

## SECTION **BT**

### CONTENTS

<b>PRECAUTIONS</b> .....	2	<b>2ND SEAT</b> .....	32
Service Notice.....	2	Removal and Installation .....	32
Supplemental Restraint System (SRS)		CAPTAIN'S CHAIR.....	32
"AIR BAG".....	2	BENCH .....	33
<b>CLIP AND FASTENER</b> .....	3	<b>3RD SEAT</b> .....	34
Description.....	3	Removal and Installation .....	34
<b>BODY FRONT END</b> .....	6	BENCH .....	34
Removal and Installation .....	6	3RD SEAT SLIDING RAIL .....	35
FRONT BUMPER ASSEMBLY .....	6	<b>SUNROOF</b> .....	39
<b>BODY REAR END AND OPENER</b> .....	9	Adjustment.....	39
Removal and Installation .....	9	Removal and Installation .....	40
REAR BUMPER ASSEMBLY .....	9	Trouble Diagnoses.....	42
<b>FRONT DOOR</b> .....	12	DIAGNOSTIC TABLE.....	42
Overhaul .....	12	ADJUSTMENT.....	42
<b>SLIDING DOOR</b> .....	13	DRAIN HOSES.....	43
Overhaul .....	13	WEATHERSTRIP .....	44
<b>INSTRUMENT PANEL ASSEMBLY</b> .....	15	GUIDE RAIL ASSEMBLY.....	44
Removal and Installation .....	15	<b>WINDSHIELD AND WINDOWS</b> .....	45
<b>SIDE AND FLOOR TRIM</b> .....	19	Removal and Installation .....	45
Removal and Installation .....	19	REMOVAL.....	45
<b>DOOR TRIM</b> .....	22	INSTALLATION.....	45
Removal and Installation .....	22	WINDSHIELD AND REAR WINDOW .....	46
<b>BACK DOOR TRIM</b> .....	23	REAR SIDE WINDOW.....	46
Removal and Installation .....	23	<b>DOOR MIRROR</b> .....	48
<b>ROOF TRIM</b> .....	24	Removal and Installation .....	48
Removal and Installation .....	24	<b>REAR VIEW MIRROR</b> .....	49
<b>EXTERIOR</b> .....	26	Removal.....	49
Removal and Installation .....	26	Installation.....	49
<b>FRONT SEAT</b> .....	30	<b>BODY (ALIGNMENT)</b> .....	50
Removal and Installation .....	30	Alignment.....	50
POWER SEAT.....	30	ENGINE COMPARTMENT.....	51
MANUAL SEAT.....	31	UNDERBODY.....	53

# PRECAUTIONS

## Service Notice

---

### Service Notice

NDBT0001

- When removing or installing various parts, place a cloth or padding onto the vehicle body to prevent scratches.
- 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”

NDBT0002

The Supplemental Restraint System “AIR BAG”, used along with a seat belt, helps to reduce the risk or severity of injury to the driver and front passenger in a frontal collision. The Supplemental Restraint System consists of air bag modules (located in the center of the steering wheel and on the instrument panel on the passenger side), a diagnosis sensor unit, warning lamp, wiring harness and spiral cable. 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 should 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.**
- **Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses are covered with yellow insulation either just before the harness connectors or for the complete harness, for easy identification.**

# CLIP AND FASTENER

Description

## Description

NOBT0003


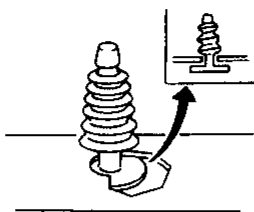
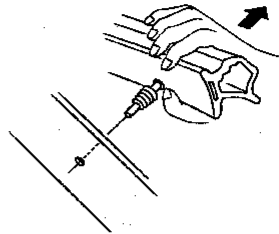

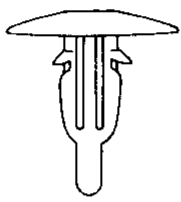
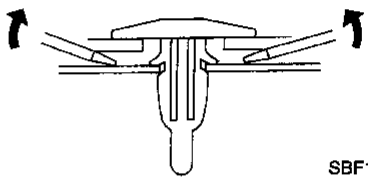

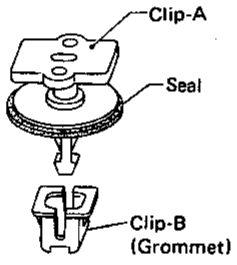
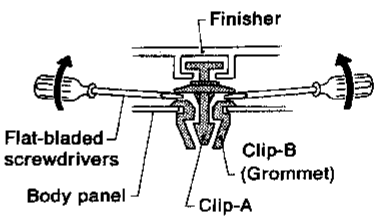

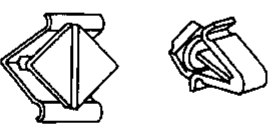

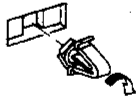
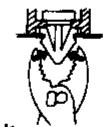
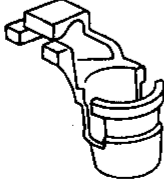
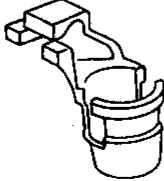
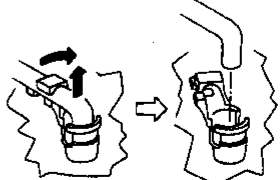
- Clips and fasteners in BT section correspond to the following numbers and symbols.
- Replace any clips and/or fasteners which are damaged during removal or installation.

Symbol No.	Shapes	Removal & Installation
C101 	<p>SBF302H</p>	<p><b>Removal:</b> Remove by bending up with flat-bladed screwdrivers or clip remover.</p> <p>SBF367BA</p>
C103 	<p>SBT095</p>	<p><b>Removal:</b> Remove with a clip remover.</p> <p>SBF423H</p>
C203 	<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>
C205 	<p>MBT080A</p>	<p><b>Removal:</b></p> <p>Screwdriver Clip Finisher</p> <p>SBF638C</p>

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


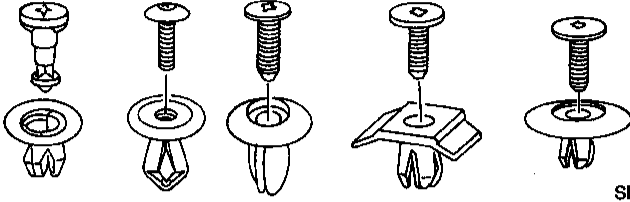
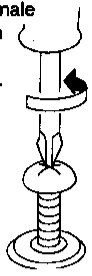
# CLIP AND FASTENER

Description (Cont'd)

Symbol No.	Shapes	Removal & Installation
<p>CE103</p> 	 <p style="text-align: right;">SBF104B</p>	<p><b>Removal:</b></p>  <p style="text-align: right;">SBF147B</p>
<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><b>Removal:</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>

# CLIP AND FASTENER

Description (Cont'd)

Symbol No.	Shapes	Removal & Installation
<p>CS101</p> 	 <p>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>SBF992G</p>

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

## BODY FRONT END

### Removal and Installation

---

### Removal and Installation

NDBT0004

- 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.
- Bumper fascia is made of plastic. Do not use excessive force and be sure to keep oil away from it.
- Hood adjustment: Adjust at hinge portion.
- Hood lock adjustment: After adjusting, check hood lock control operation. Apply a coat of grease to hood lock engaging mechanism.
- Hood opener: Do not attempt to bend cable forcibly. Doing so increases effort required to unlock hood.

### FRONT BUMPER ASSEMBLY

NDBT0004S01

1. Remove screws securing left and right combination lamps and remove the lamps. **C**
2. Remove bolts and nuts securing left and right headlamps and remove the headlamps. **B**
3. Remove clips securing front bumper fascia to radiator support.
4. Remove clips and screws securing left and right splash shields to front bumper fascia and move splash shields aside.
5. Remove clips securing front bumper fascia to bumper reinforcement.
6. Remove nuts securing front bumper fascia to left and right fenders and remove front bumper fascia.
7. Remove absorber pad from bumper reinforcement.
8. Remove nuts securing bumper reinforcement to left and right bumper brackets and remove bumper reinforcement.
9. Remove bolts securing left and right bumper brackets to left and right side members and then remove left and right bumper brackets.

# BODY FRONT END

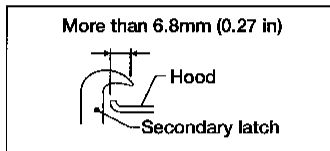
Removal and Installation (Cont'd)

SEC. 260 • 262 • 620 • 623

### Hood lock adjustment

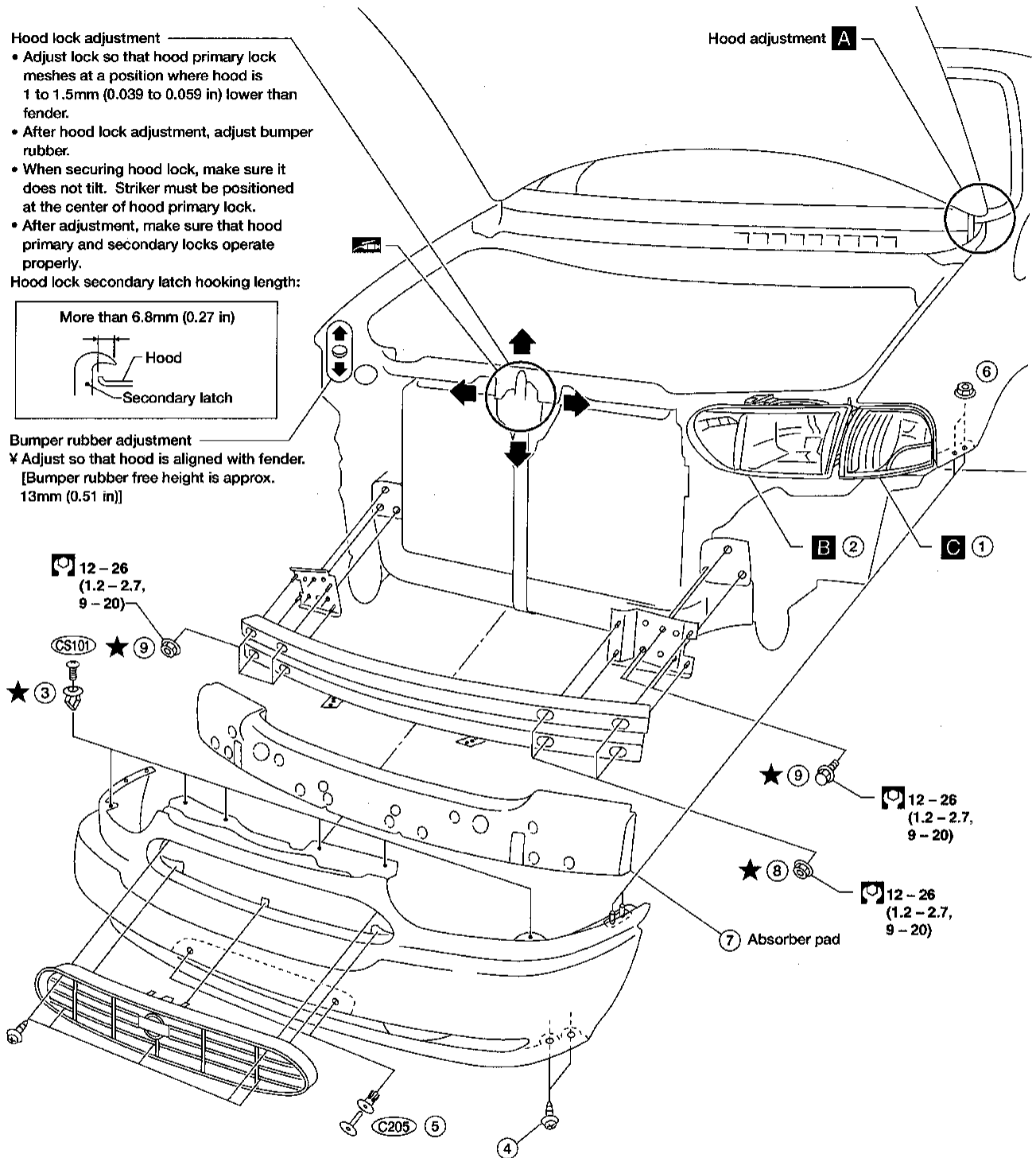
- Adjust lock so that hood primary lock meshes at a position where hood is 1 to 1.5mm (0.039 to 0.059 in) lower than fender.
- After hood lock adjustment, adjust bumper rubber.
- When securing hood lock, make sure it does not tilt. Striker must be positioned at the center of hood primary lock.
- After adjustment, make sure that hood primary and secondary locks operate properly.

Hood lock secondary latch hooking length:



### Bumper rubber adjustment

- ✧ Adjust so that hood is aligned with fender. [Bumper rubber free height is approx. 13mm (0.51 in)]



: N·m (kg·m, ft·lb)

: Bumper assembly mounting nuts, bolts, and clips

: Should be lubricated with grease

ABT377

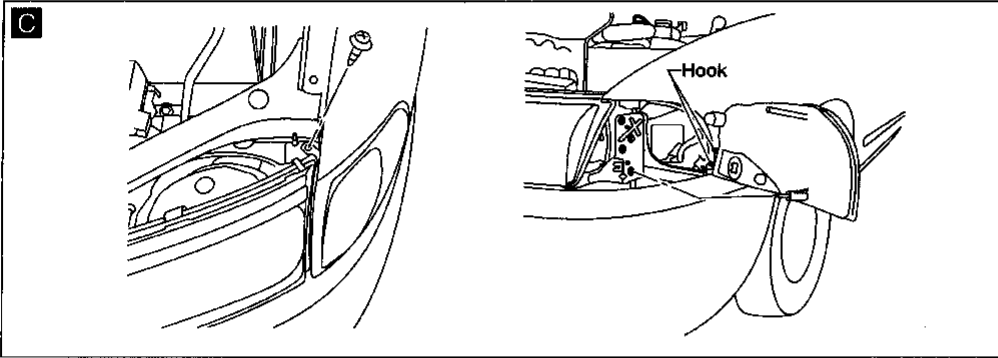
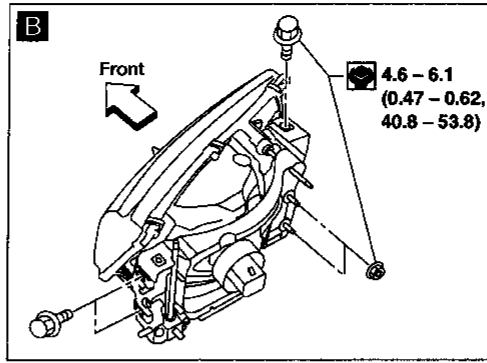
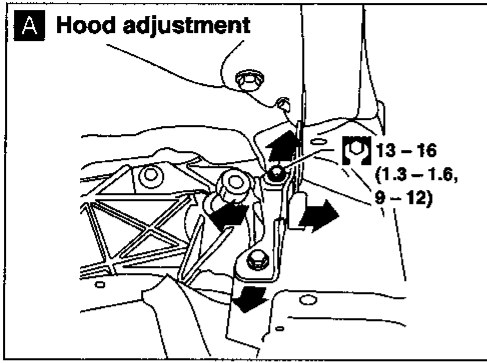
BT-7

1199

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

# BODY FRONT END

## Removal and Installation (Cont'd)



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



# BODY REAR END AND OPENER

Removal and Installation

## Removal and Installation

- Bumper fascia is made of plastic. Do not use excessive force and be sure to keep oil away from it. NDBT0005
- Back door lock system adjustment: Adjust lock & striker so that they are in the center. After adjustment, check back door lock operation. GI
- Back door hatch lock system adjustment: Adjust lock & striker so that they are in the center. After adjustment, check back door hatch lock operation. MA
- Opener cable: Do not attempt to bend cable using excessive force. EM
- 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. LC
- 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. EC

### REAR BUMPER ASSEMBLY

- 1. Remove clips securing bumper fascia to body. NDBT0005S01
- 2. Remove clips securing bumper fascia to left and right wheel wells. FE
- 3. Remove clips securing bumper fascia to left and right brackets. AT
- 4. Remove clips securing bumper fascia to rear crossmember. AX
- 5. Remove rear bumper fascia. SU
- 6. Remove absorber pad from rear bumper reinforcement.
- 7. Remove nuts securing rear bumper reinforcement to left and right bumper brackets. BR
- 8. Remove rear bumper reinforcement. ST
- 9. Remove bolts securing left and right bumper brackets from rear crossmember and remove left and right brackets. RS

