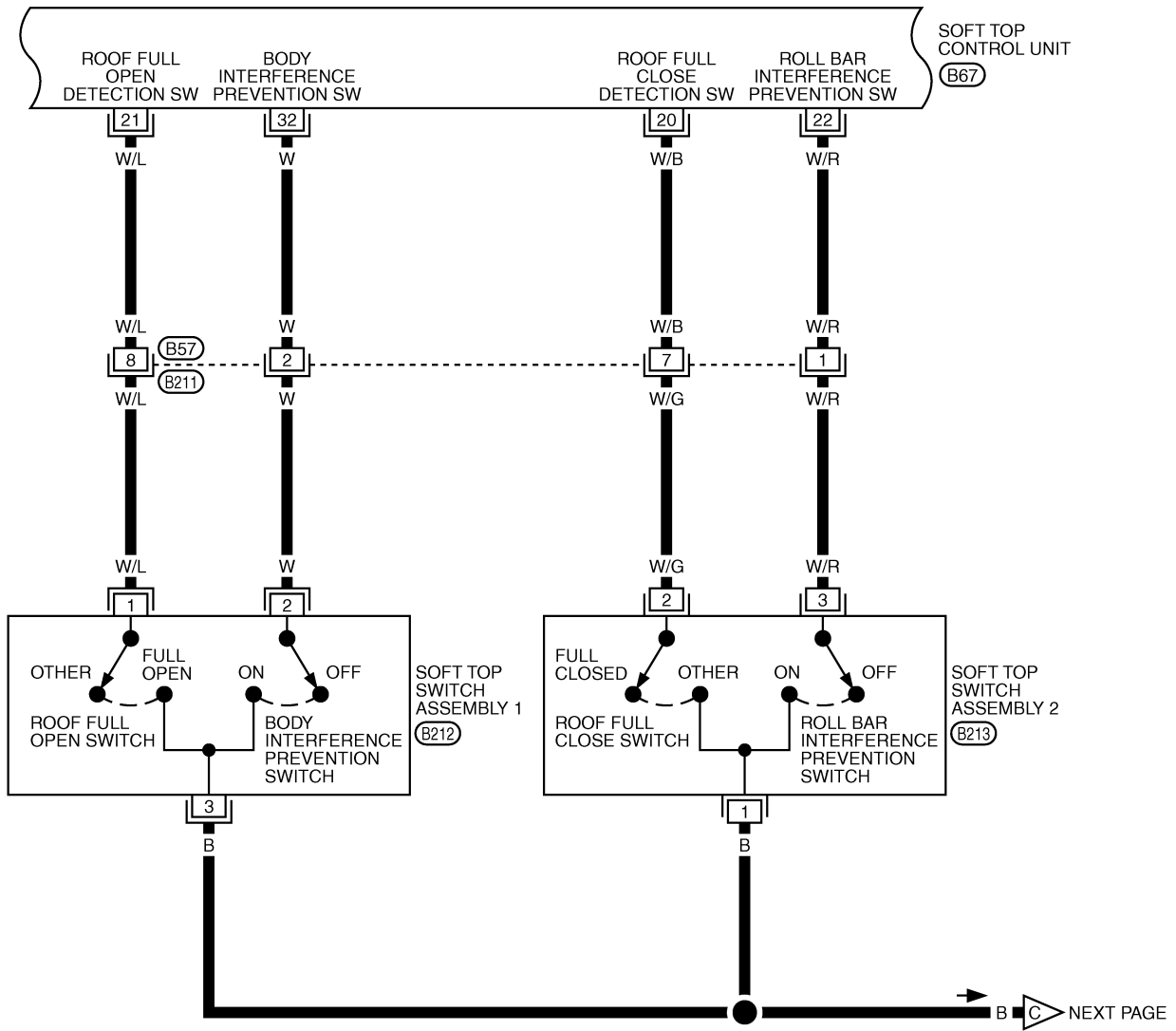
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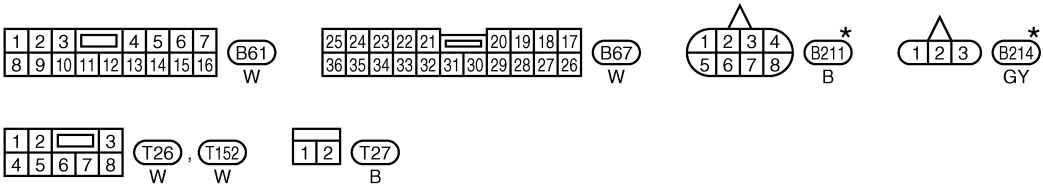
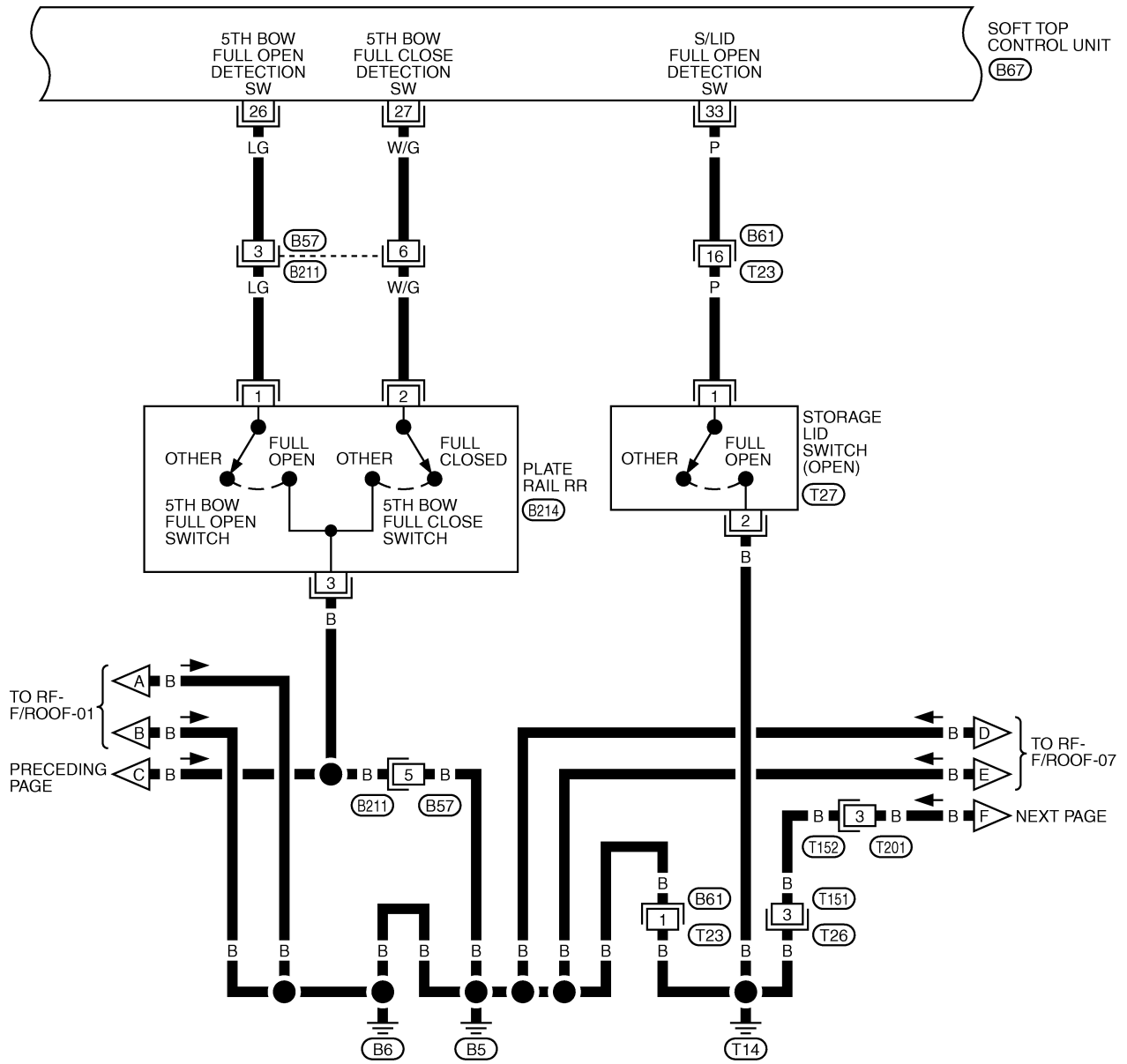
REFER TO THE FOLLOWING.
(B1), (D1), (D31) -SUPER
MULTIPLE JUNCTION (SMJ)



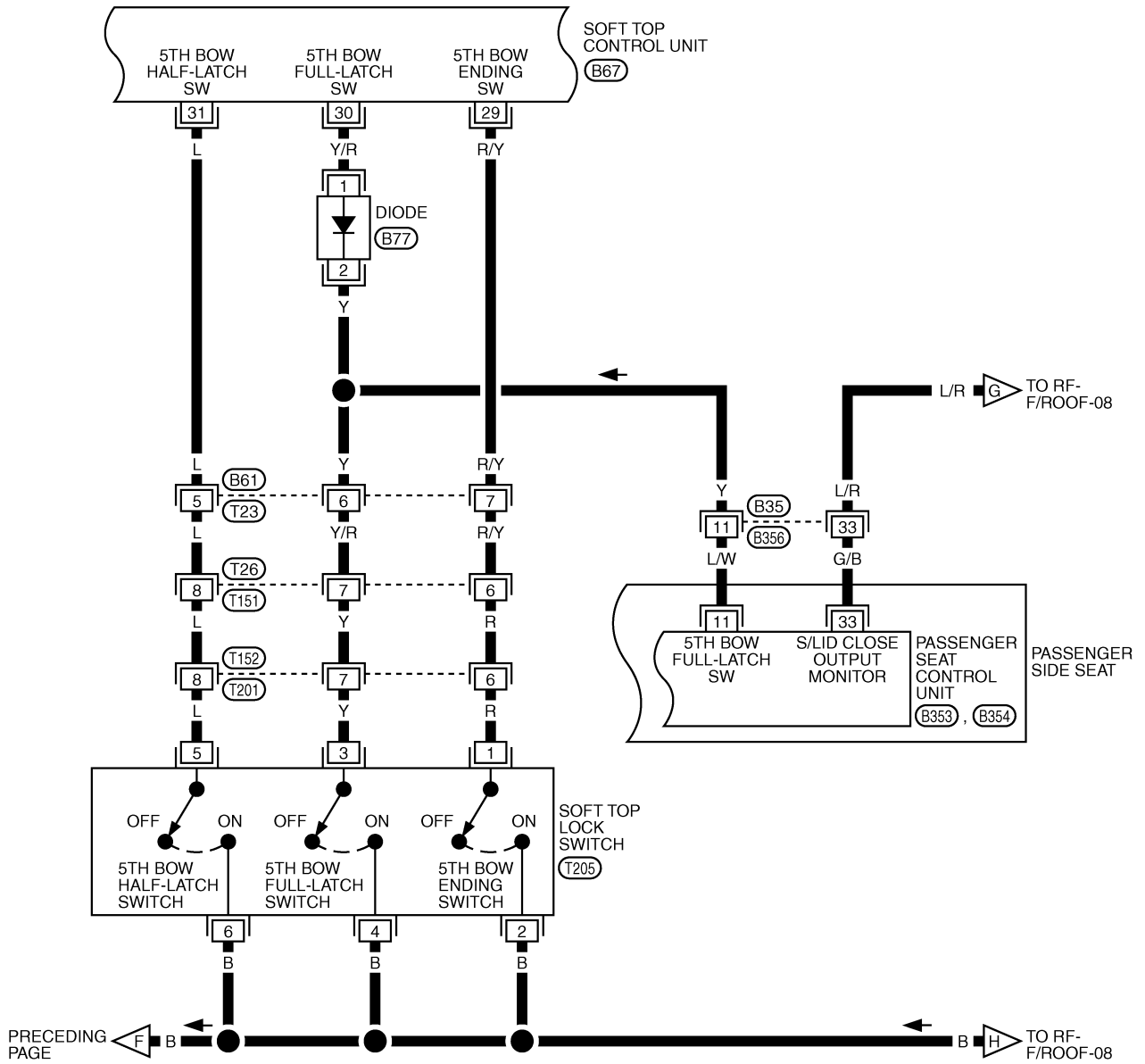
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.



