

**SECTION BT**

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# PRECAUTIONS

Service Notice

## Service Notice

- When removing or installing various parts, place a cloth or padding onto the vehicle body to prevent scratches. NABT0001
- Handle trim, molding, instruments, grille, etc. carefully during removing or installing. Be careful not to soil or damage them.
- Apply sealing compound where necessary when installing parts.
- When applying sealing compound, be careful that the sealing compound does not protrude from parts.
- When replacing any metal parts (for example body outer panel, members, etc.), be sure to take rust prevention measures.

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

The supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER” used along with a seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. The SRS system composition which is available to NISSAN MODEL PATHFINDER is as follows: NABT0002

- For a frontal collision  
The Supplemental Restraint System consists of driver air bag module (located in the center of the steering wheel), front passenger air bag module (located on the instrument panel on passenger side), seat belt pre-tensioners, a diagnosis sensor unit, warning lamp, wiring harness and spiral cable.
- For a side collision  
The Supplemental Restraint System consists of side air bag module (located in the outer side of front seat), satellite sensor, diagnosis sensor unit (one of components of air bags for a frontal collision), wiring harness, warning lamp (one of components of air bags for a frontal collision).

Information necessary to service the system safely is included in the **RS section** of this Service Manual.

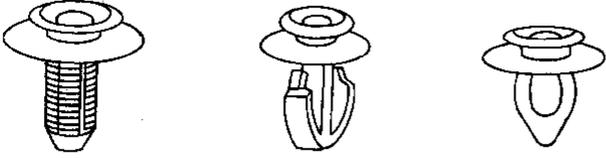
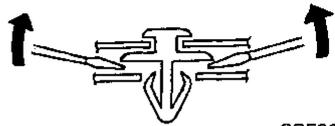
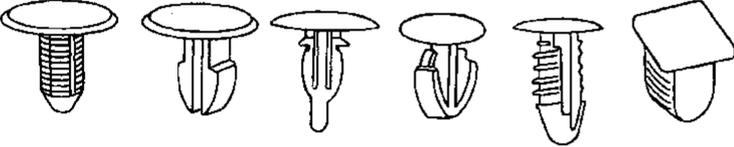
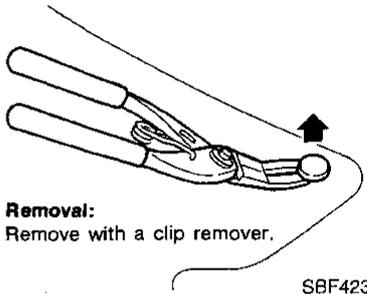
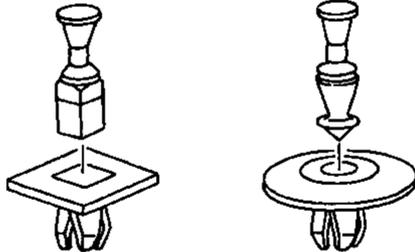
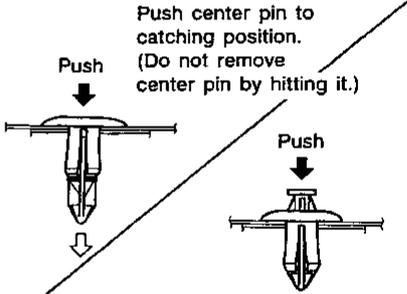
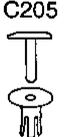
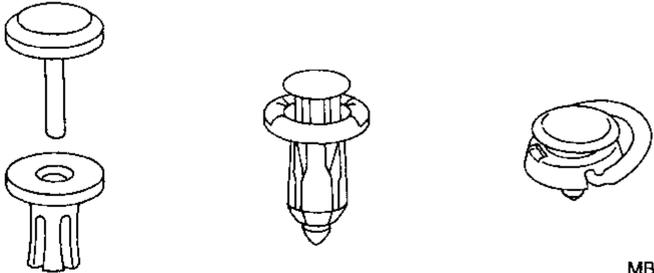
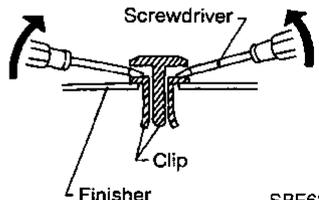
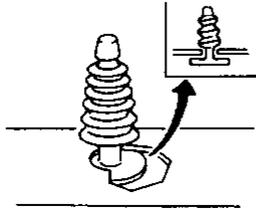
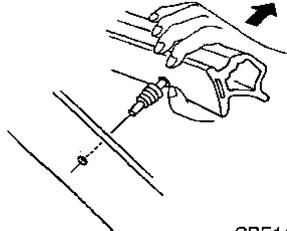
### WARNING:

- 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 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 RS section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. Spiral cable and wiring harnesses (except “SEAT BELT PRE-TENSIONER”) covered with yellow insulation either just before the harness connectors or for the complete harness are related to the SRS.

# CLIP AND FASTENER

Description

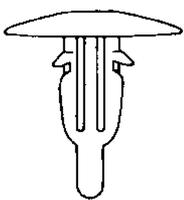
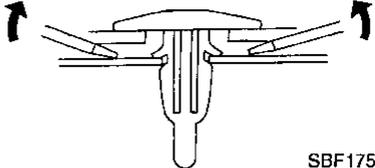
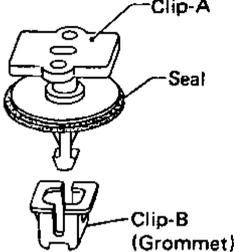
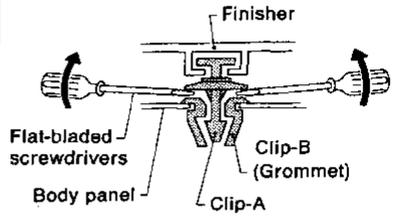
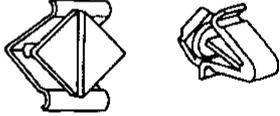
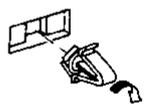
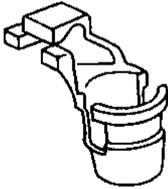
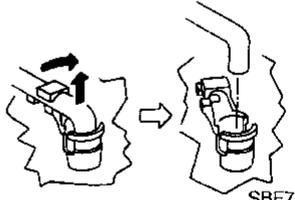
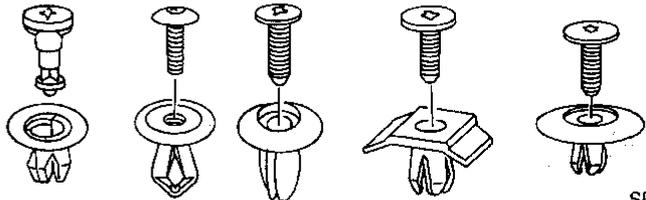
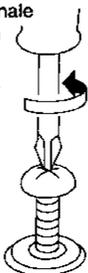
- Clips and fasteners in BT section correspond to the following numbers and symbols.
- Replace any clips and/or fasteners which are damaged during removal or installation.

Symbol No.	Shapes	Removal & Installation
<p>C101</p> 	 <p>SBF302H</p>	<p><b>Removal:</b> Remove by bending up with flat-bladed screwdrivers or clip remover.</p>  <p>SBF367BA</p>
<p>C103</p> 	 <p>SBT095</p>	 <p><b>Removal:</b> Remove with a clip remover.</p> <p>SBF423H</p>
<p>C203</p> 	 <p>SBF258G</p>	<p>Push center pin to catching position. (Do not remove center pin by hitting it.)</p>  <p><b>Installation:</b></p> <p>SBF708E</p>
<p>C205</p> 	 <p>MBT080A</p>	<p><b>Removal:</b></p>  <p>Screwdriver Clip Finisher</p> <p>SBF638C</p>
<p>CE103</p> 	 <p>SBF104B</p>	<p><b>Removal:</b></p>  <p>SBF147B</p>

GI  
MA  
EM  
LC  
EC  
FE  
CL  
MT  
AT  
TF  
PD  
AX  
SU  
BR  
ST  
RS  
BT  
HA  
SC  
EL  
IDX

# CLIP AND FASTENER

Description (Cont'd)

Symbol No.	Shapes	Removal & Installation
<p>CE117</p> 	 <p style="text-align: right;">SBF174D</p>	<p><b>Removal:</b> Remove with a flat-bladed screwdriver or pliers.</p>  <p style="text-align: right;">SBF175D</p>
<p>CF109</p> 	 <p style="text-align: right;">SBF651B</p>	<p><b>Removal:</b></p>  <p style="text-align: right;">SBF652B</p>
<p>CG101</p> 	 <p style="text-align: right;">SBF145B</p>	<p><b>Removal:</b> Rotate 45° to remove.</p>  <p><b>Installation:</b></p>  <p style="text-align: right;">SBF085B</p>
<p>CR103</p> 	 <p style="text-align: right;">SBF768B</p>	<p><b>Removal:</b> Holder portion of clip must be spread out to remove rod.</p>  <p style="text-align: right;">SBF770B</p>
<p>CS101</p> 	 <p style="text-align: right;">SBF078B</p>	<p><b>Removal:</b></p> <ol style="list-style-type: none"> <li>1. Screw out with a Phillips screwdriver.</li> <li>2. Remove female portion with flat-bladed screwdriver.</li> </ol>  <p style="text-align: right;">SBF992G</p>

## Removal and Installation

NABT0004

- When removing or installing hood, place a cloth or other padding on front fender panel and cowl top. This prevents vehicle body from being scratched. **GI**
- Bumper fascia is made of plastic. Do not use excessive force and be sure to keep oil away from it. **MA**
- Hood adjustment: Adjust at hinge portion. **EM**
- Hood lock adjustment: After adjusting, check hood lock control operation. Apply a coat of grease to hood locks engaging mechanism. **LC**
- Hood opener: Do not attempt to bend cable forcibly. Doing so increases effort required to unlock hood.

### FRONT BUMPER ASSEMBLY

NABT0004S01

1. Remove bolts securing left and right side combination lamps and remove the lamps. **B** **EC**
2. Remove clips securing center radiator grille and remove the center radiator grille. **FE**
3. Remove bolts securing left and right radiator grille and remove the grilles. **C** **CL**
4. Remove clips and screws securing left and right sides of fender protector. **MT**
5. Remove screws securing bumper fascia. **D** **AT**
6. Remove clips securing radiator core support lower. **E** **TF**
7. Remove clips securing bumper reinforcement. **PD**
8. Extract bumper fascia. **F** **AX**
9. Remove bolts and nuts securing bumper reinforcement. **G** **SU**
10. Extract bumper reinforcement. (When installing bumper reinforcement, remove washer tank.) **BR**

**BT**

HA

SC

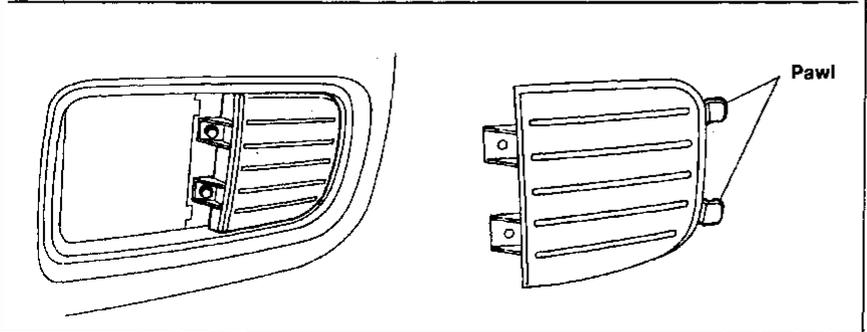
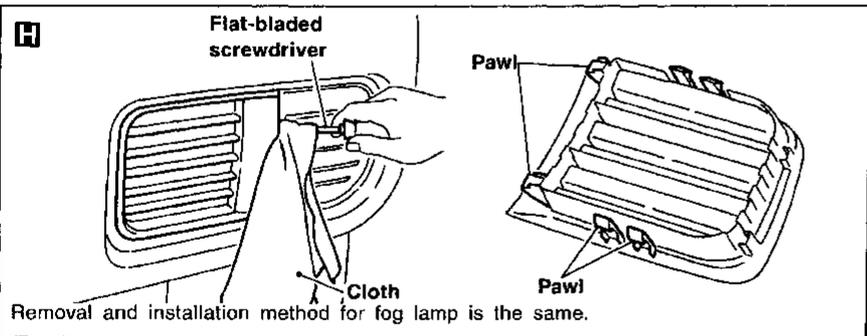
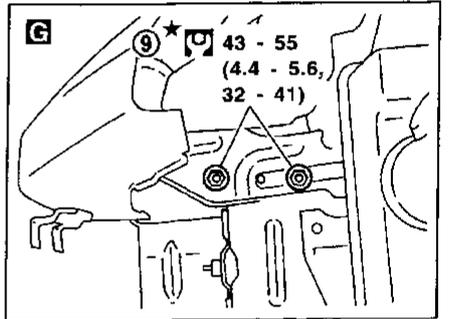
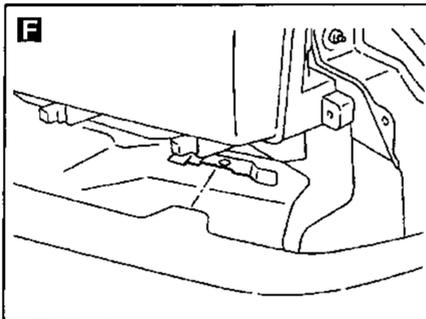
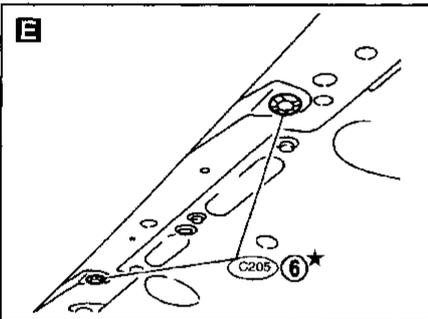
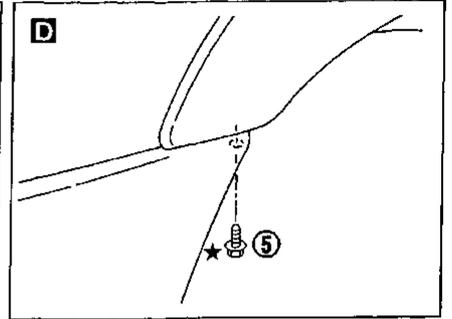
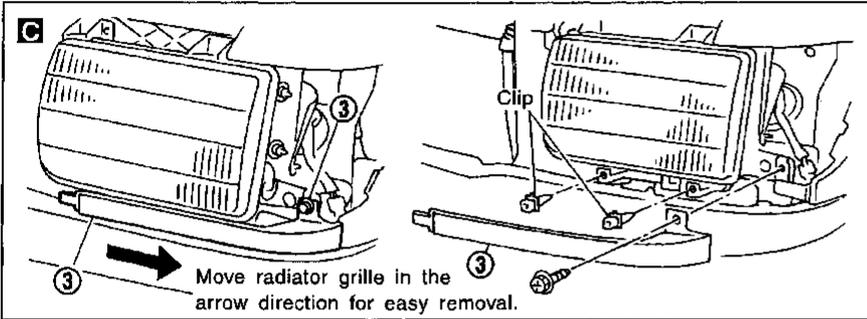
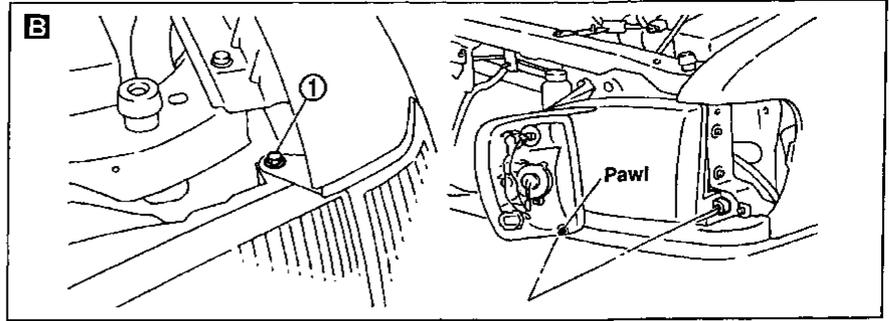
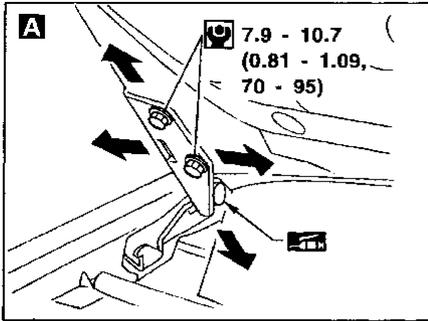
EL

IDX



# BODY FRONT END

Removal and Installation (Cont'd)



★ : Bumper assembly mounting bolts, nuts and clips

⊗ : N·m (kg-m, in-lb)

⊕ : N·m (kg-m, ft-lb)

GI  
MA  
EM  
LC  
EC  
FE  
CL  
MT  
AT  
TF  
PD  
AX  
SU  
BR  
ST  
RS  
BT  
HA  
SC  
EL  
IDX

SBT700

# BODY REAR END AND OPENER

Removal and Installation

## Removal and Installation

NAB70005

- Bumper fascia is made of plastic. Do not use excessive force and be sure to keep oil away from it.
- Back door lock system adjustment: Adjust lock & striker so that they are in the center. After adjustment, check back door lock operation.
- Back door hatch lock system adjustment: Adjust lock & striker so that they are in the center. After adjustment, check back door hatch lock operation.
- Opener cable: Do not attempt to bend cable using excessive force.
- After installation, make sure that back door and fuel filler lid open smoothly.

### WARNING:

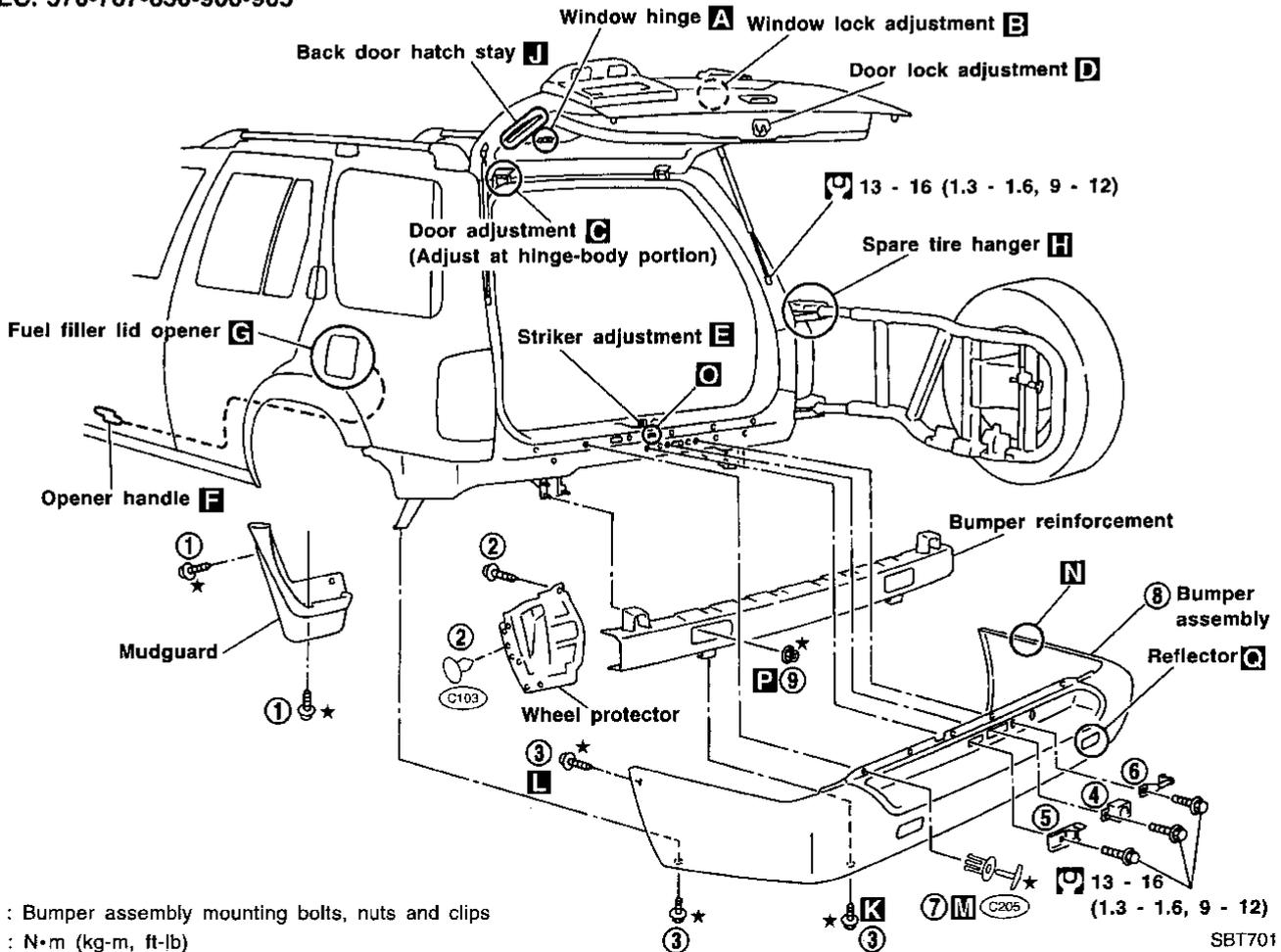
- Be careful not to scratch back door stay and/or back door hatch stay when installing back door and/or back door hatch. A scratched stay may cause gas leakage.
- The contents of the back door stay and back door hatch stay are under pressure. Do not take apart, puncture, apply heat or allow fire near them.

### REAR BUMPER ASSEMBLY

NAB70005S01

1. Remove screws securing left and right mudguards and remove the mudguards.
2. Remove clips and screws securing left and right sides of wheel protector.
3. Remove bolts and screws securing lower side and side of bumper assembly. **K L**
4. Remove bolts securing bumper rubber assembly.
5. Remove bolts securing spare tire hanger striker assembly.
6. Remove bolts securing spare tire hanger guide assembly.
7. Remove clips from upper side of bumper assembly. **M**
8. Extract bumper assembly.
9. Remove nuts securing bumper reinforcement and remove the bumper reinforcement. **P**

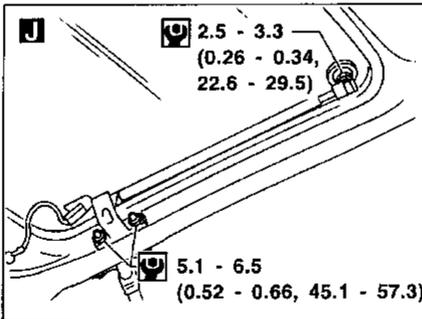
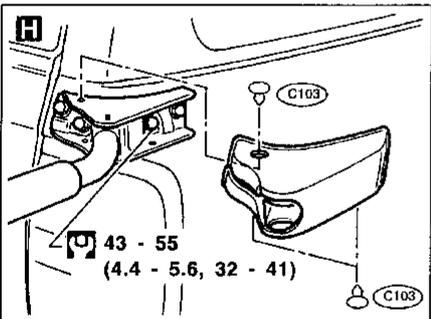
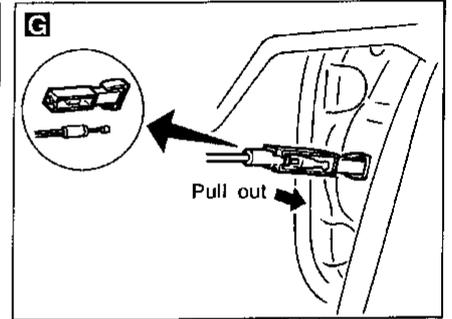
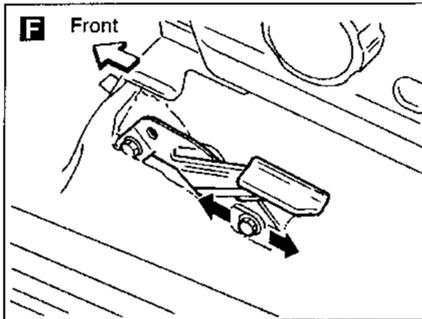
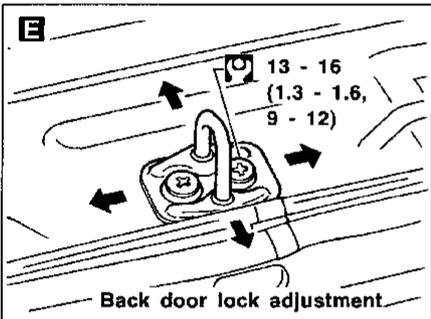
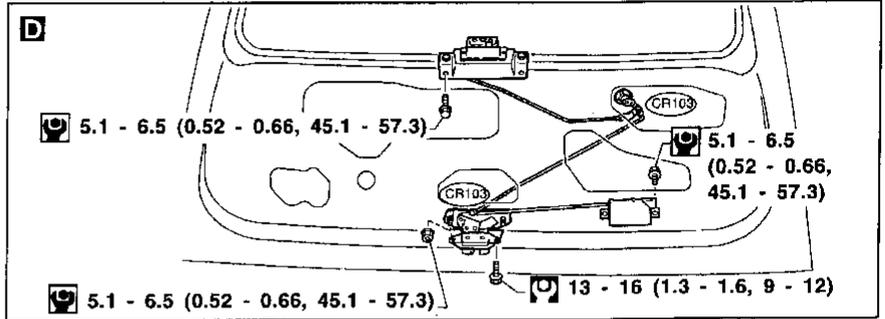
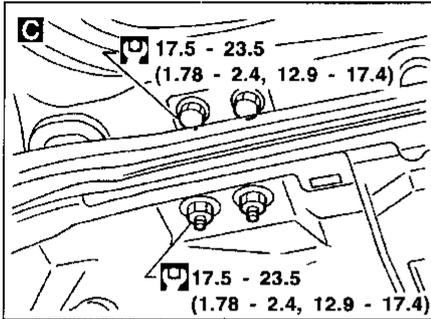
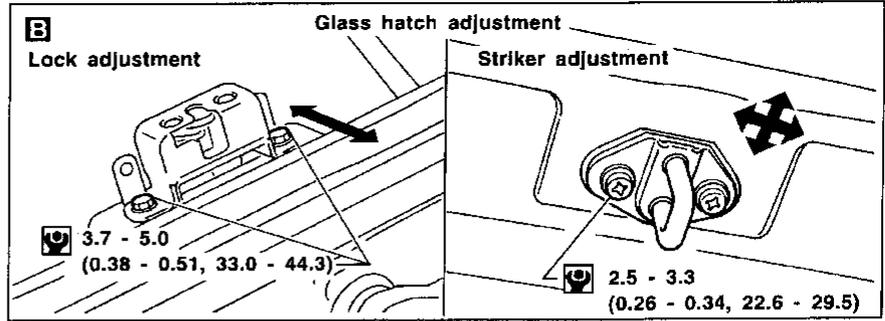
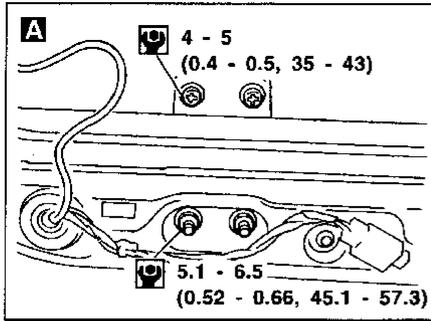
SEC. 570•767•850•900•905