BT

HA

SC

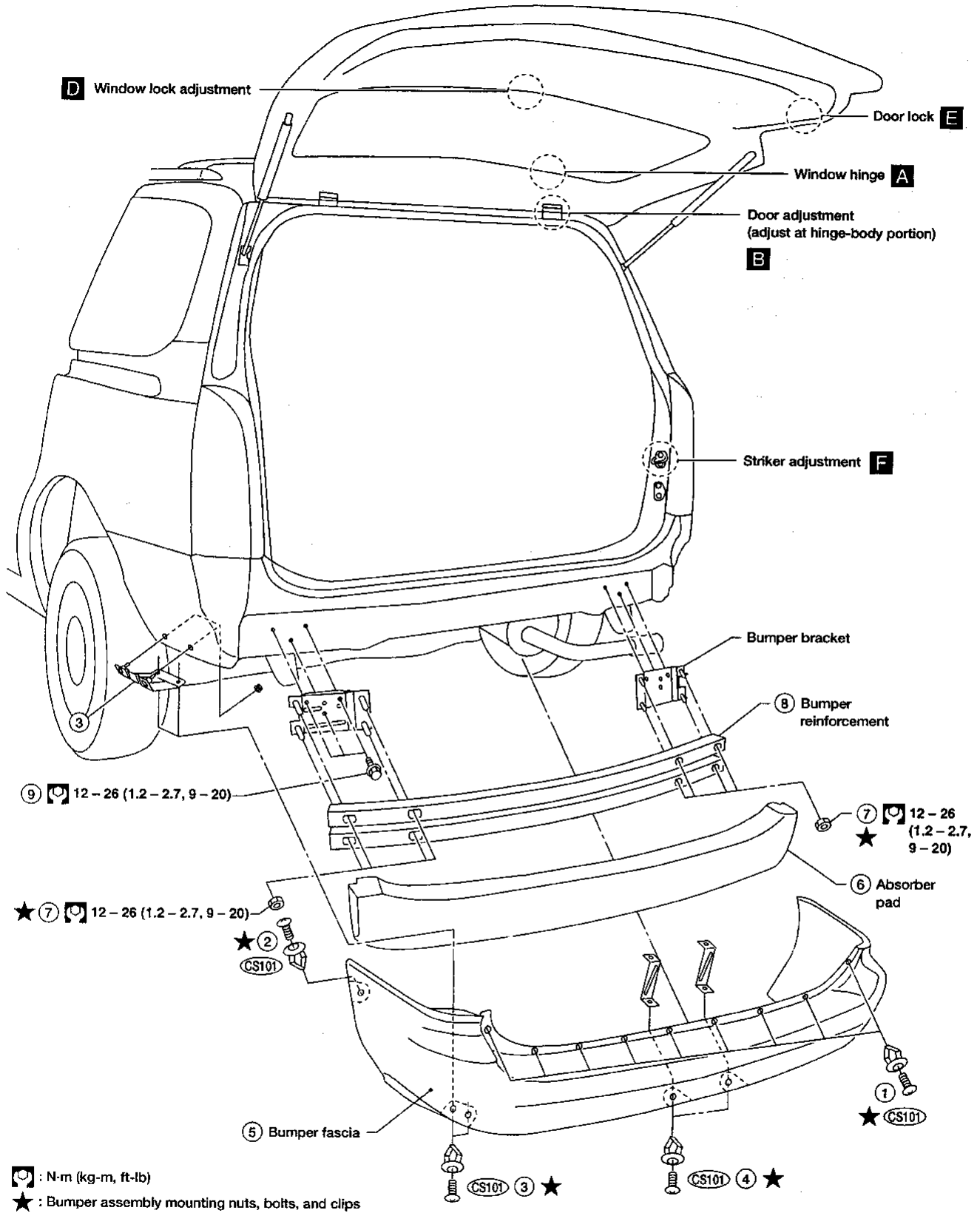
EL

IDX

# BODY REAR END AND OPENER

Removal and Installation (Cont'd)

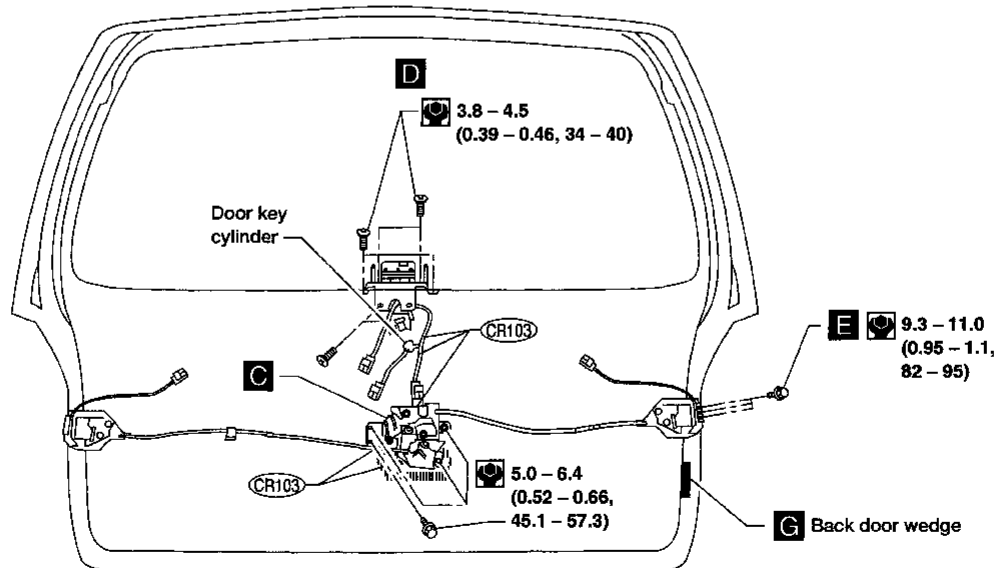
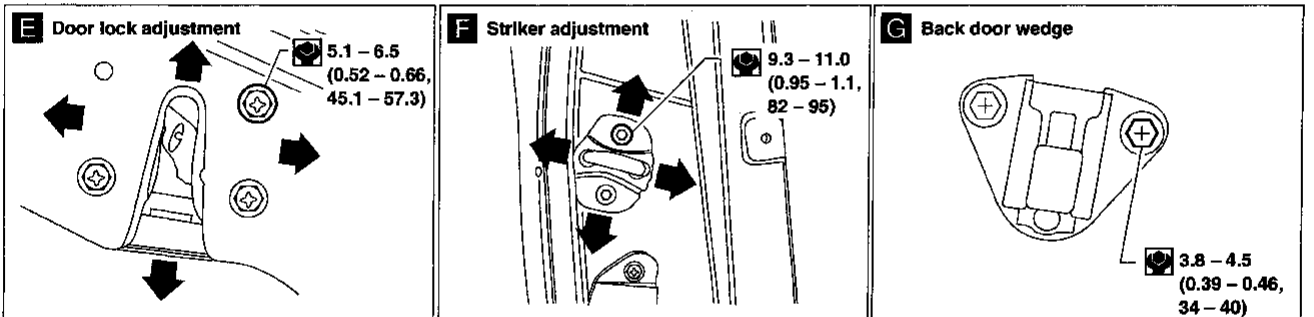
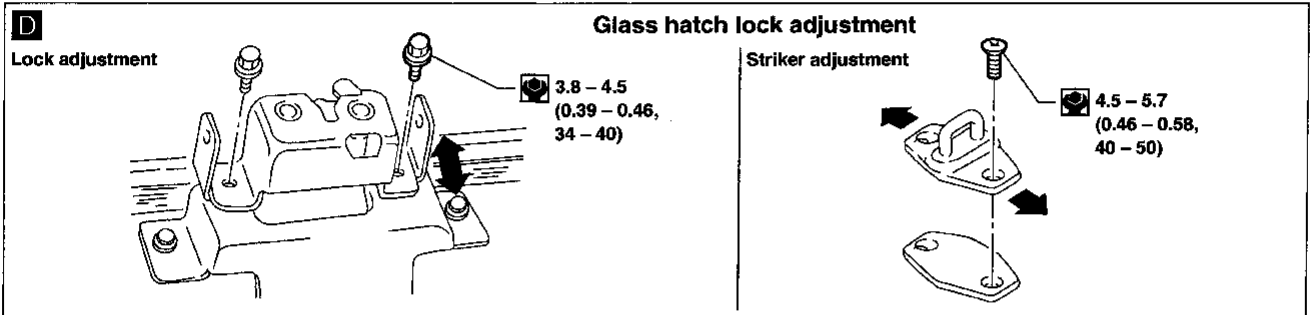
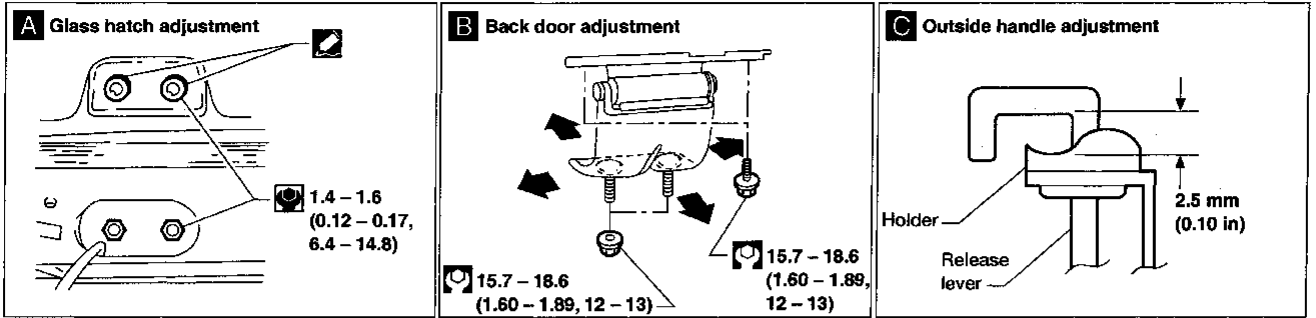
SEC. 262 • 850 • 900



ABT374

# BODY REAR END AND OPENER

Removal and Installation (Cont'd)



: N·m (kg·m, in·lb)

: N·m (kg·m, ft·lb)

ABT380

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

# FRONT DOOR

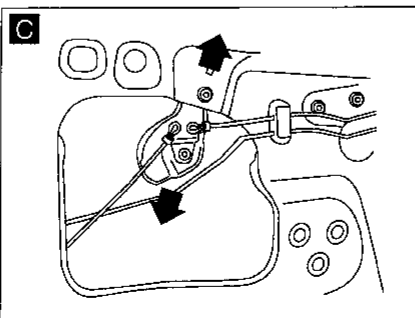
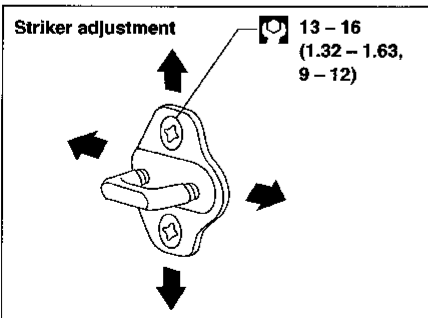
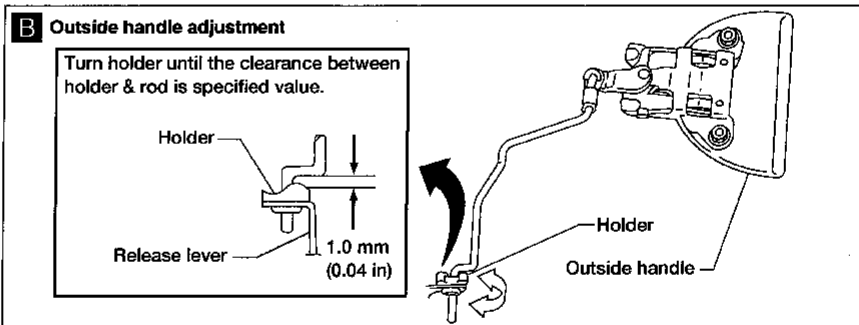
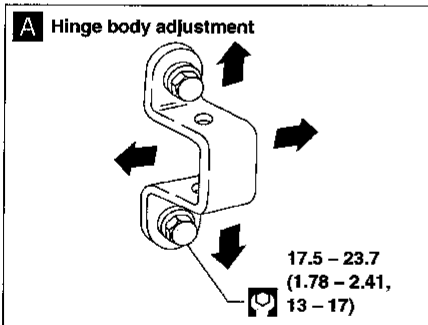
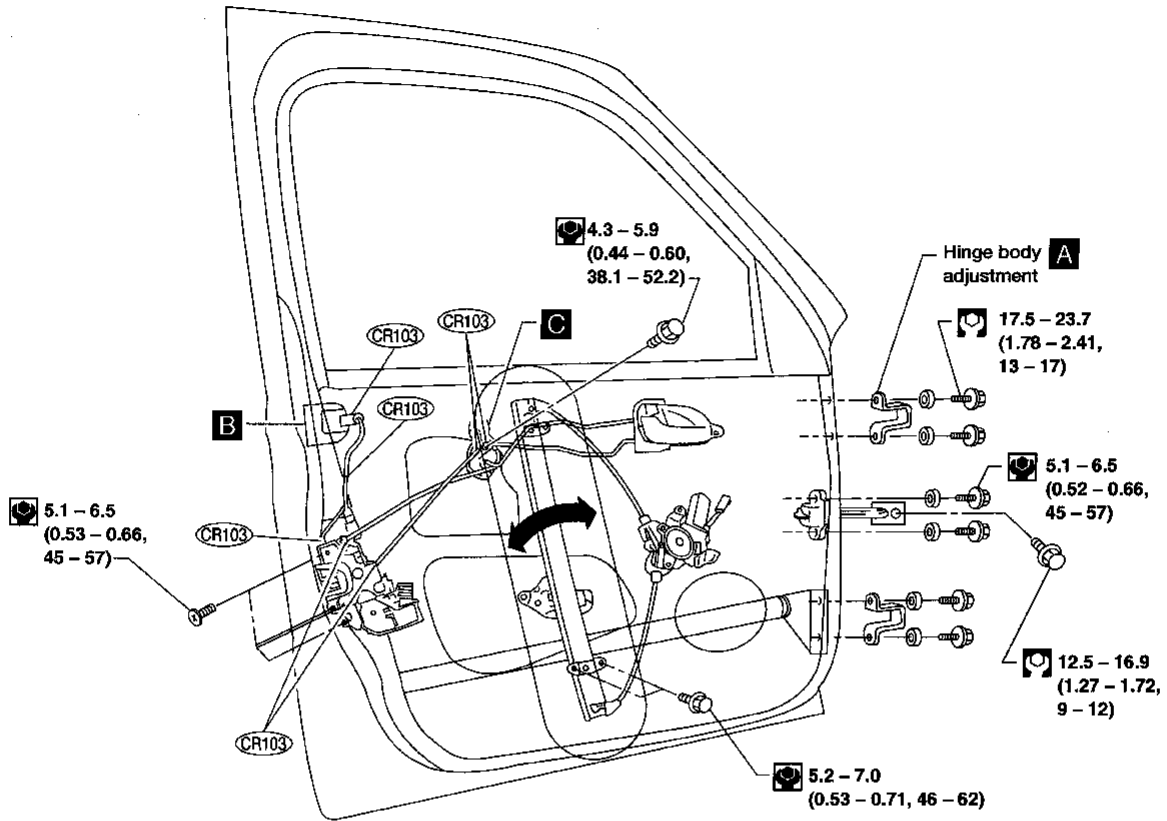
Overhaul

## Overhaul

NDBT0006

- For removal of door trim, refer to "DOOR TRIM" (BT-22).
- 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)