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



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



| | | | | | | | | |
|----|-----|----|---|----|----|----|----|---|
| 11 | 32 | 16 | 4 | 5 | 6 | 10 | 1 | 2 |
| 48 | 40A | 33 | | 50 | 49 | 34 | 39 | |

W (B35)

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|---|---|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |

W (B61)

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|----|----|----|----|----|----|----|----|----|
| 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 |
| 36 | 35 | 34 | 33 | 32 | 31 | 30 | 29 | 28 |

W (B67)

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| | |

W (B77)

| | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| 32 | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 |

W (B353)

| | | | | | | |
|----|----|----|----|----|----|----|
| 39 | 38 | 37 | 36 | 35 | 34 | 33 |
| 48 | 47 | 46 | 45 | 44 | 43 | 42 |

W (B354)

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

W (T26)

| | |
|---|---|
| 1 | 2 |
| 6 | 5 |

W (T152)

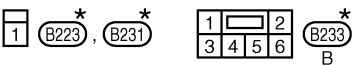
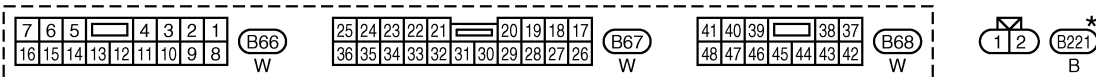
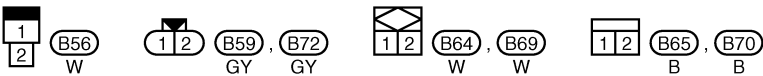
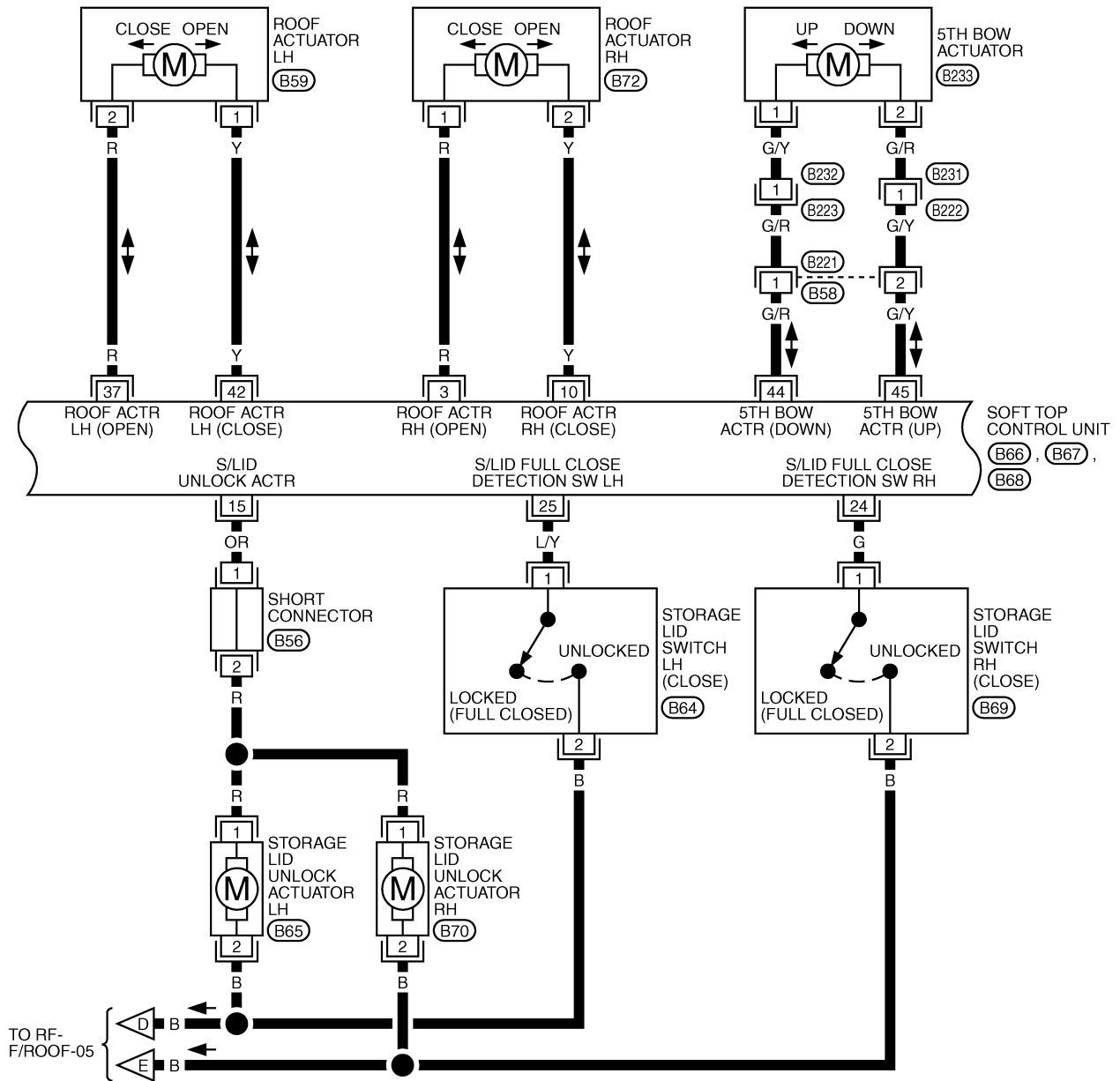
| | |
|---|---|
| 2 | 1 |
| 6 | 3 |

W (T205)

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

SOFT TOP

RF-F/ROOF-07



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

SOFT TOP

Terminal and Reference Value of Soft Top Control Unit

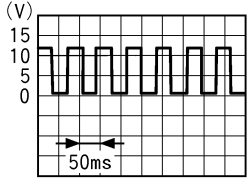
AI50063Z

CLOSE → OPEN OPERATION

The operation chart for roof position. Refer to [RF-19, "State Chart"](#).

| Terminal | Wire color | Item | Condition (Roof position: OP) | Voltage (V) (Approx.) |
|----------|------------|---|---|--------------------------|
| 1 | W/R | Battery power supply | — | Battery voltage |
| 3 | R | Roof actuator RH (OPEN) signal | OP8 → OP11 | 0 → Battery voltage → 0 |
| | | | Other than above | 0 |
| 4 | G/W | 5th bow closure motor (CLOSE) signal | — | 0 |
| 5 | R/B | Storage lid actuator RH (OPEN) signal | OP6 → OP7 | 0 → Battery voltage → 0 |
| | | | OP12 | |
| | | | Other than above | 0 |
| 6 | R | 5th bow unlock actuator signal | OP2 → OP3 | 0 → Battery voltage → 0 |
| | | | Other than above | 0 |
| 7 | B | Ground | — | 0 |
| 8 | W/R | Battery power supply | — | Battery voltage |
| 10 | Y | Roof actuator RH (CLOSE) signal | — | 0 |
| 12 | G/Y | 5th bow closure motor (OPEN) signal | OP4 | 0 → Battery voltage → 0 |
| | | | Other than above | 0 |
| 13 | L/R | Storage lid actuator RH (CLOSE) signal | OP11 → OP12 | 0 → Battery voltage → 0 |
| | | | Other than above | 0 |
| 14 | W | Speed signal (8 pulse) | Speed meter operate [When vehicle speed is Approx. 40km/h (25 MPH)] | |
| 15 | OR | Storage lid unlock actuator signal | OP5 → OP6 | 0 → Battery voltage → 0 |
| | | | Other than above | 0 |
| 16 | B | Ground | — | 0 |
| 17 | G | Ignition switch (ON or START) | Ignition switch (ON or START position) | Battery voltage |
| 18 | L/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 | 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 |

SOFT TOP

| Terminal | Wire color | Item | Condition (Roof position: OP) | Voltage (V) (Approx.) |
|----------|------------|---|--|---|
| 23 | W/G | Speed signal (2 pulse) | Speed meter operate [When vehicle speed is Approx. 40 km/h (25 MPH)] |  |
| 24 | G | Storage lid full close detection switch (RH) signal | OP5 → OP12 | 5 → 0 → 5 |
| 25 | L/Y | Storage lid full close detection switch (LH) signal | OP6 → OP11 | 5 → 0 → 5 |
| 26 | LG | 5th bow full open detection switch signal | OP5 → OP7 | 5 → 0 → 5 |
| | | | OP10 | 5 → 0 |
| 27 | W/G | 5th bow full close detection switch signal | OP4 → OP8 | 5 → 0 → 5 |
| | | | 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 | P | Storage lid full open detection switch signal | OP7 → OP11 | 5 → 0 → 5 |
| 34 | L/W | Seat back position signal | When passenger seat inclines forward | 0 |
| | | | Other than above | 5 |
| 35 | BR | Indicator lamp signal | OP1 → OP12 | 0 |
| | | | Other than above | Battery voltage |
| 36 | Y/G | Power window down signal | OP1 → OP11 | 0 |
| | | | Other than above | 5 |
| 37 | R | Roof actuator LH (OPEN) signal | OP8 → OP11 | 0 → Battery voltage → 0 |
| | | | Other than above | 0 |
| 38 | P/L | Brake pedal signal | Brake pedal : Depressed | Battery voltage |
| | | | : Released | 0 |
| 41 | R/L | Storage lid actuator LH (OPEN) signal | OP6 → OP7 | 0 → Battery voltage → 0 |
| | | | OP12 | |
| | | | Other than above | 0 |
| 42 | Y | Roof actuator LH (CLOSE) signal | — | 0 |
| 44 | G/R | 5th bow actuator (DOWN) signal | OP7 → OP8 | 0 → Battery voltage → 0 |
| | | | Other than above | 0 |
| 45 | G/Y | 5th bow actuator (UP) signal | OP3 → OP5 | 0 → Battery voltage → 0 |
| | | | OP9 → OP10 | |
| | | | Other than above | 0 |
| 48 | Y/B | Storage lid actuator LH (CLOSE) signal | OP11 → OP12 | 0 → Battery voltage → 0 |
| | | | Other than above | 0 |

SOFT TOP

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 | G/W | 5th bow closure motor (CLOSE) signal | CL10 | 0 → Battery voltage → 0 |
| | | | Other than above | 0 |
| 5 | R/B | Storage lid actuator RH (OPEN) signal | CL2 → CL3 | 0 → Battery voltage → 0 |
| | | | CL8 | |
| | | | Other than above | 0 |
| 6 | R | 5th bow unlock actuator signal | — | 0 |
| 7 | B | Ground | — | 0 |
| 8 | W/R | Battery power supply | — | Battery voltage |
| 10 | Y | Roof actuator RH (CLOSE) signal | CL3 → CL6 | 0 → Battery voltage → 0 |
| | | | Other than above | 0 |
| 12 | G/Y | 5th bow closure motor (OPEN) signal | — | 0 |
| 13 | L/R | Storage lid actuator RH (CLOSE) signal | CL7 → CL8 | 0 → Battery voltage → 0 |
| | | | Other than above | 0 |
| 14 | W | Speed signal (8 pulse) | Speed meter operate [When vehicle speed is Approx. 40 km/h (25 MPH)] | |
| 15 | OR | Storage lid unlock actuator signal | CL1 → CL2 | 0 → Battery voltage → 0 |
| | | | Other than above | 0 |
| 16 | B | Ground | — | 0 |
| 17 | G | Ignition switch (ON or START) | Ignition switch (ON or START position) | Battery voltage |
| 18 | L/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 |