SBT701

# BODY REAR END AND OPENER

Removal and Installation (Cont'd)



: N·m (kg-m, in-lb)

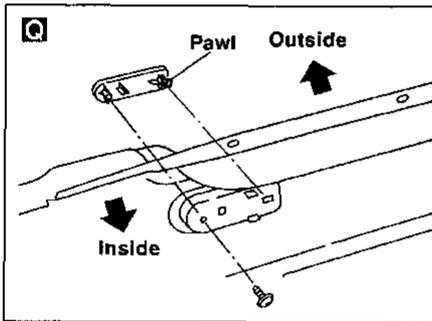
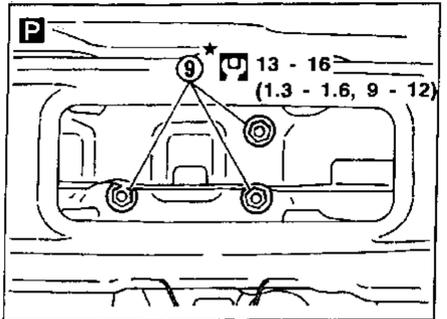
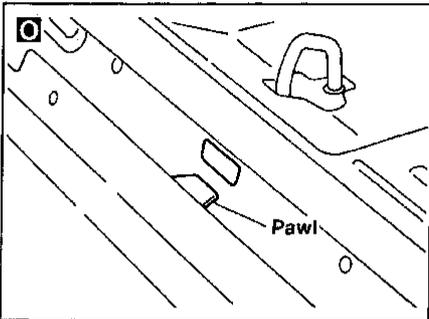
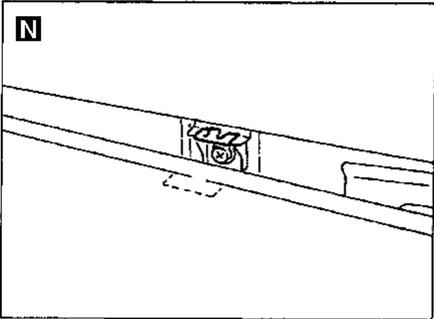
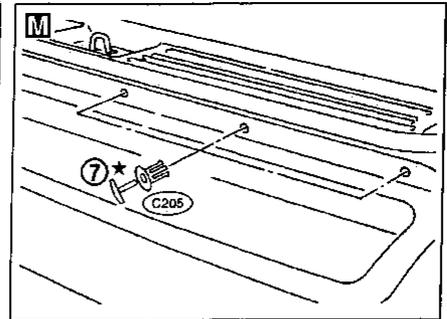
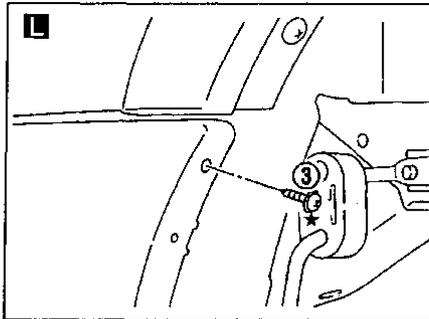
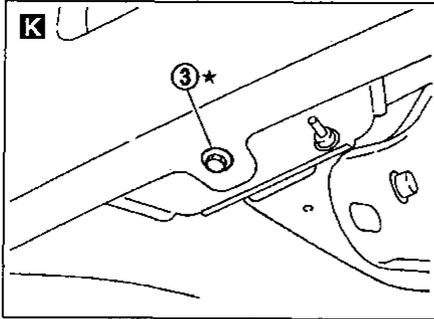
: N·m (kg-m, ft-lb)

GI  
MA  
EM  
LC  
EC  
FE  
CL  
MT  
AT  
TF  
PD  
AX  
SU  
BR  
ST  
RS  
BT  
HA  
SC  
EL  
IDX

SBT732

# BODY REAR END AND OPENER

Removal and Installation (Cont'd)



★ : Bumper assembly mounting bolts, nuts and clips

☐ : N·m (kg-m, ft-lb)

SBT703

# FRONT DOOR

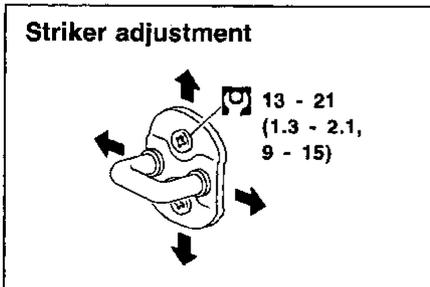
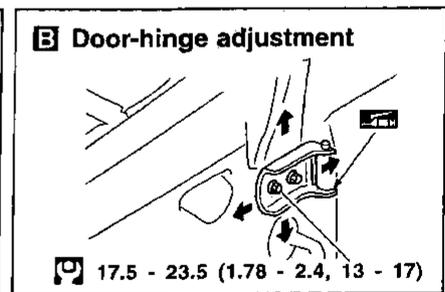
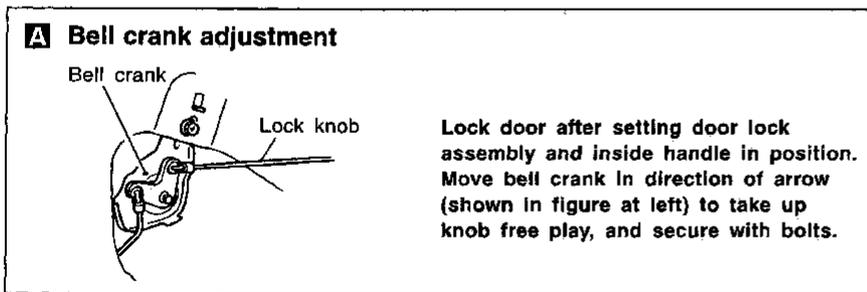
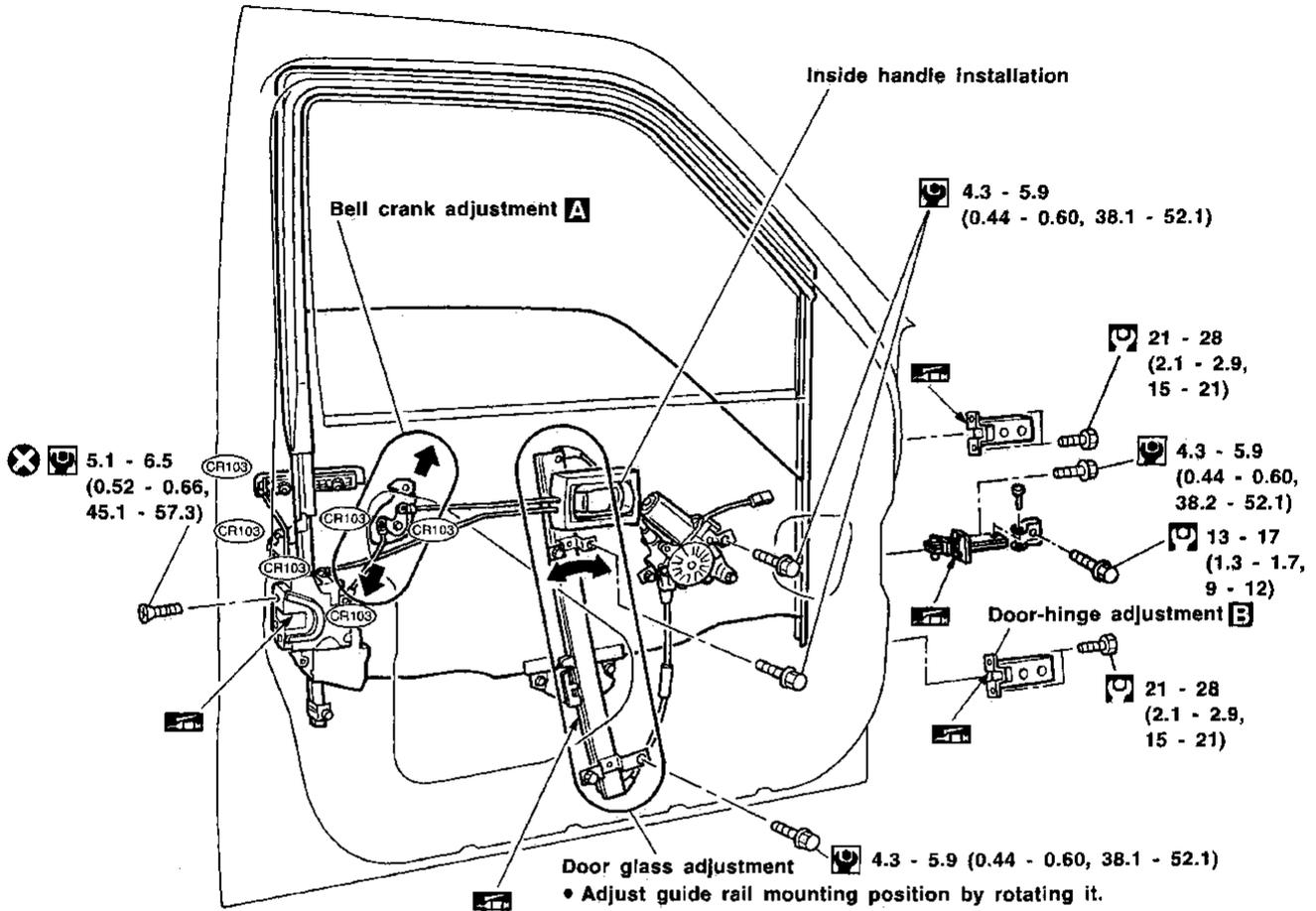
Overhaul

## Overhaul

NAB70006

- For removal of door trim, refer to "DOOR TRIM" (BT-19).
- After adjusting door or door lock, check door lock operation.

SEC. 800•803•805•998



: N·m (kg-m, in-lb)

: N·m (kg-m, ft-lb)

SBT512-A

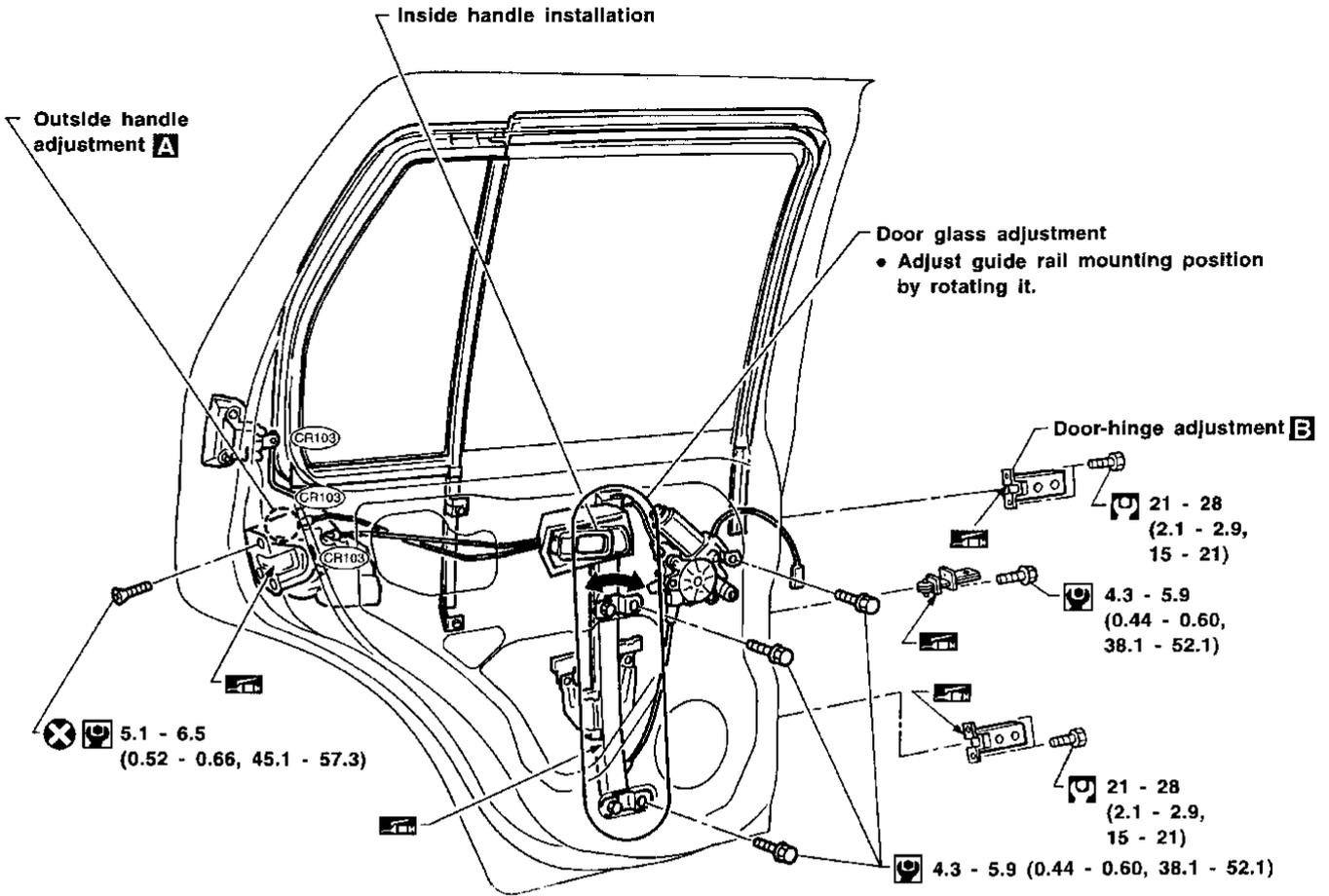
# REAR DOOR

Overhaul

## Overhaul

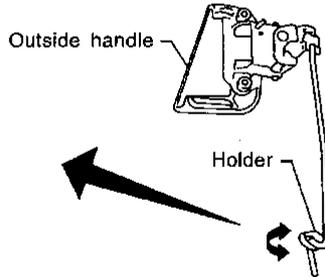
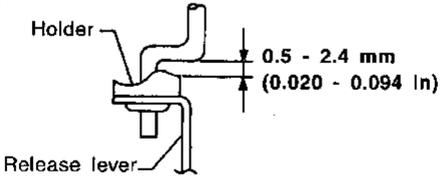
NABT0007

SEC. 820•823•825

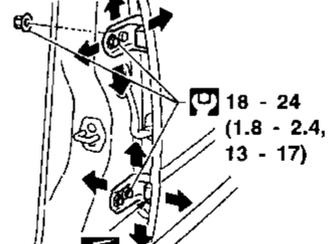


### A Outside handle adjustment

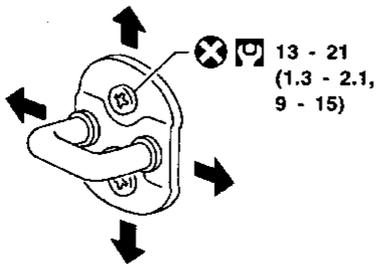
Turn holder until the clearance between holder & rod is the specified value.



### B Door-hinge adjustment



### Striker adjustment



: N•m (kg-m, in-lb)

: N•m (kg-m, ft-lb)

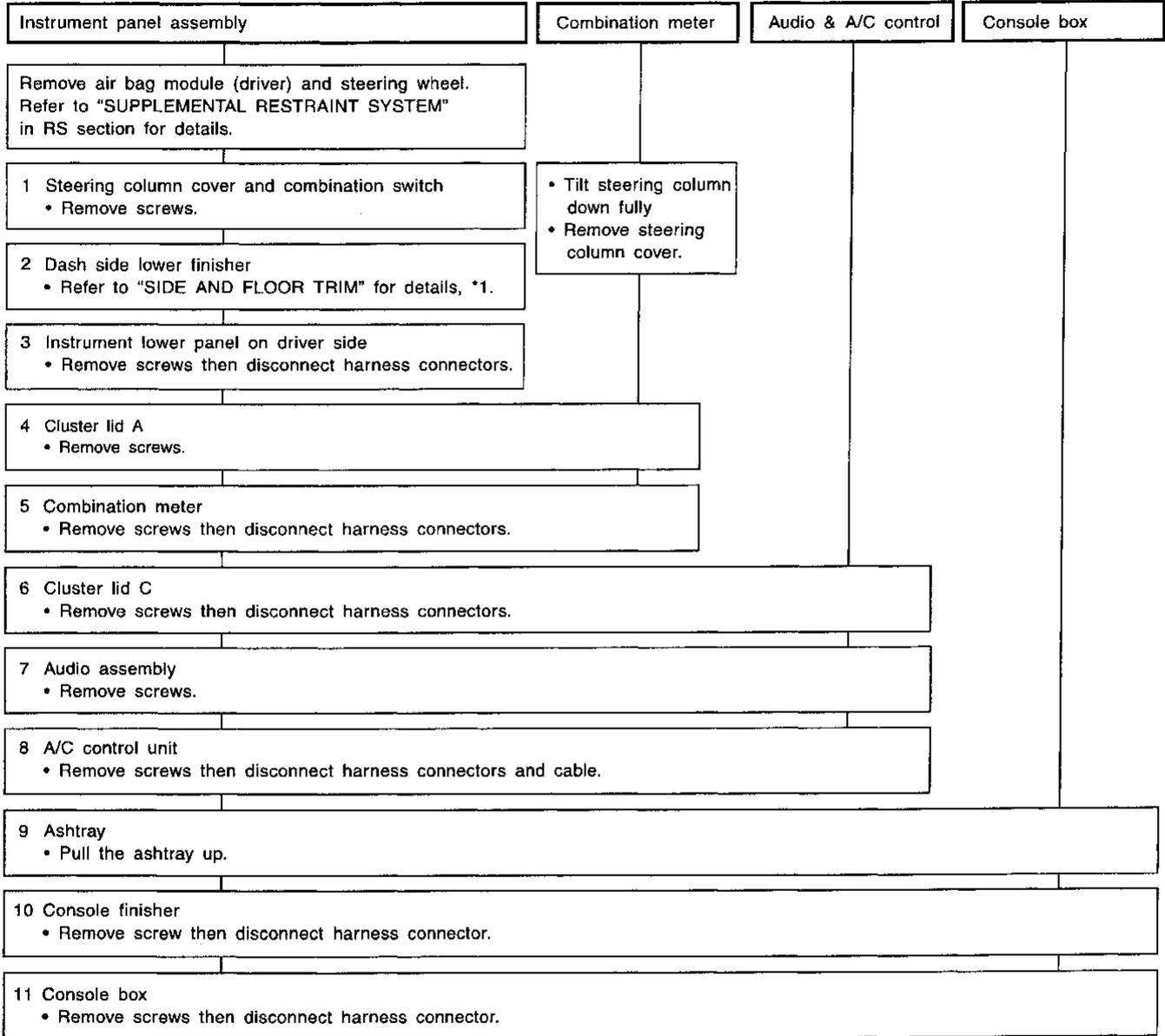
SBT736

## Removal and Installation

NABT0008

**CAUTION:**

- Disconnect both battery cables in advance.
- Disconnect air bag system line 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.



\*1 BT-17

SBT724

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# INSTRUMENT PANEL ASSEMBLY

Removal and Installation (Cont'd)

Ⓐ



12 Glove box

- Remove clips.
- Then disconnect passenger air bag module connector.

13 Instrument lower panel on passenger side

- Remove screws then disconnect harness connector.
- Then remove passenger air bag module bracket. Refer to "SUPPLEMENTAL RESTRAINT SYSTEM" in RS section for details.

14 Instrument lower center panel

- Remove screws.

15 Defroster grille

16 Front pillar garnish

- Refer to "SIDE AND FLOOR TRIM" for details, \*1.

17 Instrument panel and pads

- Remove bolts and nuts.
- Then disconnect GPS antenna connector.

18 Passenger air bag module

- Remove air duct.
- Refer to "SUPPLEMENTAL RESTRAINT SYSTEM" in RS section for details.

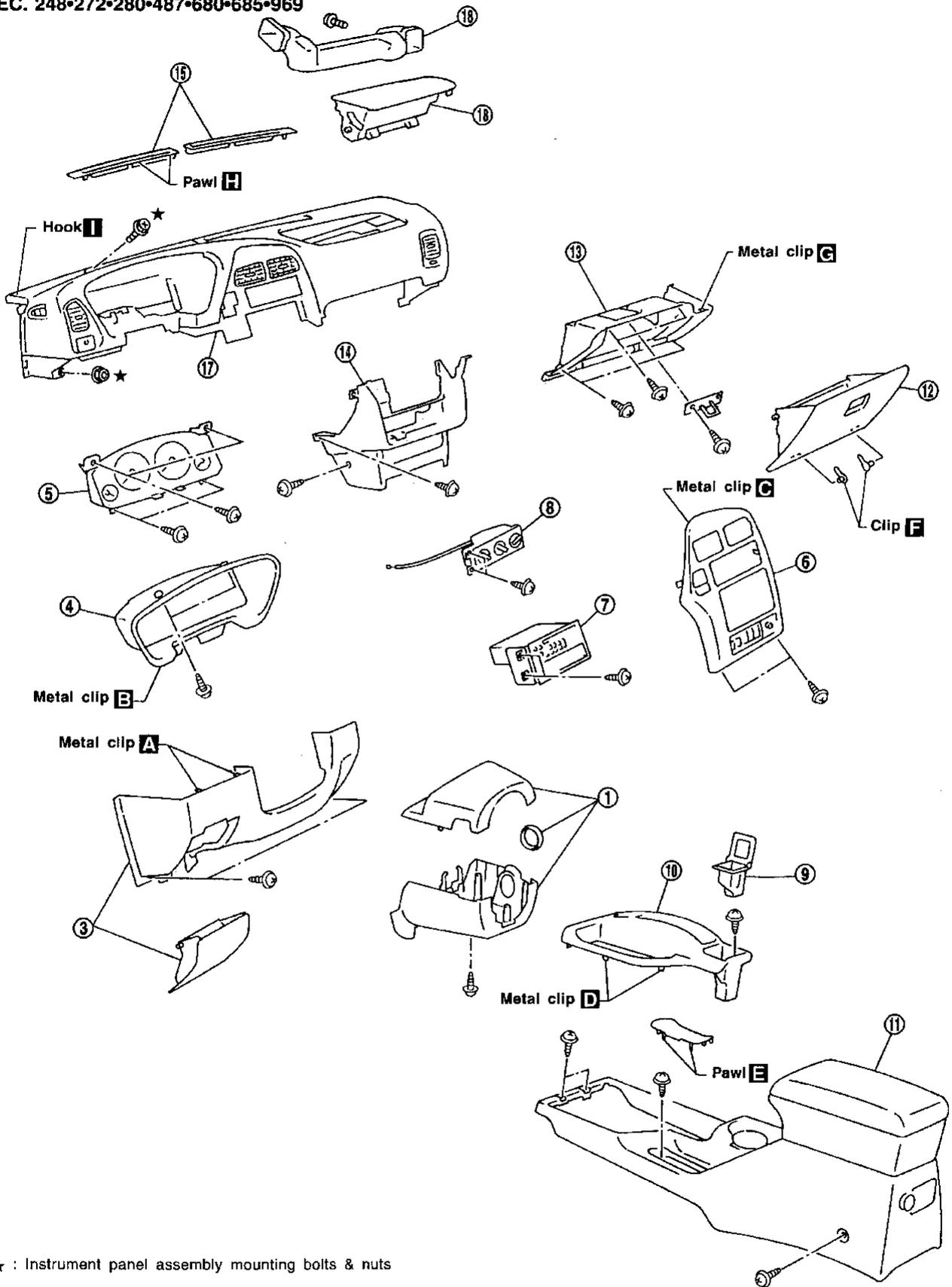
SBT725

\*1 BT-17

# INSTRUMENT PANEL ASSEMBLY

Removal and Installation (Cont'd)