ABT361

# SLIDING DOOR

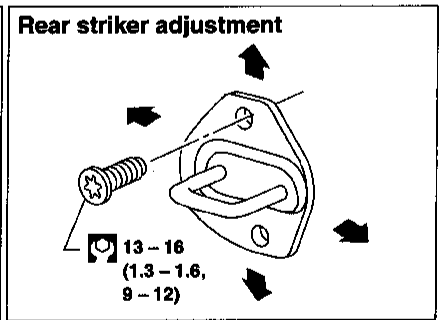
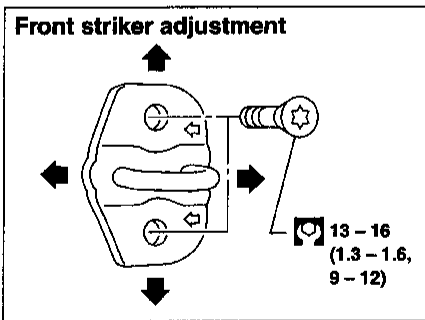
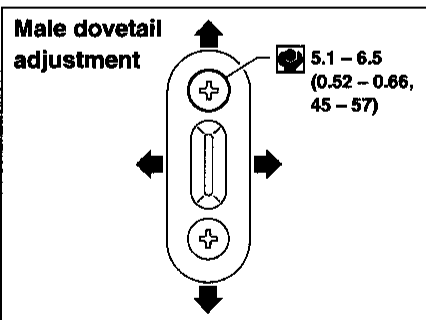
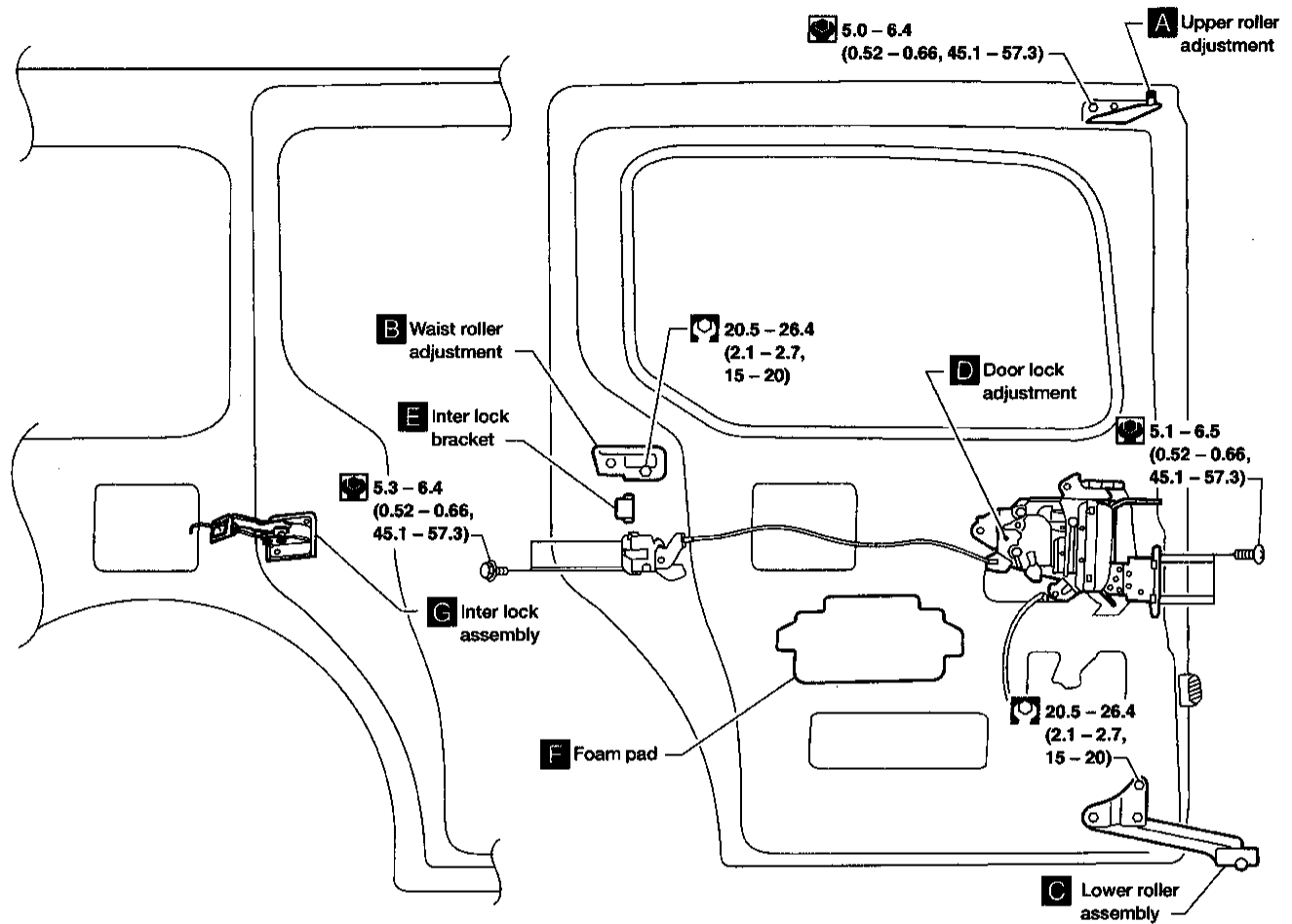
Overhaul

## Overhaul

NDBT0022

- Left side slide door will not open when fuel door is open.

SEC. 821 • 826 • 998



- : NÆm (kg-m, in-lb)
- : NÆm (kg-m, ft-lb)
- : Should be lubricated with grease

GI

MA

EM

LC

EC

FE

AT

AX

SU

BR

ST

RS

BT

HA

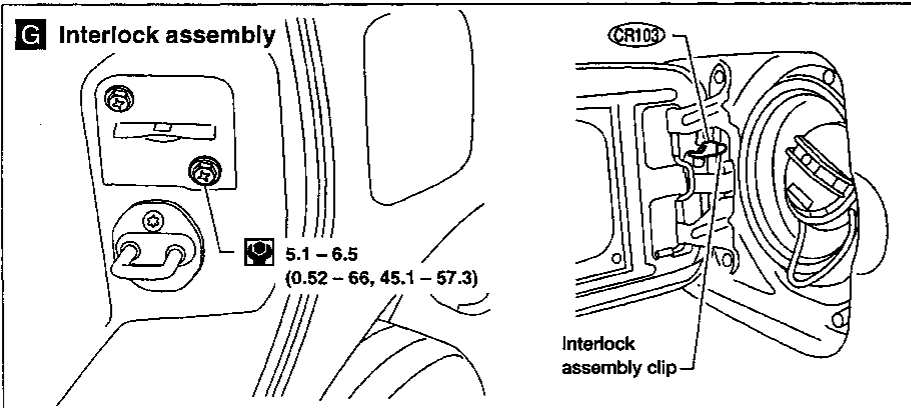
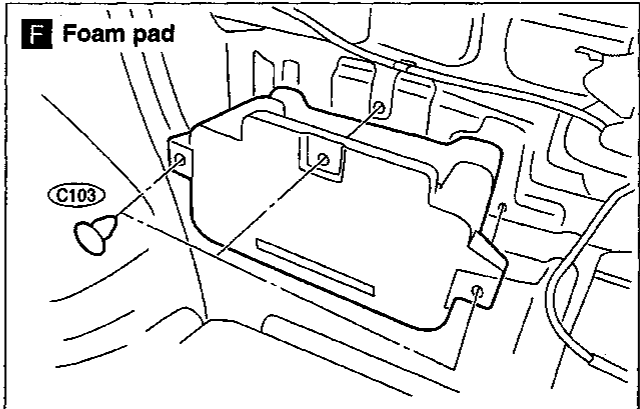
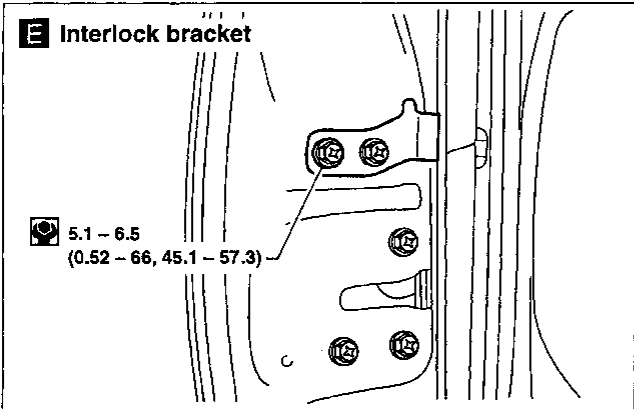
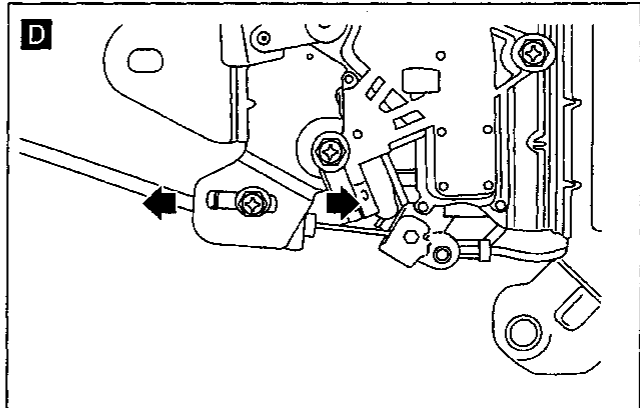
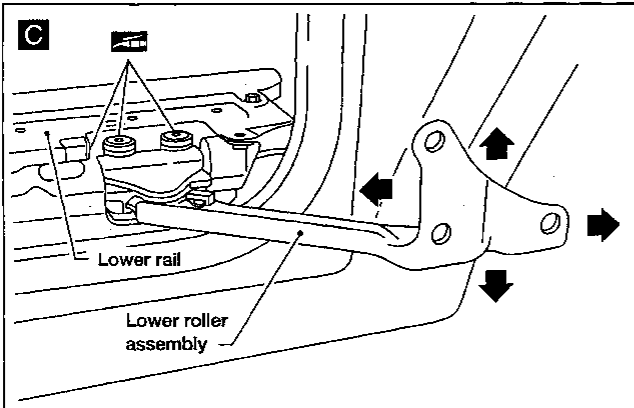
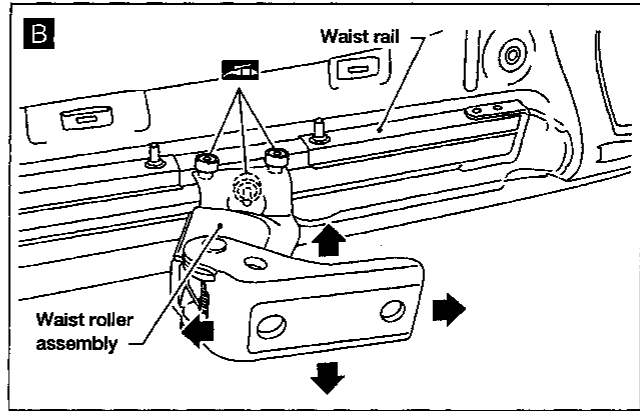
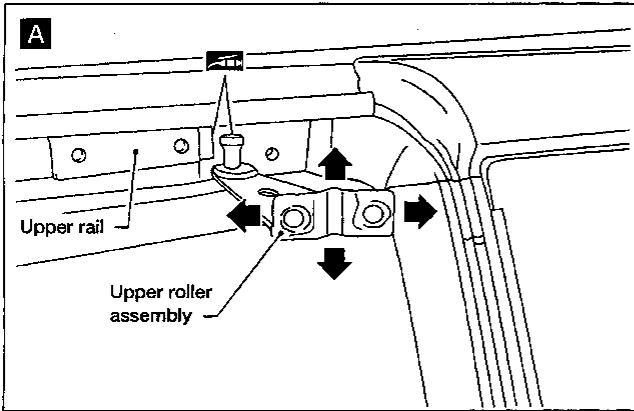
SC

EL

IDX

# SLIDING DOOR

Overhaul (Cont'd)



☐ : N·m (kg·m, in·lb)  
☑ : Should be lubricated with grease

ABT396

# INSTRUMENT PANEL ASSEMBLY

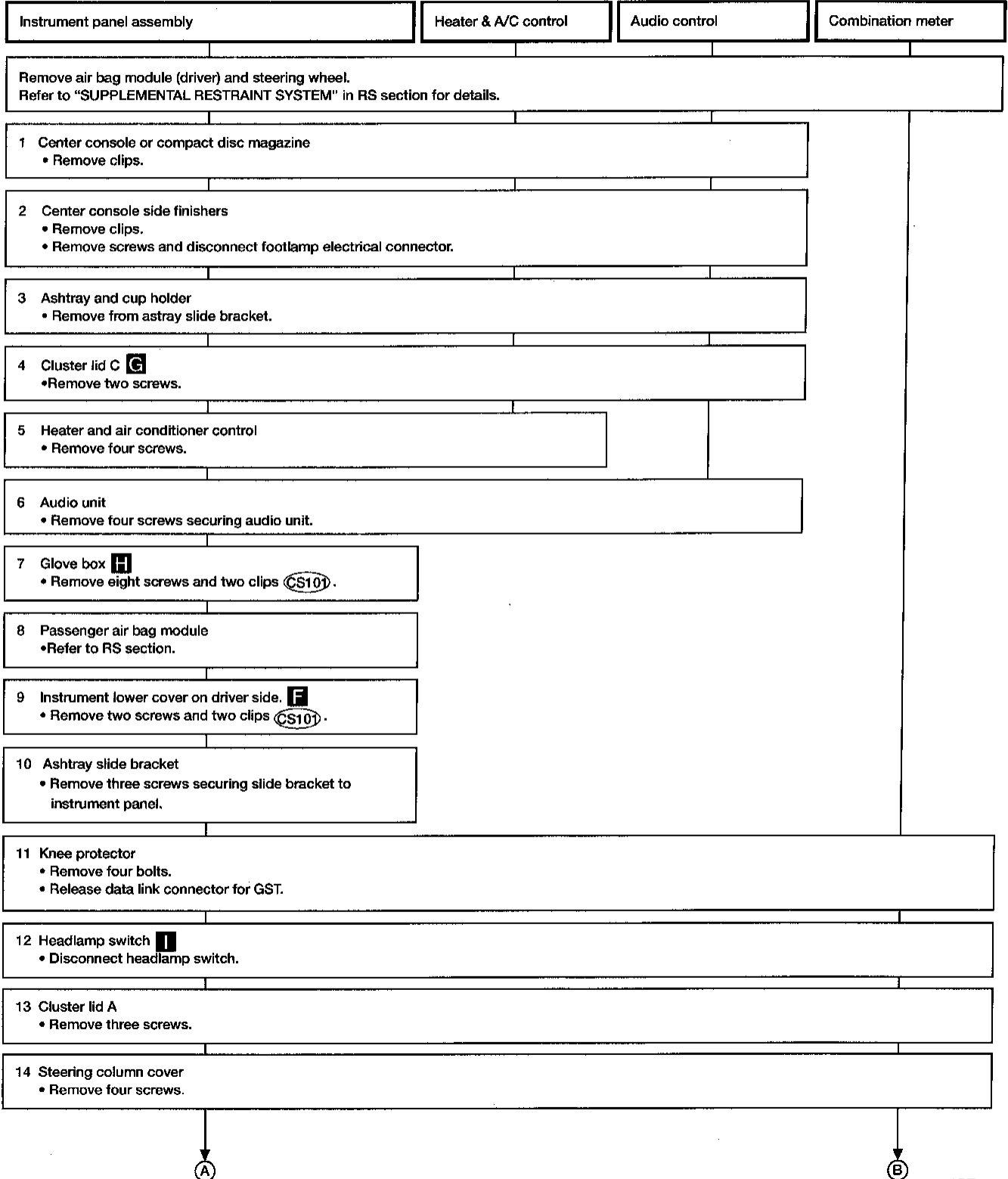
Removal and Installation

## Removal and Installation

NDBT0008

### 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.



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

ABT376

# INSTRUMENT PANEL ASSEMBLY

Removal and Installation (Cont'd)



- 15 Steering column
- Disconnect shift indicator.
  - Remove one screw securing air duct.
  - Remove four nuts and lower steering column.
  - Refer to ST section.

- 16 Combination meter
- Remove four screws.

- 17 Ventilators **B C D**
- Remove side ventilators.
  - If equipped, disconnect in-vehicle sensor electrical connector after removing center ventilator.

- 18 Defroster grille **A**
- Remove front door weatherstrip.
  - Remove front pillar garnish. Refer to \*1.

- 19 Dash lower side finisher
- Refer to \*1.

- 20 Instrument panel
- Remove two screws from opening for passenger air bag module.
  - Remove one screw each from lower LH and RH side.
  - Remove upper two bolts and one nut.