SOFT TOP

| Terminal | Wire color | Item | Condition (Roof position: CL) | Voltage (V) (Approx.) |
|----------|------------|---|--|---|
| 23 | W/G | Speed signal (2 pulse) | Speed meter operate [When vehicle speed is Approx. 40 km/h (25 MPH)] | <p style="text-align: right;">PIIB0078J</p> |
| 24 | G | Storage lid full close detection switch (RH) signal | CL1 → CL8 | 5 → 0 → 5 |
| 25 | L/Y | Storage lid full close detection switch (LH) signal | CL2 → CL7 | 5 → 0 → 5 |
| 26 | LG | 5th bow full open detection switch signal | CL4 | 0 → 5 |
| | | | CL7 | 5 → 0 |
| | | | CL8 | 0 → 5 |
| 27 | W/G | 5th bow full close detection switch signal | CL5 → CL6 | 0 → 5 → 0 |
| | | | CL9 | 0 → 5 |
| 29 | R/Y | 5th bow ending switch signal | CL10 | 0 → 5 |
| 30 | Y/R | 5th bow full-latch switch signal | CL10 | 0 → 5 |
| 31 | L | 5th bow half-latch switch signal | CL9 → CL10 | 0 → 5 |
| 32 | W | Body interference prevention switch signal | CL3 | 0 → 5 |
| 33 | P | Storage lid full open detection switch signal | CL3 → CL7 | 5 → 0 → 5 |
| 34 | L/W | Seat back position signal | When passenger seat inclines forward | 0 |
| | | | Other than above | 5 |
| 35 | BR | Indicator lamp signal | CL1 → CL10 | 0 |
| | | | Other than above | Battery voltage |
| 36 | Y/G | Power window down signal | CL1 → CL10 | 0 |
| | | | Other than above | 5 |
| 37 | R | Roof actuator LH (OPEN) signal | — | 0 |
| 38 | P/L | Brake pedal signal | Brake pedal : Depressed | Battery voltage |
| | | | : Released | 0 |
| 41 | R/L | Storage lid actuator LH (OPEN) signal | CL2 → CL3 | 0 → Battery voltage → 0 |
| | | | CL8 | |
| | | | Other than above | 0 |
| 42 | Y | Roof actuator LH (CLOSE) signal | CL3 → CL6 | 0 → Battery voltage → 0 |
| 44 | G/R | 5th bow actuator (DOWN) signal | CL4 → CL5 | 0 → Battery voltage → 0 |
| | | | CL8 → CL10 | |
| 45 | G/Y | 5th bow actuator (UP) signal | CL6 → CL7 | 0 → Battery voltage → 0 |
| 48 | Y/B | Storage lid actuator LH (CLOSE) signal | CL7 → CL8 | 0 → Battery voltage → 0 |
| | | | Other than above | 0 |

SOFT TOP

Work Flow

AIS00640

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.
5. INSPECTION END.

Trouble Diagnosis Chart by Symptom (CLOSE → OPEN)

AIS00641

The operation chart for roof position. Refer to [RF-19, "State Chart"](#) .

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

SOFT TOP

| Symptom | Diagnostic procedure and repair order | Roof position | Refer to page |
|---|---------------------------------------|---------------|-----------------------|
| Indicator lamp blinks when IGN SW : OFF → ON is done. | 1. Replace soft top control unit | — | RF-85 |
| Indicator lamp blinks when beginning to run. | 1. Speed signal check | — | RF-83 |

(OPEN → CLOSE)

The operation chart for roof position. Refer to [RF-21, "State Chart"](#) .

| Symptom | Diagnostic procedure and repair order | Roof position | Refer to page |
|---|--|---------------|-----------------------|
| Roof does not operate | 1. Soft top control unit power supply check | CL1 | RF-39 |
| | 2. Soft top switch (Close) check | CL1 | RF-41 |
| | 3. Operation permission condition check | CL1 | RF-76 |
| | 4. Each switch condition check (Close operate) | Full open | RF-80 |
| | 5. Seat back position signal check | CL1 | RF-82 |
| | 6. Storage lid unlock actuator check (Close operate) | CL1 | RF-58 |
| | 7. Storage lid full close detection switch (LH and RH) check (Close operate) | CL1.2 | RF-59 |
| | 8. Storage lid actuator check (Close operate) | CL2 | RF-61 |
| Storage lid operation stops at full open position | 1. Roof actuator check (Close operate) | CL2 | RF-65 |
| | 2. Body interference prevention switch check (Close operate) | CL3 | RF-64 |
| Roof stops on the way | 1. Storage lid full open detection switch check (Close operate) | CL3 | RF-62 |
| | 2. Roof full close detection switch check (Close operate) | CL5 | RF-66 |
| | 3. 5th bow actuator check (Close operate) | CL5 | RF-68 |
| Operation stops after 5th bow operates down | 1. 5th bow full close detection switch check (Close operate) | CL5 | RF-68 |
| Operation stops after 5th bow operates up | 1. 5th bow full open detection switch check (Close operate) | CL6 | RF-70 |
| Auto closure of 5th bow does not operate. | 1. 5th bow half-latch switch check | CL10 | RF-71 |
| | 2. 5th bow full-latch switch check | CL10 | RF-72 |
| | 3. 5th bow ending switch check | CL10 | RF-74 |
| | 4. 5th bow closure motor check | CL10 | RF-75 |
| Passenger side seat back does not operate. | 1. Passenger side seat cancel switch check | CL1 | SE-47 |
| | 2. Passenger side seat operate signal check 1 | CL1 | RF-81 |
| Passenger side seat back does not return to former state | 1. Passenger side seat operate signal check 3 | CL10 | RF-82 |
| Power window down does not operate. | 1. Power window harness check | CL1 | RF-81 |
| Both power window down and passenger seat are not operated. | 1. Power window down request signal check | CL1 | RF-80 |
| Indicator lamp does not light. (soft top operates properly) | 1. Indicator lamp circuit check | — | RF-84 |
| Indicator lamp blinks when IGN SW : OFF → ON is done. | 1. Replace soft top control unit | — | RF-85 |
| Indicator lamp blinks when beginning to run. | 1. Speed signal check | — | RF-83 |

SOFT TOP

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

AIS00642

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.

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

2. CHECK POWER SUPPLY CIRCUIT

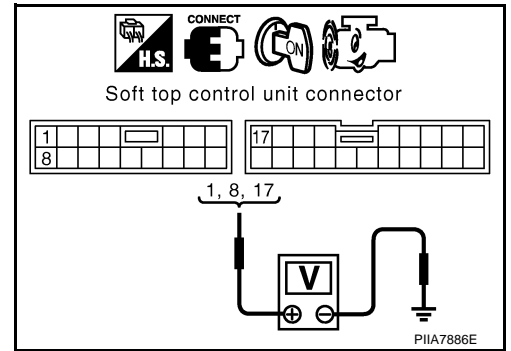
1. Start engine.
2. Check voltage between soft top control unit connector B66, 67 terminal 1, 8, 17 and ground.

- 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.



3. CHECK GROUND CIRCUIT

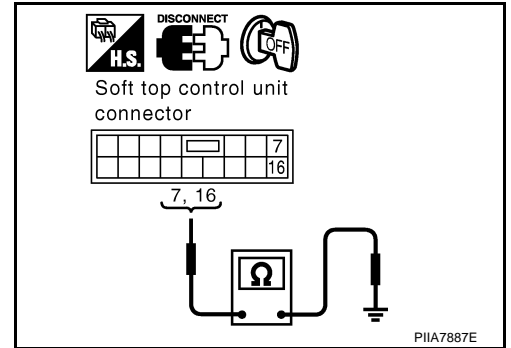
1. Turn ignition switch OFF.
2. Disconnect soft top control unit connector.
3. Check continuity between soft top control unit connector B66 terminal 7, 16 and ground.

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

OK or NG

OK >> Power supply and ground circuit are OK.

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



Soft Top Switch (OPEN) Check

AIS00643

1. CHECK SOFT TOP OPEN SWITCH SIGNAL

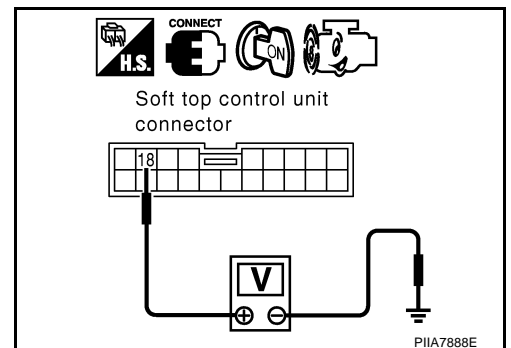
1. Start engine.
2. Check soft top control unit connector and ground.

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

OK or NG

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

NG >> GO TO 2.



SOFT TOP

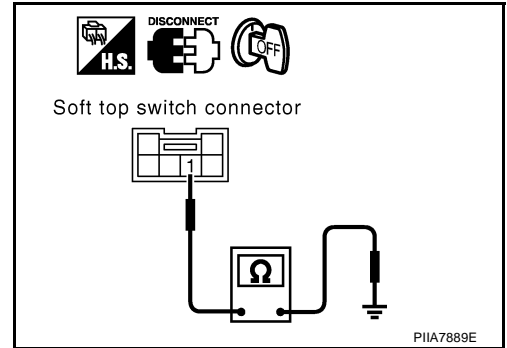
2. CHECK SOFT TOP SWITCH GROUND CIRCUIT

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.



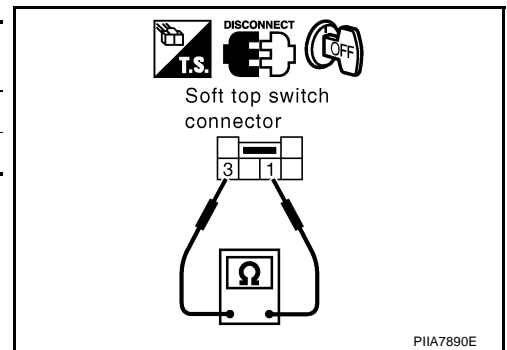
3. CHECK SOFT TOP SWITCH

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

| Connector | Terminal | | Soft top switch Condition | Continuity |
|-----------|----------|---|---------------------------|------------|
| M14 | 1 | 3 | OPEN | 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 18 and soft top switch connector M14 terminal 3.

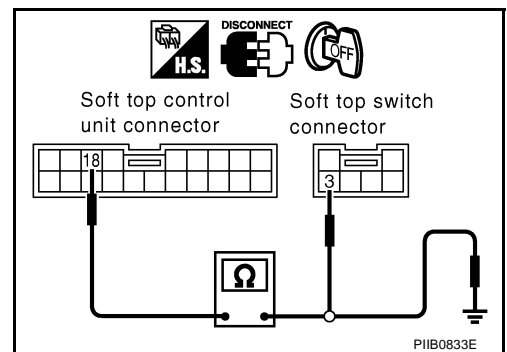
| Connector | Terminal (Wire color) | Connector | Terminal (Wire color) | Continuity |
|-----------|-----------------------|-----------|-----------------------|------------|
| | (+) | | (-) | |
| B67 | 18 (L/W) | M14 | 3 (L/B) | No |
| M14 | 3 (L/B) | B67 | 18 (L/W) | Yes |

2. 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.
 NG >> Repair or replace harness.