SEC. 248•272•280•487•680•685•969



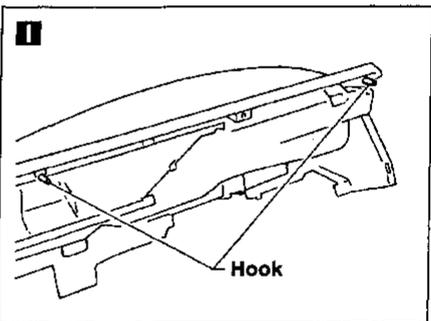
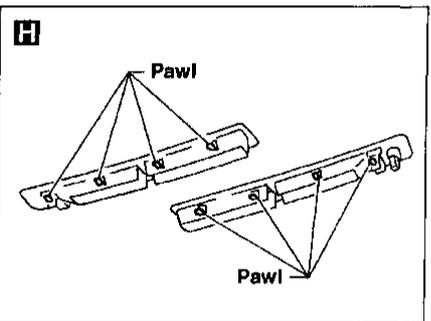
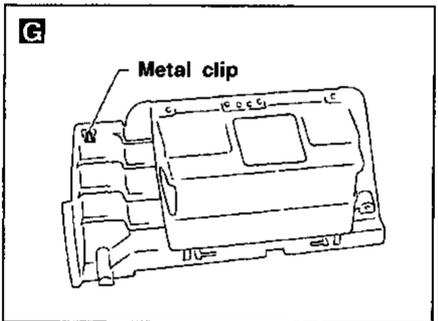
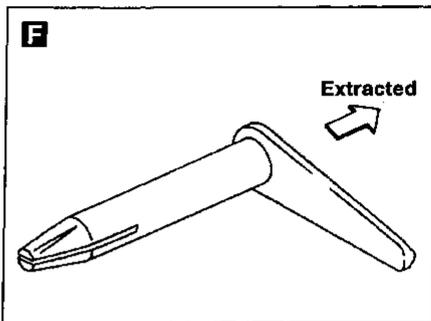
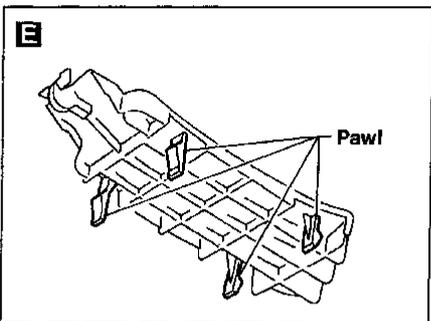
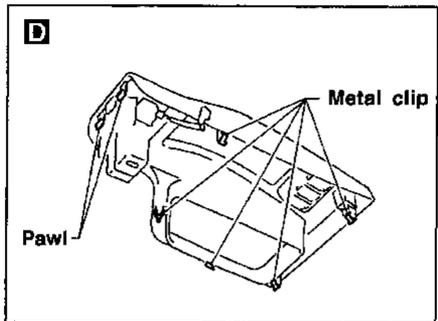
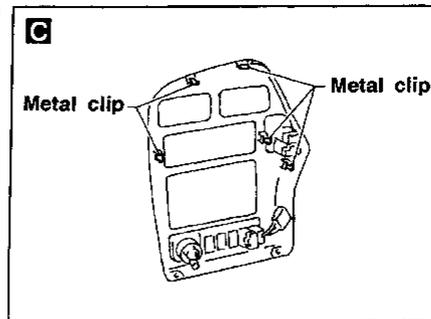
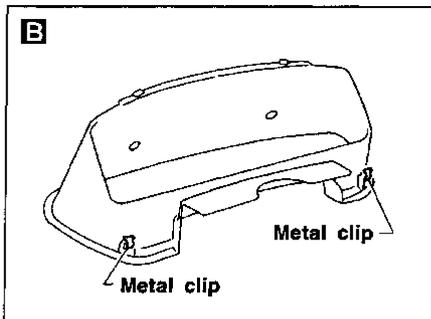
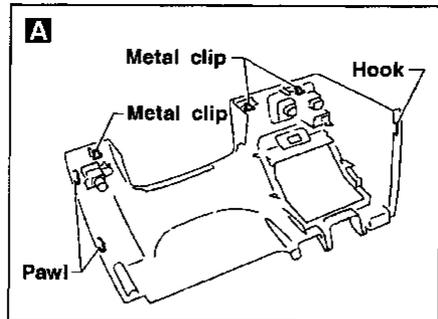
★ : Instrument panel assembly mounting bolts & nuts

SBT726

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# INSTRUMENT PANEL ASSEMBLY

Removal and Installation (Cont'd)



## Removal and Installation

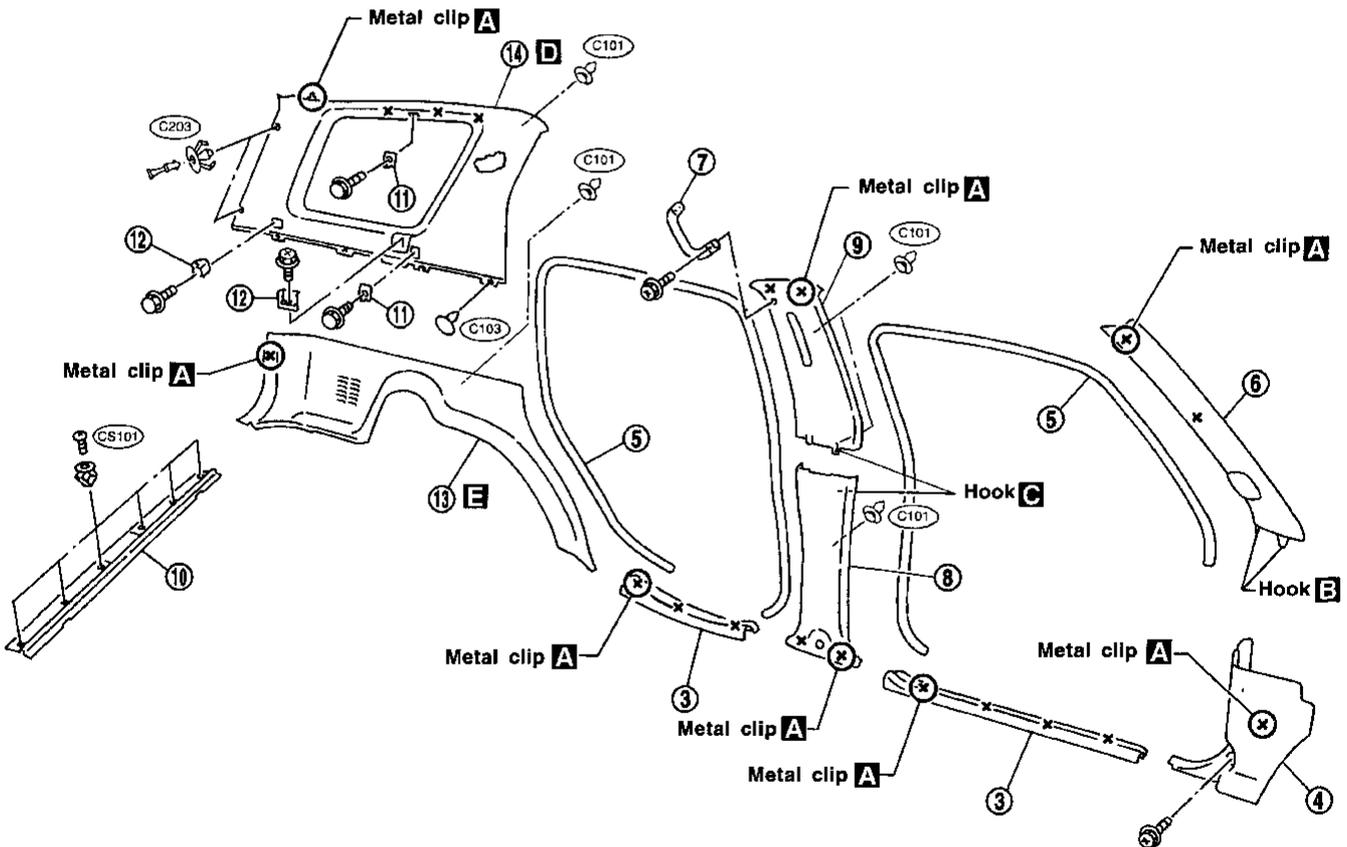
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**CAUTION:**

Wrap the tip of flat-bladed screwdriver with a cloth when removing metal clips from garnishes.

1. Remove front and rear seats. Refer to "FRONT SEAT" and "REAR SEAT" for details, BT-31, BT-35.
2. Remove front and rear seat belts. Refer to "SEAT BELT" in RS section for details.
3. Remove front and rear kicking plates.
4. Remove dash side lower finishers.
5. Remove front and rear body side welts.
6. Remove front pillar garnishes. **B**
7. Remove center assist grips.
8. Remove center pillar lower garnishes. **C**
9. Remove center pillar upper garnishes. **C**
10. Remove rear gate kicking plate.
11. Remove rear net hooks.
12. Remove tonneau cover assembly and rear parcel holder.
13. Remove rear side lower garnishes. **E**
14. Remove rear side upper garnishes. **D**

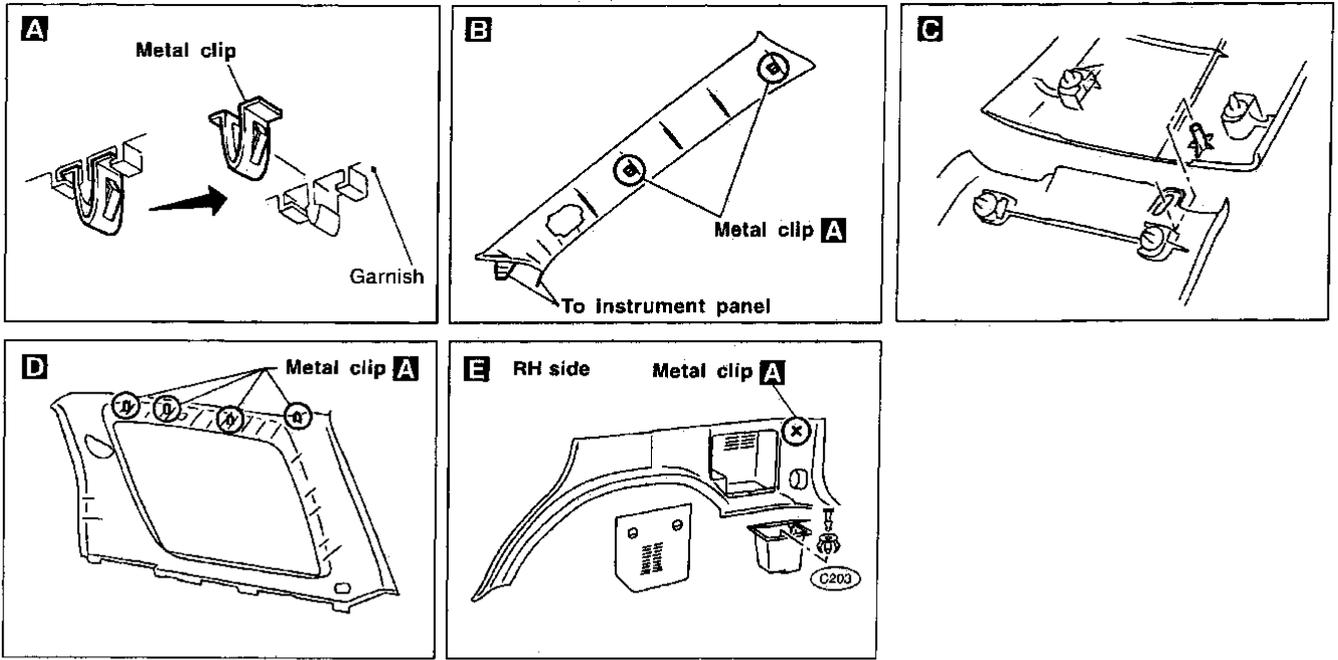
SEC. 678•738•769•799•849



SBT694

# SIDE AND FLOOR TRIM

Removal and Installation (Cont'd)



SBT728

# DOOR TRIM

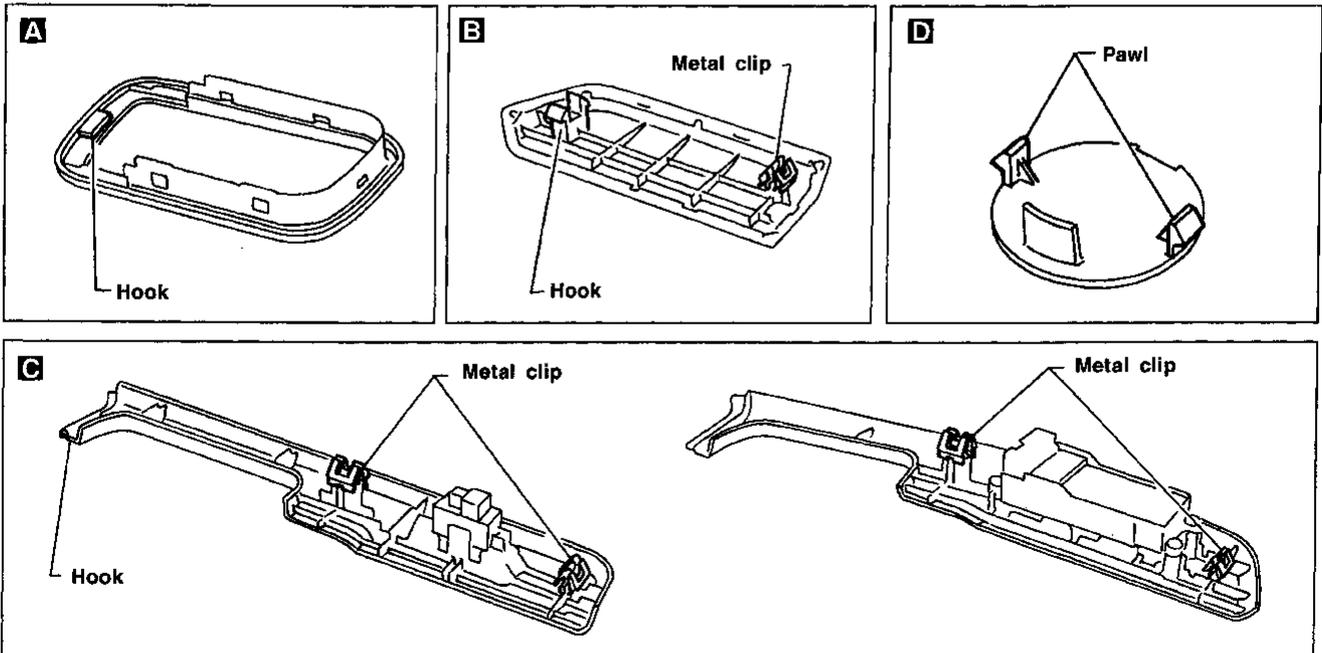
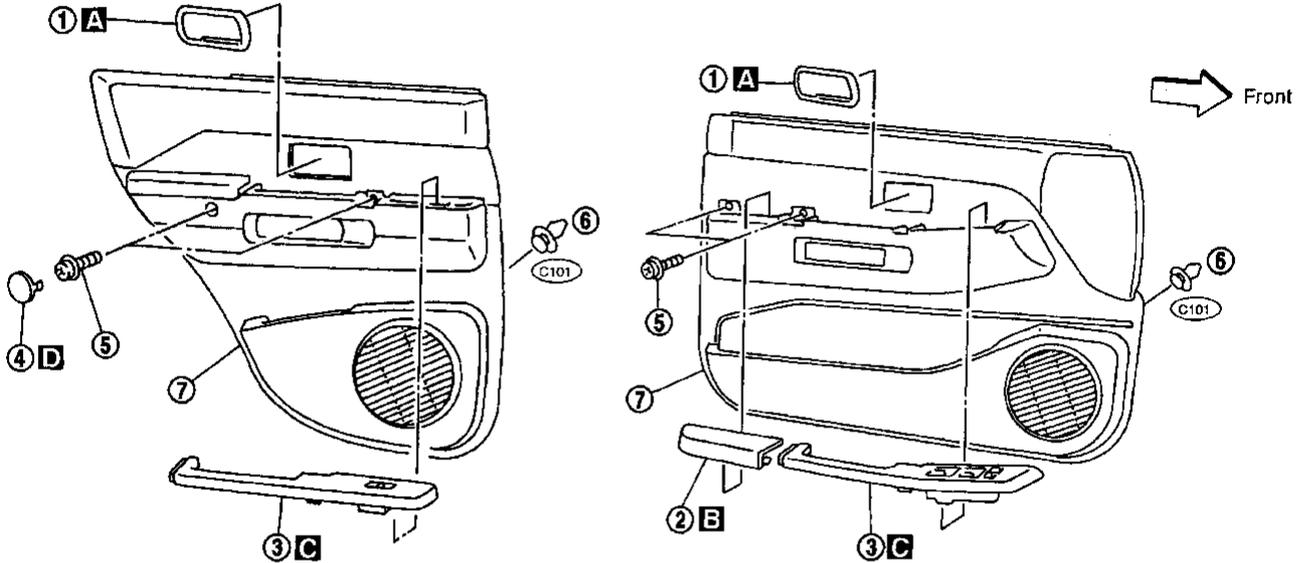
Removal and Installation

## Removal and Installation

### TYPE A

1. Remove inside handle escutcheon. **A**
2. Remove door armrest. (Front door only) **B**
3. Remove power window switches, then disconnect the connectors. **C**
4. Remove door finisher cover. (Rear door only) **D**
5. Remove bolts securing door finisher.
6. Remove clips securing door finisher.
7. Lift out door finisher.

SEC. 251•809•828



SBT207

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# DOOR TRIM

Removal and Installation (Cont'd)

=NABT0010S02

## TYPE B

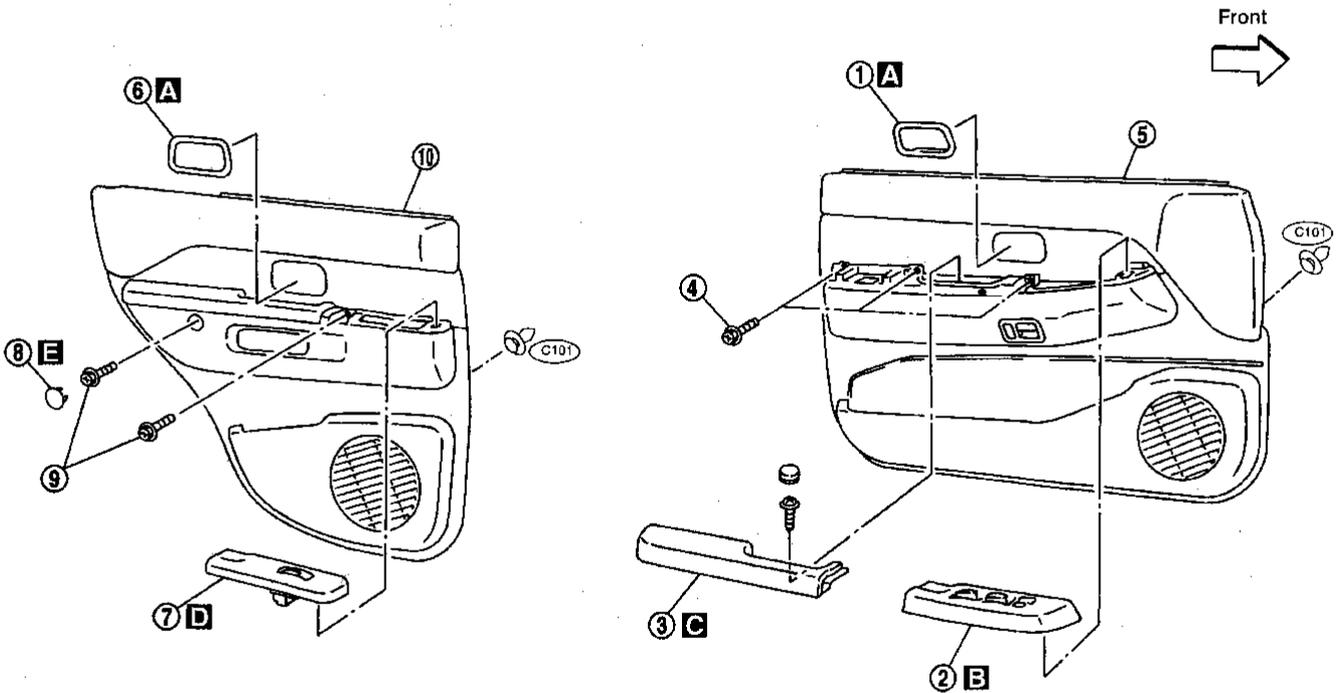
### Front Door Trim

1. Remove inside handle escutcheon. **A**
2. Remove power window switch, then disconnect the connectors. **B**
3. Remove door armrest. **C**
4. Remove bolts securing door finisher.
5. Pull on door finisher to remove clips from door panel and remove door finisher, then disconnect glass hatch and fuel lid opener switch connector.

### Rear Door Trim

6. Remove inside handle escutcheon. **A**
7. Remove power window switch, then disconnect the connector. **D**
8. Remove door armrest cap. **E**
9. Remove bolts securing door finisher.
10. Pull on door finisher to remove clips from door panel and remove door finisher.

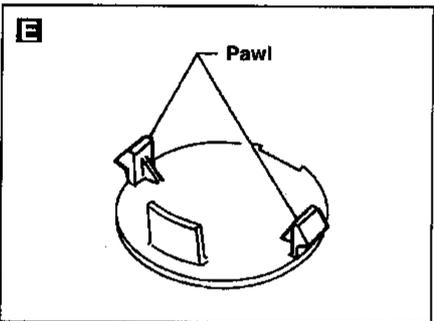
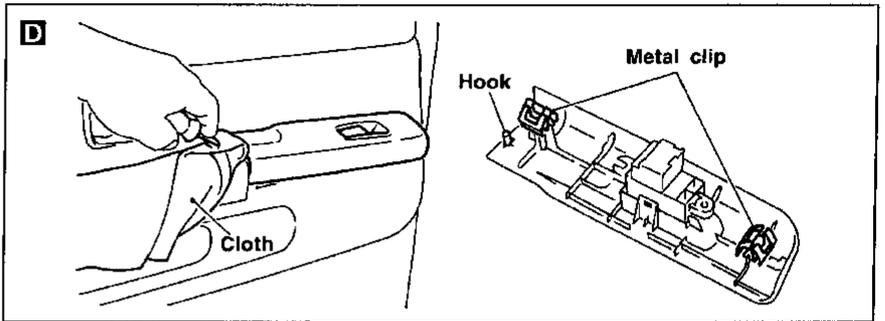
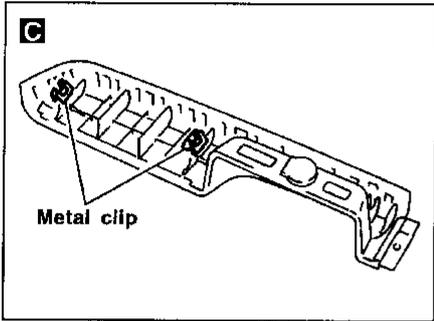
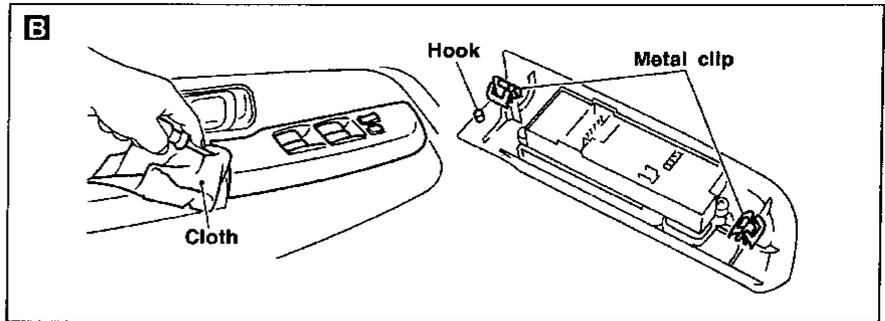
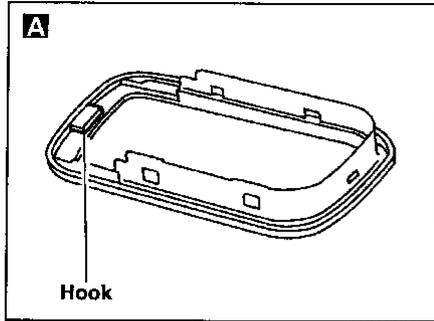
SEC. 251•809•828



SBT696

# DOOR TRIM

Removal and Installation (Cont'd)



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SBT697

# ROOF TRIM

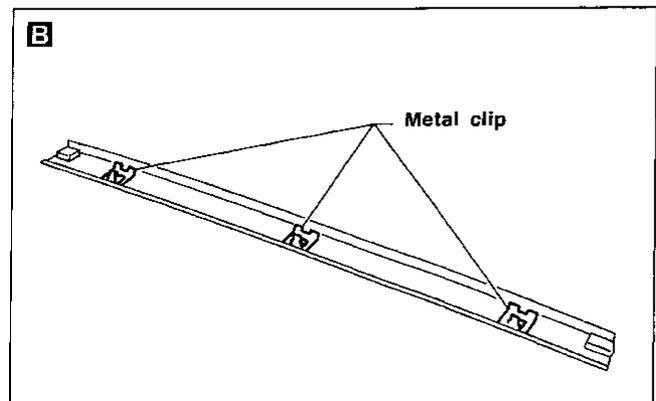
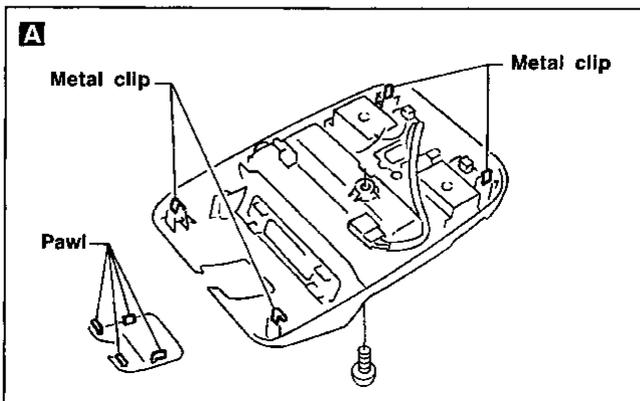
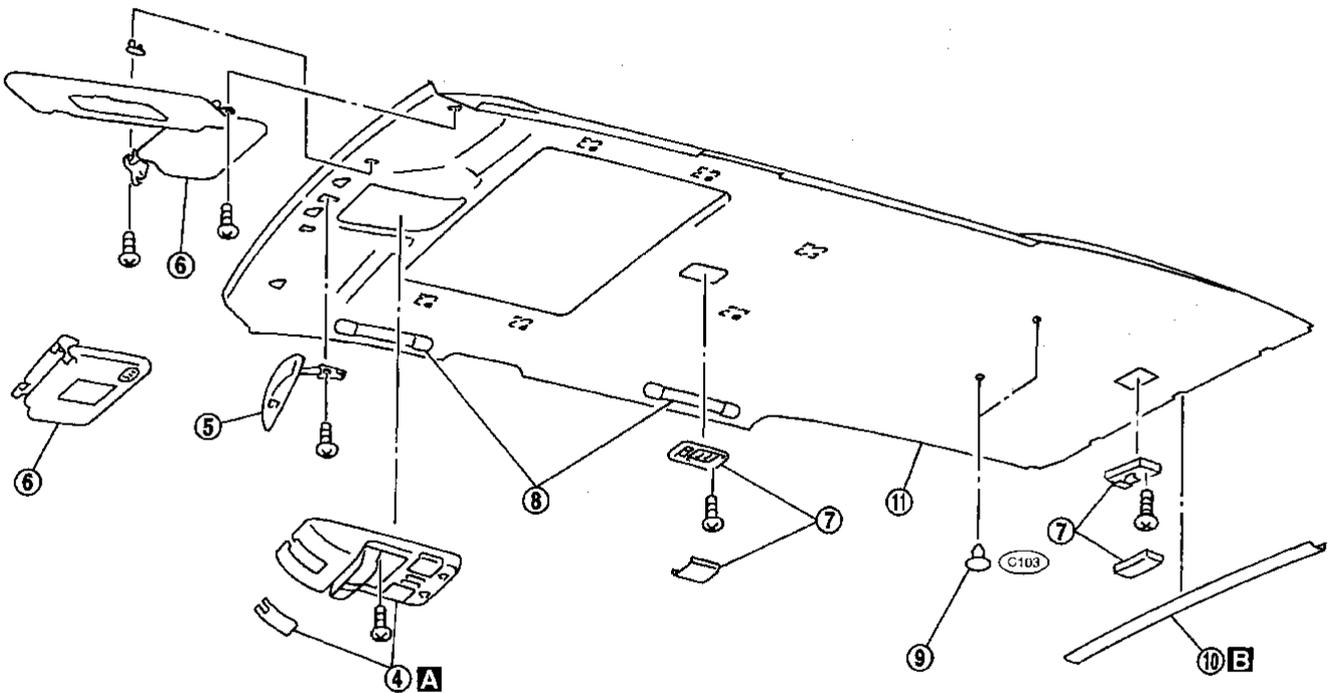
Removal and Installation

## Removal and Installation

NAB70011

1. Remove front and rear seats. Refer to "FRONT SEAT" and "REAR SEAT" for details, BT-31, BT-35.
2. Remove front and rear seat belts. Refer to "SEAT BELTS" in RS section for details.
3. Remove body side trim. Refer to "SIDE AND FLOOR TRIM" for details, BT-17.
4. Remove roof console assembly. **A**
5. Remove inside mirror assembly.
6. Remove sun visors.
7. Remove interior lamp assembly and luggage room lamp assembly.
8. Remove assist grips.
9. Remove clips securing headlining.
10. Remove rear roof garnish. **B**
11. Remove headlining from vehicle through either back door.