ABT400

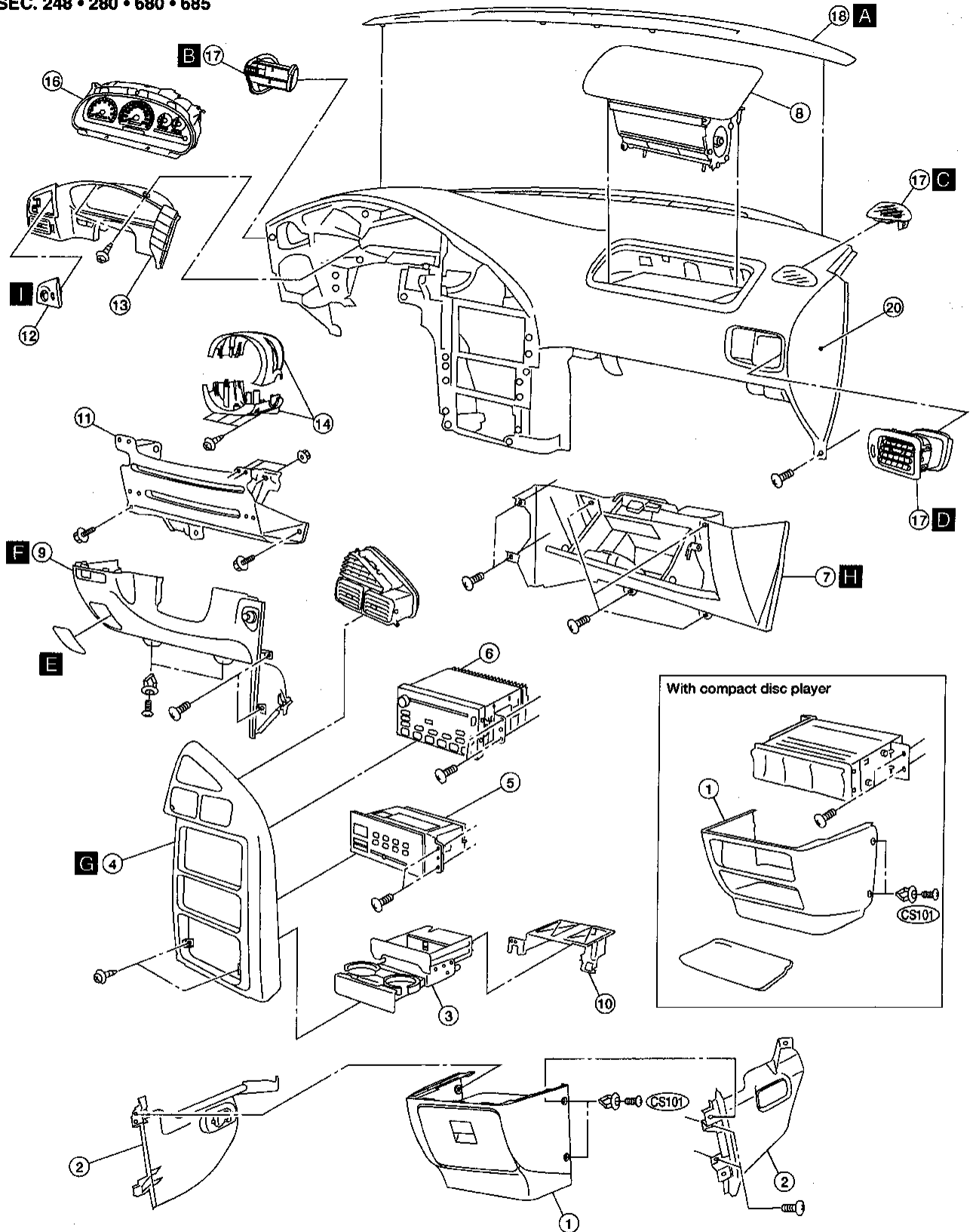
\*1 BT-19



# INSTRUMENT PANEL ASSEMBLY

Removal and Installation (Cont'd)

SEC. 248 • 280 • 680 • 685

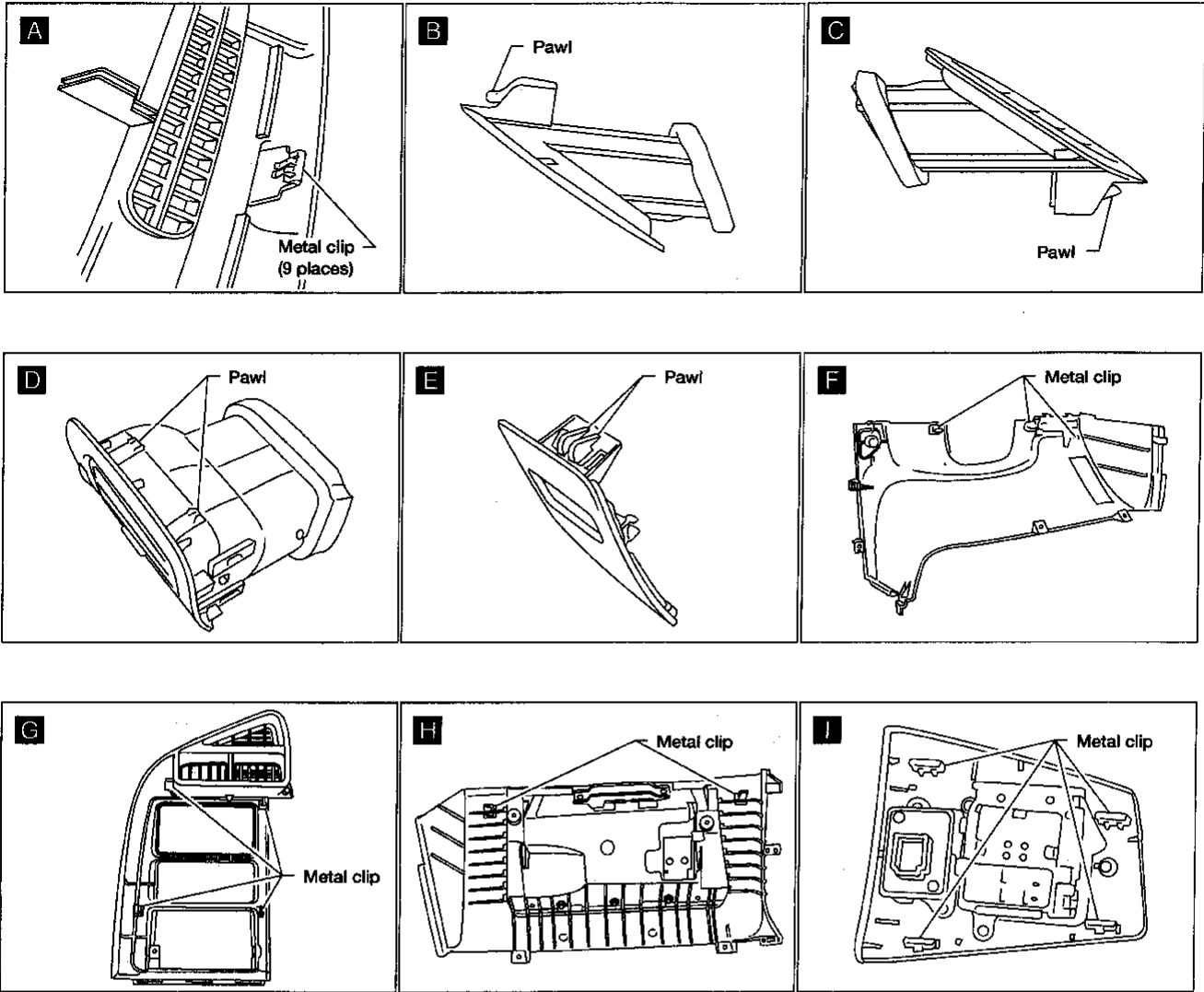


GI  
MA  
EM  
LC  
EC  
FE  
AT  
AX  
SU  
BR  
ST  
RS  
BT  
HA  
SC  
EL  
IDX

ABT356

# INSTRUMENT PANEL ASSEMBLY

Removal and Installation (Cont'd)



ABT357

## Removal and Installation

NDBT0009

### 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-30, BT-32.
2. Remove front and rear kicking plates.
3. Remove dash side lower finishers.
4. Remove front and rear body side welts.
5. Remove A pillar garnishes. **B**.
6. Remove B pillar lower garnishes. **C**.
7. Remove B pillar upper garnishes. **C**.
8. Remove center assist grips. **U**.
9. Remove rear gate kicking plate. **A**.
10. Remove C pillar upper garnishes. **E**.
11. Remove D pillar upper garnishes. **F**.
12. Remove parcel shelf.
13. Remove rear side lower garnish finisher. **I**.
14. Remove rear side lower garnishes. **H**.

GI

MA

EM

LC

EC

FE

AT

AX

SU

BR

ST

RS

BT

HA

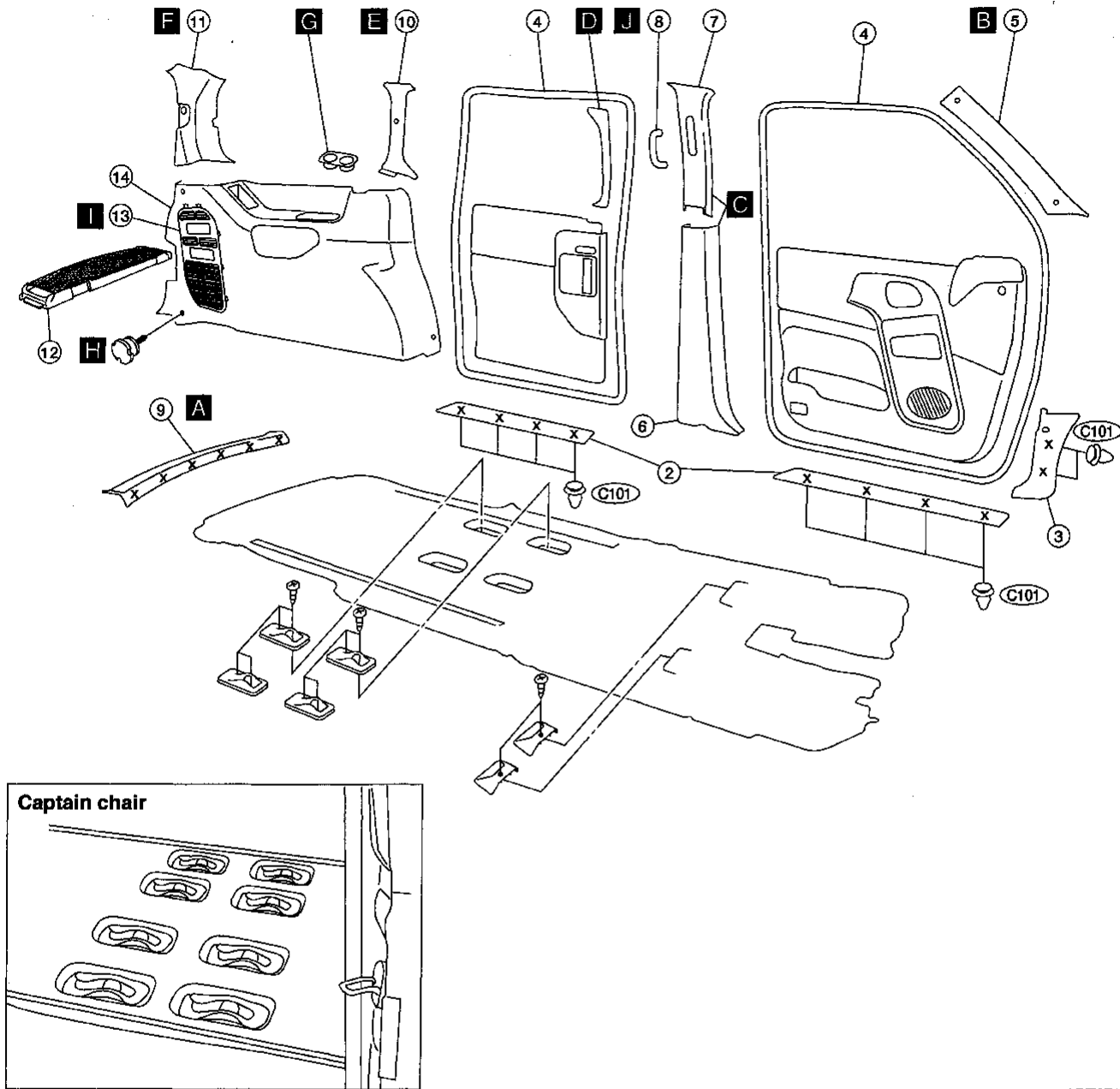
SC

EL

IDX

# SIDE AND FLOOR TRIM

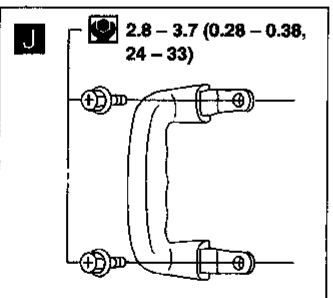
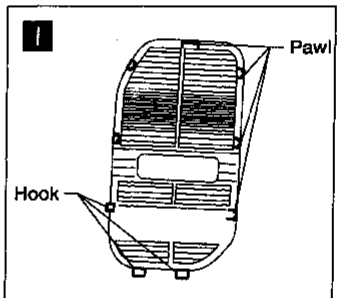
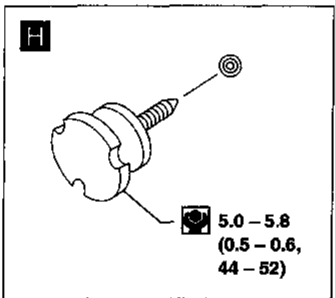
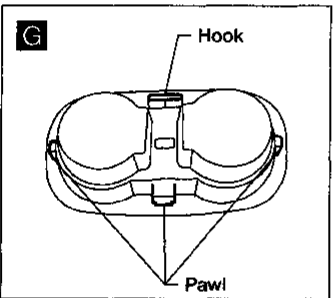
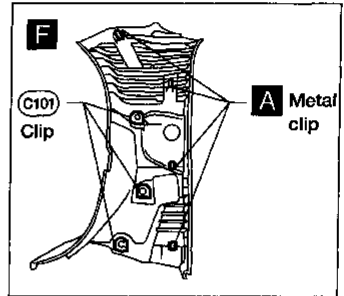
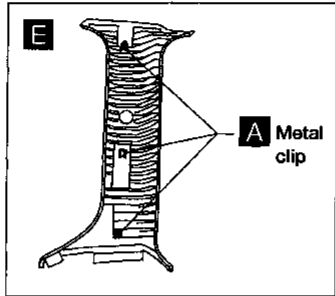
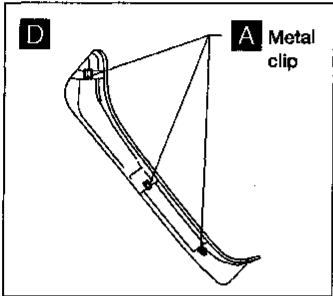
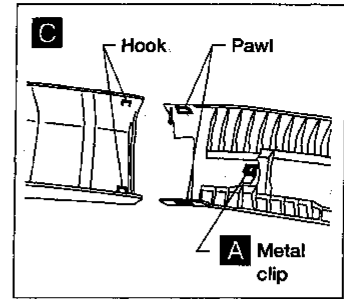
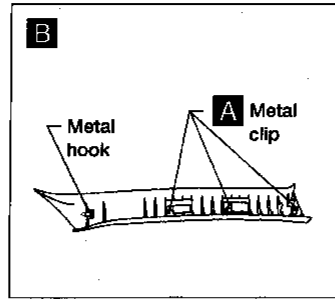
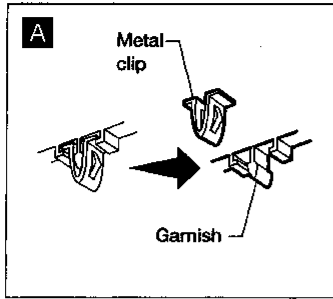
Removal and Installation (Cont'd)



ABT373

# SIDE AND FLOOR TRIM

Removal and Installation (Cont'd)



: N·m (kg·m, in·lb)