SOFT TOP

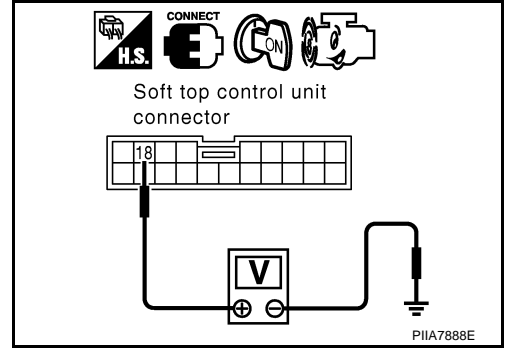
5. CHECK SOFT TOP CONTROL UNIT OUTPUT SIGNAL

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



AIS00644

Soft Top Switch (CLOSE) Check

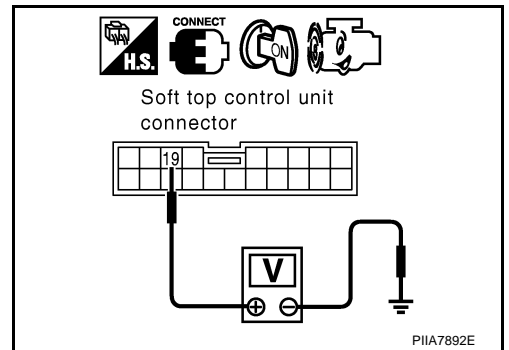
1. CHECK SOFT TOP CLOSE SWITCH SIGNAL

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

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

OK or NG

- OK >> Soft top switch (CLOSE) is OK.
 NG >> GO TO 2.



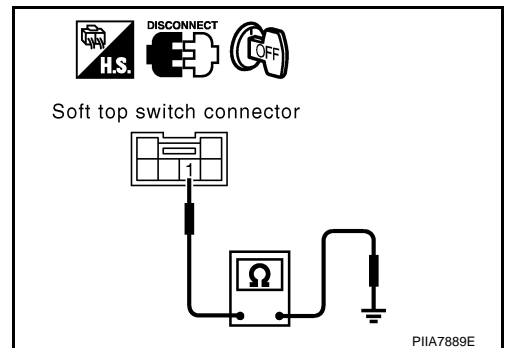
2. CHECK SOFT TOP SWITCH GROUND CIRCUIT

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.



SOFT TOP

3. CHECK SOFT TOP SWITCH

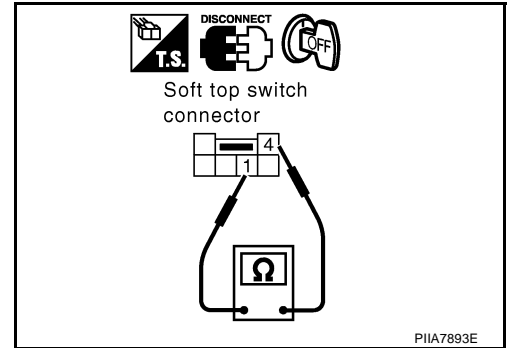
Soft top switch operate, check continuity between soft top switch connector M14 terminal 1 and 4.

| Connector | Terminal | | Soft top switch Condition | Continuity |
|-----------|----------|---|---------------------------|------------|
| | M14 | 1 | 4 | |
| | | | 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 |

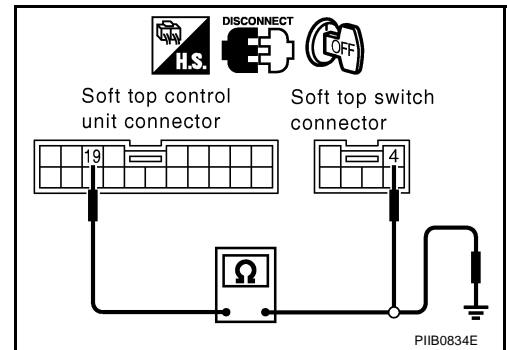
2. Check continuity between soft top control unit connector B67 terminal 19 and ground.

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

OK or NG

OK >> GO TO 5.

NG >> Repair or replace harness.



5. CHECK SOFT TOP CONTROL UNIT OUTPUT SIGNAL

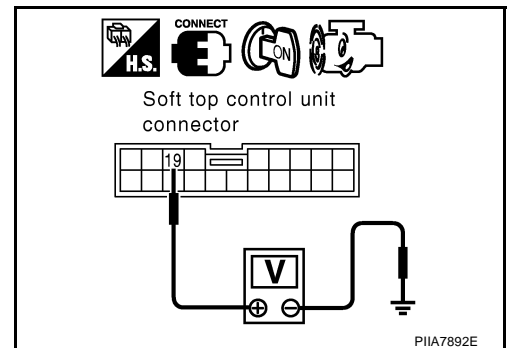
1. Connect soft top control unit connector.
2. Start engine.
3. Check voltage between soft top control unit connector B67 terminal 19 and ground.

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

OK or NG

OK >> Check condition of harness and connector.

NG >> Replace soft top control unit.



SOFT TOP

5th Bow Unlock Actuator Check (Open Operate)

AIIS00645

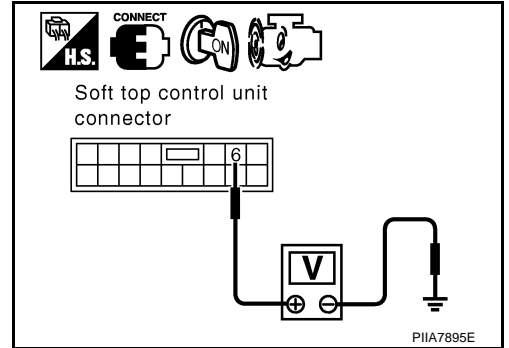
1. CHECK 5TH BOW UNLOCK ACTUATOR SIGNAL

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

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

OK or NG

- OK >> GO TO 2.
 NG >> Replace soft top control unit.



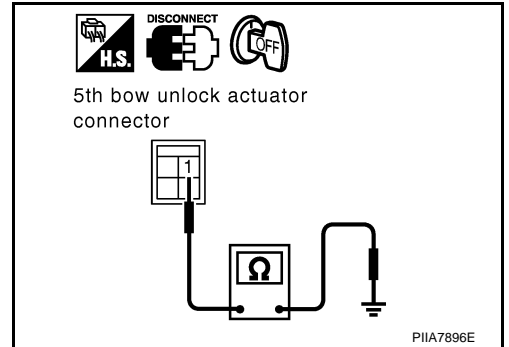
2. CHECK 5TH BOW UNLOCK ACTUATOR GROUND CIRCUIT

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.



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

AIIS00646

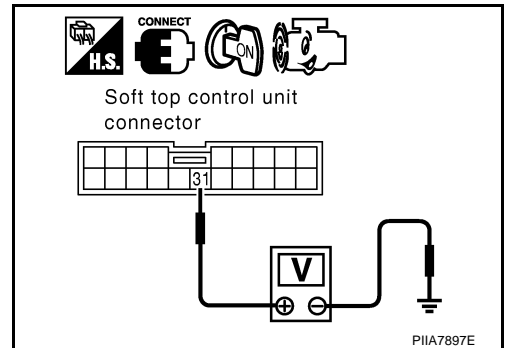
1. CHECK 5TH BOW HALF-LATCH SWITCH SIGNAL CHECK

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) (Approx.) |
|-----------|-----------------------|--------|----------------|--------------------------|
| | (+) | (-) | | |
| B67 | 31 (L) | Ground | OP2 → OP3 | 5 → 0 |

OK or NG

- OK >> 5th bow half-latch switch is OK.
 NG >> GO TO 2.



SOFT TOP

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.

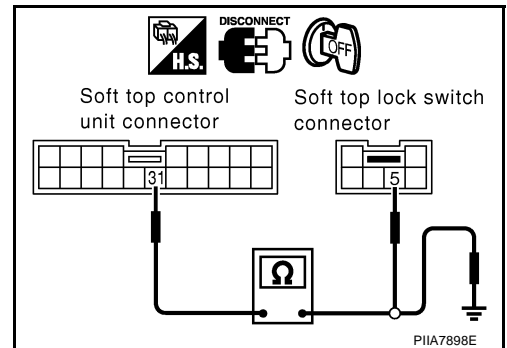
4. Check continuity between soft top control unit connector B67 terminal 31 and ground.

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

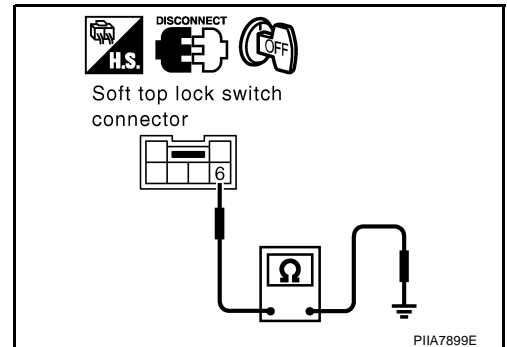
Check continuity between soft top lock switch connector T205 terminal 6 and ground.

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

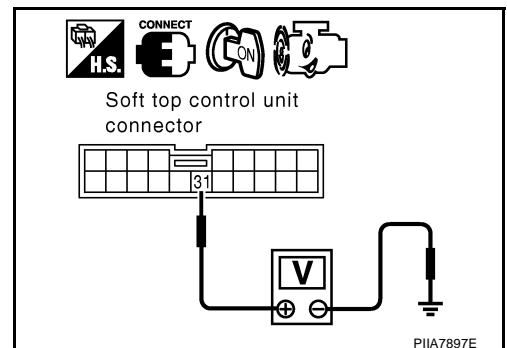
1. Connect soft top control unit connector.
2. Start engine.
3. Check voltage between soft top control unit connector B67 terminal 31 and ground.

31 (L) - Ground : Approx. 5V

OK or NG

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

NG >> Replace soft top control unit.



SOFT TOP

5th Bow Actuator Check (Open Operate)

AIS00647

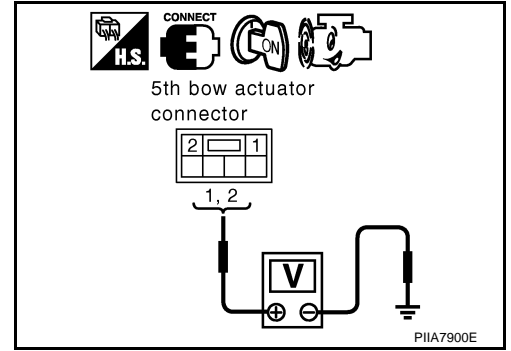
1. CHECK 5TH BOW ACTUATOR INPUT SIGNAL

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

| Con- nector | Terminal (Wire color) | | Roof condition | Voltage (V) (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.
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 5th 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.

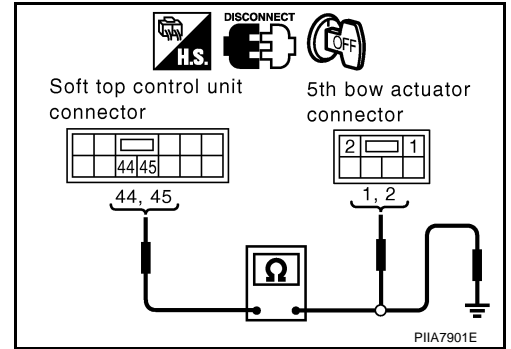
4. Check continuity between soft top control unit connector B68 terminal 44, 45 and ground.

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 (Open Operate)

AIS00648

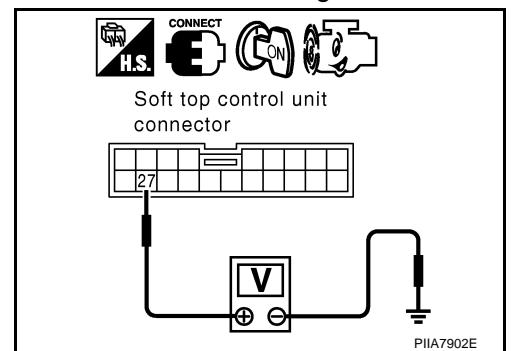
1. CHECK 5TH BOW FULL CLOSE DETECTION SWITCH SIGNAL

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) (Approx.) |
|-----------|-----------------------|--------|----------------|--------------------------|
| | (+) | (-) | | |
| B67 | 27 (W/G) | Ground | OP3 → OP4 | 5 → 0 |

OK or NG

- OK >> 5th bow full close switch is OK.
 NG >> GO TO 2.