SEC. 264•738•963•964•970



SBT487

# BACK DOOR TRIM

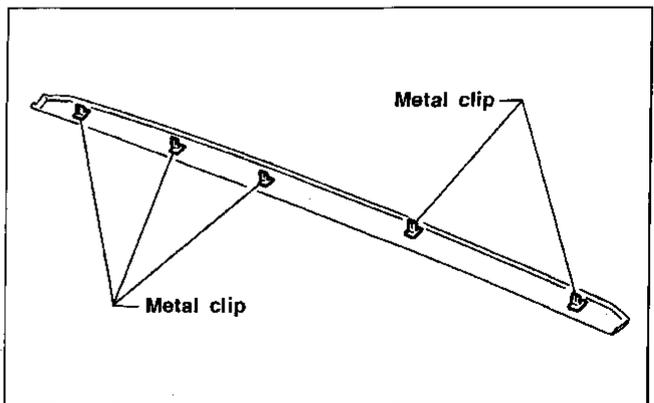
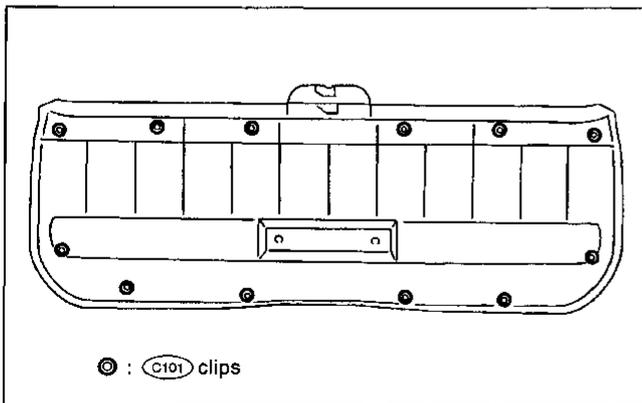
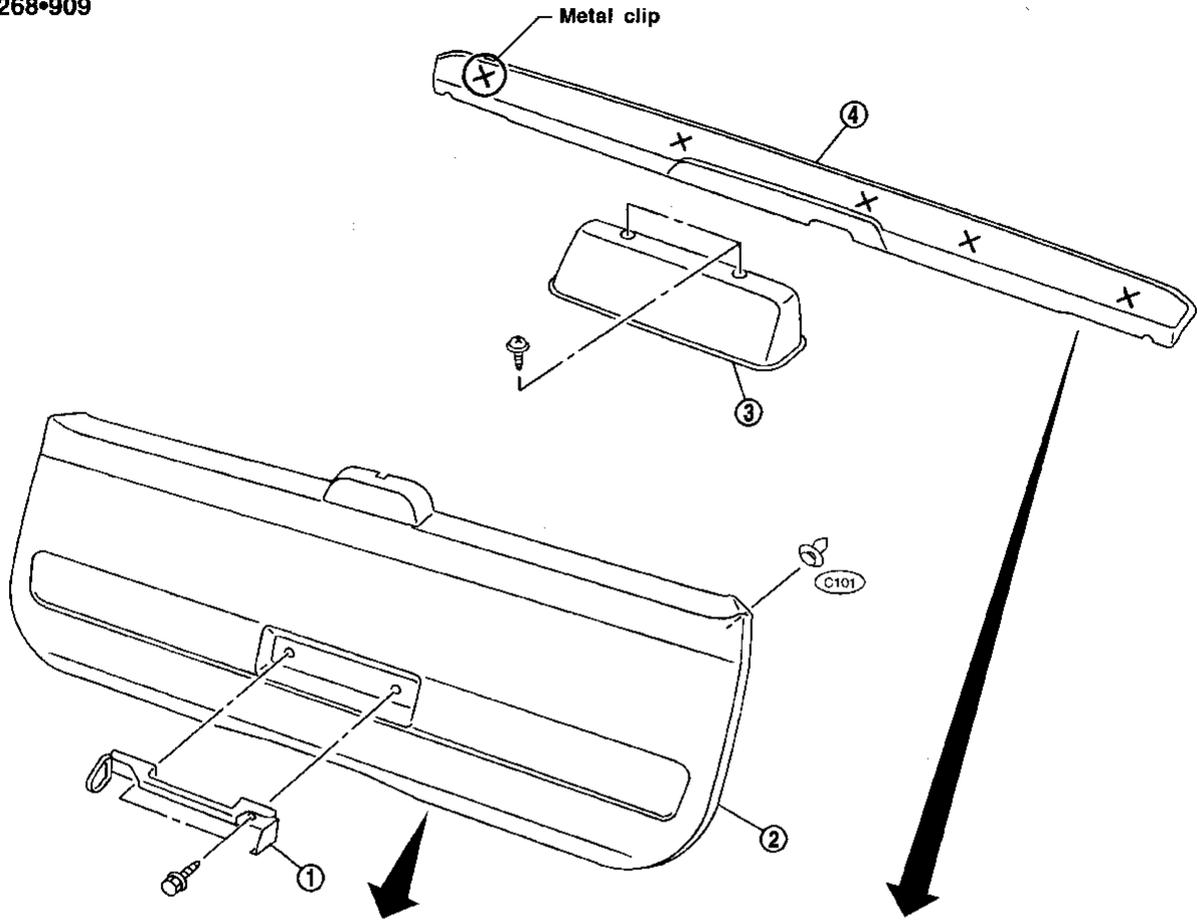
Removal and Installation

## Removal and Installation

GI  
NABT0012

1. Remove back door grip.
2. Remove back door finisher assembly.
3. Remove high-mounted stop lamp.
4. Remove back door upper finisher assembly.

SEC. 268•909



SBT223

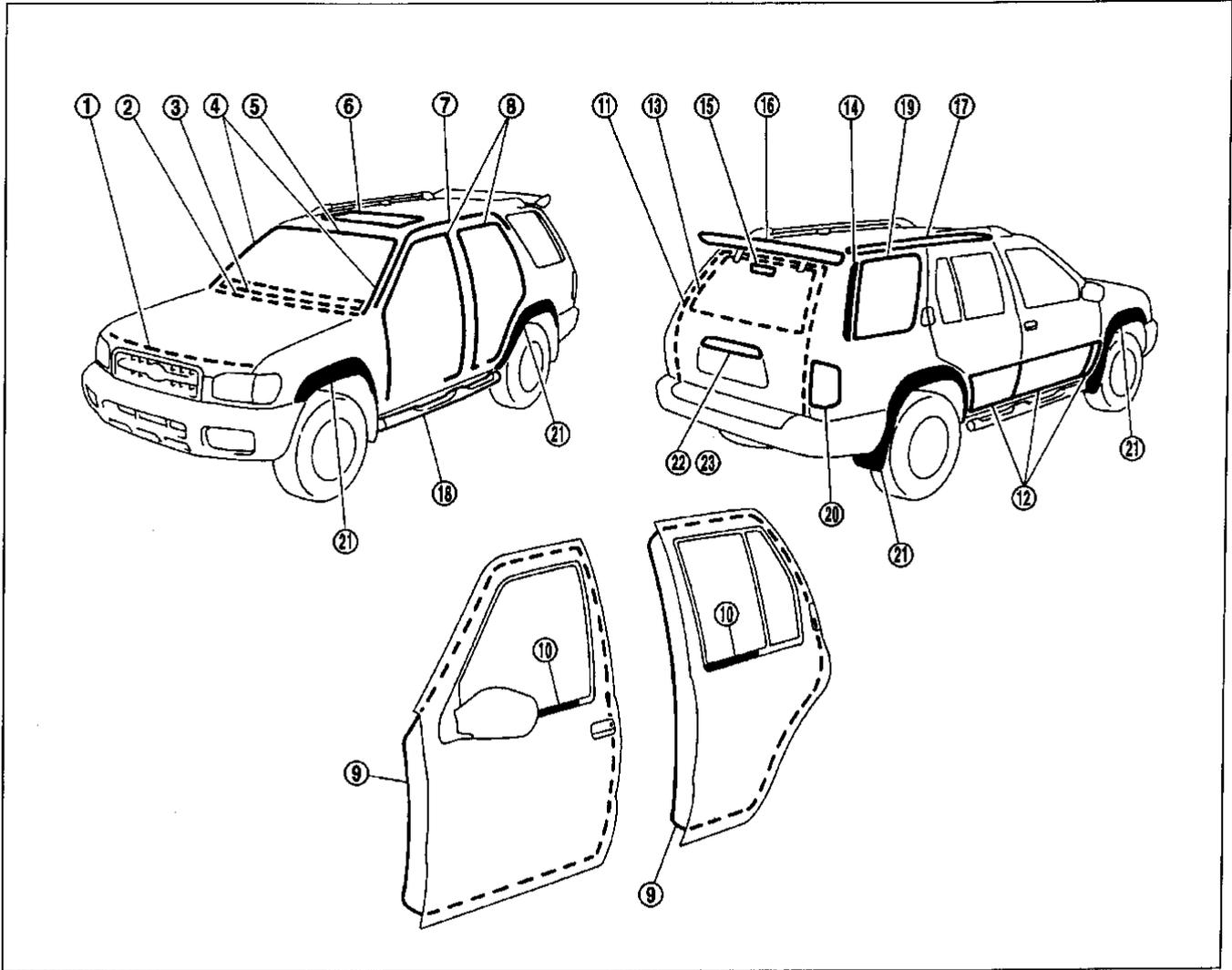
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# EXTERIOR

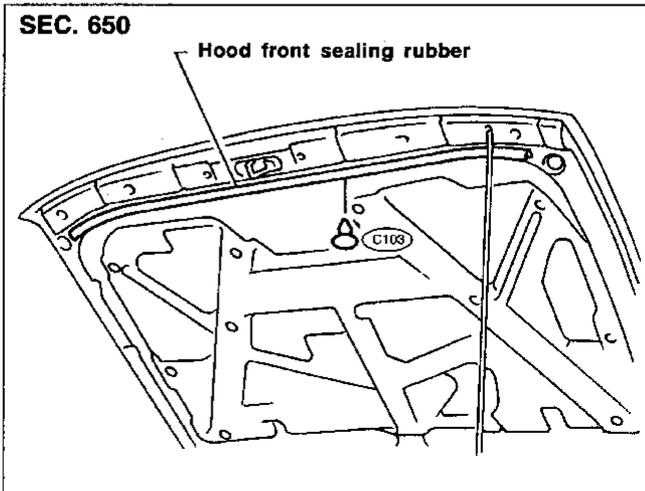
Removal and Installation

## Removal and Installation

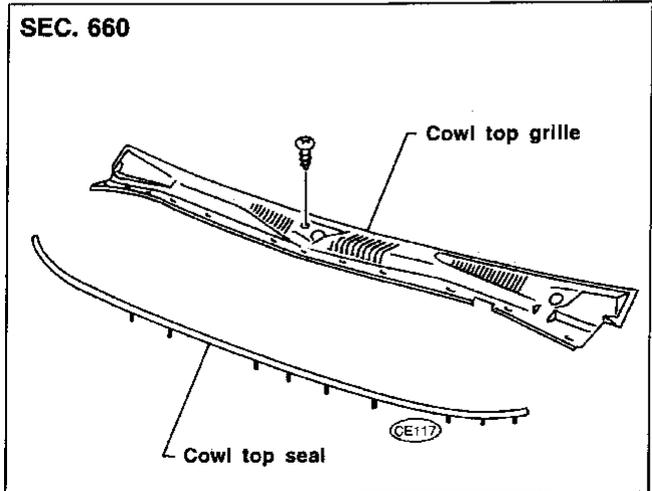
NABT0013



### ① Hood front seal



### ② ③ Cowl top seal and cowl top grille



### ④ Windshield side molding

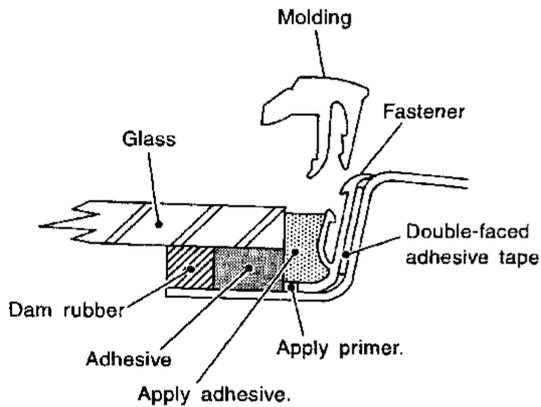
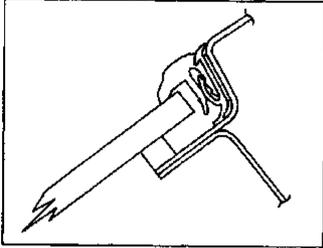
Mounted with screws.

SBT729

⑤ Windshield upper molding

SEC. 720

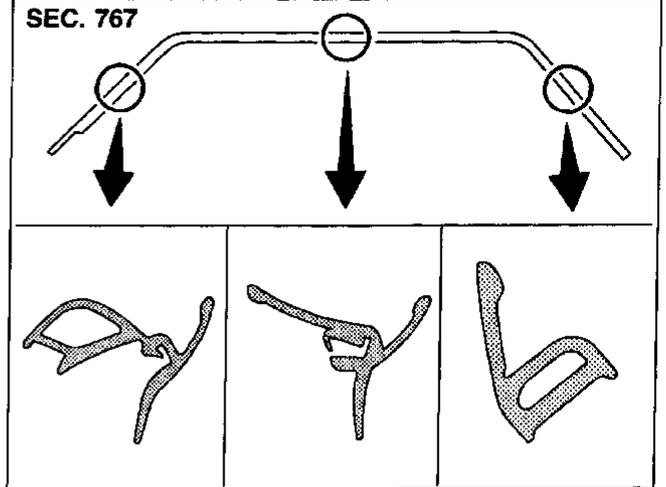
1. Cut off adhesive at glass end.
2. Remove old adhesive from panel surface.
3. Set molding fastener and apply primer to body panel, and apply adhesive to body.



4. Install molding by aligning the molding mark located on center with vehicle center. Be sure to install tightly so that there is no gap around the corner.

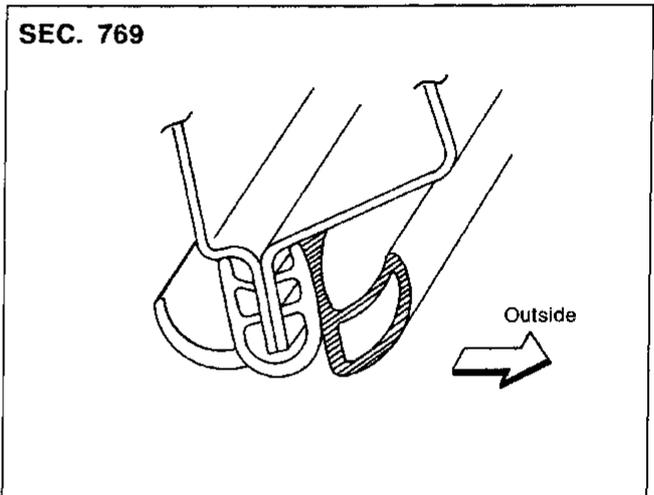
⑦ Drip weatherstrip

SEC. 767



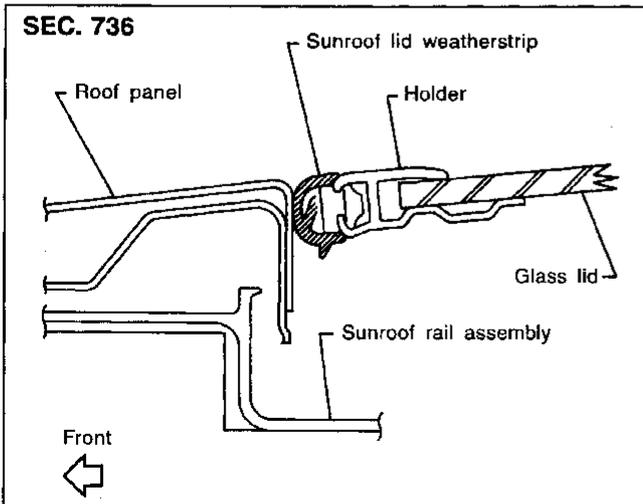
⑧ Body side welt

SEC. 769



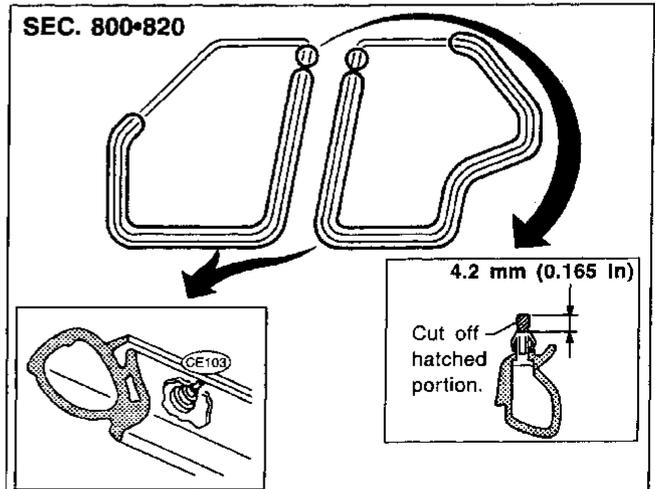
⑥ Sunroof lid weatherstrip

SEC. 736



⑨ Door weatherstrip

SEC. 800-820



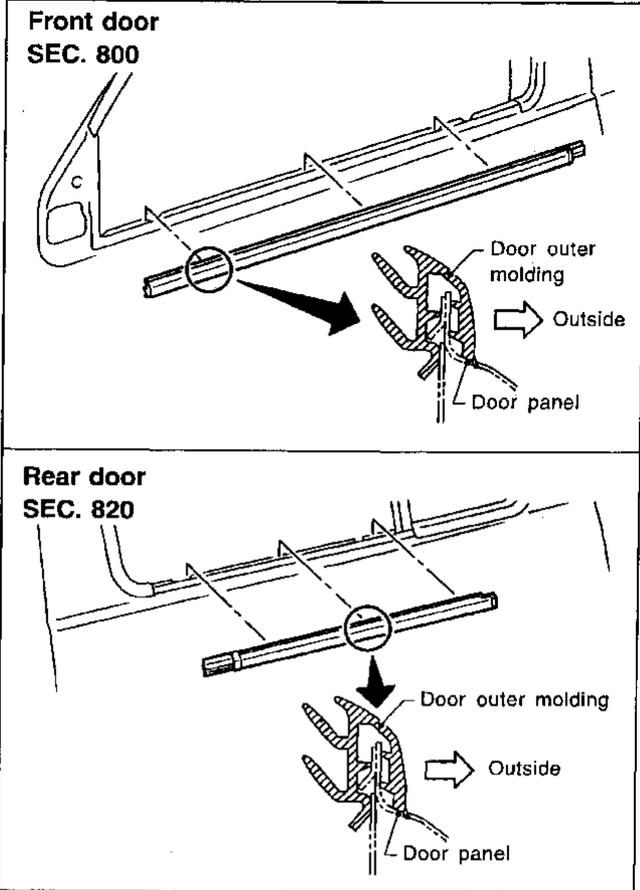
SBT730

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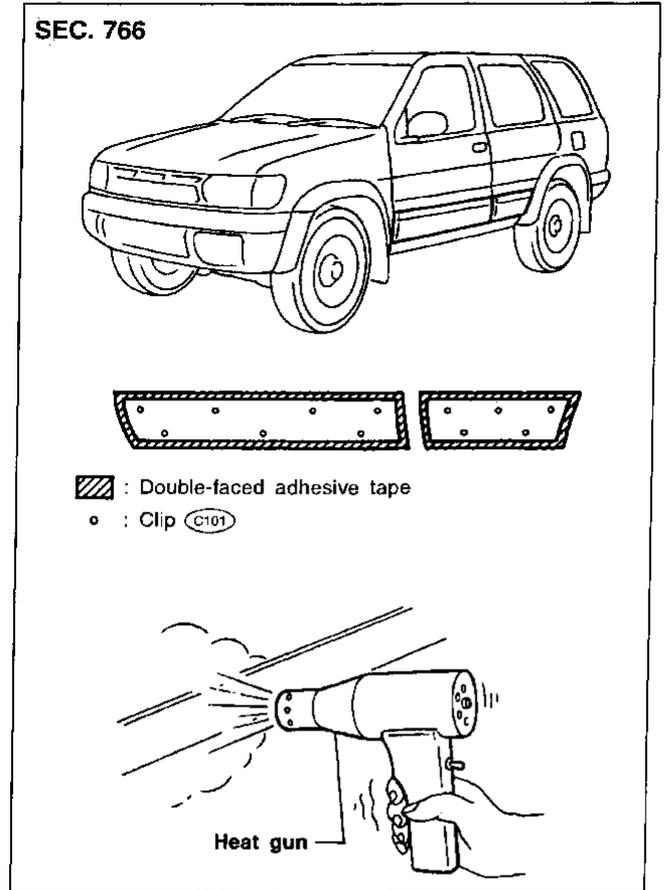
# EXTERIOR

Removal and Installation (Cont'd)

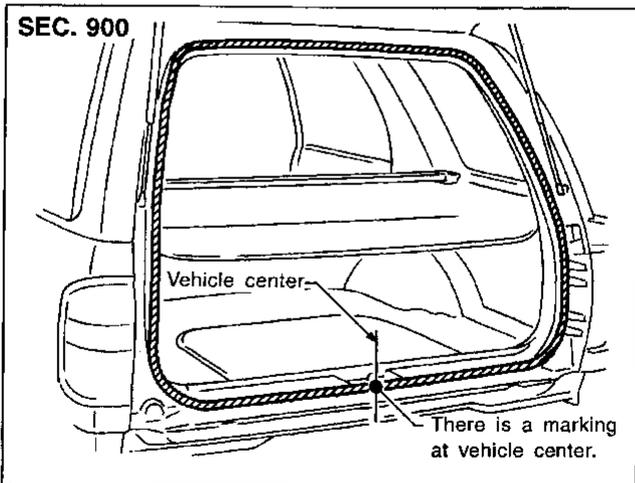
## ⑩ Door outside molding



## ⑫ Side guard molding

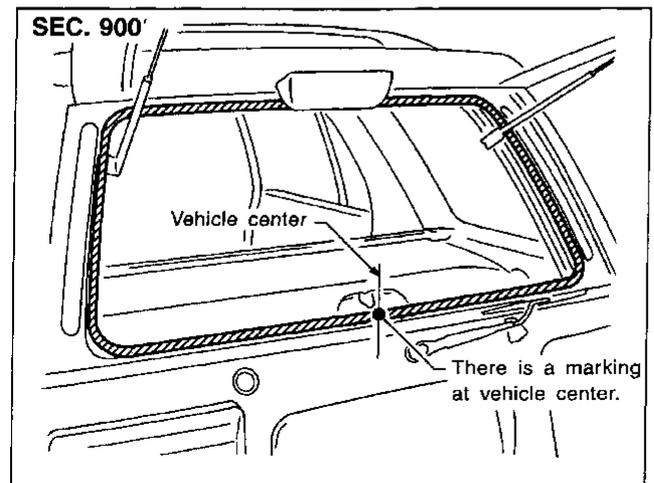


## ⑪ Back door weatherstrip



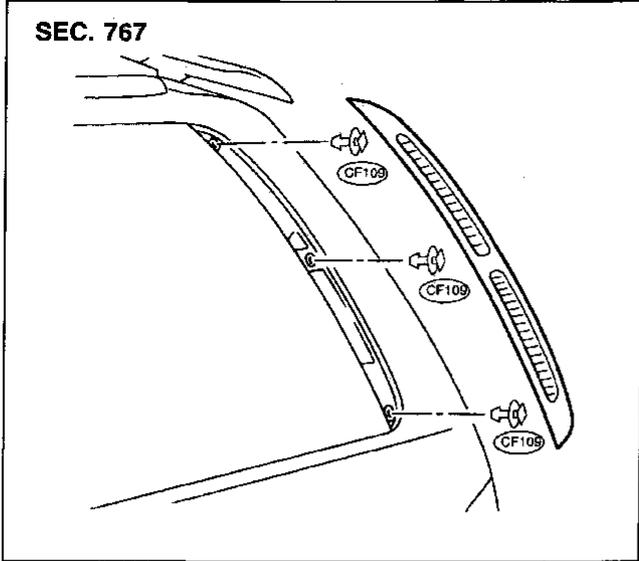
- With a vehicle coated with Hard Clear Coat, use double-faced 3M adhesive tape Product No. 4210 or equivalent, after priming with 3M primer Product No. N-200 or C-100 or equivalent.