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

ABT379

# DOOR TRIM

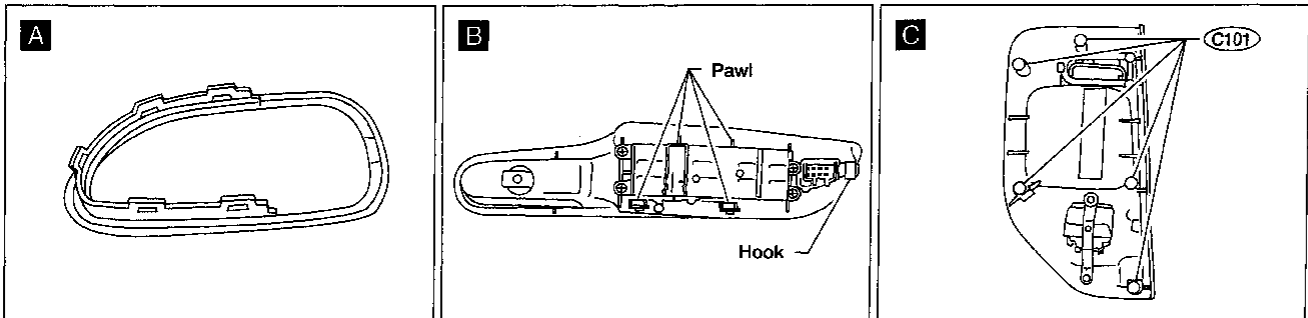
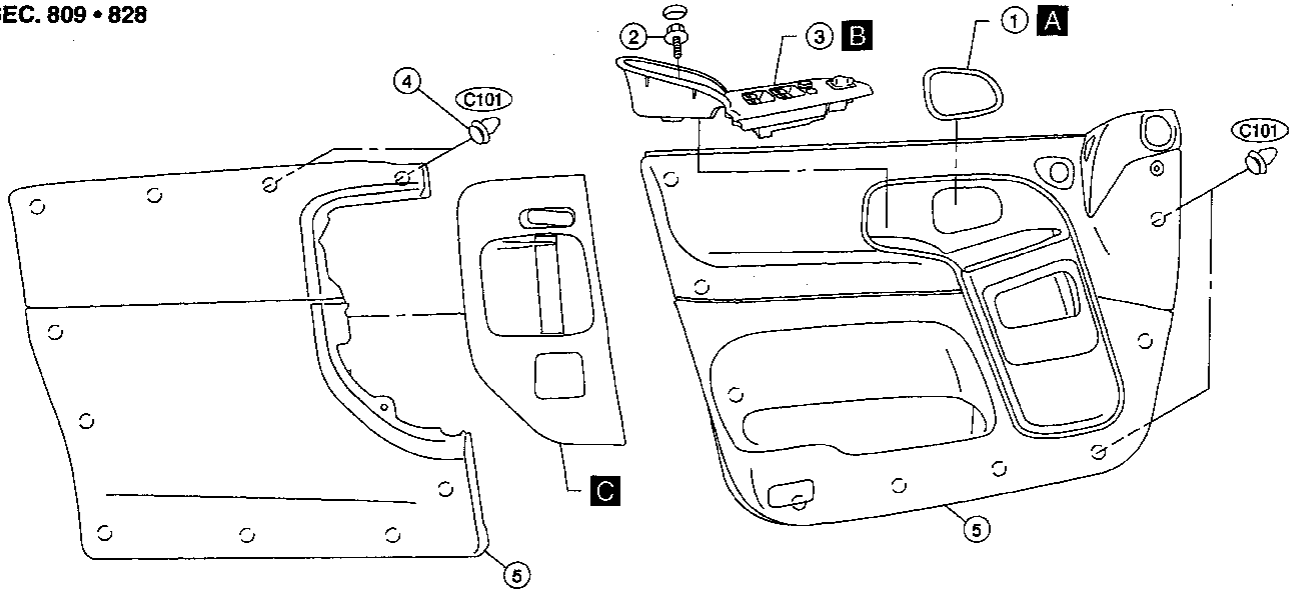
Removal and Installation

## Removal and Installation

NDBT0010

1. Remove inside handle escutcheon. **A**
2. Remove screw securing power window switches.
3. Remove power window switches, then disconnect the connectors. **B**
4. Remove clips securing door finisher.
5. Lift out door finisher.

SEC. 809 • 828



ABT359

# BACK DOOR TRIM

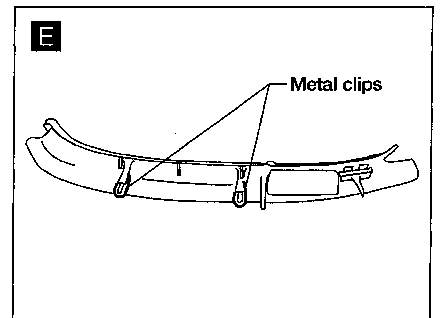
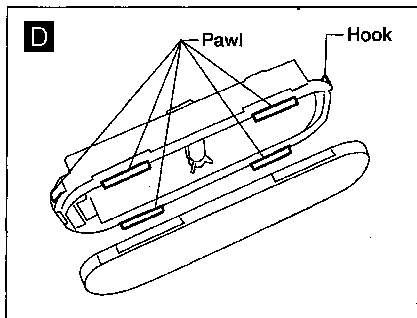
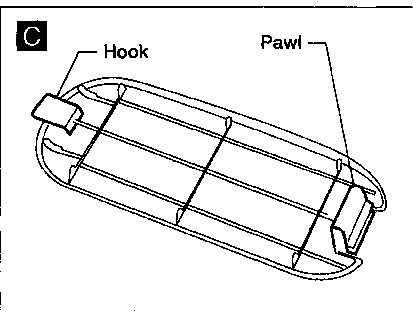
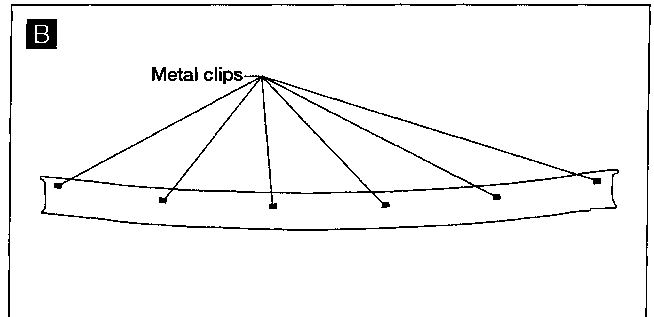
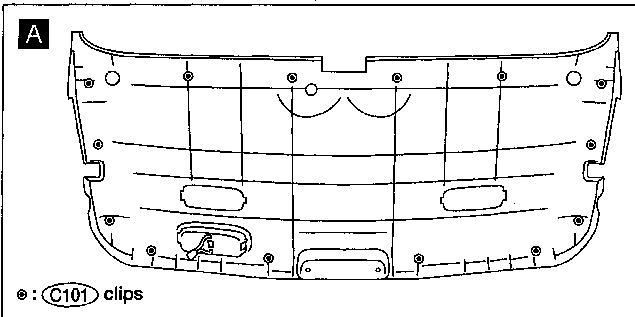
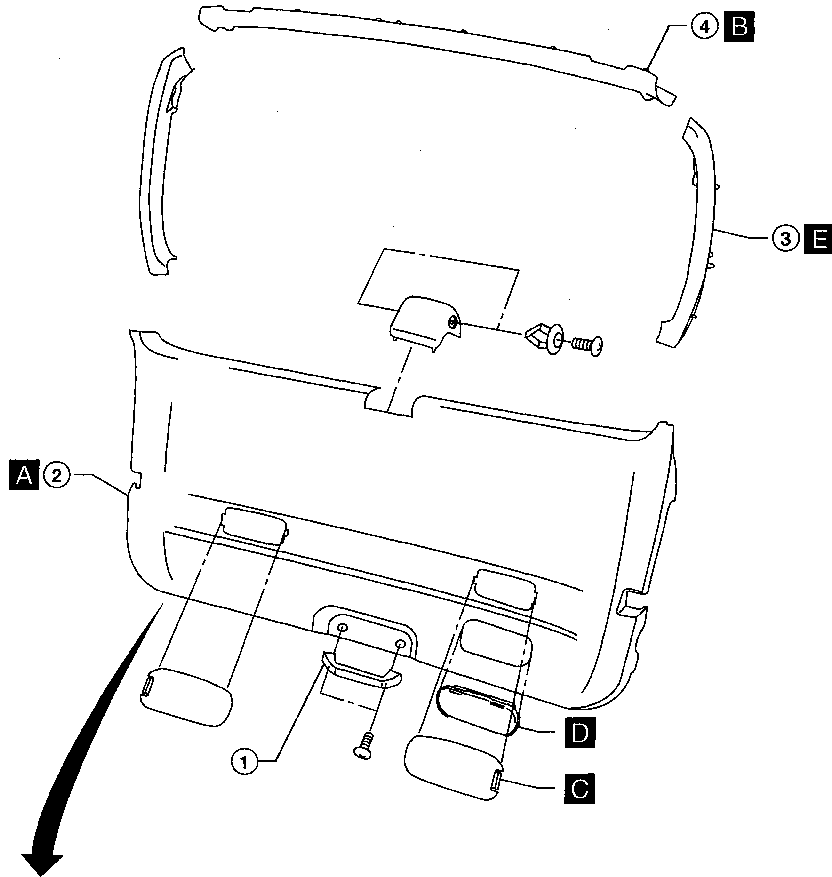
Removal and Installation

## Removal and Installation

NDBT0012

1. Remove back door grip.
2. Remove back door finisher assembly. **A**
3. Remove back window garnishes. **E**
4. Remove back door upper finisher assembly. **B**

SEC. 900



ABT360

GI

MA

EM

LC

EC

FE

AT

AX

SU

BR

ST

RS

BT

HA

SC

EL

IDX

# ROOF TRIM

## Removal and Installation

---

### Removal and Installation

NDBT0011

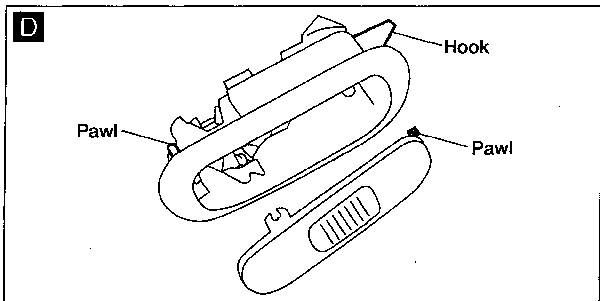
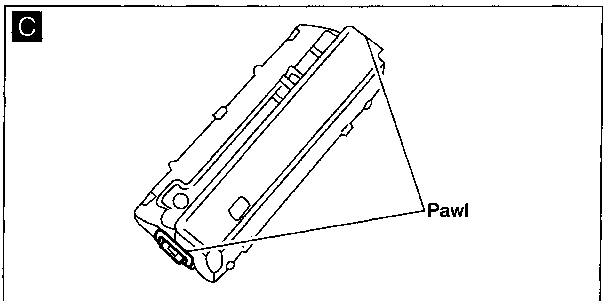
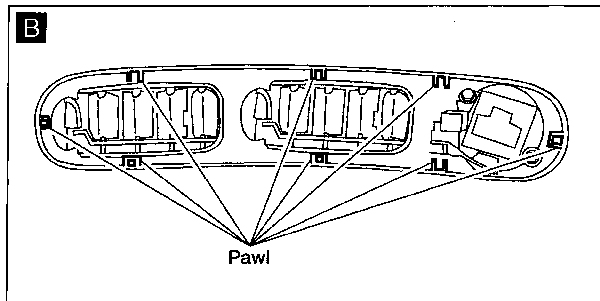
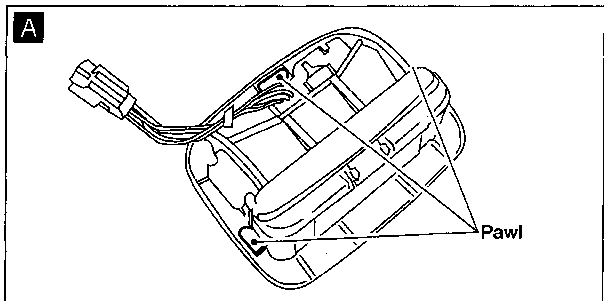
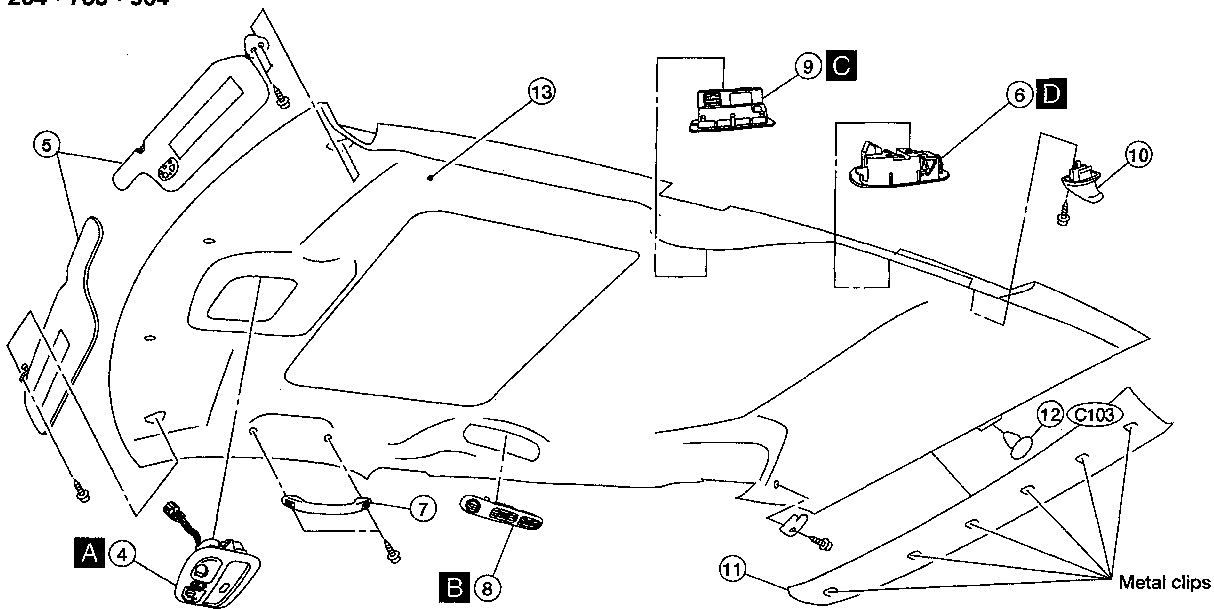
1. Remove front and rear seats. Refer to "FRONT SEAT", "2ND SEAT" and "3RD SEAT" for details, BT-30, BT-32, BT-34.
2. Remove front and rear seat belts. Refer to "SEAT BELTS" in RS section for details.
3. Remove body side trim. Refer to "SIDE AND FLOOR TRIM" for details, BT-19.
4. Remove roof console assembly. **A**
5. Remove sun visors.
6. Remove interior lamp assembly and luggage room lamp assembly. **D**
7. Remove assist grips.
8. Remove A/C control and outlet grille (if equipped). **B**
9. Remove rear audio control panel (if equipped). **C**
10. Remove coathooks.
11. Remove rear roof garnish.
12. Remove clip securing headlining.
13. Remove headlining from vehicle through back door.