SOFT TOP

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.
3. 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.

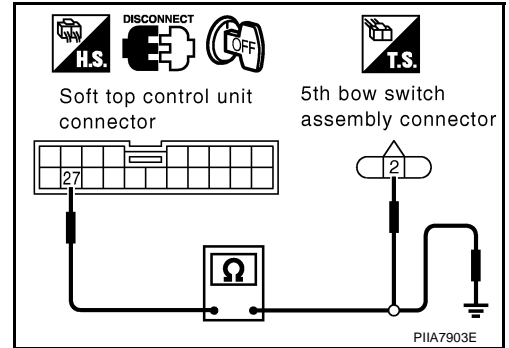
4. Check continuity between soft top control unit connector B67 terminal 27 and ground.

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

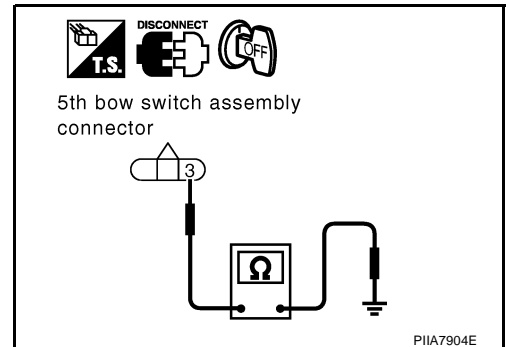
Check continuity between 5th bow switch assembly connector B214 terminal 3 and ground.

3 (B) - Ground : Continuity should exist.

OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness.



4. CHECK SOFT TOP CONTROL UNIT OUTPUT SIGNAL

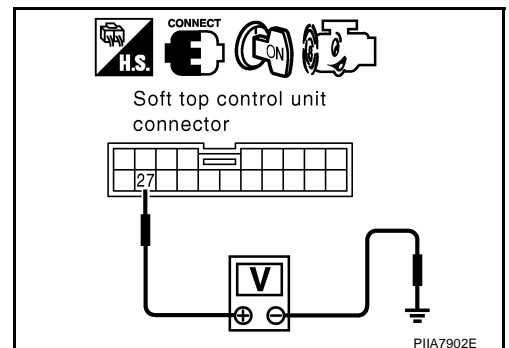
1. Connect soft top control unit connector.
2. Start engine.
3. Check voltage between soft top control unit connector B67 terminal 27 and ground.

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

OK or NG

OK >> Replace plate rail RR.

NG >> Replace soft top control unit.



SOFT TOP

AIS00649

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

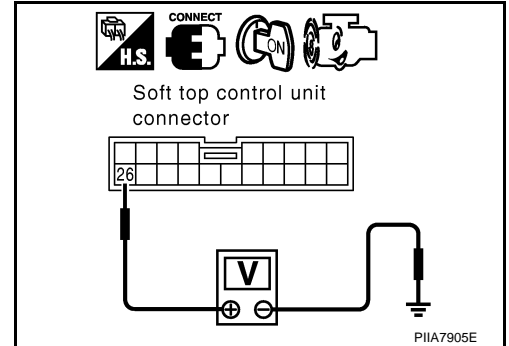
1. CHECK 5TH BOW FULL OPEN DETECTION SWITCH SIGNAL

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) (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.
3. Check continuity between soft top control unit connector B67 terminal 26 and 5th bow switch assembly connector B214 terminal 1.

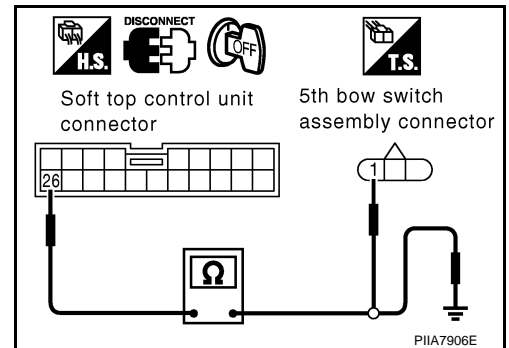
26 (LG) - 1 (LG) : Continuity should exist.

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

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

OK or NG

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



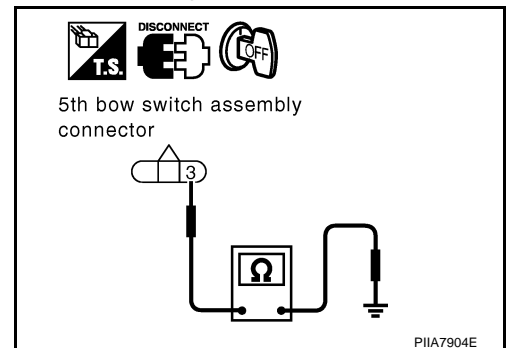
3. CHECK 5TH BOW FULL OPEN DETECTION SWITCH GROUND CIRCUIT

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.



SOFT TOP

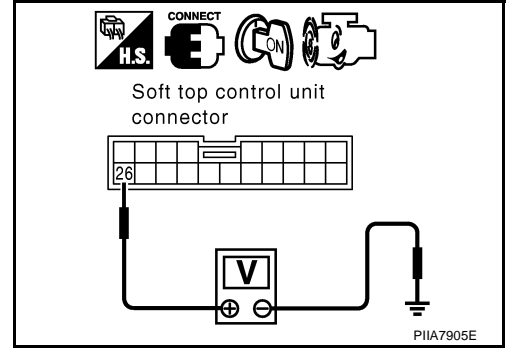
4. CHECK SOFT TOP CONTROL UNIT OUTPUT SIGNAL

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

26 (LG) - Ground : Approx. 5V

OK or NG

- OK >> Replace plate rail RR.
 NG >> Replace soft top control unit.



Storage Lid Unlock Actuator Check (Open Operate)

AI/S0064A

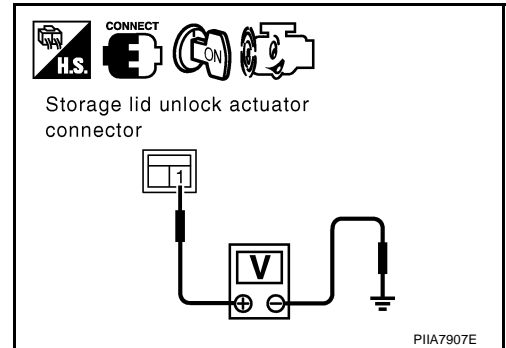
1. CHECK STORAGE LID UNLOCK ACTUATOR SIGNAL

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) (Approx.) |
|----------------------|-----------------------|--------|----------------|--------------------------|
| | (+) | (-) | | |
| B65 (LH) B70 (RH) | 1 (R) | Ground | OP5 → OP6 | 0 → Battery voltage → 0 |

OK or NG

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



2. CHECK STORAGE LID UNLOCK ACTUATOR CIRCUIT

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

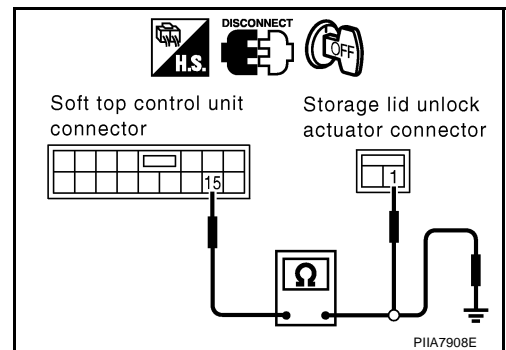
15 (OR) - 1 (R) : Continuity should exist.

4. 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.



SOFT TOP

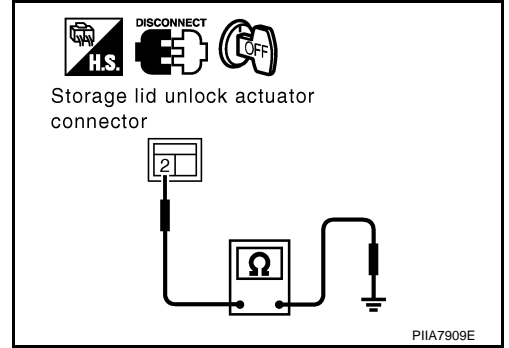
3. CHECK STORAGE LID UNLOCK ACTUATOR GROUND CIRCUIT

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)

AIS0064B

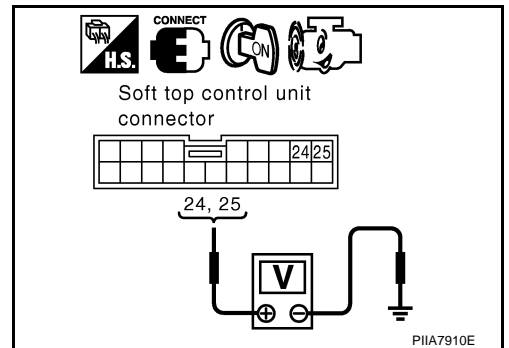
1. CHECK STORAGE LID FULL CLOSE DETECTION SWITCH SIGNAL

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) (Approx.) |
|-----------|-----------------------|--------|----------------|--------------------------|
| | (+) | (-) | | |
| B67 | 24 (G) | Ground | OP5 | 5 → 0 |
| | 25 (L/Y) | | OP6 | |

OK or NG

- OK >> Storage lid full close detection switch is OK.
 NG >> GO TO 2.



SOFT TOP

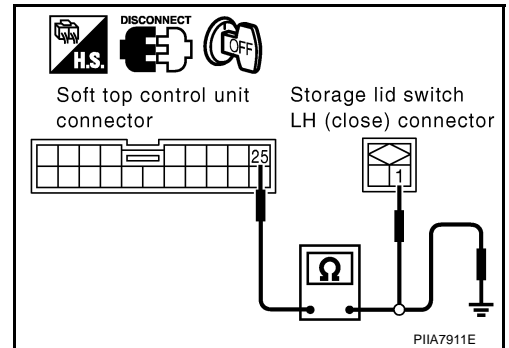
2. CHECK STORAGE LID FULL CLOSE DETECTION SWITCH CIRCUIT

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 1.

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.

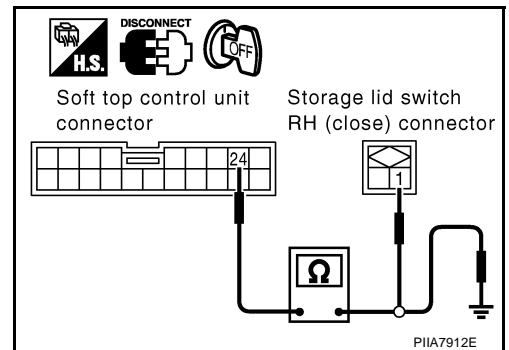


4. Check the following.
 - Continuity between soft top control unit connector B67 terminal 24 and storage lid switch RH (close) connector B69 terminal 1.

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.

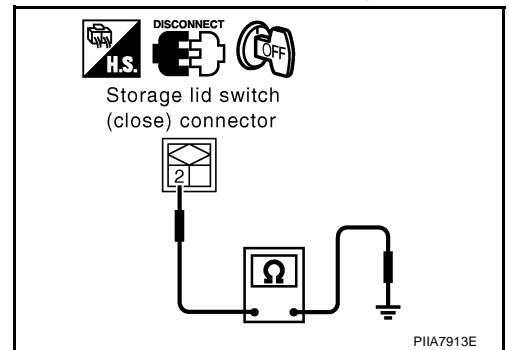
3. CHECK STORAGE LID FULL CLOSE DETECTION SWITCH GROUND CIRCUIT

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.
- NG >> Repair or replace harness.