## ⑬ Back door window weatherstrip

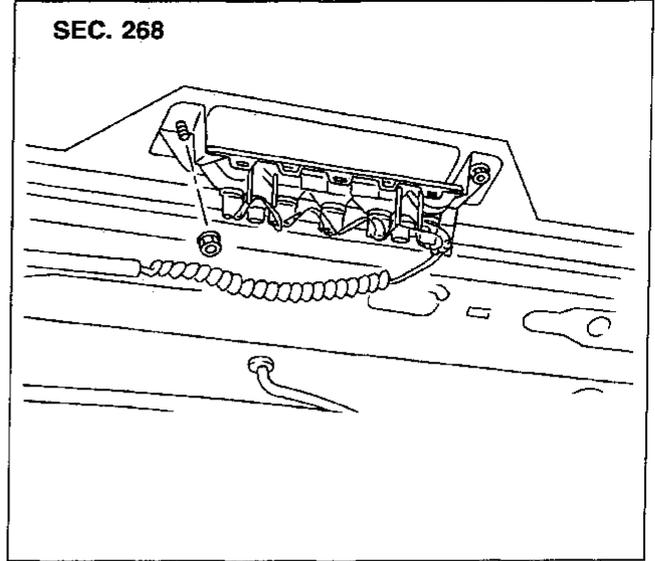


SBT490-A

## 14 Air outlet grille

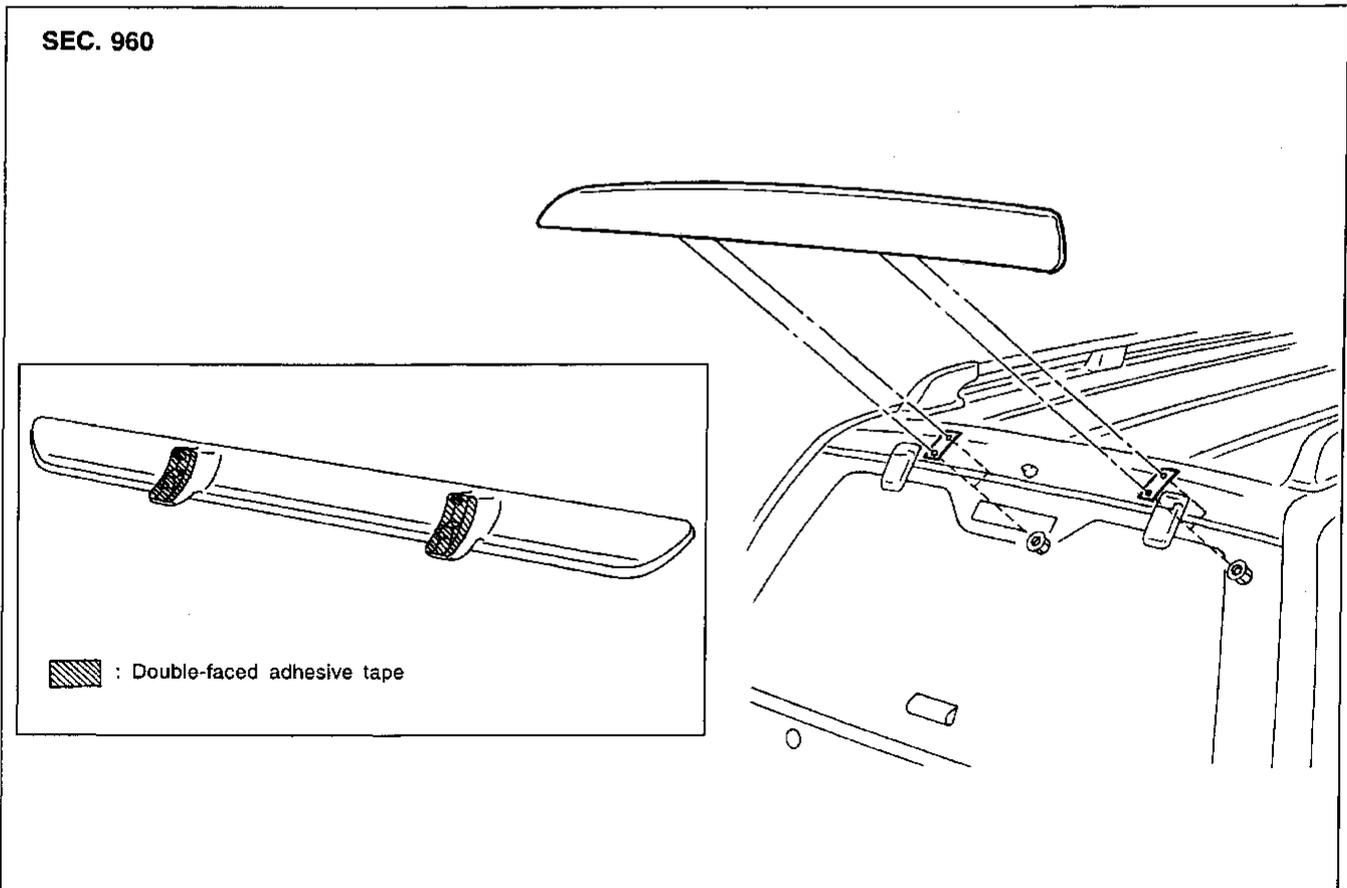


## 15 High-mounted stop lamp



## 16 Back door deflector

- When installing, make sure that there are not gaps or waves at ends of deflector.
- Before installing deflector, clean and remove oil from surface where deflector will be mounted.



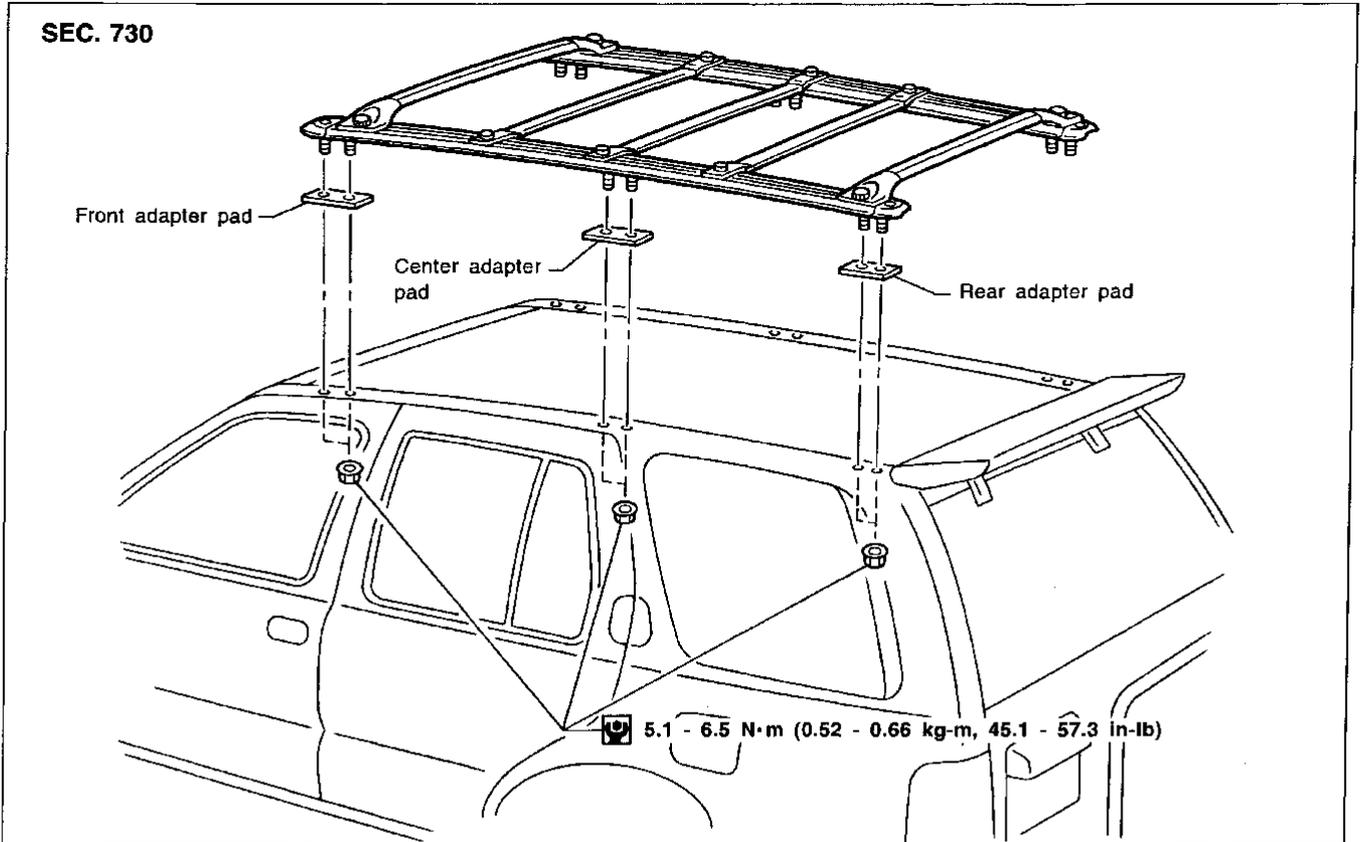
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SBT491-A

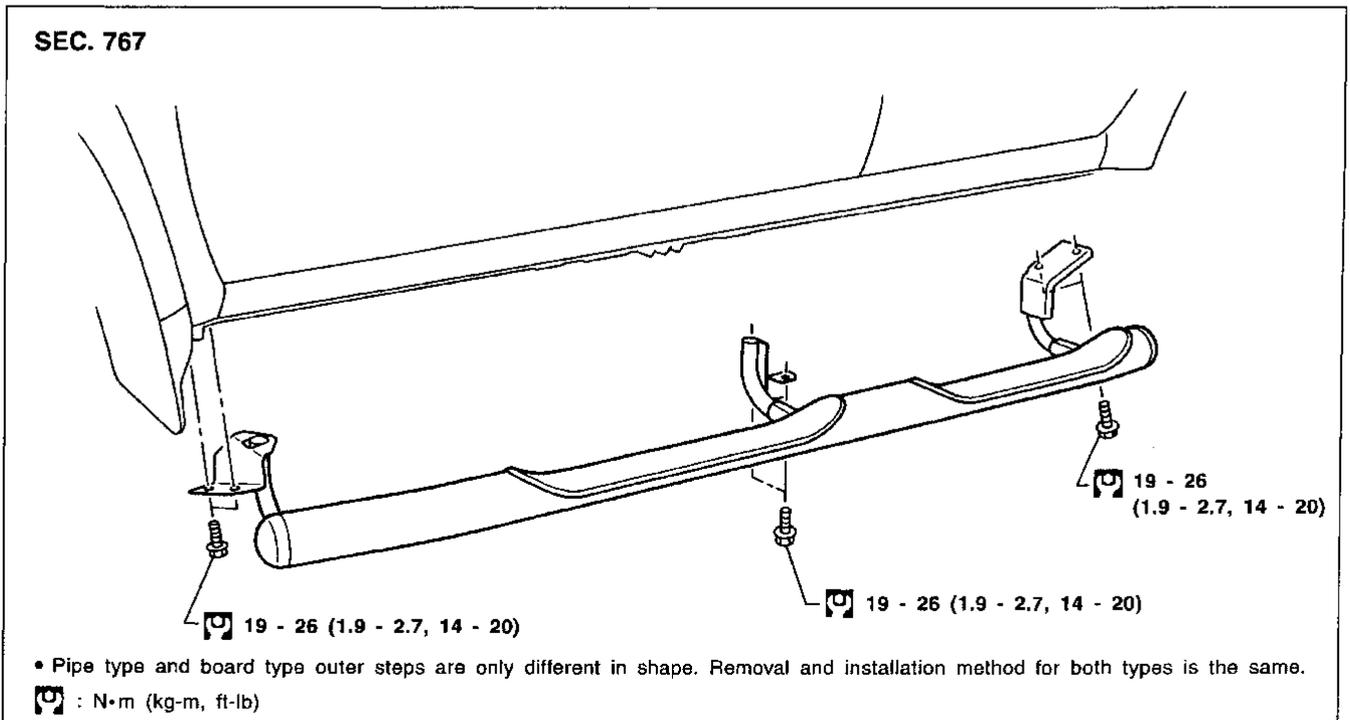
# EXTERIOR

Removal and Installation (Cont'd)

## ⑩ Roof rack



## ⑪ Side step



SBT492-B

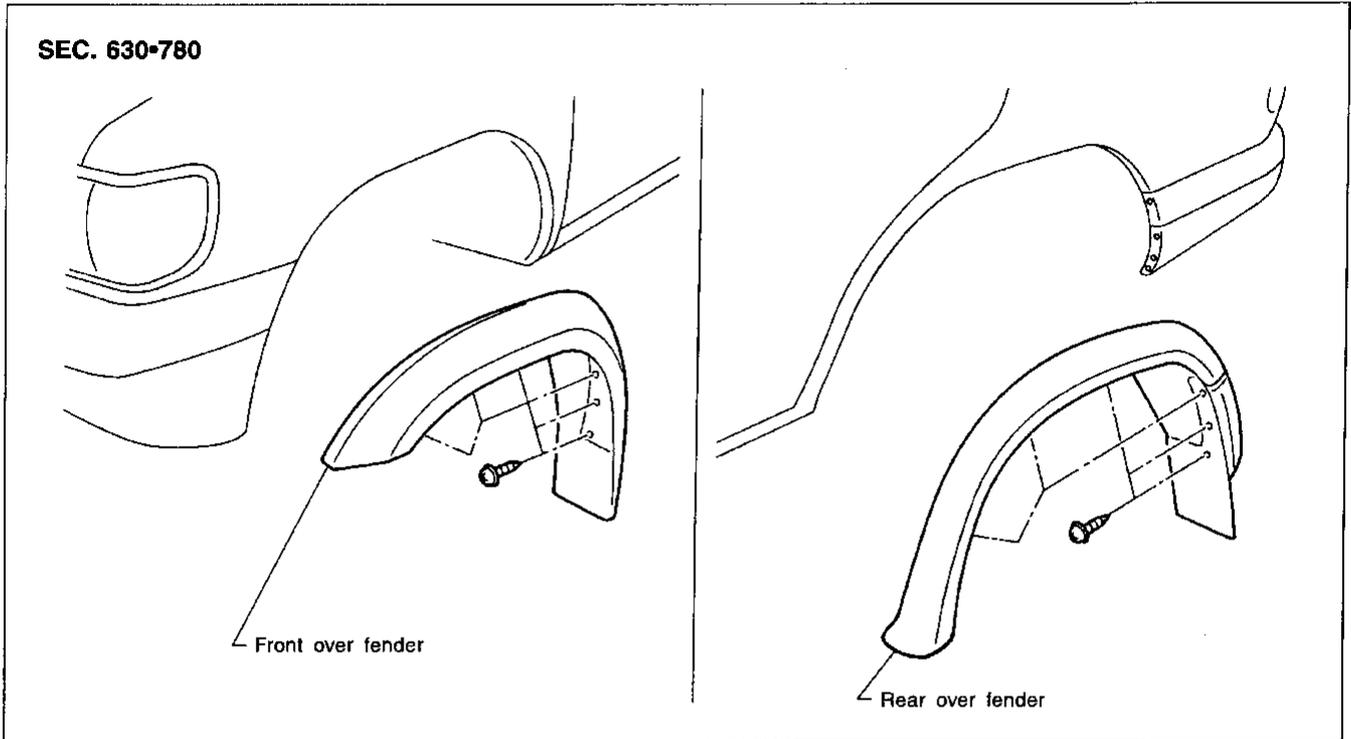
⑱ Rear side window molding

Refer to the applicable sections on the preceding pages.

⑳ Rear combination lamp

Rear combination lamps are installed with nuts.

㉑ Over fender



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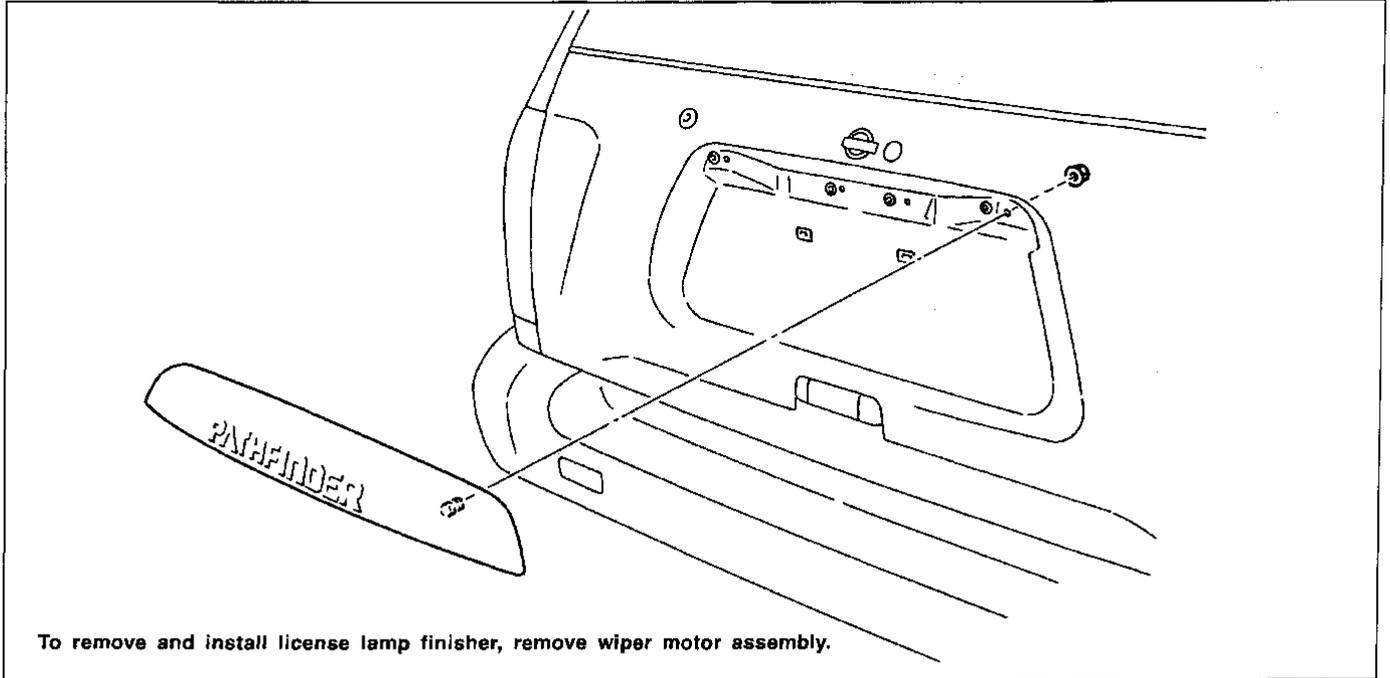
SBT493-A

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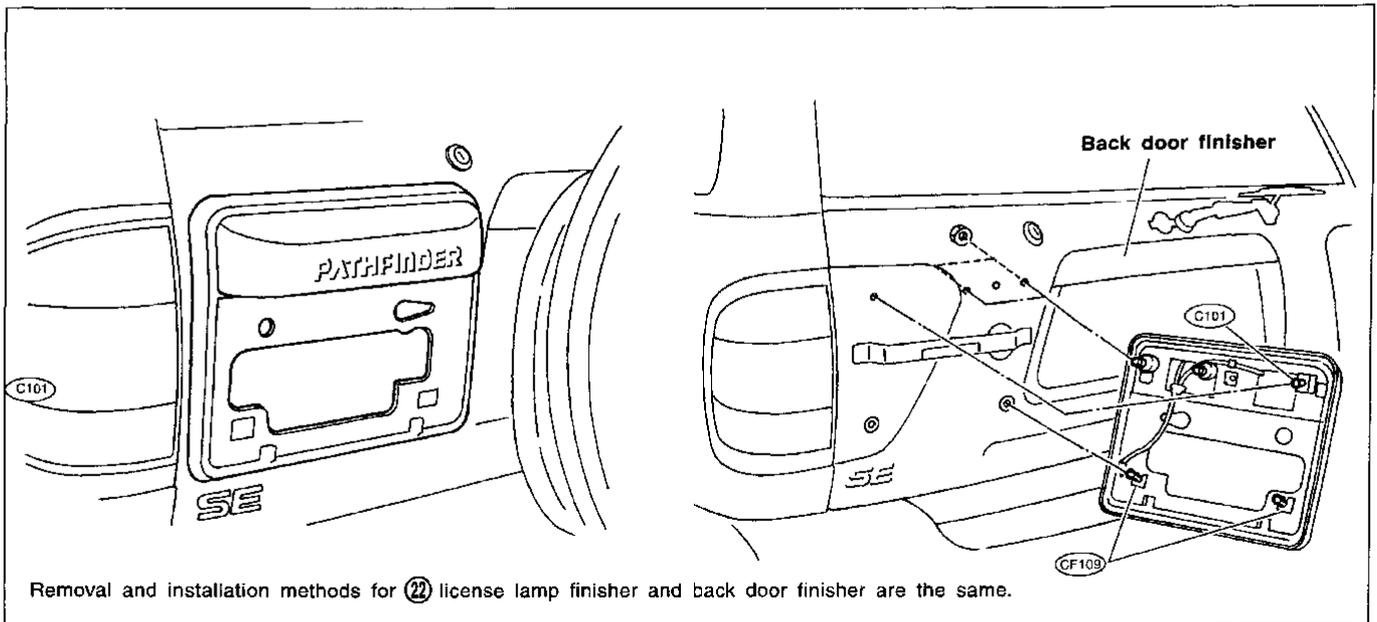
# EXTERIOR

Removal and Installation (Cont'd)

## 22 License lamp finisher (Without spare tire hanger models)



## 23 License lamp finisher (With spare tire hanger models)



SBT731

# FRONT SEAT

Removal and Installation

## Removal and Installation

NABT0014

- When removing or installing the seat trim, carefully handle it to keep dirt out and avoid damage.
- ★ For Wiring Diagram, refer to “POWER SEAT” in EL section.

### CAUTION:

- Before removing the front seat, turn the ignition switch off, disconnect both battery cables and wait at least 3 minutes.
- When checking the power seat circuit for continuity using a circuit tester, do not confuse its connector with the side air bag module connector. Such an error may cause the air bag to deploy.
- Do not drop, tilt, or bump the side air bag module installed in the seat. Always handle it with care.