# ROOF TRIM

Removal and Installation (Cont'd)

SEC. 264 • 738 • 964



ABT358

GI

MA

EM

LC

EC

FE

AT

AX

SU

BR

ST

RS

**BT**

HA

SC

EL

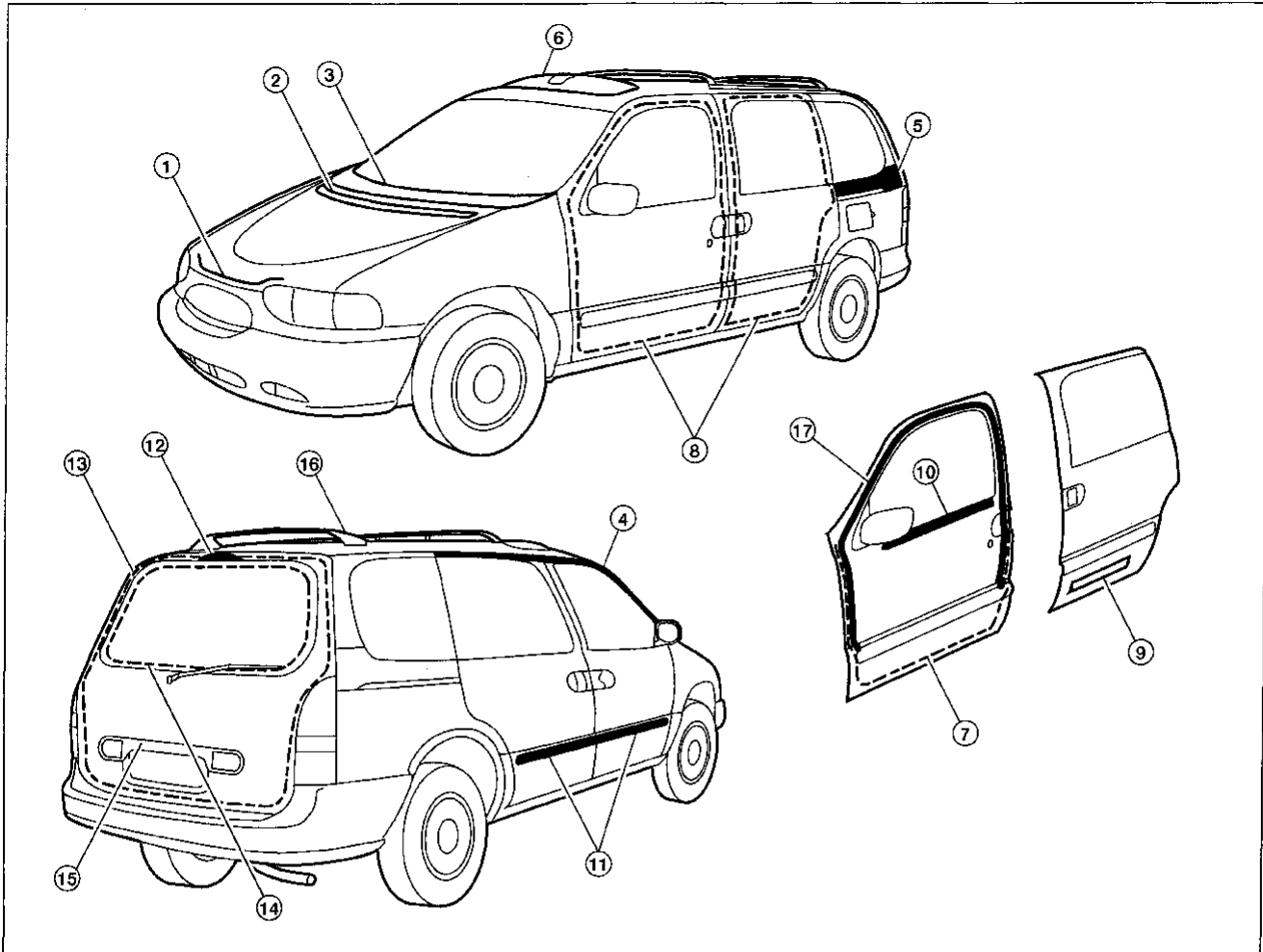
IDX

# EXTERIOR

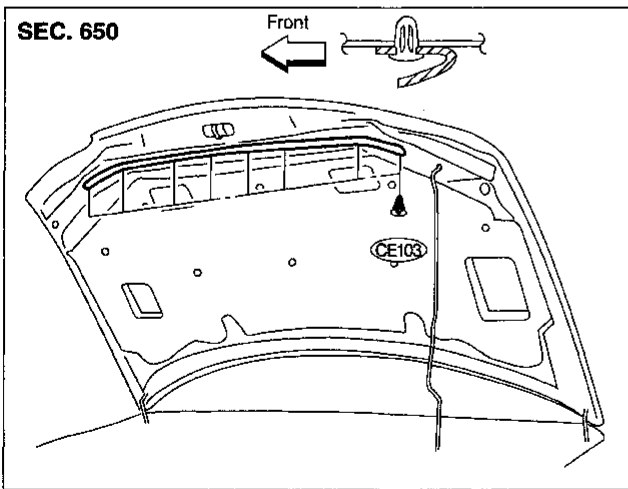
Removal and Installation

## Removal and Installation

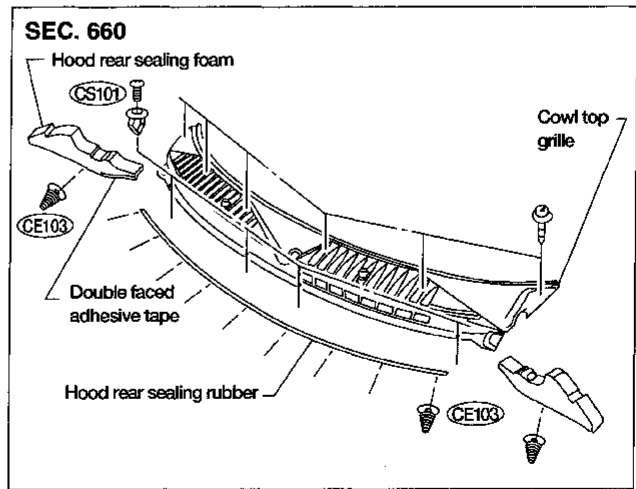
NDBT0013



### ① Hood front seal

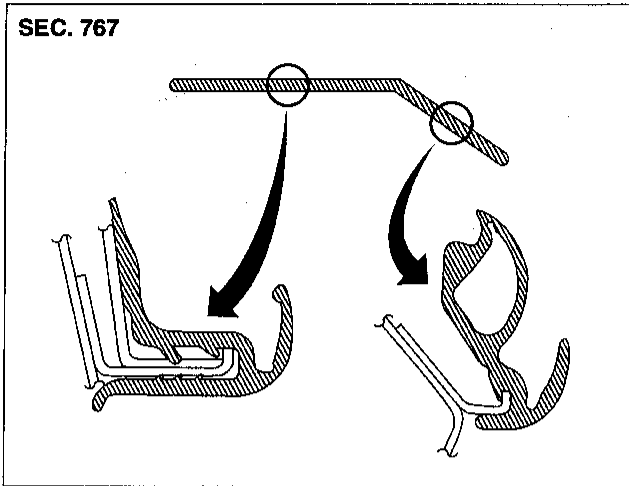


### ② ③ Hood rear sealing rubber and cowl top grille

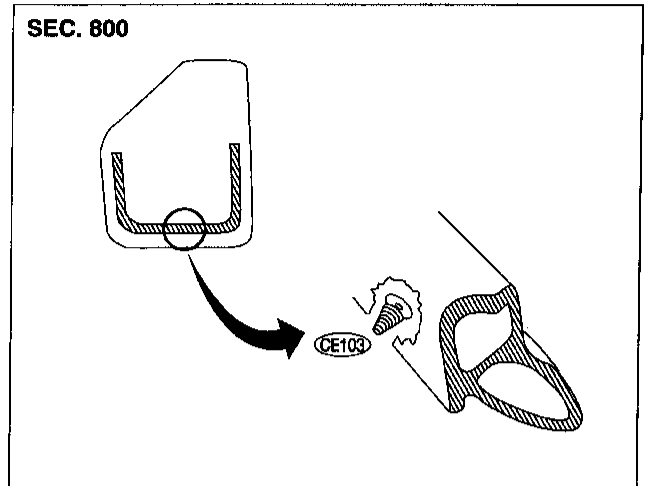


ABT362

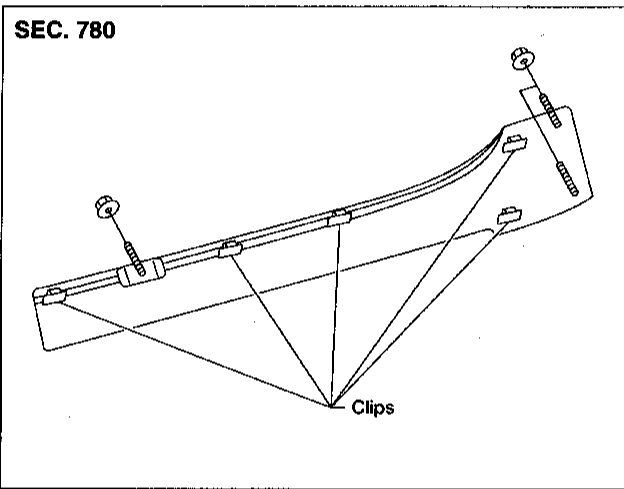
④ Body side drip molding



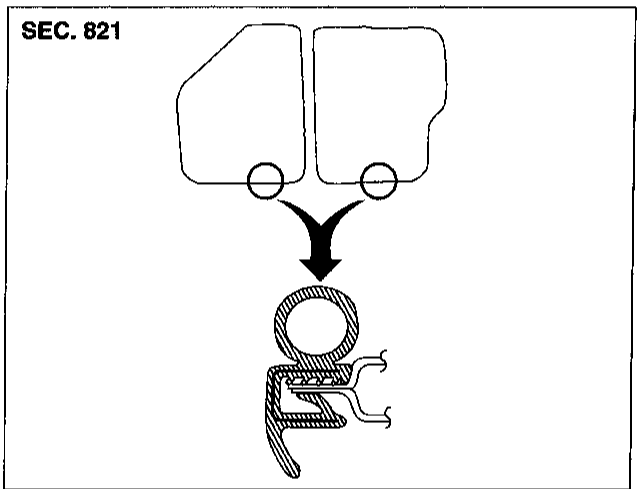
⑦ Front door weatherstrip



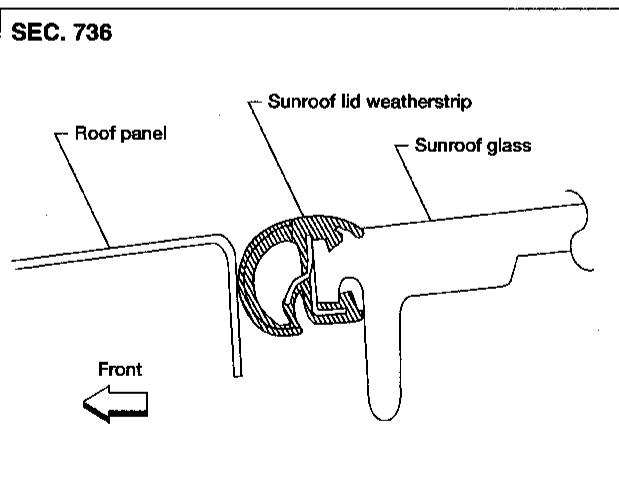
⑤ Waist rail finisher



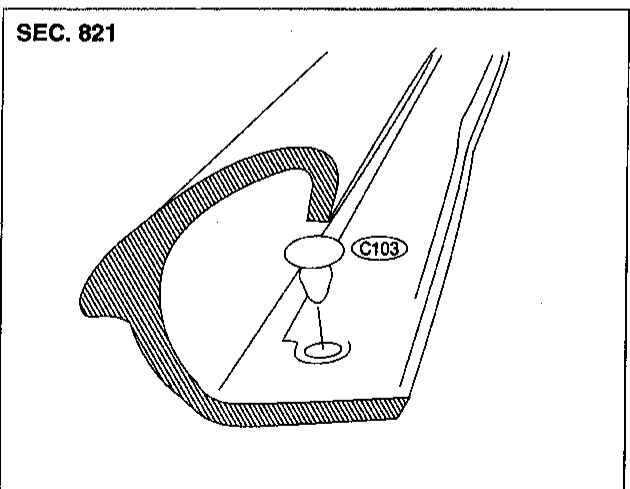
⑧ Body side welt



⑥ Sunroof lid weatherstrip



⑨ Sliding door lower seal



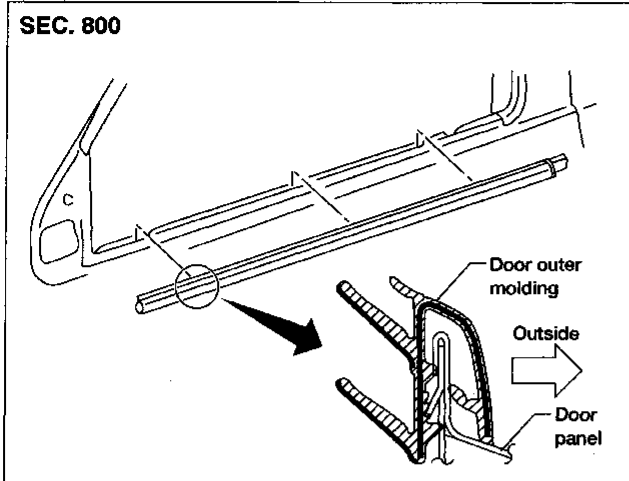
GI  
MA  
EM  
LC  
EC  
FE  
AT  
AX  
SU  
BR  
ST  
RS  
BT  
HA  
SC  
EL  
IDX