SOFT TOP

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.

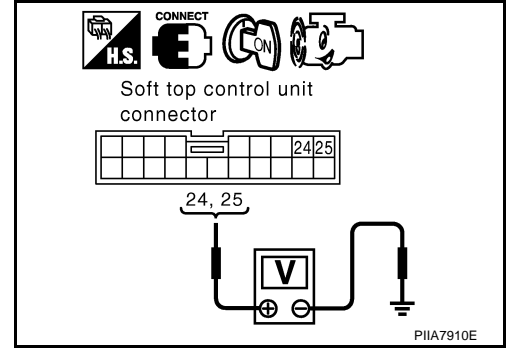
24 (G) - Ground : Approx. 5V

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.



Storage Lid Actuator Check (Open Operate)

1. CHECK STORAGE LID ACTUATOR (OPEN) SIGNAL

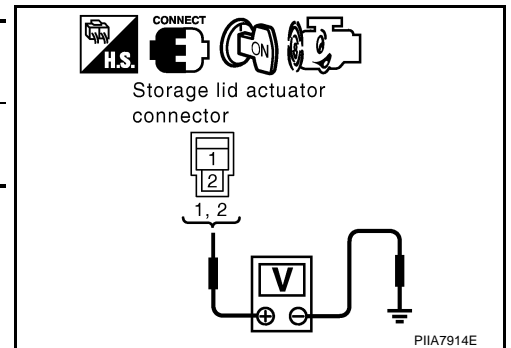
1. Start engine.
2. Operate soft top switch OPEN, check voltage between storage lid actuator connector and ground.

| Connector | Terminal (Wire color) | | Roof condition | Voltage (V) (Approx.) |
|-----------|-----------------------|--------|----------------|--------------------------|
| | (+) | (-) | | |
| T28 (LH) | 2 (R/B) | Ground | OP6 → OP7 | 0 → Battery voltage → 0 |
| T30 (RH) | 1 (R/B) | | | |

OK or NG

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

NG >> GO TO 2.



SOFT TOP

2. CHECK STORAGE LID ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect soft top control unit and storage lid actuator connector.
3. 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.

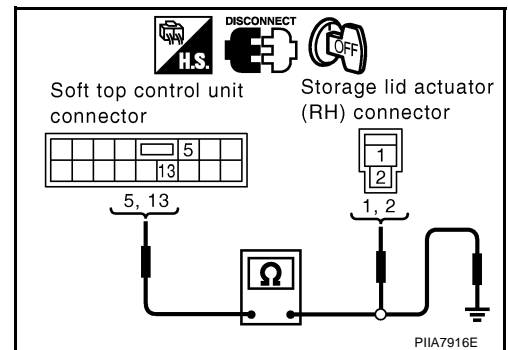
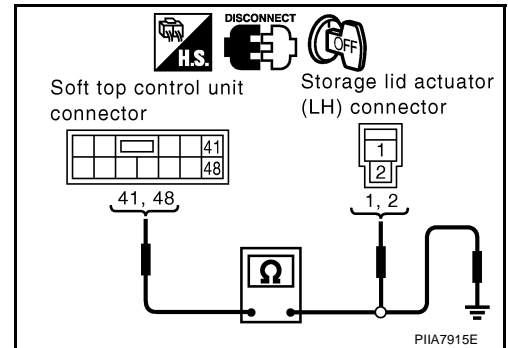
5 (R/B) - 1 (R/B) : Continuity should exist.

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)

AIS0064D

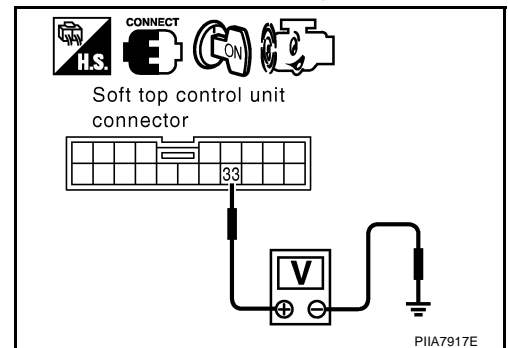
1. CHECK STORAGE LID FULL OPEN DETECTION SWITCH SIGNAL

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) (Approx.) |
|-----------|-----------------------|--------|----------------|--------------------------|
| | (+) | (-) | | |
| B67 | 33 (P) | Ground | OP6 → OP7 | 5 → 0 |

OK or NG

- OK >> Storage lid full open detection switch is OK.
- NG >> GO TO 2.



SOFT TOP

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.
3. 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.

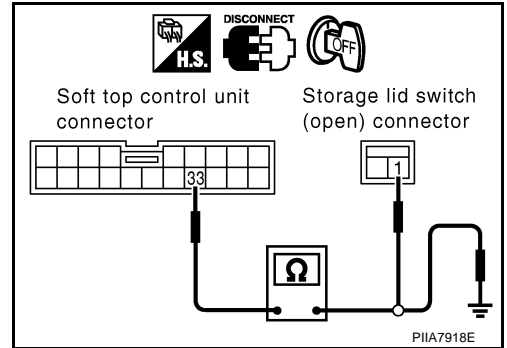
4. Check continuity between soft top control unit connector B67 terminal 33 and ground.

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

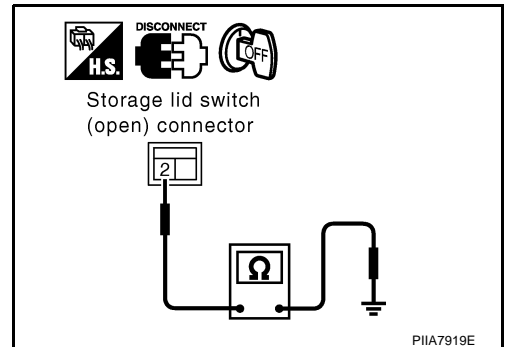
Check continuity between storage lid switch (open) connector T27 terminal 2 and ground.

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

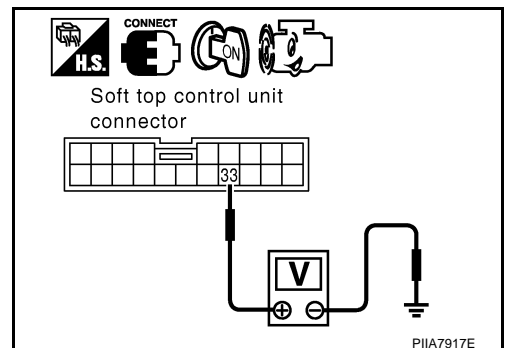
1. Connect soft top control unit connector.
2. Start engine.
3. Check voltage between soft top control unit connector B67 terminal 33 and ground.

33 (P) - Ground : Approx. 5V

OK or NG

OK >> Replace storage lid switch (open).

NG >> Replace soft top control unit.



Roof Actuator Check (Open Operate)

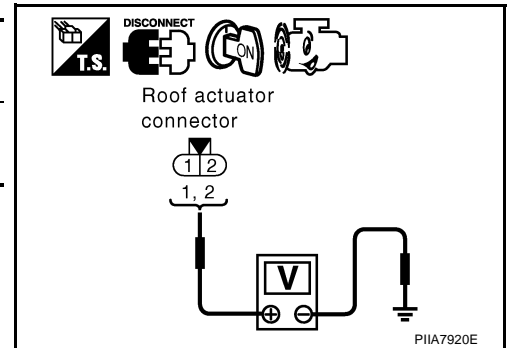
1. CHECK ROOF ACTUATOR (OPEN) SIGNAL

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) (Approx.) |
|-----------|-----------------------|--------|----------------|--------------------------|
| | (+) | (-) | | |
| B59 (LH) | 2 (R) | Ground | OP8 → OP11 | 0 → Battery voltage → 0 |
| B72 (RH) | 1 (R) | | | |

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.

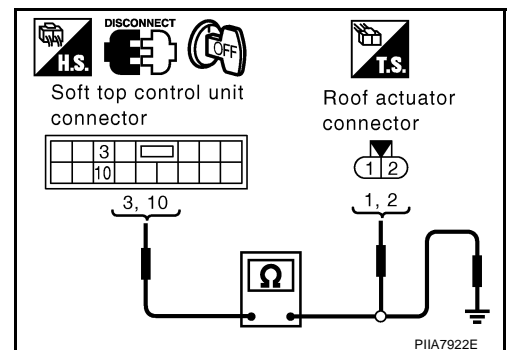
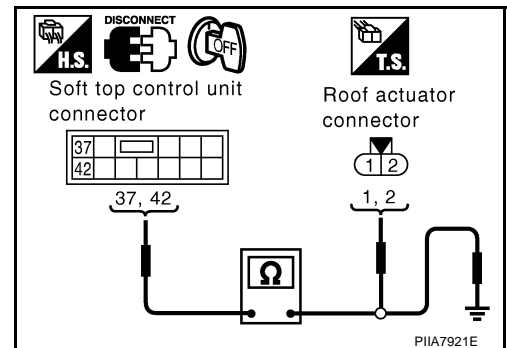
- Continuity between soft top control unit connector B66 terminal 3, 10 and ground.

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

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

OK or NG

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



SOFT TOP

Roll Bar Interference Prevention Switch Check (Open Operate)

AI50064F

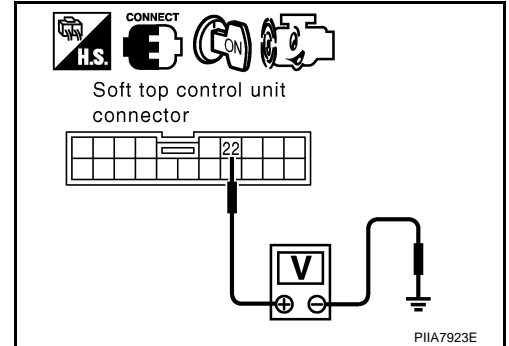
1. CHECK ROLL BAR INTERFERENCE PREVENTION SWITCH SIGNAL

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) (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 SWITCH CIRCUIT

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

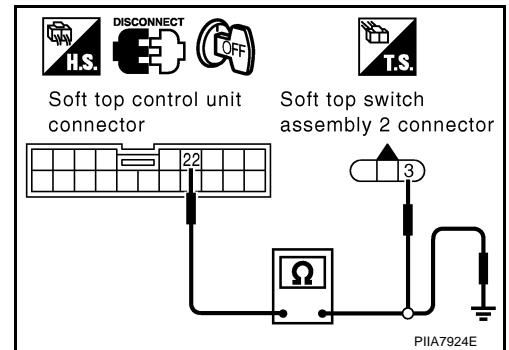
22 (W/R) - 3 (W/R) : Continuity should exist.

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.



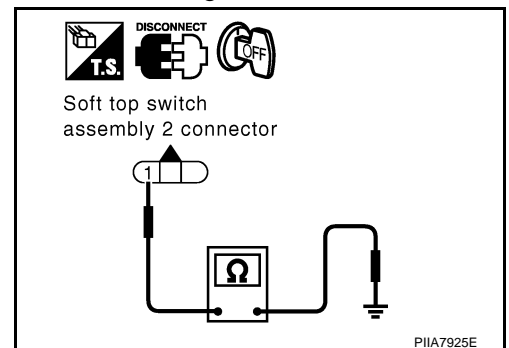
3. CHECK ROLL BAR INTERFERENCE PREVENTION SWITCH GROUND CIRCUIT

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.