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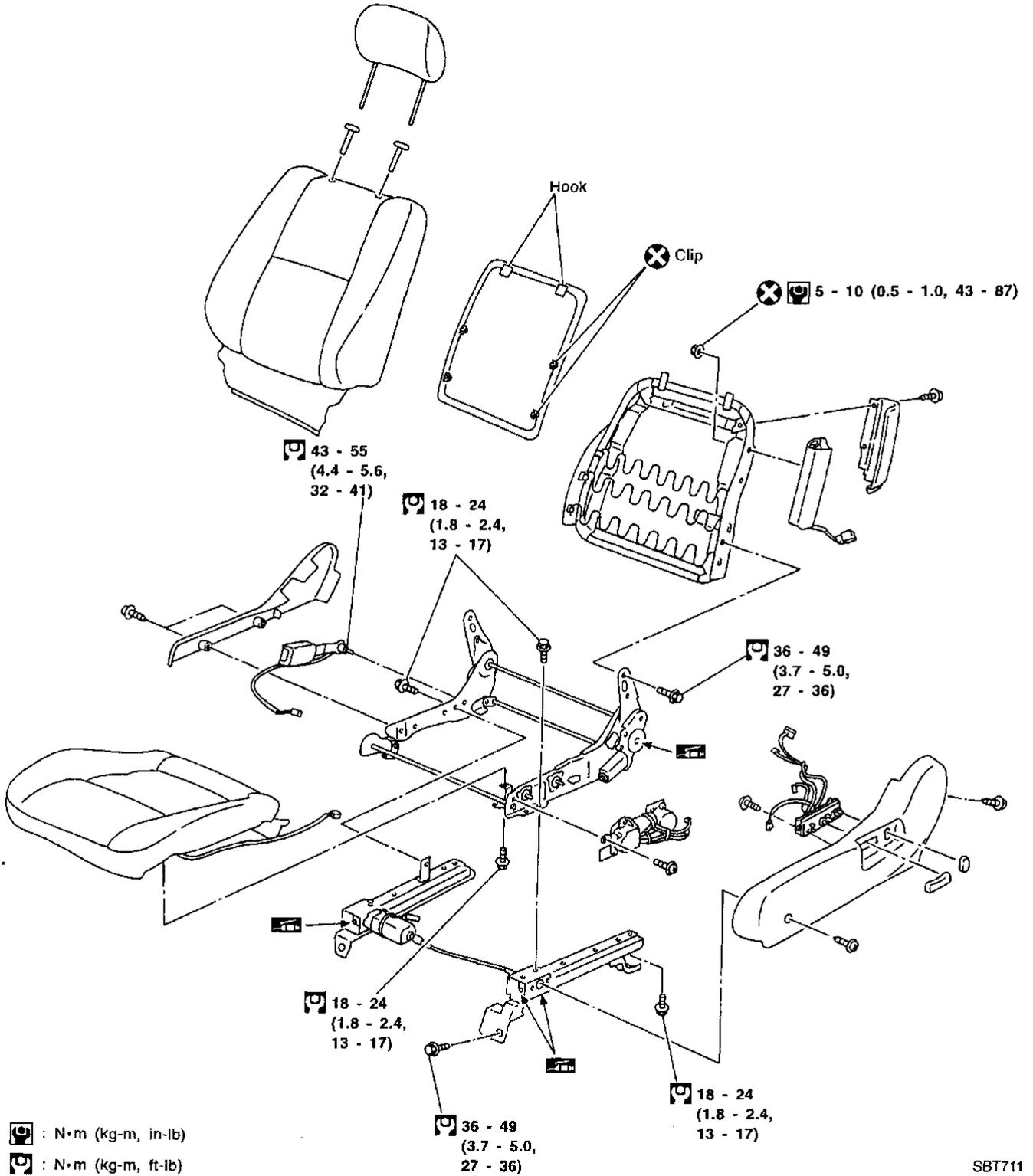
# FRONT SEAT

Removal and Installation (Cont'd)

## POWER SEAT

=NABT0014501

SEC. 870



SBT711

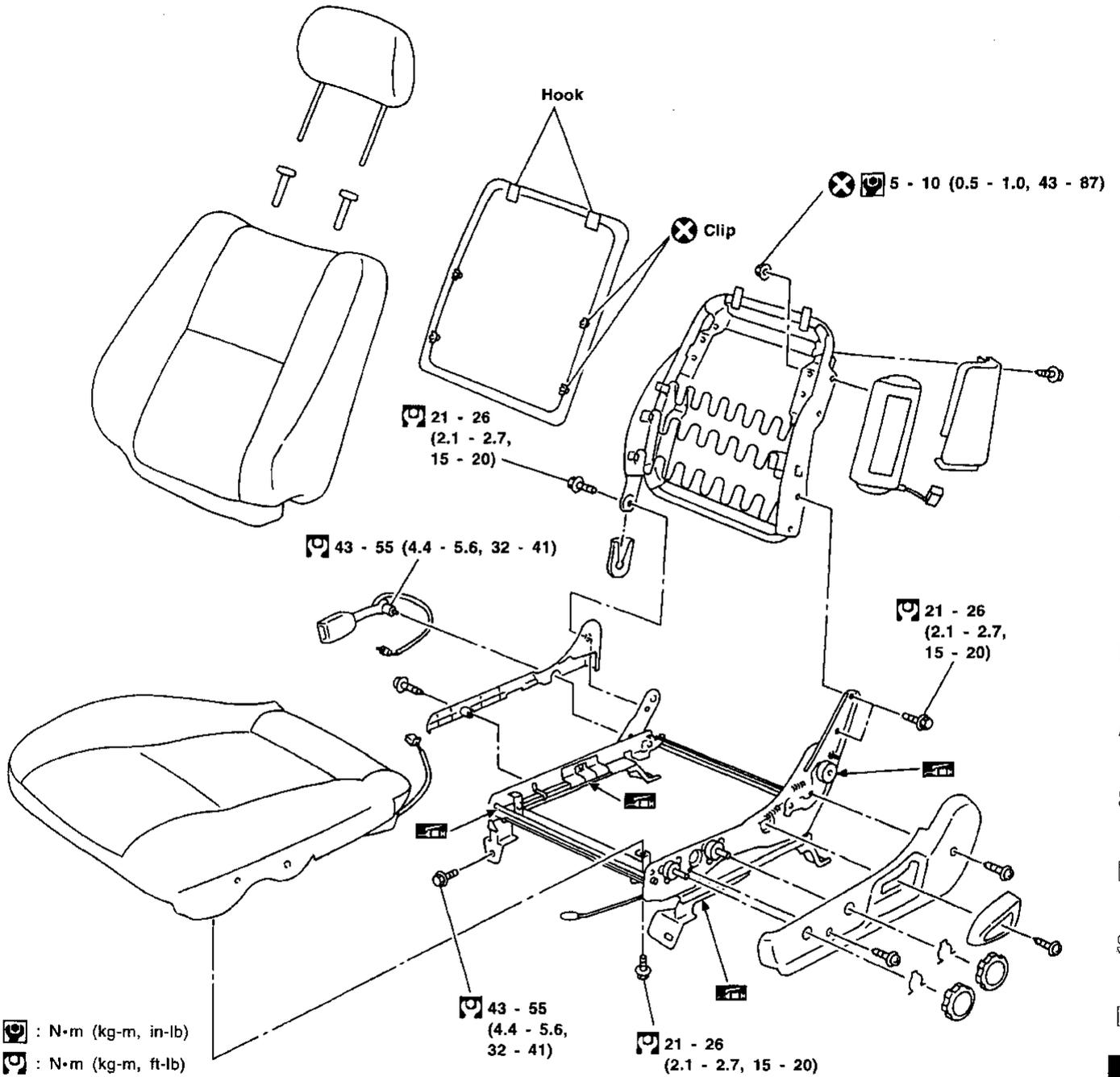
# FRONT SEAT

Removal and Installation (Cont'd)

## MANUAL SEAT

NABT0014S02

### SEC. 870



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SBT698

## FRONT SEAT

*Removal and Installation (Cont'd)*

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### HEATED SEAT

-NABT0014SG3

- When handling seat, be extremely careful not to scratch heating unit.
  - To replace heating unit, seat trim and pad should be separated.
  - Do not use any organic solvent, such as thinner, benzene, alcohol, gasoline, etc. to clean trims.
- ★ For Wiring Diagram, refer to "HEATED SEAT" in EL section.

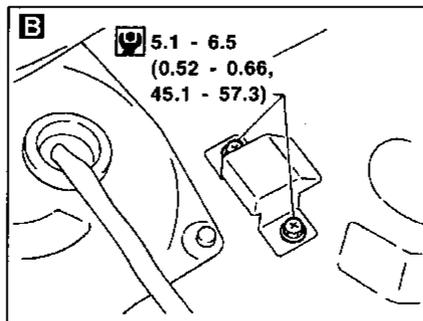
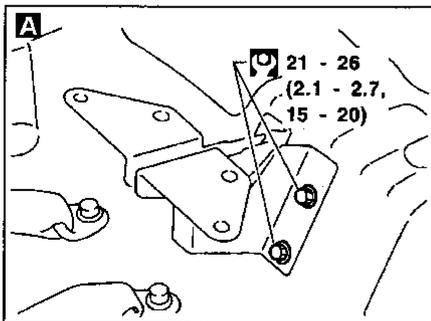
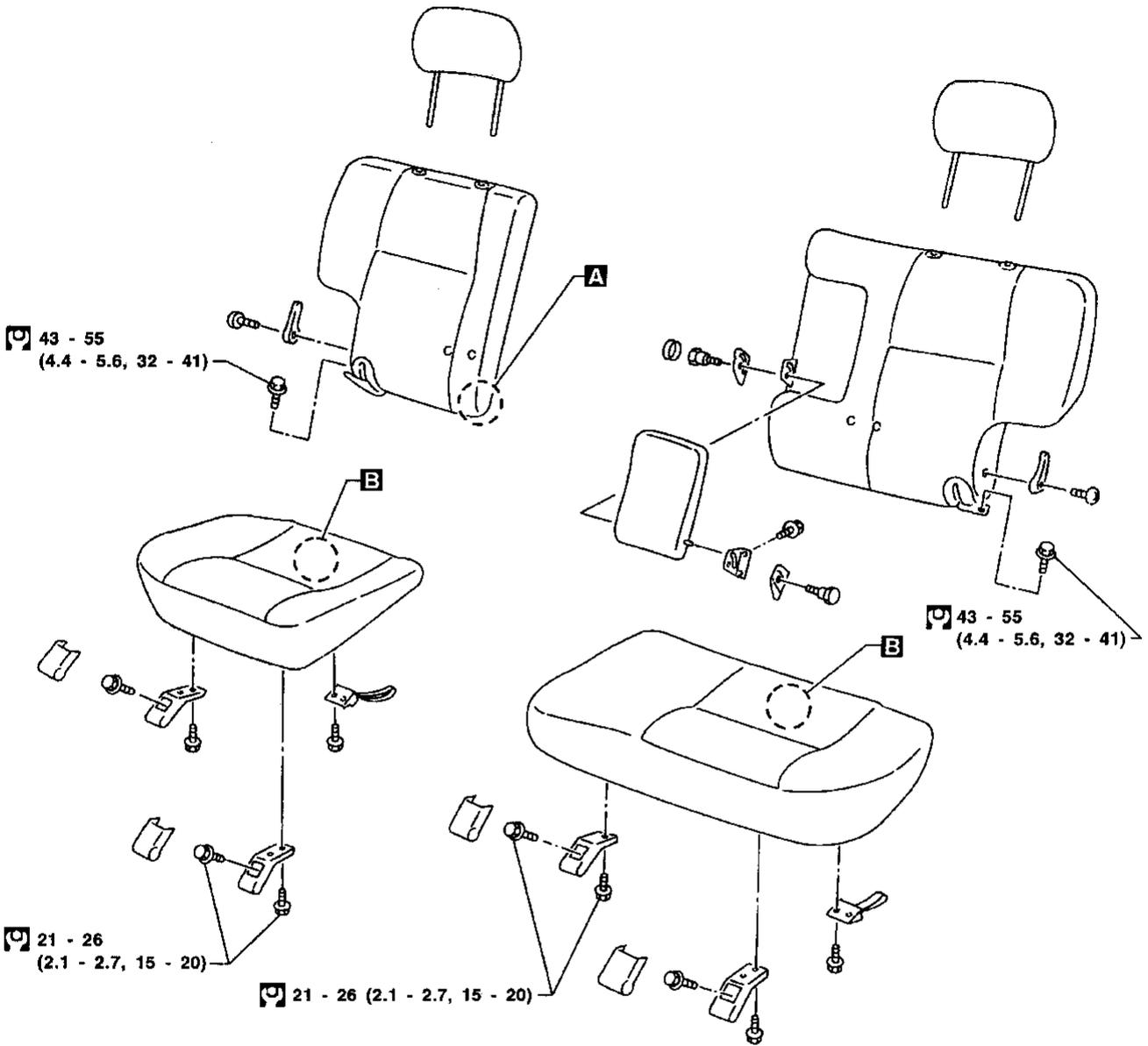
# REAR SEAT

Removal and Installation

## Removal and Installation

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SEC. 870



: N·m (kg-m, in-lb)  
 : N·m (kg-m, ft-lb)

**BT**

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# SUNROOF

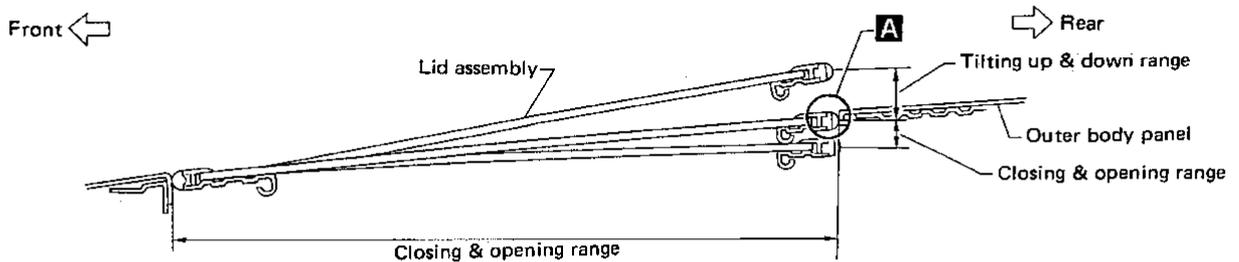
## Adjustment

### Adjustment

NABT0016

**Install motor & limit SW assembly and sunroof rail assembly in the following sequence:**

1. Arrange equal lengths of link and wire assemblies on both sides of sunroof opening.
2. Connect sunroof connector to sunroof switch and positive (+) power supply.
3. Set lid assembly to fully closed position **A** by operating OPEN switch and TILT switch.
4. Fit outer side of lid assembly to the surface of roof on body outer panel.
5. Remove motor, and keep OPEN switch pressed until motor pinion gear reaches the end of its rotating range.
6. Install motor.
7. Check that motor drive gear fits properly in wires.
8. Press TILT-UP switch to check lid assembly for normal tilting.
9. Check sunroof lid assembly for normal operations (tilt-up, tilt-down, open, and close).

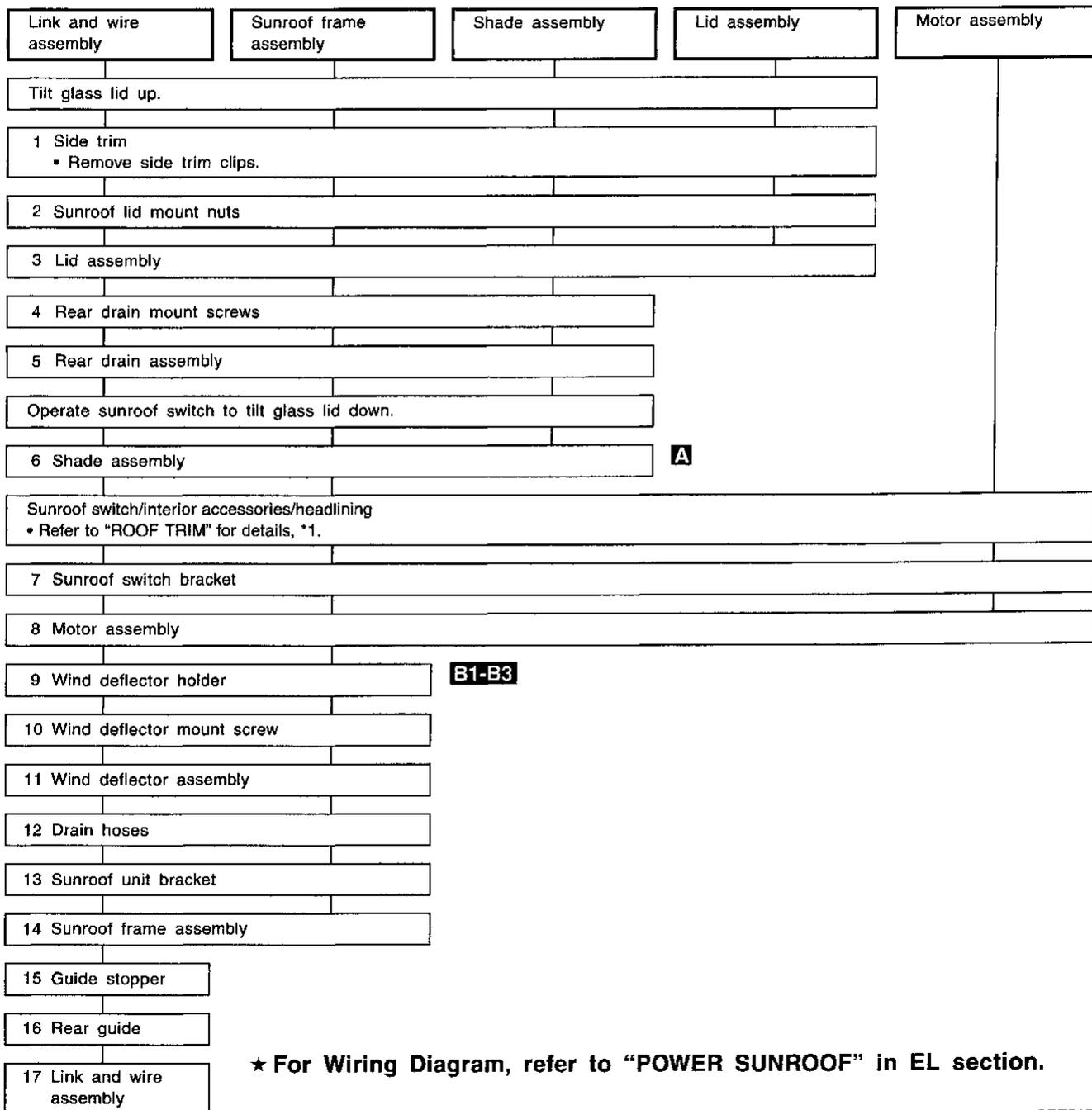


SBF920F

## Removal and Installation

- After any adjustment, check sunroof operation and lid alignment. =NABT0017
- Handle finisher plate and glass lid with care so not to cause damage.
- It is desirable for easy installation to mark each point before removal.

**CAUTION:**  
Always work with a helper.



★ For Wiring Diagram, refer to "POWER SUNROOF" in EL section.

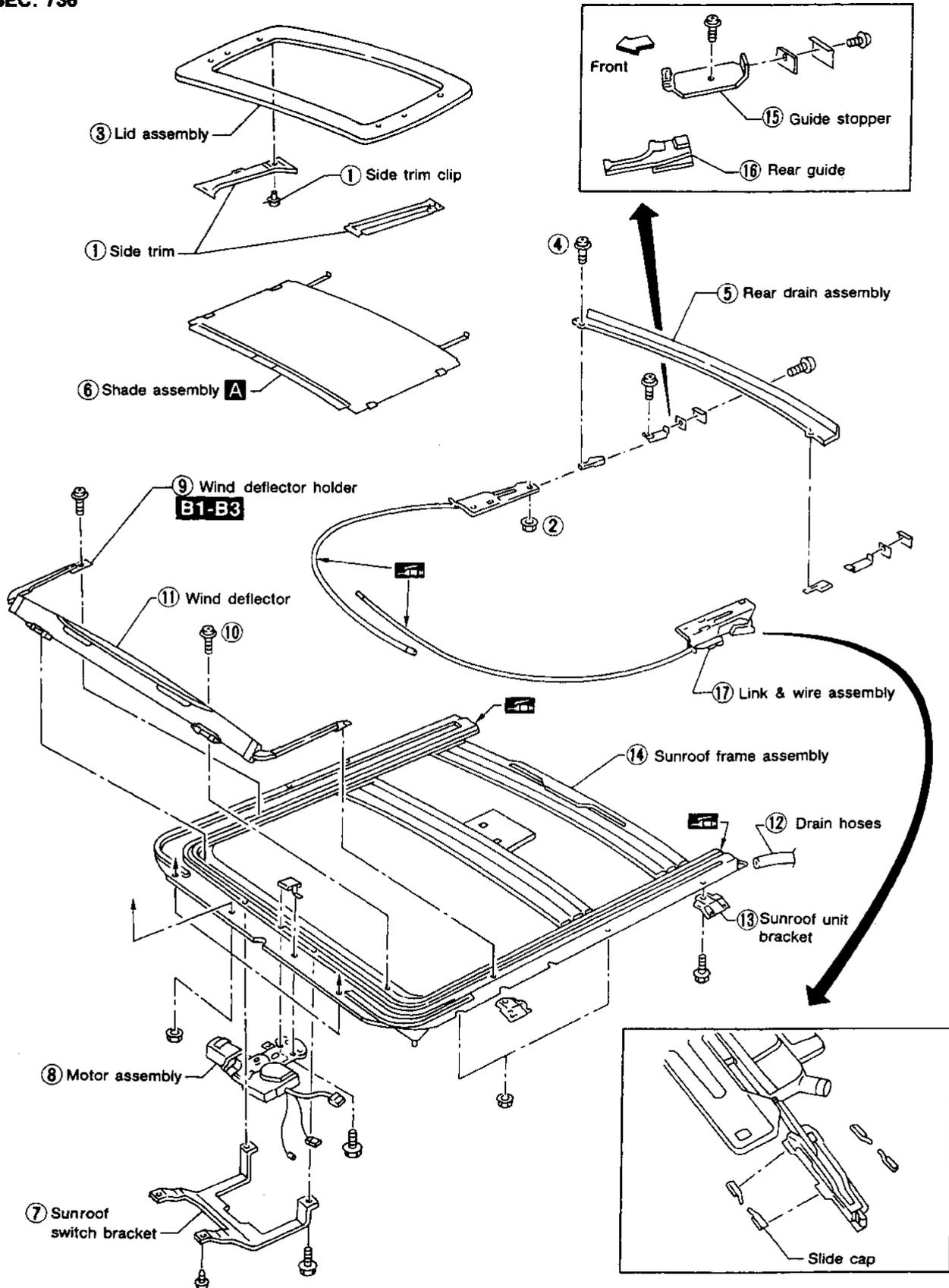
SBT515-B

\*1 BT-22

# SUNROOF

Removal and Installation (Cont'd)

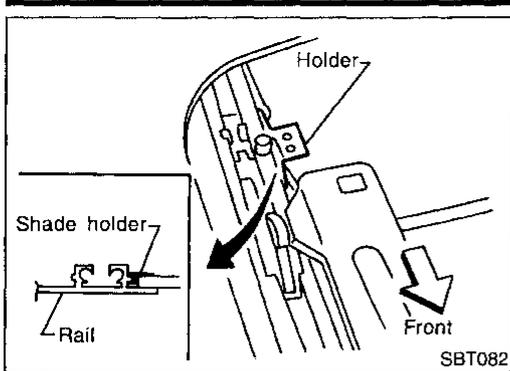
## SEC. 736



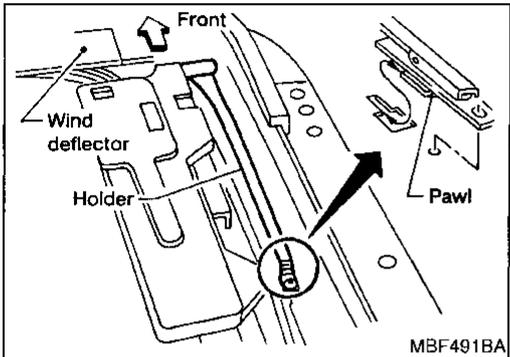
MBF462BG

# SUNROOF

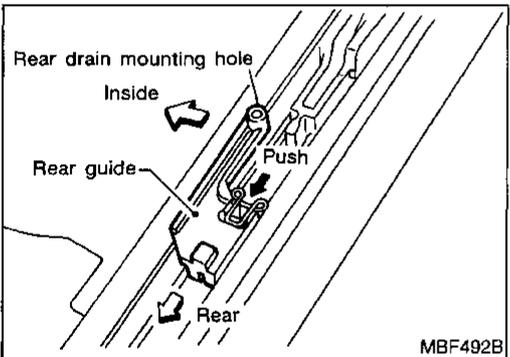
Removal and Installation (Cont'd)



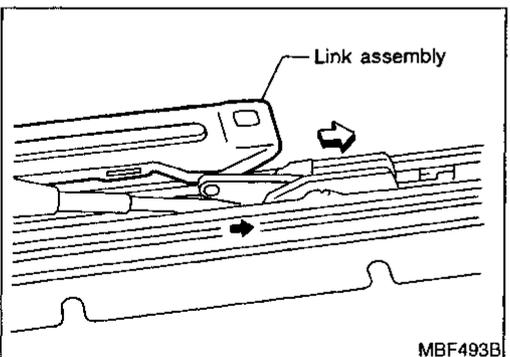
**A** Using flat-bladed screwdriver, pry shade assembly holder off rail. Then pull shade assembly forward to remove it from rail.



**B1** Disengage pawls from rail, then remove wind deflector holder.



**B2** Using flat-bladed screwdriver, pry stopper spring off rail groove. Then slide rear guide backward to remove it from rail.



**B3** Remove wire and link assembly from rail while pushing link back with flat-bladed screwdriver.

GI

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**BT**

HA

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IDX

# SUNROOF

## Trouble Diagnoses DIAGNOSTIC TABLE

-NABT0018

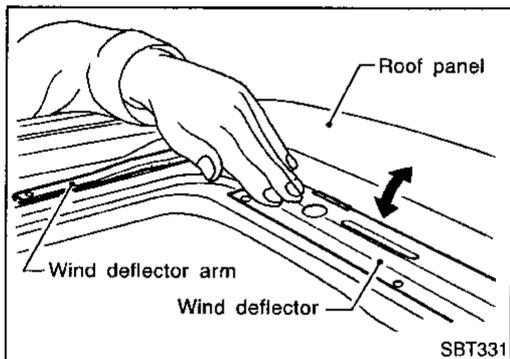
NABT0018S01

**NOTE:**

For diagnosing electric problem, refer to "POWER SUNROOF" in EL section.