# EXTERIOR

## Removal and Installation (Cont'd)

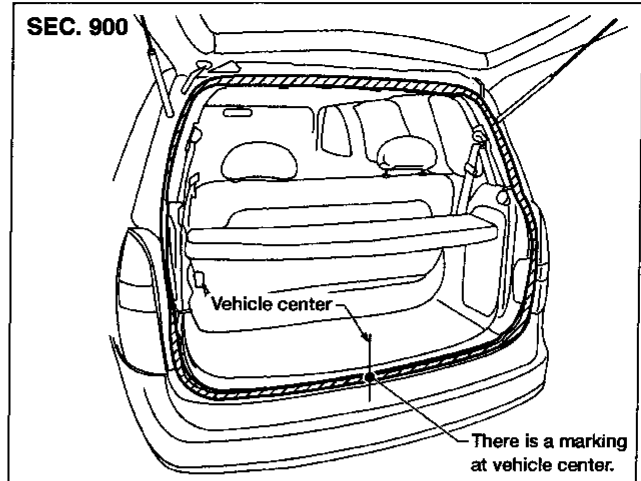
### ⑩ Door outer molding

SEC. 800



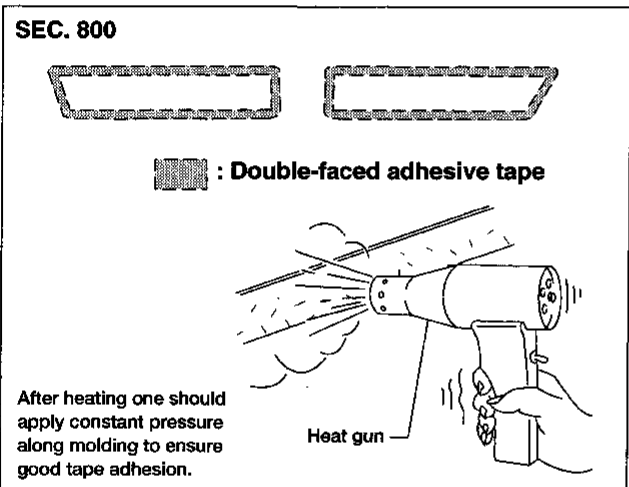
### ⑬ Back door weatherstrip

SEC. 900



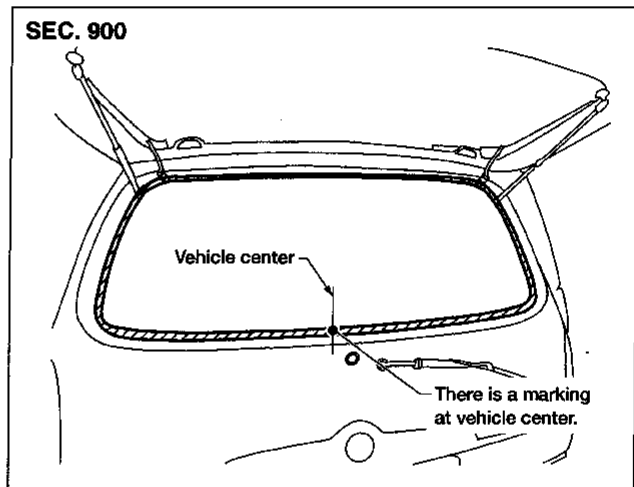
### ⑪ Side guard molding

SEC. 800



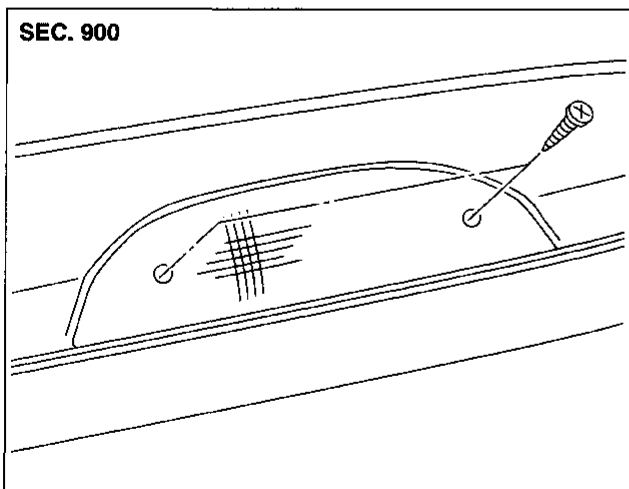
### ⑭ Back door window weatherstrip

SEC. 900



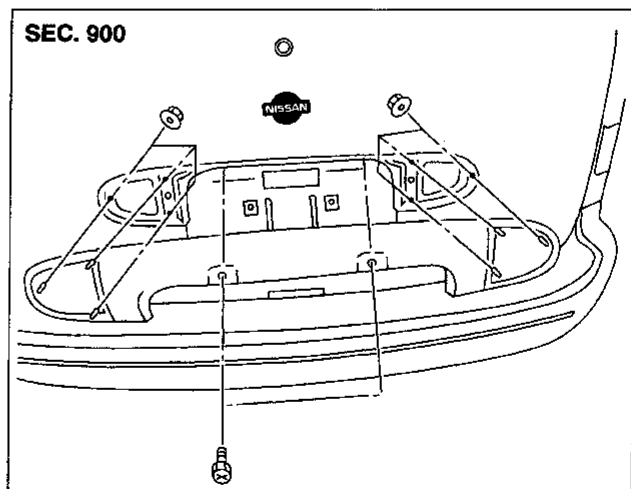
### ⑫ High mount stop lamp

SEC. 900



### ⑮ License plate finisher

SEC. 900

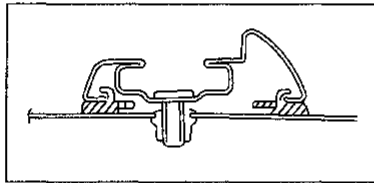
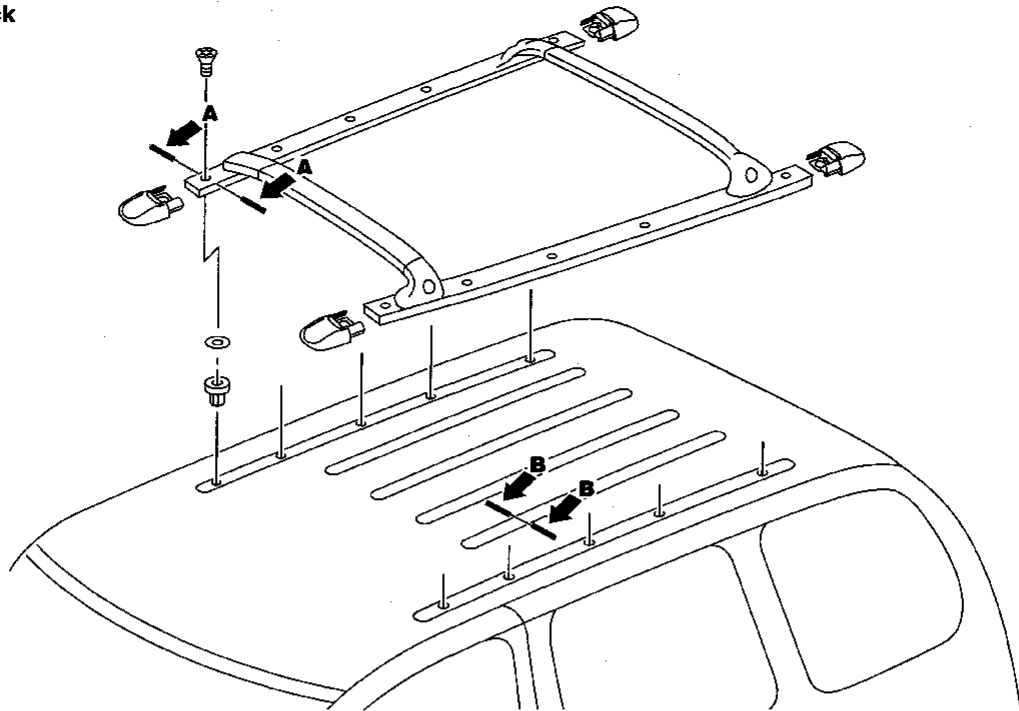


ABT363

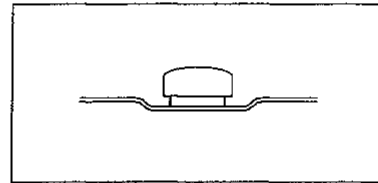
# EXTERIOR

Removal and Installation (Cont'd)

## 16 Luggage rack SEC. 730



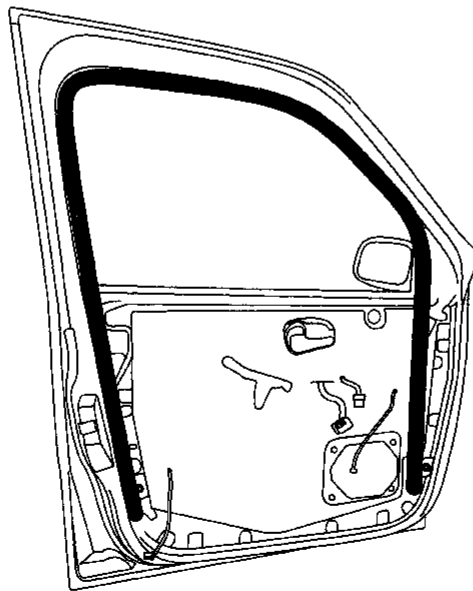
A - A



B - B

ABT378

## 17 Window run rubber



ABT426

GI

MA

EM

LC

EC

FE

AT

AX

SU

BR

ST

RS

BT

HA

SC

EL

IDX

# FRONT SEAT

Removal and Installation

## Removal and Installation

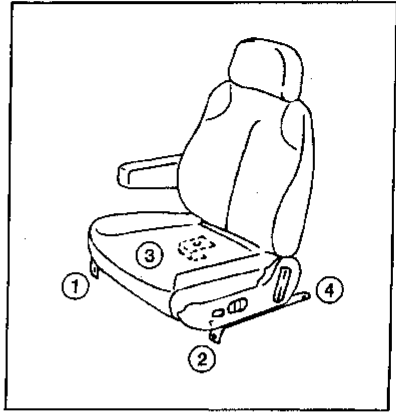
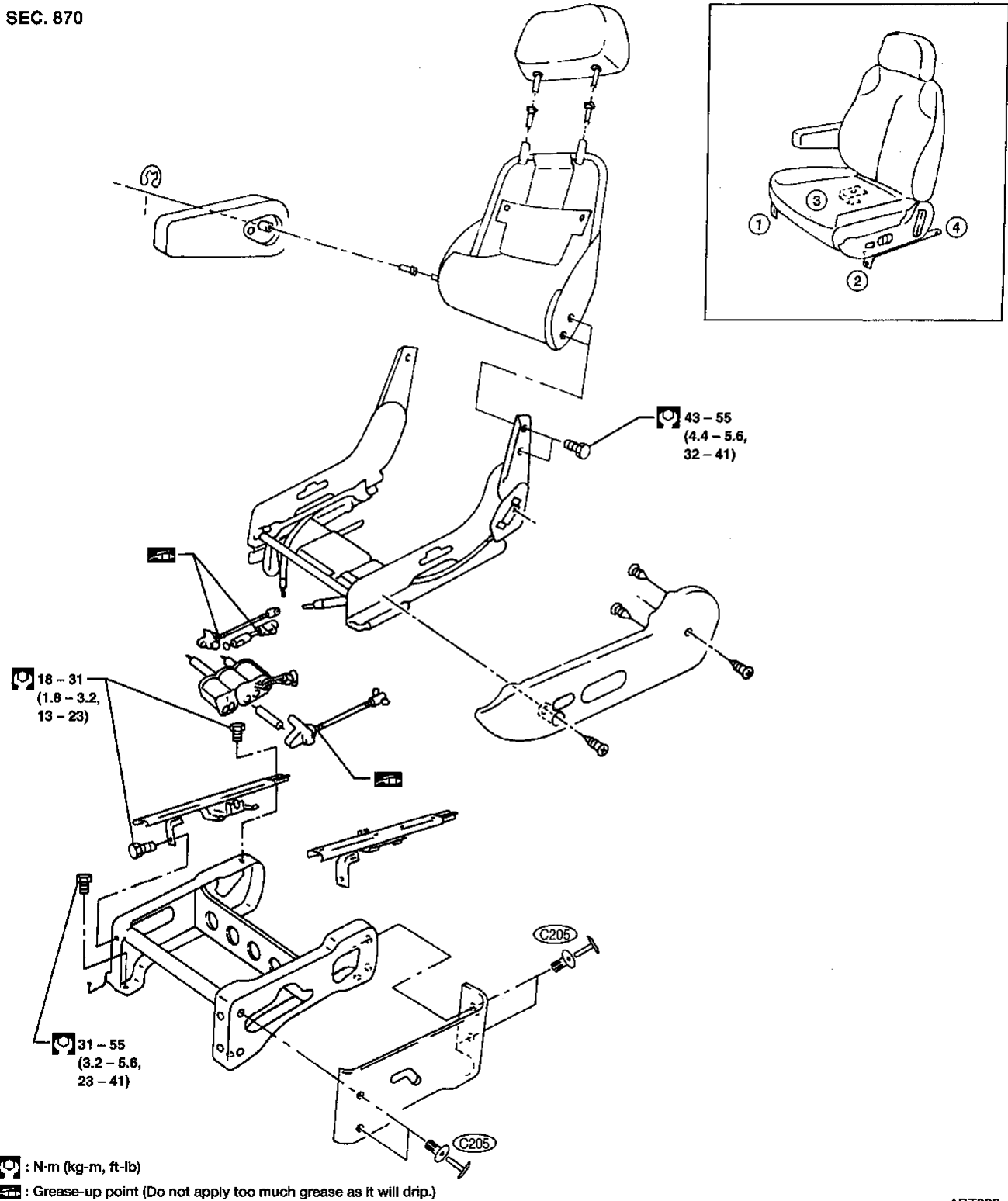
NDBT0014

- 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.

### POWER SEAT

NDBT0014S01

SEC. 870



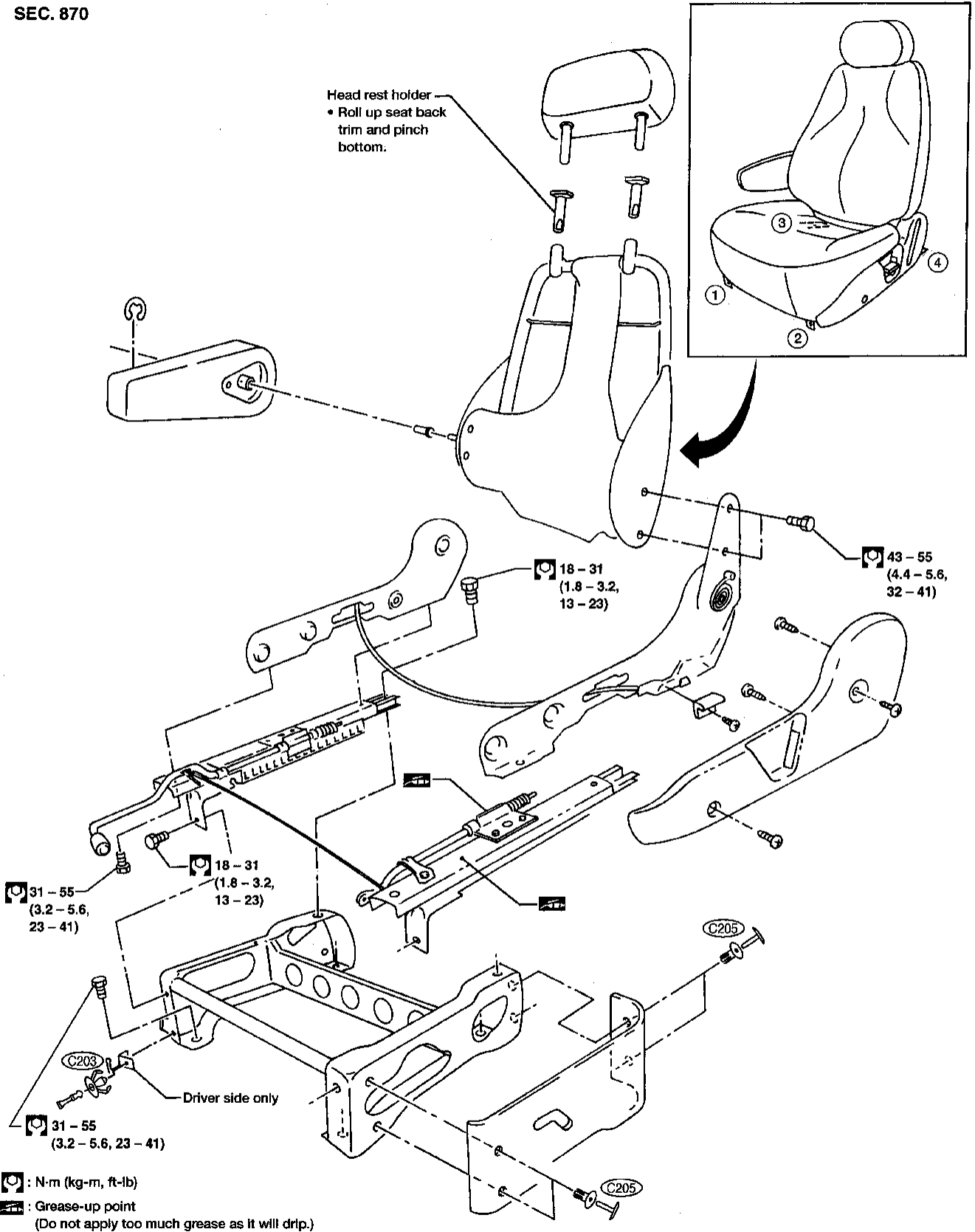
# FRONT SEAT

Removal and Installation (Cont'd)

## MANUAL SEAT

NDBT0014S02

SEC. 870



GI  
 MA  
 EM  
 LC  
 EC  
 FE  
 AT  
 AX  
 SU  
 BR  
 ST  
 RS  
**BT**  
 HA  
 SC  
 EL  
 IDX

BT-31

ABT382

# 2ND SEAT

Removal and Installation

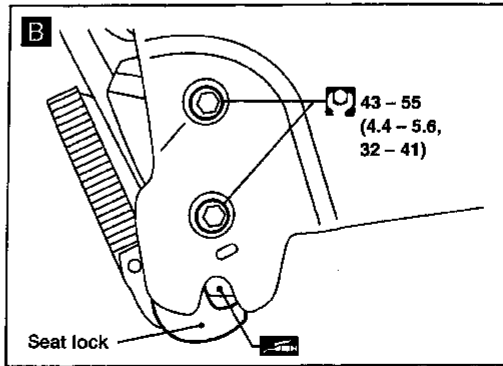
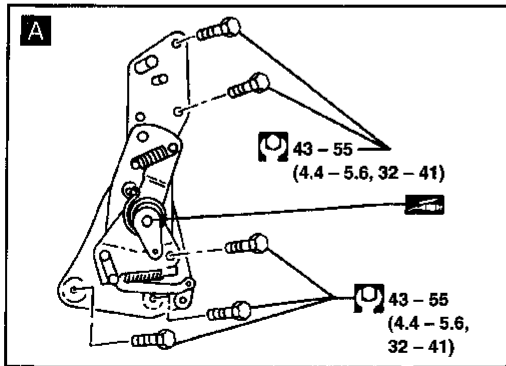
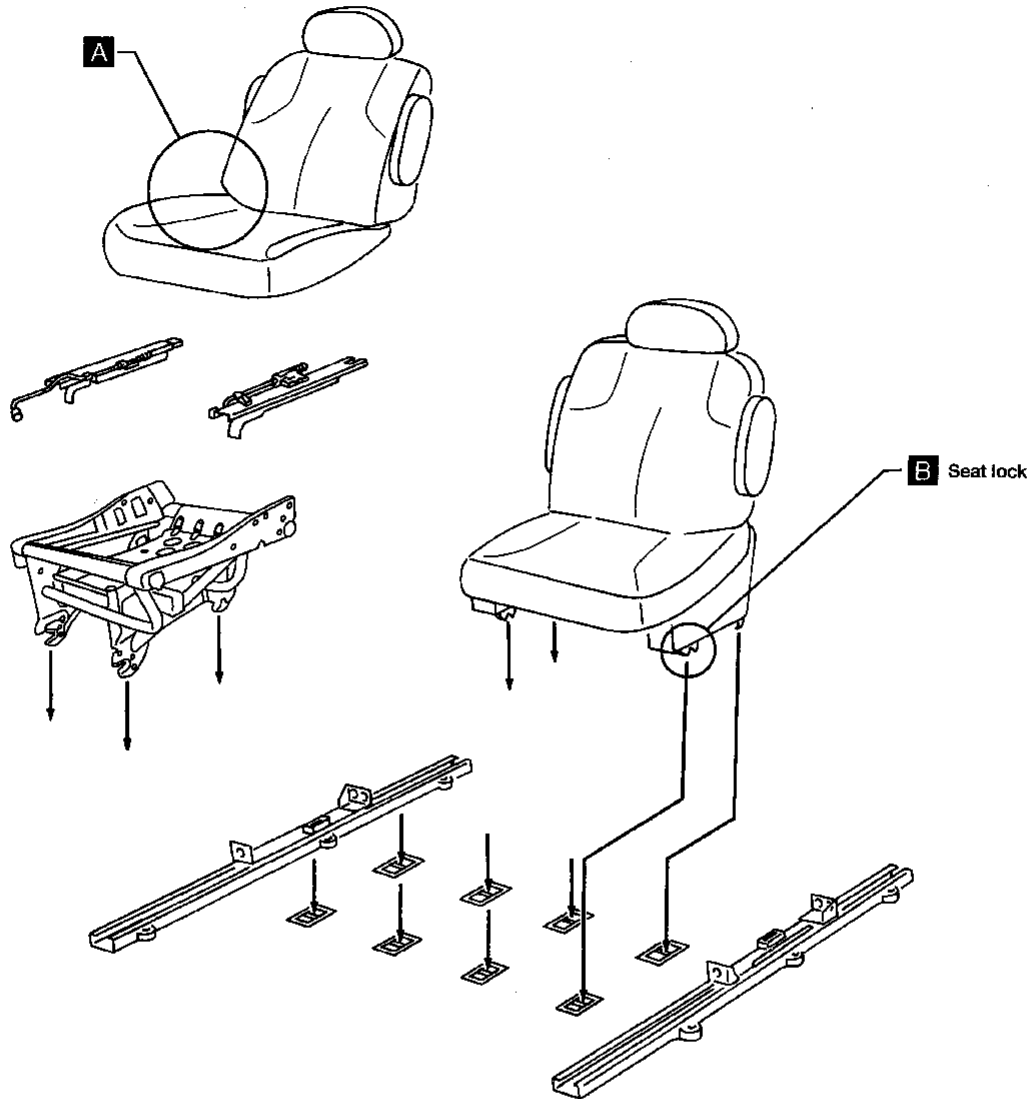
## Removal and Installation