SOFT TOP

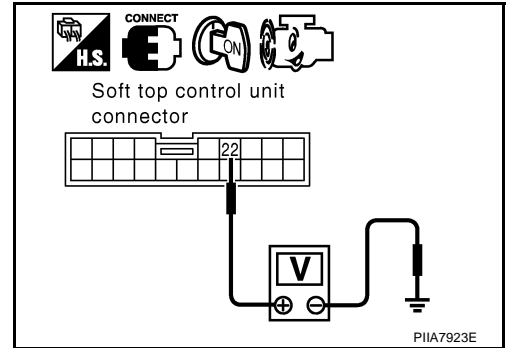
4. CHECK SOFT TOP CONTROL UNIT OUTPUT SIGNAL

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



Body Interference Prevention Switch Check (Open Operate)

AIS0064G

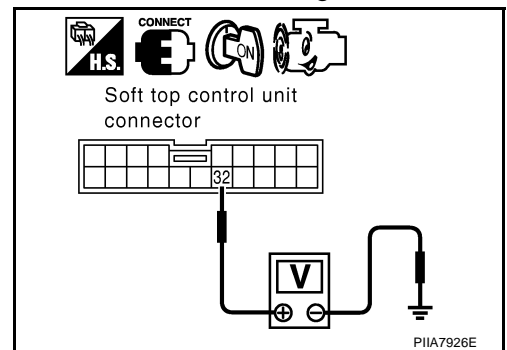
1. CHECK BODY INTERFERENCE PREVENTION SWITCH

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) (Approx.) |
|-----------|-----------------------|--------|----------------|--------------------------|
| | (+) | (-) | | |
| B67 | 32 (W) | Ground | OP10 | 5 → 0 |

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 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.

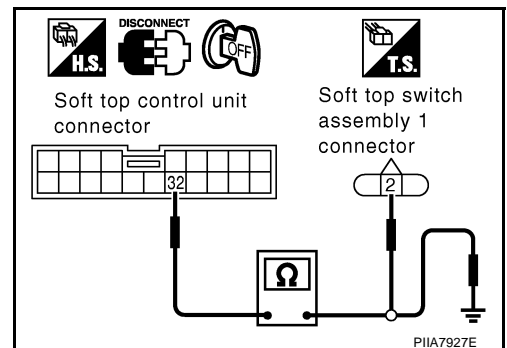
32 (W) - 2 (W) : Continuity should exist.

4. 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.



SOFT TOP

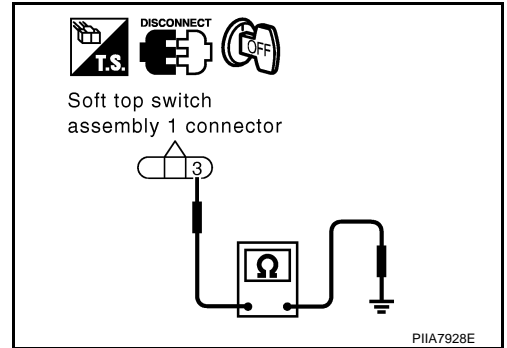
3. CHECK BODY INTERFERENCE PREVENTION SWITCH GROUND CIRCUIT

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.



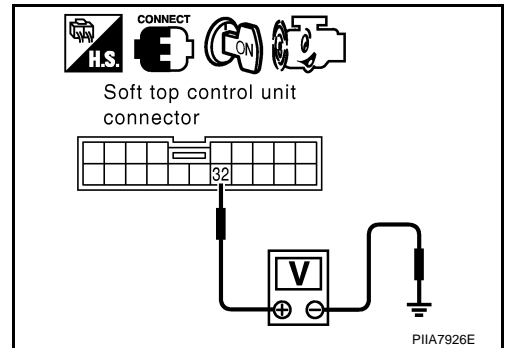
4. CHECK SOFT TOP CONTROL UNIT OUTPUT SIGNAL

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)

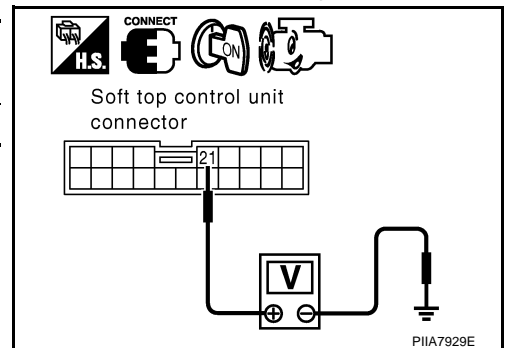
1. CHECK ROOF FULL OPEN DETECTION SWITCH SIGNAL

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) (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.



SOFT TOP

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.
3. 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.

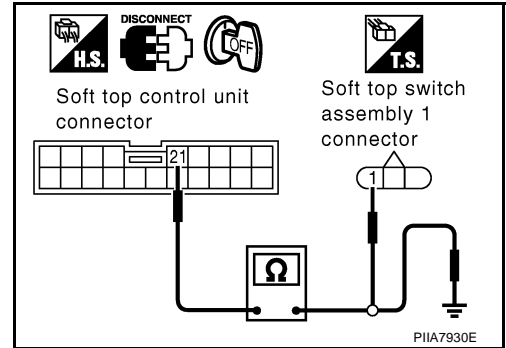
4. Check continuity between soft top control unit connector B67 terminal 21 and ground.

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

OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.



3. CHECK SOFT TOP CONTROL UNIT OUTPUT SIGNAL

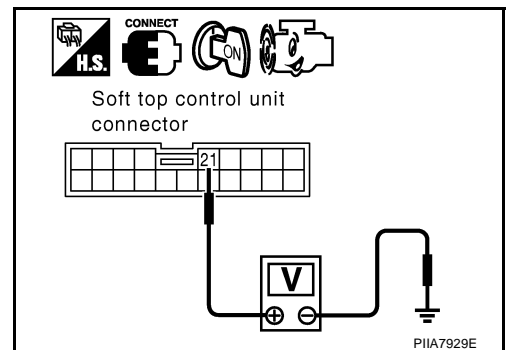
1. Connect soft top control unit connector.
2. Start engine.
3. Check voltage between soft top control unit connector B67 terminal 21 and ground.

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

OK or NG

OK >> Replace soft top switch assembly 1.

>> Replace soft top control unit.



Storage Lid Unlock Actuator Check (Close Operate)

AI/S0064I

1. CHECK STORAGE LID UNLOCK ACTUATOR SIGNAL

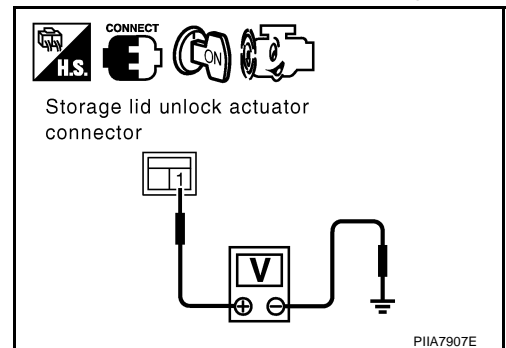
1. Start engine.
2. Operate soft top switch CLOSE, check voltage between storage lid unlock actuator connector and ground.

| Connector | Terminal (Wire color) | | Roof condition | Voltage (V) (Approx.) |
|----------------------|-----------------------|--------|----------------|--------------------------|
| | (+) | (-) | | |
| B65 (LH) B70 (RH) | 1 (R) | Ground | CL1 → CL2 | 0 → Battery voltage → 0 |

OK or NG

OK >> GO TO 3.

NG >> GO TO 2.



SOFT TOP

2. CHECK STORAGE LID UNLOCK ACTUATOR CIRCUIT

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

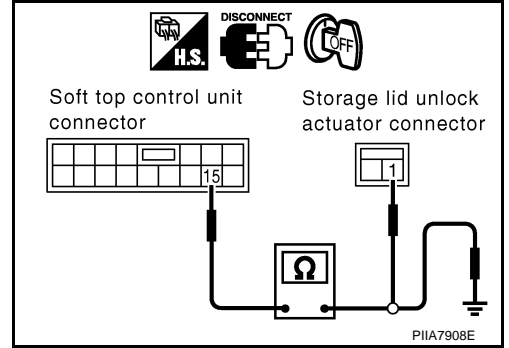
15 (OR) - 1 (R) : Continuity should exist.

4. 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.



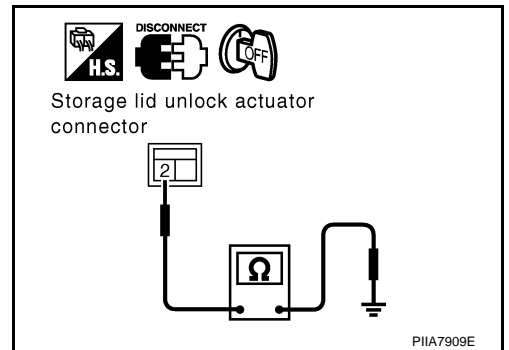
3. CHECK STORAGE LID UNLOCK ACTUATOR GROUND CIRCUIT

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 (Close Operate)

AIS0064J

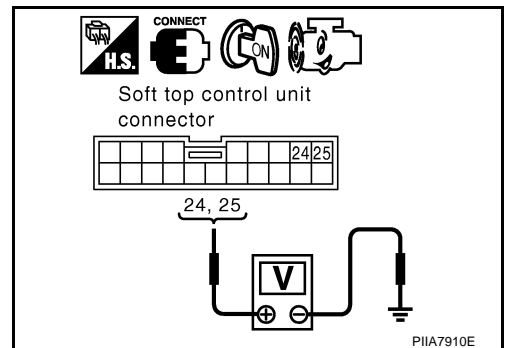
1. CHECK STORAGE LID FULL CLOSE DETECTION SWITCH SIGNAL

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) (Approx.) |
|-----------|------------------------|--------|----------------|--------------------------|
| | (+) | (-) | | |
| B67 | 24 (G) for switch RH | Ground | CL1 | 5 → 0 |
| | 25 (L/Y) for switch LH | | CL1 → CL2 | |

OK or NG

- OK >> Storage lid full close detection switch is OK.
 NG >> GO TO 2.



SOFT TOP

2. CHECK STORAGE LID FULL CLOSE DETECTION SWITCH CIRCUIT

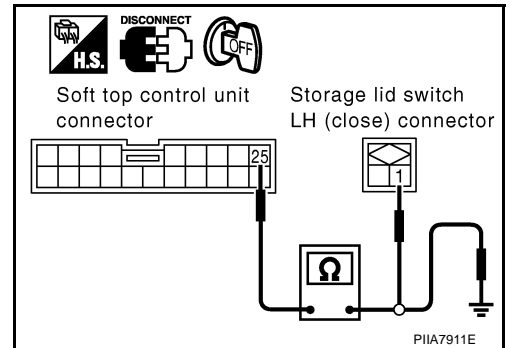
1. Turn ignition switch OFF.
2. Disconnect soft top control unit and storage lid switch (close) connector.
3. Check the following.

- Continuity between soft top control unit connector B67 terminal 25 and storage lid switch LH (close) connector B64 terminal 1.

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.



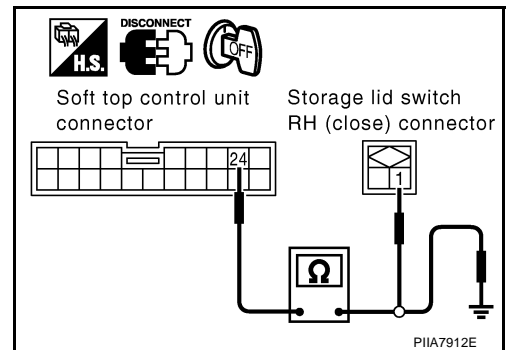
4. Check the following.

- Continuity between soft top control unit connector B67 terminal 24 and storage lid switch RH (close) connector B69 terminal 1.