	Reference page	Check items (Components)				
		Wind deflector	Adjustment	Drain hoses	Weatherstrip	Link and wire assembly
		BT-40	BT-41	BT-42	BT-42	BT-43
Symptom	Excessive wind noise	1	2		3	
	Water leaks		1	2	3	
	Sunroof rattles		1	4	2	3
	Excessive operation noise		1		2	3

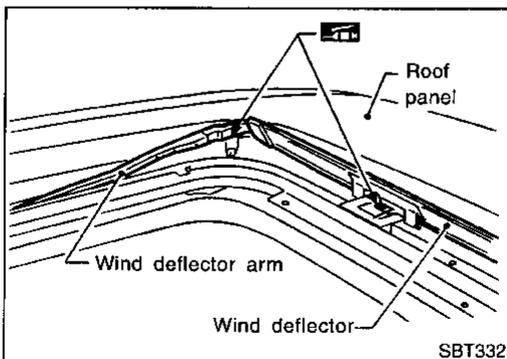
The numbers in this table mean checking order.



### WIND DEFLECTOR

NABT0018S02

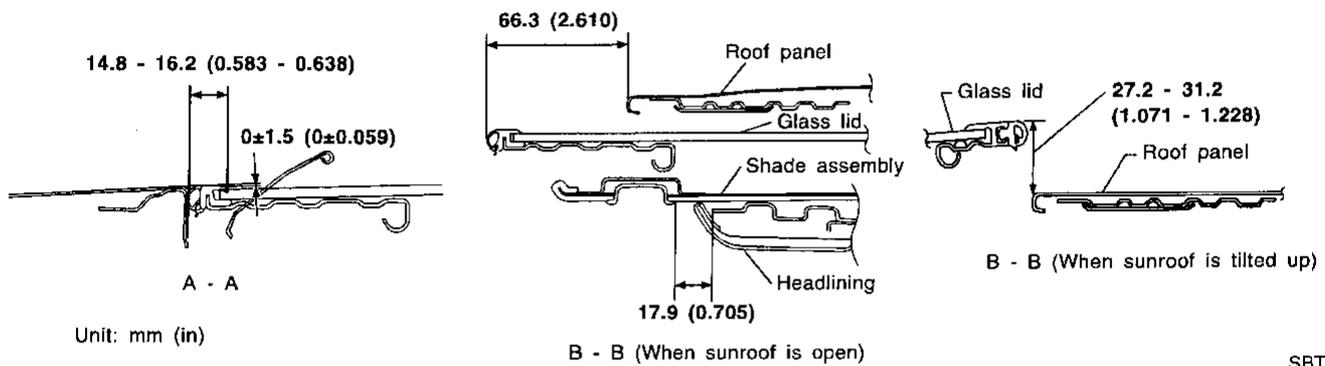
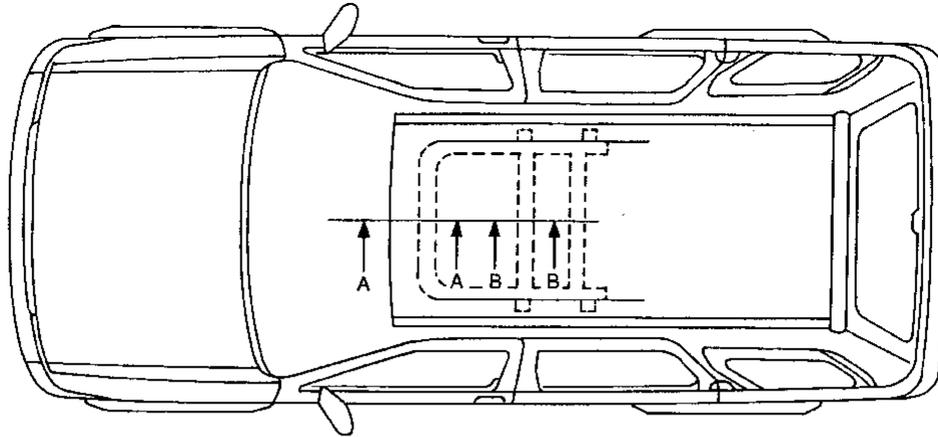
1. Open lid.
2. Check visually for proper installation.
3. Check to ensure a proper amount of petroleum jelly has been applied to wind deflector connection points; apply if necessary.
4. Check that wind deflector is properly retracted by hand. If it is not, remove and visually check condition. (Refer to removal procedures, BT-37.) If wind deflector is damaged, replace with new one. If wind deflector is not damaged, re-install properly.



## ADJUSTMENT

NABT0018S03

SEC. 736



SBT723

If any gap or height difference between glass lid and roof is found, check glass lid fit and adjust as follows:

### Gap Adjustment

NABT0018S0301

1. Open shade assembly.
2. Tilt glass lid up then remove side trim.
3. Loosen glass lid securing nuts (3 each on left and right sides), then tilt glass lid down.
4. Adjust glass lid from outside of vehicle so it resembles "A-A" as shown in the figure above.
5. Tilt glass lid up and down until it is adjusted to "B-B" as shown in the figure above.
6. After adjusting glass lid, tilt glass lid up and tighten nuts.
7. Tilt glass lid up and down several times to check that it moves smoothly.

### Height Difference Adjustment

NABT0018S0302

1. Tilt glass lid up and down.
2. Check height difference between roof panel and glass lid to see if it is as "A-A" as shown in the figure above.
3. If necessary, adjust it by using one of following procedures.
  - Adjust by adding or removing adjustment shim(s) between glass lid and link assembly.
  - If glass lid protrudes above roof panel, add shim(s) or plain washer(s) at sunroof mounting bracket or stud bolt locations to adjust sunroof installation as required.

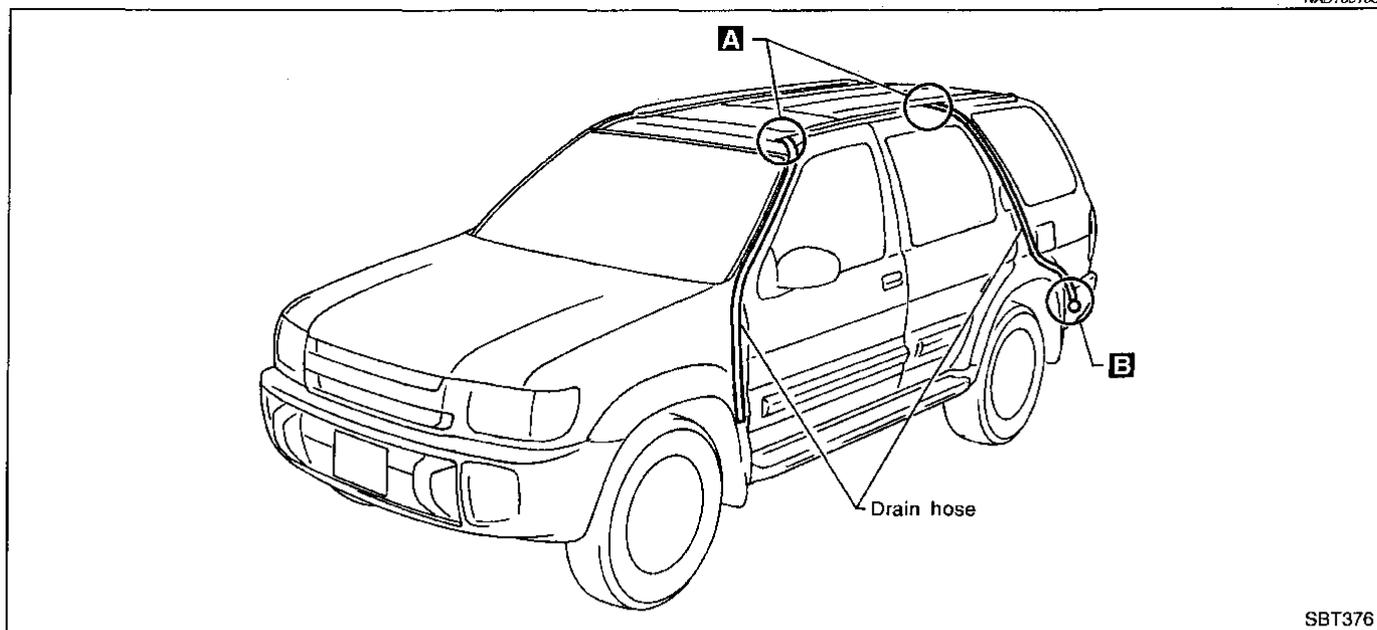
GI  
MA  
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EC  
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MT  
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BT  
HA  
SC  
EL  
IDX

# SUNROOF

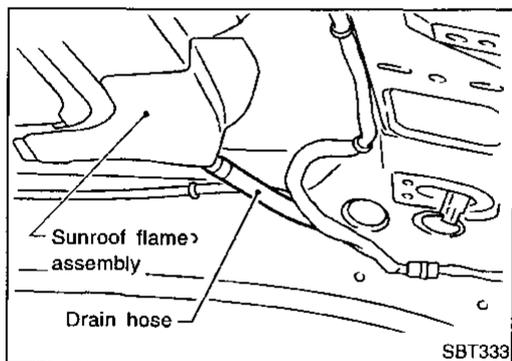
Trouble Diagnoses (Cont'd)

## DRAIN HOSES

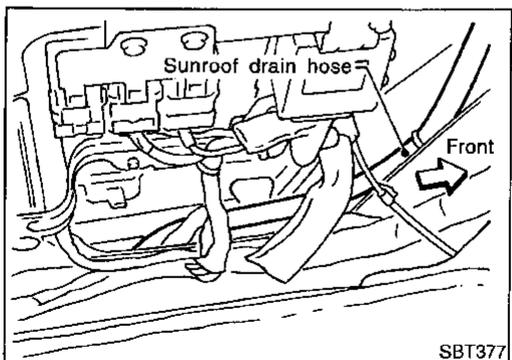
NABT0018S04



SBT376



SBT333



SBT377

1. Remove headlining to access drain hose connections. (Refer to "Removal and Installation" in "ROOF TRIM", BT-22, for detail.)
2. Check visually for proper connections, damage or deterioration. **A** (The figure shows only the front side.)
3. If leakage occurs around luggage room, remove luggage room side trim and check connecting area. Check for proper connection, damage or tear. **B**
4. Remove drain hoses and check visually for any damage, cracks, or deterioration.
5. Pour water into drain hoses and find damaged portion.
  - If any damaged portion is found at each step, replace the damaged part.

## WEATHERSTRIP

NABT0018S05

- In the case of leakage around glass lid, close glass lid and pour water over glass lid to find damaged or gap portion.
1. Remove glass lid assembly. (Refer to removal procedures, BT-37, for details.)
  2. Visually check weatherstrip for proper installation. If a gap exists between glass lid and weatherstrip, check for sufficient amount of butyl seal. If required, remove weatherstrip and apply butyl seal.  
Refer to "EXTERIOR" (BT-24), for details.

# SUNROOF

Trouble Diagnoses (Cont'd)

3. Check weatherstrip visually for any damage, deterioration, or flattening. GI
  - If any damage is found, replace weatherstrip. MA

**CAUTION:**

Do not remove weatherstrip except when replacing, or filling up butyl seal. EM

## LINK AND WIRE ASSEMBLY

NABT0018506

**NOTE:**

Before replacing a suspect part, carefully ensure it is the source of noise being experienced. LC

1. Check link to determine if coating film has peeled off to such an extent that substrate is visible. Check also to determine if link is the source of noise. If it is, replace it. EC
2. Visually check to determine if a sufficient amount of petroleum jelly has been applied to wire or rail groove. If not, add petroleum jelly as required. FE
3. Check wire for any damage or deterioration. If any damage is found, remove rear guide (refer to removal procedures, BT-37 for details), then replace wire. CL

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RS

**BT**

HA

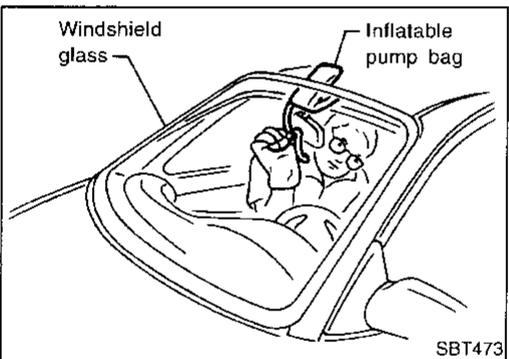
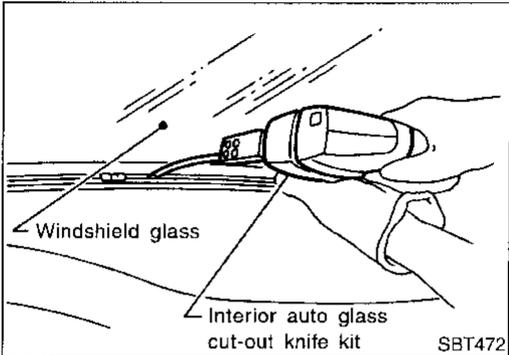
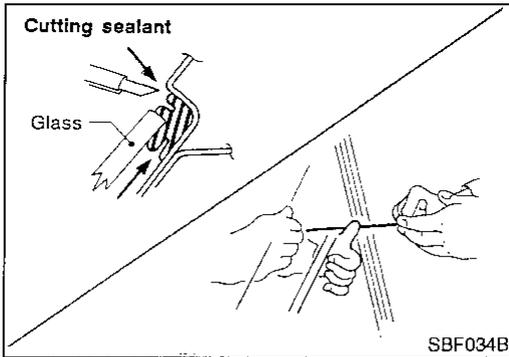
SC

EL

IDX

# WINDSHIELD AND WINDOWS

## Removal and Installation



## Removal and Installation

### REMOVAL

After removing moldings, remove glass using piano wire or power cutting tool and an inflatable pump bag.

### WARNING:

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

### CAUTION:

- Be careful not to scratch the glass when removing.
- Do not set or stand the glass on its edge. Small chips may develop into cracks.

### INSTALLATION

- Use a genuine Nissan Urethane Adhesive Kit or equivalent and follow the instructions furnished with it.
- While the urethane adhesive is curing, open a door window. This will prevent the glass from being forced out by passenger compartment air pressure when a door is closed.
- The molding must be installed securely so that it is in position and leaves no gap.
- Inform the customer that the vehicle should remain stationary until the urethane adhesive has completely cured (preferably 24 hours). Curing time varies with temperature and humidity.

### WARNING:

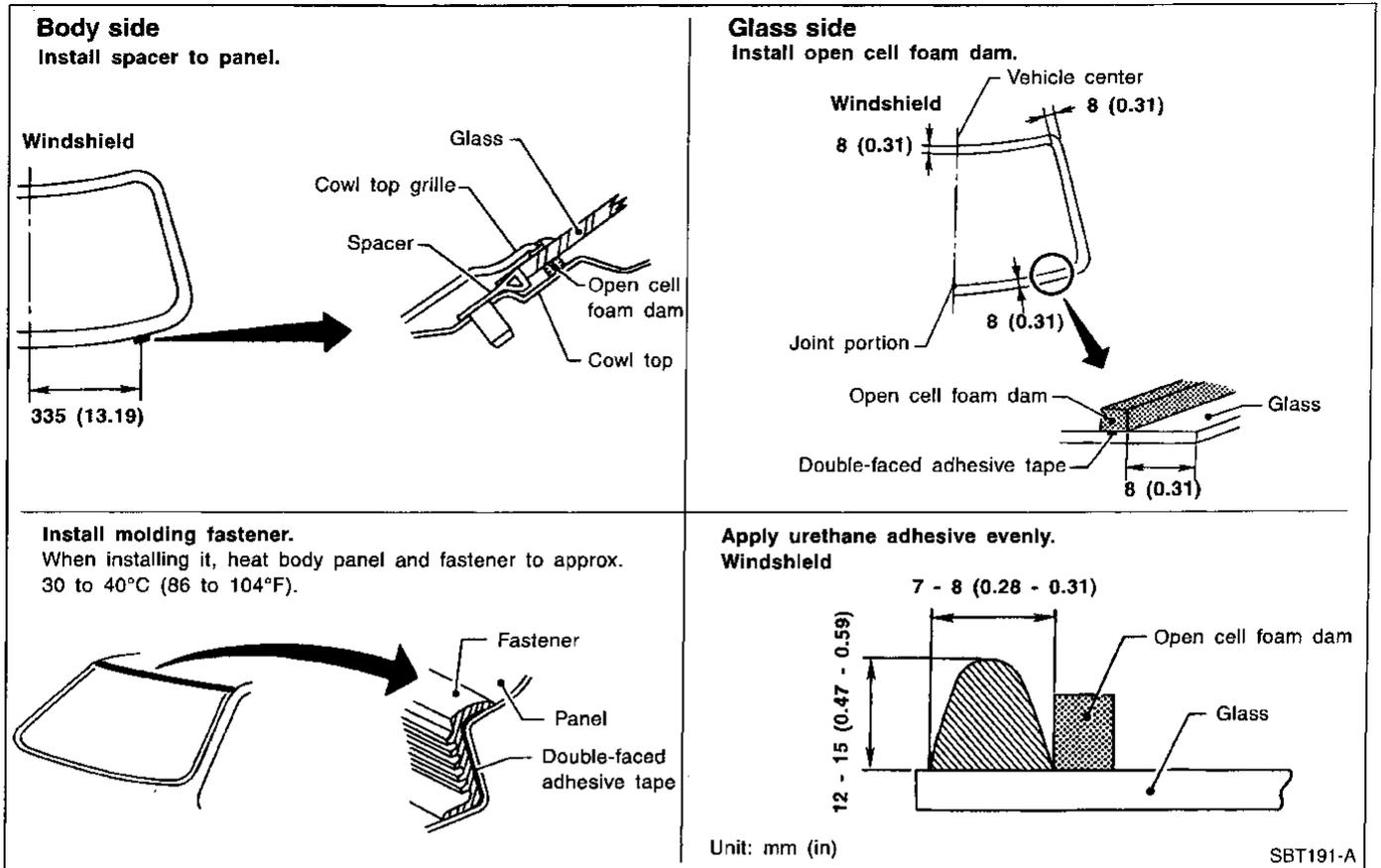
- Keep heat and open flames away as primers and adhesive are flammable.
- The materials contained in the kit are harmful if swallowed, and may irritate skin and eyes. Avoid contact with the skin and eyes.
- Use in an open, well ventilated location. Avoid breathing the vapors. They can be harmful if inhaled. If affected by vapor inhalation, immediately move to an area with fresh air.
- Driving the vehicle before the urethane adhesive has completely cured may affect the performance of the windshield in case of an accident.

### CAUTION:

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

## WINDSHIELD

NABT0019S03



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IDX

### Repairing Water Leaks for Windshield

NABT0019S0301

Leaks can be repaired without removing and reinstalling glass. If water is leaking between the urethane adhesive material and body or glass, determine the extent of leakage. This can be done by applying water to the windshield area while pushing glass outward. To stop the leak, apply primer (if necessary) and then urethane adhesive to the leak point.

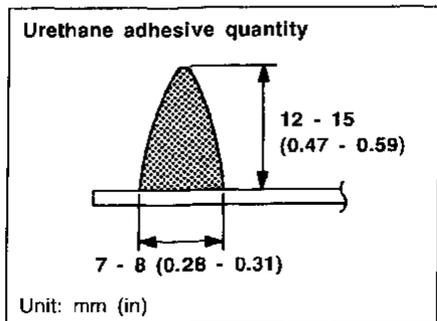
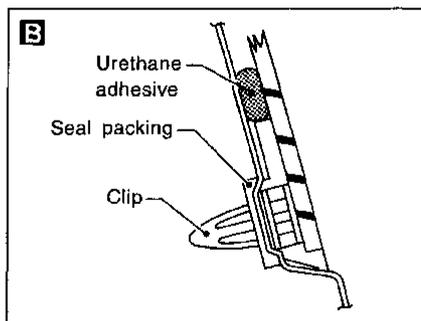
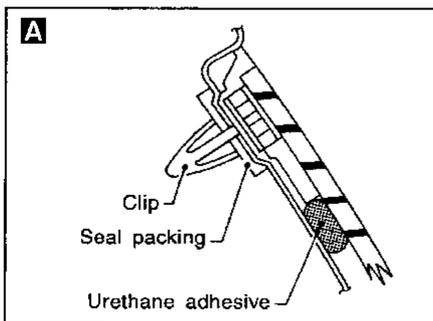
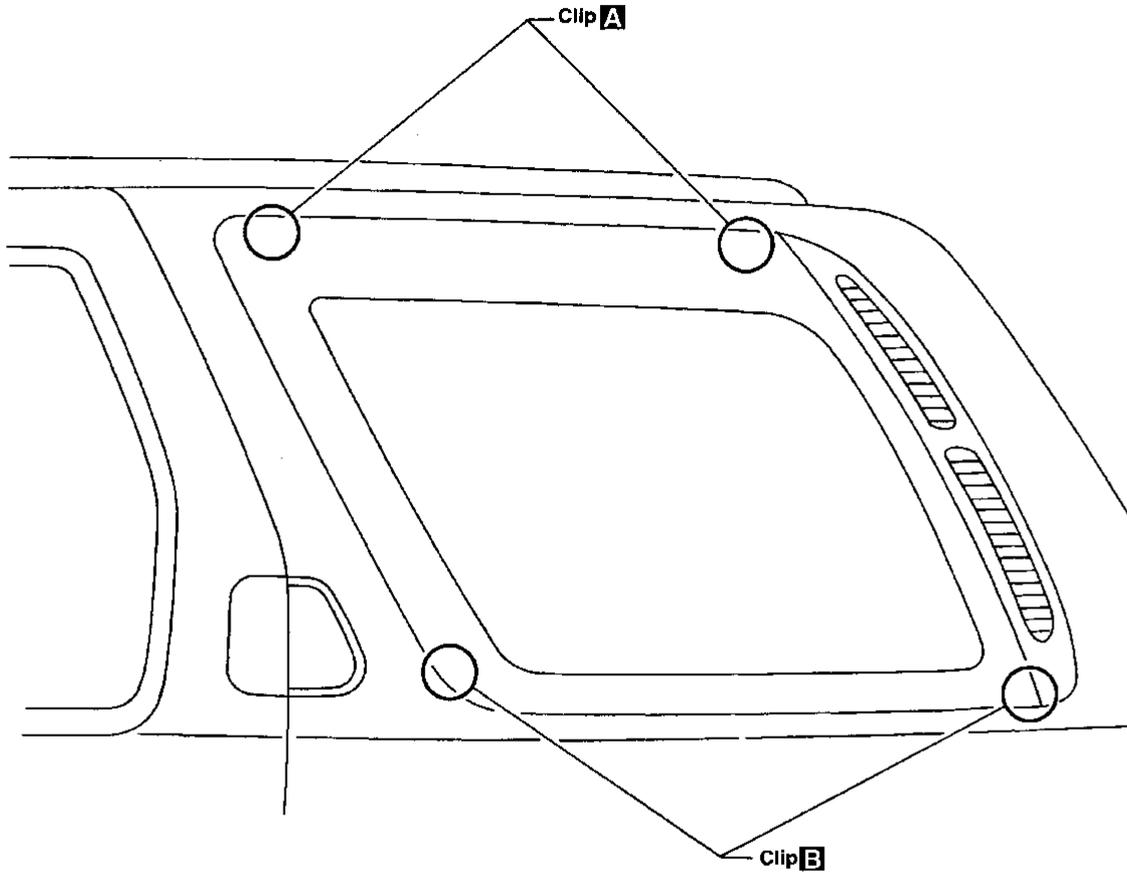
# WINDSHIELD AND WINDOWS

Removal and Installation (Cont'd)

## REAR SIDE WINDOW

NABT0019S04

SEC. 830



SBT359-A

# DOOR MIRROR

Removal and Installation

## Removal and Installation

NAB70020

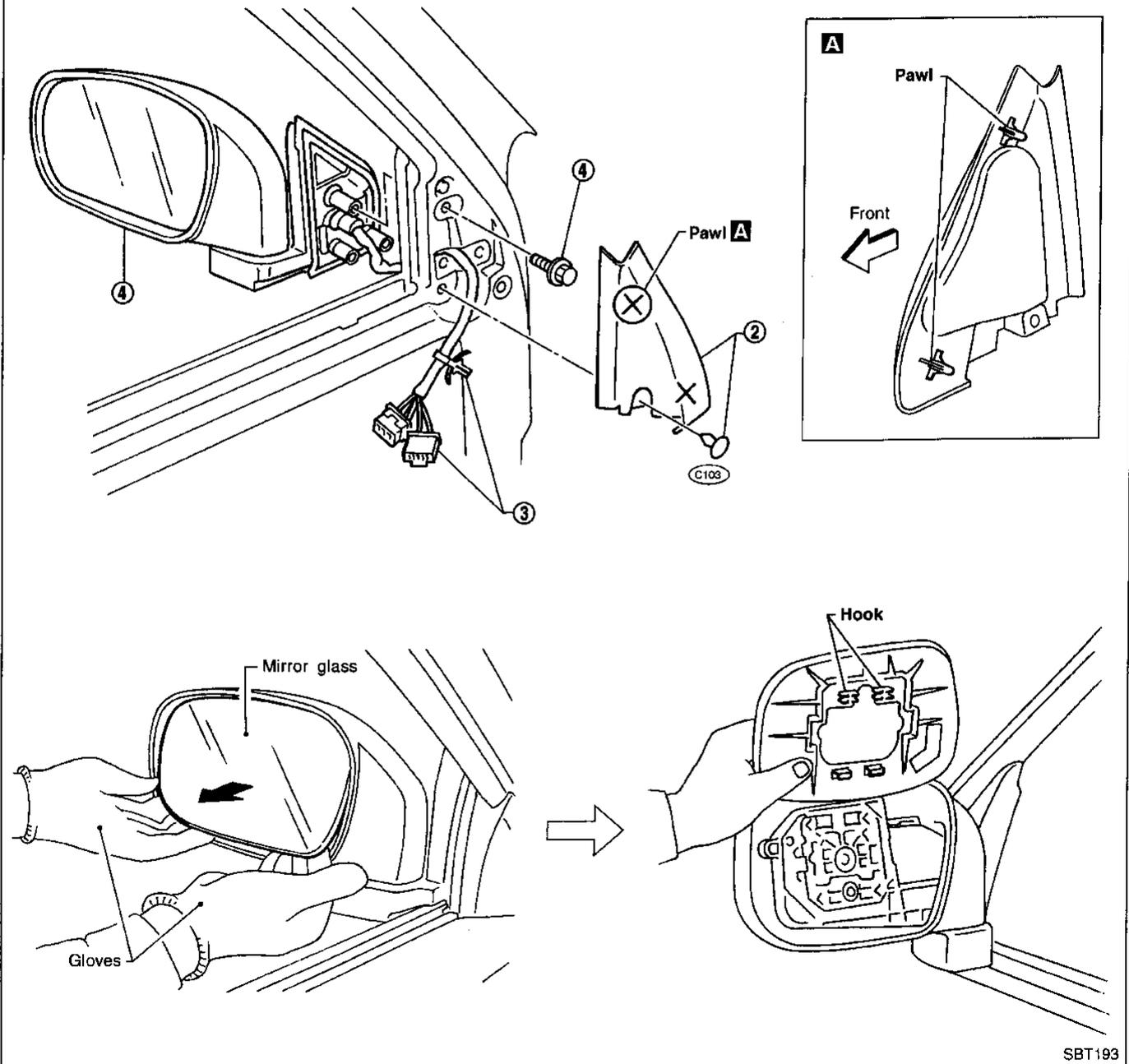
### CAUTION:

Be careful not to scratch door rearview mirror body.