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

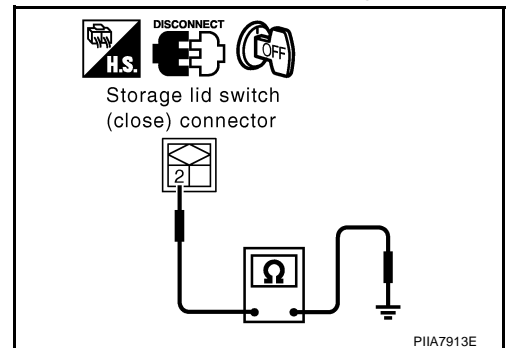
Check continuity between storage lid switch (close) connector B64 (LH), B69 (RH) terminal 2 and ground.

2 (B) - Ground : Continuity should exist.

OK or NG

OK >> GO TO 4.

NG >> Repair or replace harness.



SOFT TOP

4. CHECK SOFT TOP ROOF CONTROL UNIT OUTPUT SIGNAL

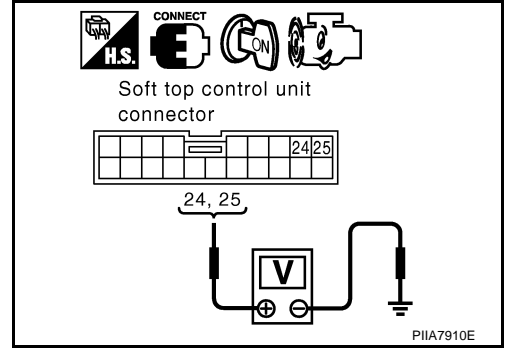
1. Connect soft top control unit connector.
2. Start engine.
3. Check voltage between soft top control unit connector B67 terminal 24, 25 and ground.

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.



Storage Lid Actuator Check (Close Operate)

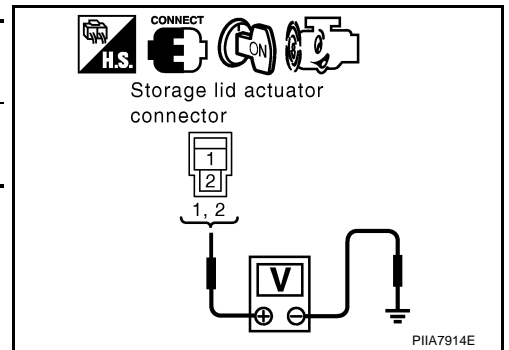
1. CHECK STORAGE LID ACTUATOR (CLOSE) SIGNAL

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) (Approx.) |
|-----------|-----------------------|--------|----------------|--------------------------|
| | (+) | (-) | | |
| T28 (LH) | 1 (Y/B) | Ground | CL2 → CL3 | 0 → Battery voltage → 0 |
| T30 (RH) | 2 (L/R) | | | |

OK or NG

- OK >> Replace storage lid actuator (LH or RH).
 NG >> GO TO 2.



SOFT TOP

2. CHECK STORAGE LID ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect soft top control unit and storage lid actuator connector.
3. 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.

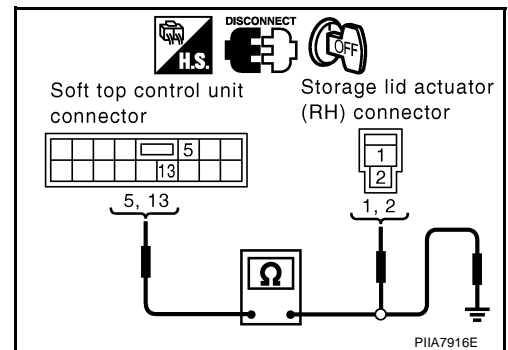
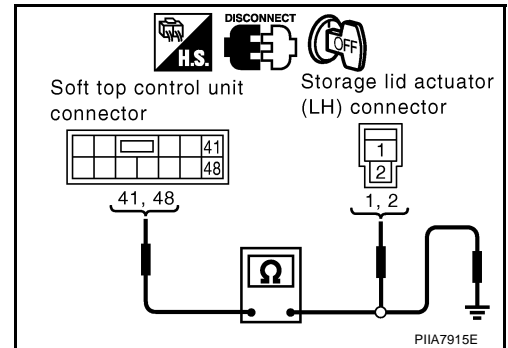
4. Check the following.

- 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/B) : 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)

AIS0064L

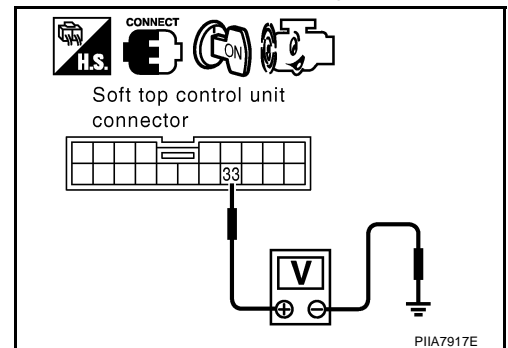
1. CHECK STORAGE LID FULL OPEN DETECTION SWITCH SIGNAL

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) (Approx.) |
|-----------|-----------------------|--------|----------------|--------------------------|
| | (+) | (-) | | |
| B67 | 33 (P) | Ground | CL2 → CL3 | 5 → 0 |

OK or NG

- OK >> Storage lid full open detection switch is OK.
- NG >> GO TO 2.



SOFT TOP

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.
3. 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.

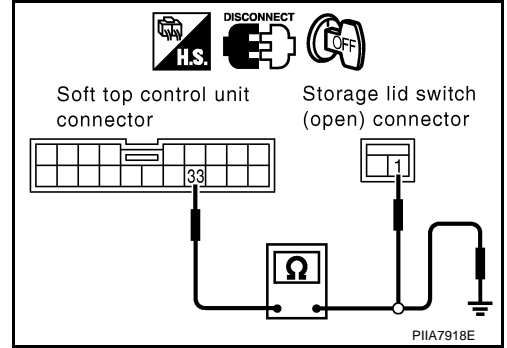
4. Check continuity between soft top control unit connector B67 terminal 33 and ground.

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

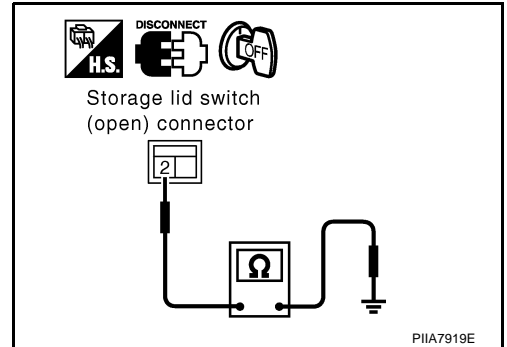
Check continuity between storage lid switch (open) connector T27 terminal 2 and ground.

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

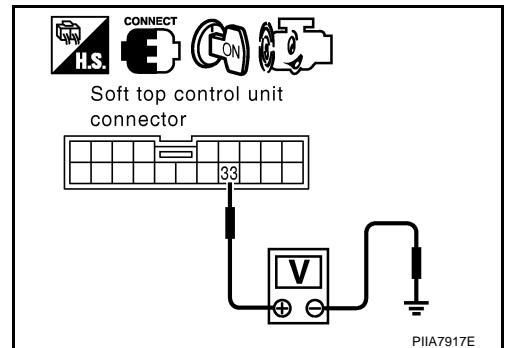
1. Connect soft top control unit connector.
2. Start engine.
3. Check voltage between soft top control unit connector B67 terminal 33 and ground.

33 (P) - Ground : Approx. 5V

OK or NG

OK >> Replace storage lid switch (open).

NG >> Replace soft top control unit.



SOFT TOP

AIS0064M

Body Interference Prevention Switch Check (Close Operate)

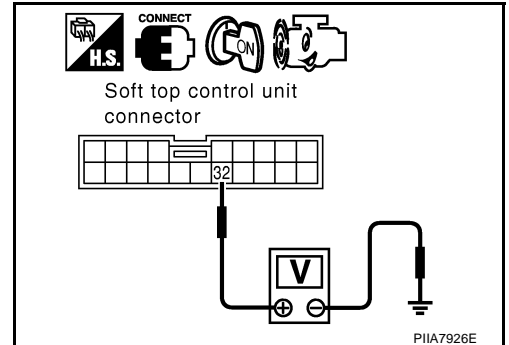
1. CHECK BODY INTERFERENCE PREVENTION SWITCH

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) (Approx.) |
|-----------|-----------------------|--------|----------------|--------------------------|
| | (+) | (-) | | |
| B67 | 32 (W) | Ground | CL3 | 0 → 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.
3. Check continuity between soft top control unit connector B67 terminal 32 and soft top switch assembly 1 connector B212 terminal 2.

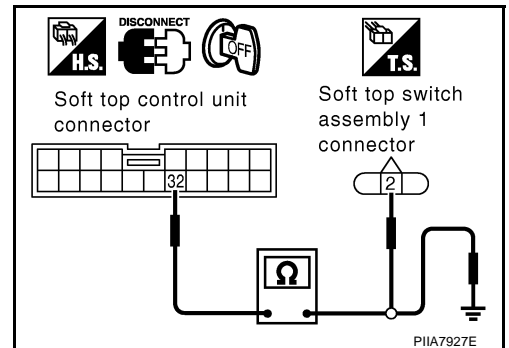
32 (W) - 2 (W) : Continuity should exist.

4. 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.



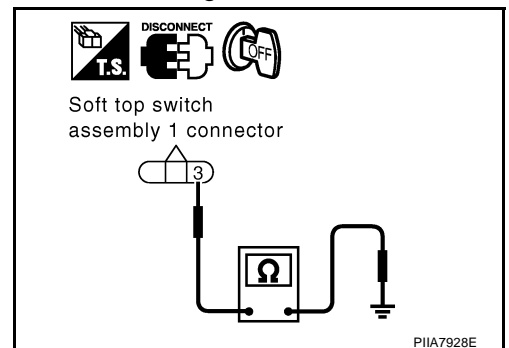
3. CHECK BODY INTERFERENCE PREVENTION SWITCH GROUND CIRCUIT

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.
 NG >> Repair or replace harness.



SOFT TOP

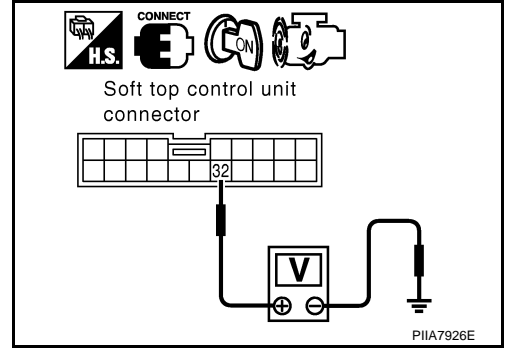
4. CHECK SOFT TOP CONTROL UNIT OUTPUT SIGNAL

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.



AI/S0064N

Roof Actuator Check (Close Operate)

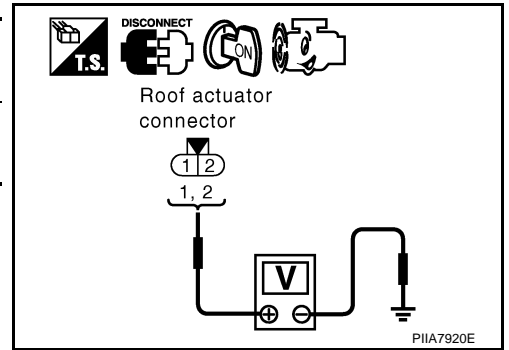
1. CHECK ROOF ACTUATOR (CLOSE) SIGNAL

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) (Approx.) |
|-----------|-----------------------|--------|----------------|--------------------------|
| | (+) | (-) | | |
| B59 (LH) | 1 (Y) | Ground | CL3 → CL6 | 0 → Battery voltage → 0 |
| B72 (RH) | 2 (Y) | | | |

OK or NG

- OK >> Replace roof actuator (LH or RH).
 NG >> GO TO 2.



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