★ For Wiring Diagram, refer to "POWER DOOR MIRROR" in EL section.

1. Remove door trim. Refer to "DOOR TRIM" for details, BT-19.
2. Remove clip securing inner cover from front corner of door.
3. Disconnect door mirror harness connector and clip.
4. Remove bolts securing door mirror, then remove door mirror assembly.

### SEC. 963



GI

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**BT**

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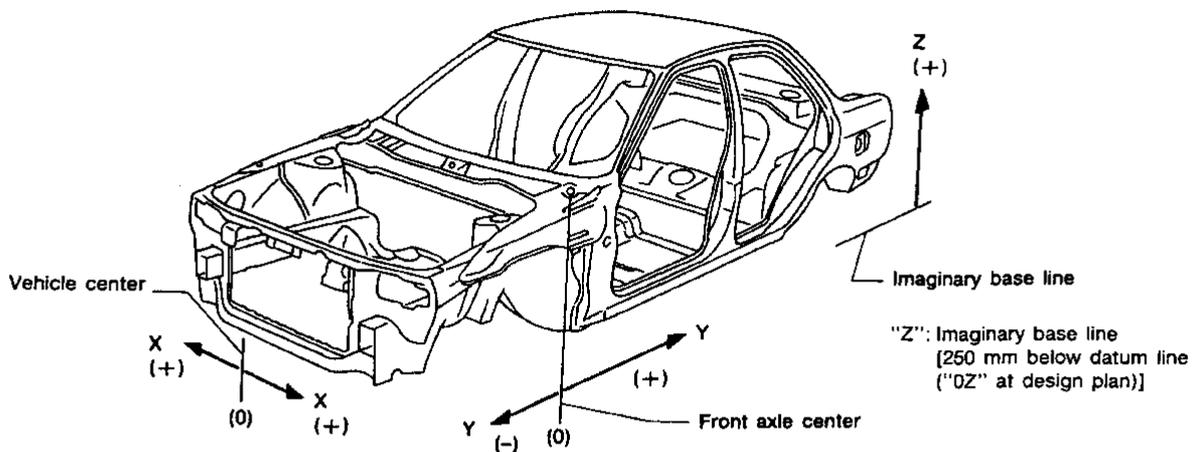
# BODY (ALIGNMENT)

Alignment

## Alignment

NABT0021

- All dimensions indicated in figures are actual ones.
- When using a tracking gauge, adjust both pointers to equal length. Then check the pointers and gauge itself to make sure there is no free play.
- When a measuring tape is used, check to be sure there is no elongation, twisting or bending.
- Measurements should be taken at the center of the mounting holes.
- An asterisk (★) following the value at the measuring point indicates that the measuring point on the other side is symmetrically the same value.
- The coordinates of the measurement points are the distances measured from the standard line of "X", "Y" and "Z".



SBF874GD

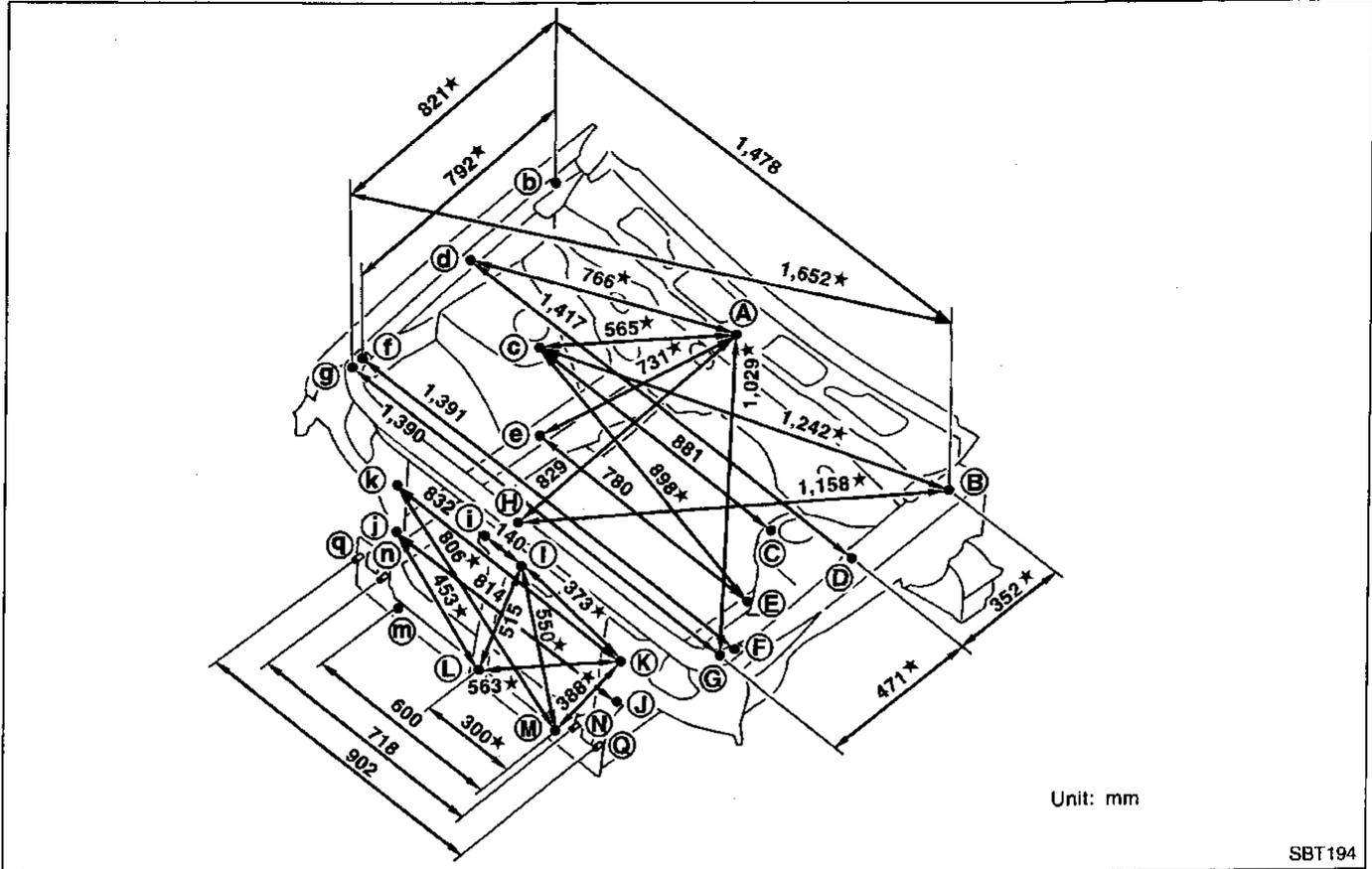
# BODY (ALIGNMENT)

Alignment (Cont'd)

## ENGINE COMPARTMENT Measurement

NABT0021S01

NABT0021S0101



Unit: mm

SBT 194

- GI
- MA
- EM
- LC
- EC
- FE
- CL
- MT
- AT
- TF
- PD
- AX
- SU
- BR
- ST
- RS
- BT**
- HA
- SC
- EL
- IDX

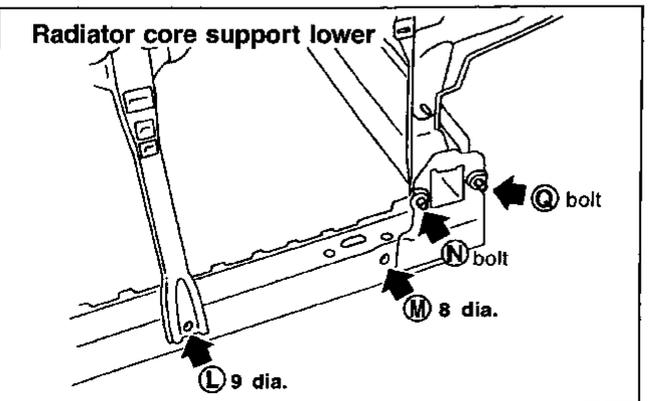
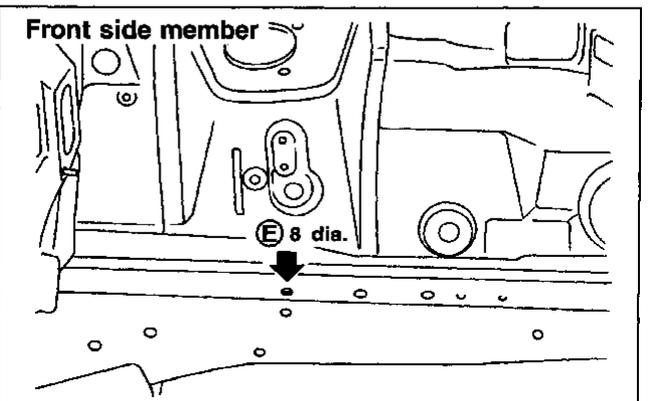
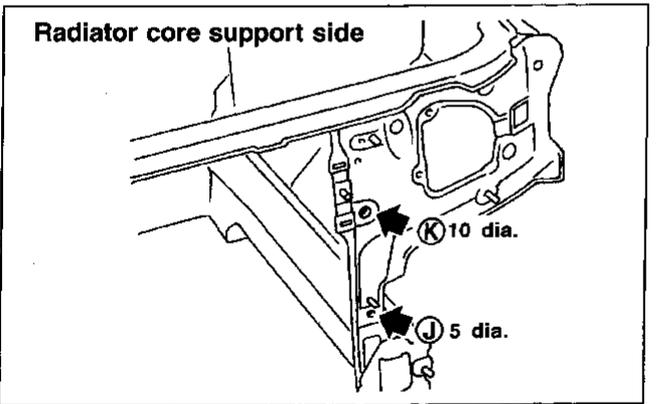
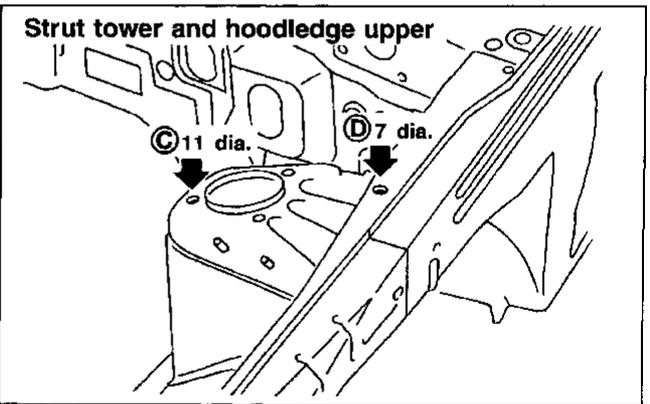
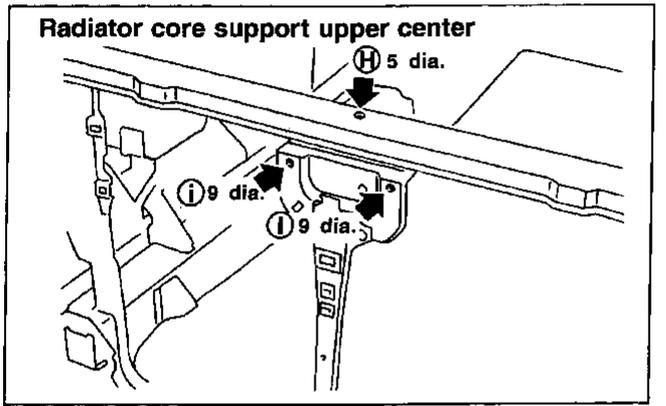
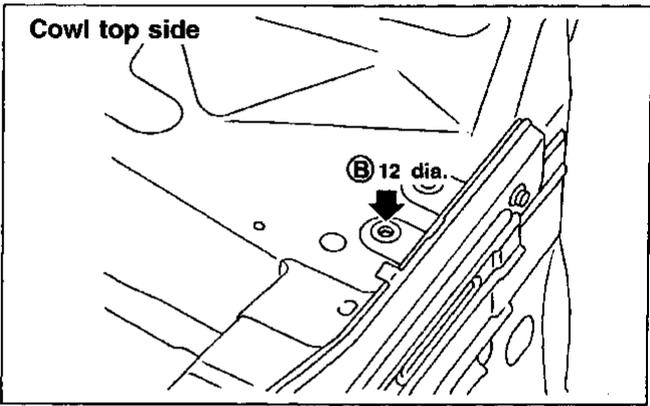
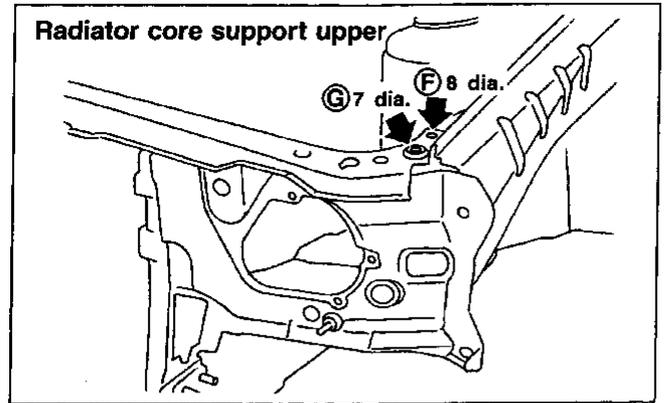
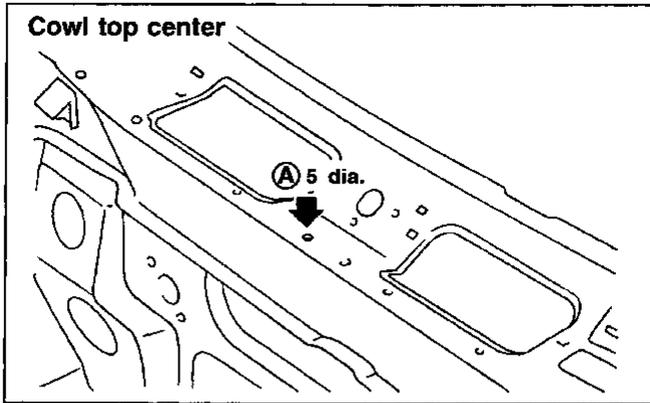
# BODY (ALIGNMENT)

Alignment (Cont'd)

## Measurement Points

NABT0021S0102

Unit: mm



SBT195

# BODY (ALIGNMENT)

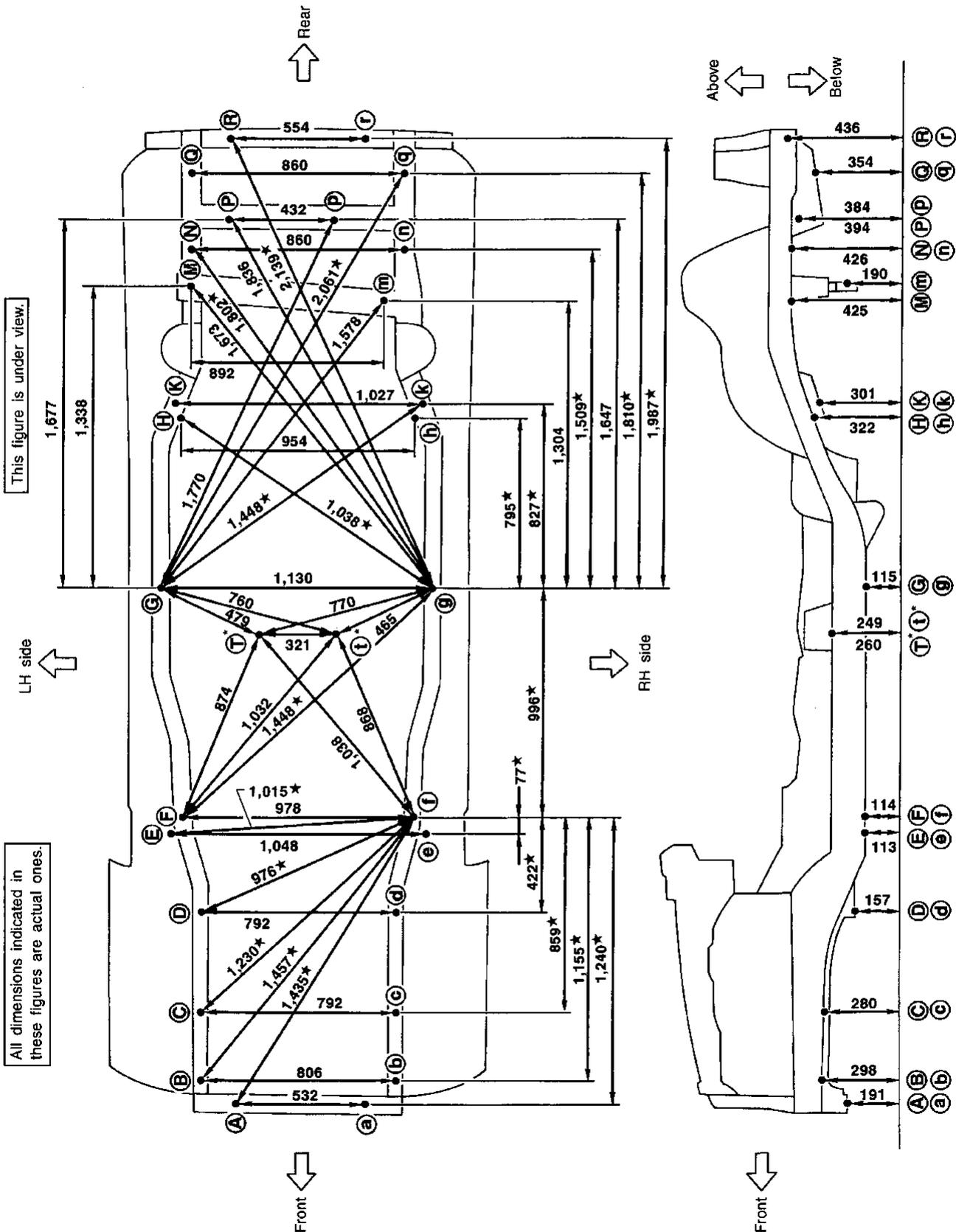
Alignment (Cont'd)

## UNDERBODY Measurement

NABT0021S02

NABT0021S0201

- GI
- MA
- EM
- LC
- EC
- FE
- CL
- MT
- AT
- TF
- PD
- AX
- SU
- BR
- ST
- RS
- BT**
- HA
- SC
- EL
- IDX

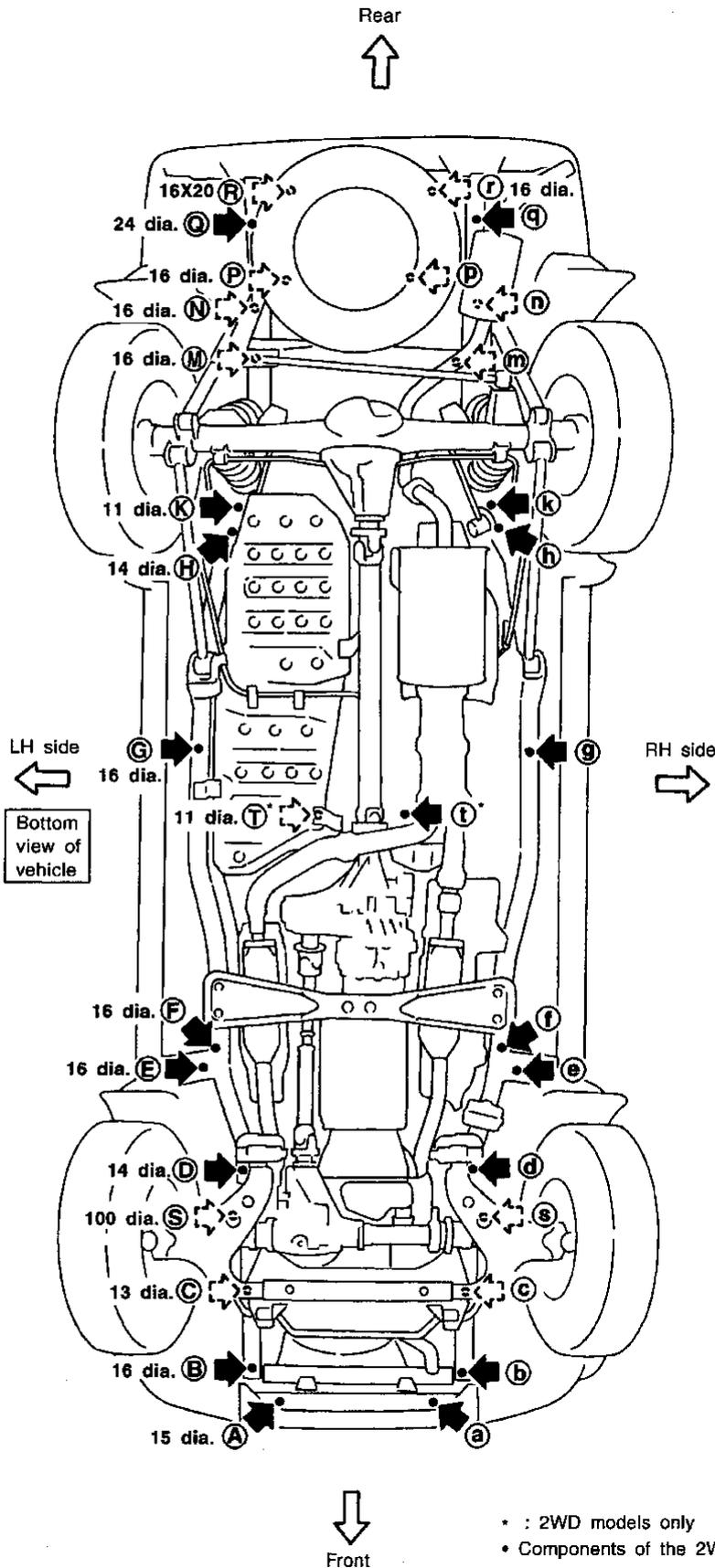


# BODY (ALIGNMENT)

Alignment (Cont'd)

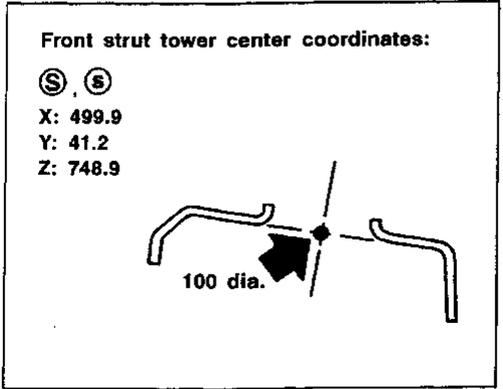
## Measurement Points

NAB70021S0202



Front coordinates:	Rear coordinates:	
<b>(A, a)</b> X: 266 Y: -580.4 Z: 191.4	<b>(G, g)</b> X: 565 Y: 1,630 Z: 115	<b>(P)</b> X: -142 Y: 3,230 Z: 383.6
<b>(B, b)</b> X: 403 Y: -500 Z: 297.7	<b>(H, h)</b> X: 476.9 Y: 2,392.6 Z: 321.9	<b>(Q, q)</b> X: 430 Y: 3,419.3 Z: 353.6
<b>(C, c)</b> X: 396 Y: -201 Z: 279.7	<b>(K, k)</b> X: 513.3 Y: 2,434.5 Z: 301.4	<b>(R, r)</b> X: 277 Y: 3,570 Z: 435.6
<b>(D, d)</b> X: 396 Y: 228 Z: 156.7	<b>(M)</b> X: 446.1 Y: 2,960.2 Z: 190	<b>(T*)</b> X: 154.5 Y: 1,431 Z: 259.6
<b>(E, e)</b> X: 524 Y: 568 Z: 112.7	<b>(m)</b> X: -350 Y: 2,878 Z: 424.8	<b>(I*)</b> X: -166.5 Y: 1,431 Z: 248.6
<b>(F, f)</b> X: 489 Y: 637 Z: 114.1	<b>(N, n)</b> X: 430 Y: 3,100 Z: 426.2	
	<b>(P)</b> X: 290 Y: 3,230 Z: 394.1	

Unit: mm



\* : 2WD models only  
• Components of the 2WD system are the same as for the 4WD.