### CAPTAIN'S CHAIR

NDBT0015

NDBT0015S01

SEC. 880C



: N·m (kg·m, ft·lb)

: Lubricate with grease



# 2ND SEAT

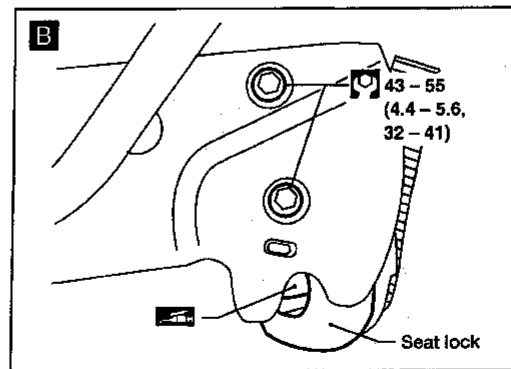
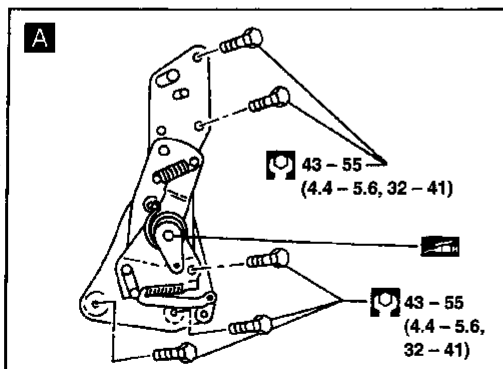
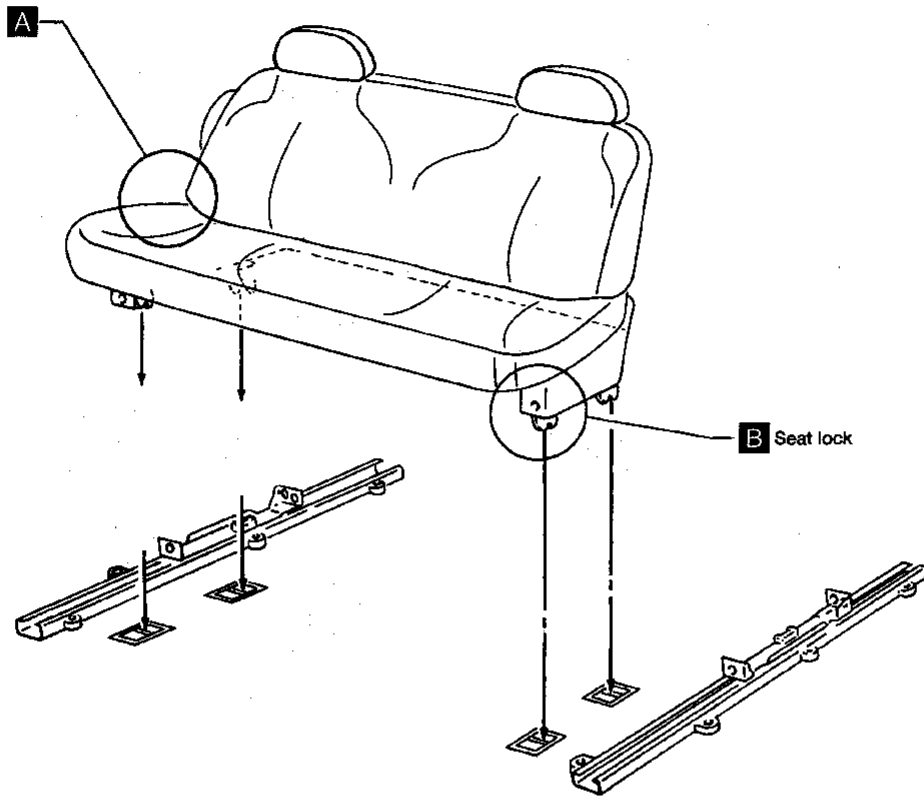
Removal and Installation (Cont'd)

## BENCH

- For "BUILT-IN CHILD SEAT", refer to RS section.

NDBT0015S02

SEC. 880B



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

 : Lubricate with grease

GI

MA

EM

LC

EC

FE

AT

AX

SU

BR

ST

RS

**BT**

HA

SC

EL

IDX

# 3RD SEAT

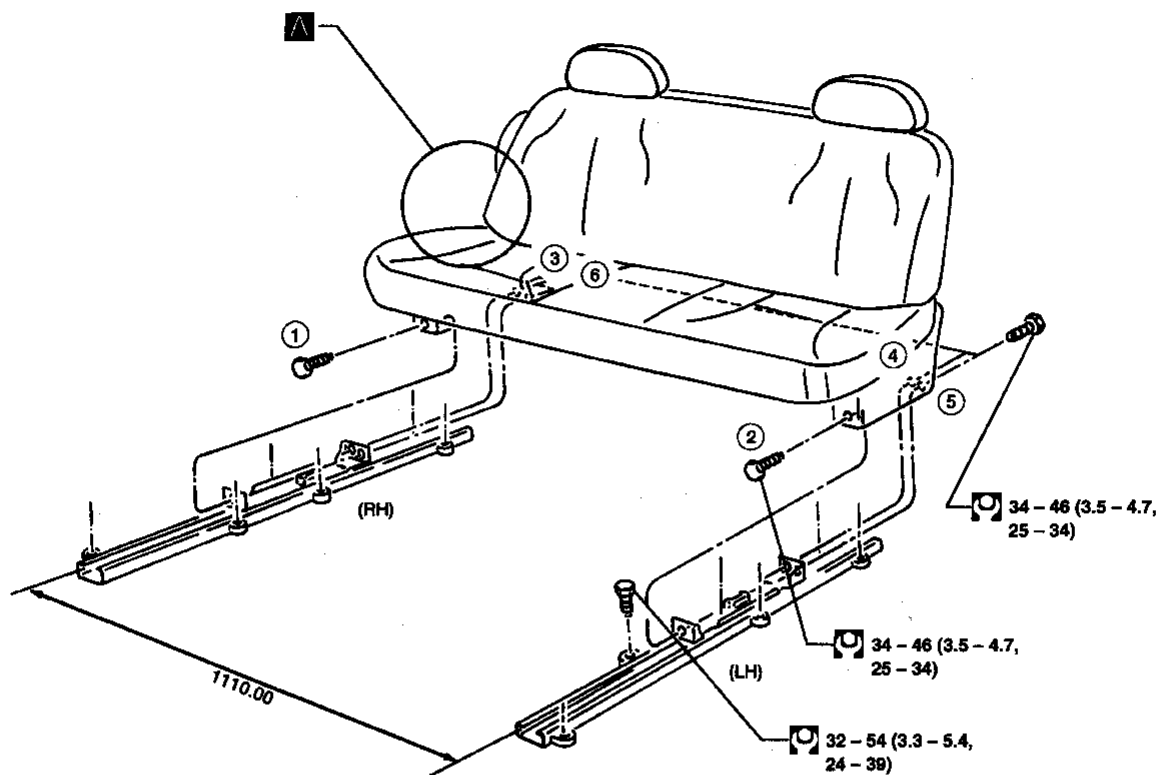
Removal and Installation

## Removal and Installation BENCH

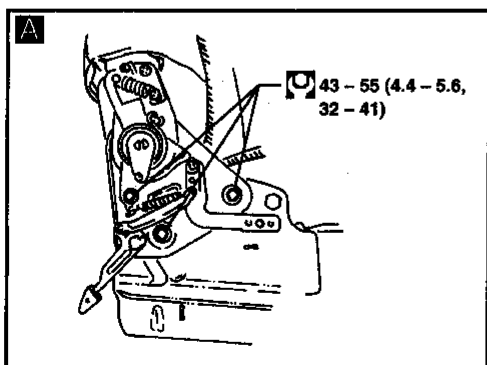
NDBT0023

NDBT0023S01

SEC. 880A



Important: Follow installation sequence and procedure.



: N·m (kg·m, ft·lb)

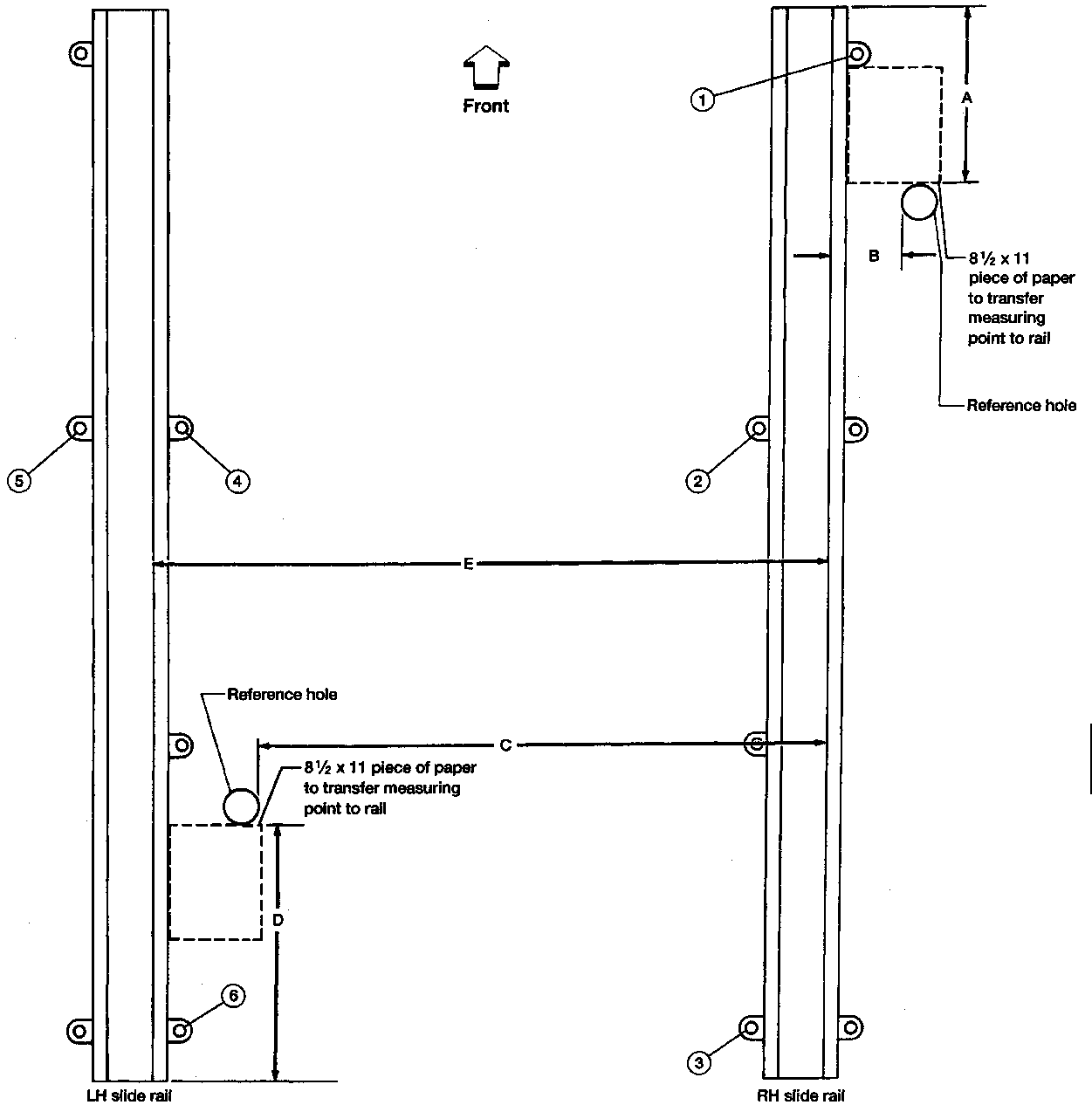
ABT386

# 3RD SEAT

Removal and Installation (Cont'd)

## 3RD SEAT SLIDING RAIL

NDBT0023502



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

ABT387

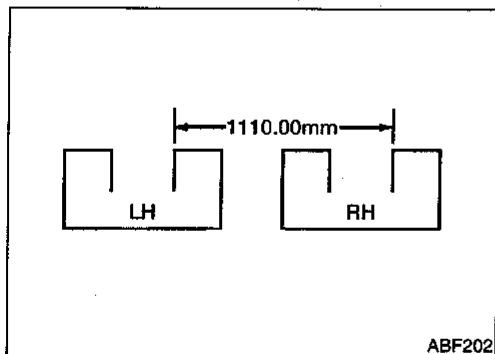
## 3RD SEAT

Removal and Installation (Cont'd)

### Installation for New Rails

NDBT002350201

- The following dimensions may vary by 0.5 mm (0.020 in) to obtain minimum effort to slide the 3rd seat.
  - Use an 8-1/2x11 inch piece of paper to determine distance from reference hole to edge of slide rail.
1. Position the RH slide assembly in the vehicle with the roller in 2nd seating position and loosely install bolts 1, 2 and 3.
  2. Measure distance "A".  
**Distance "A":**  
**321.3 mm (12.65 in)**
  3. Measure distance "B" with caliper.  
**Distance "B":**  
**87.7 mm (3.45 in)**
  4. Hand-tighten slide rail bolt 1.
  5. Measure distance "C".  
**Distance "C":**  
**885.50 mm (34.84 in)**
  6. Torque the RH side rail bolts 1, 2 and 3.  
**⊗ : 32 - 54 N·m (3.3 - 5.4 kg·m, 24 - 39 ft·lb)**
  7. Check distance "B" and "C" to confirm position, adjust if necessary.
  8. Position the LH slide assembly in the vehicle with roller in 2nd seating position and loosely install bolts 4, 5 and 6.
  9. Measure distance "D".  
**Distance "D":**  
**561.50 mm (22.11 in)**





10. Measure distance "E" between the right hand inner edge of each slide rail.  
**Distance "E":**  
**1,110.00 mm (43.70 in)**
  - Measure in two locations where no latch opening exists.
11. Hand-tighten slide rail bolts 4, 5 and 6.
12. Check distance "E" at several points along the slide rails, and adjust **only** the LH slide rail if necessary.
13. Torque the LH side rail bolts 4, 5 and 6.  
**⊗ : 32 - 54 N·m (3.3 - 5.4 kg·m, 24 - 39 ft·lb)**
14. Install the 3rd seat through side door.
  - Torque front 2 bolts of 3rd seat while it is in 2nd seat position.  
**⊗ : 34 - 46 N·m (3.5 - 4.7 kg·m, 25 - 34 ft·lb)**
  - Slide the 3rd seat to full rear position.
  - Hand-start all remaining bolts.
  - Torque rear position bolts, **inner bolts first**.  
**⊗ : 34 - 46 N·m (3.5 - 4.7 kg·m, 25 - 34 ft·lb)**
15. Check slide release effort.
16. Check slide effort.
17. Install all remaining slide rail bolts.
18. From front to rear, tighten the slide rail bolts.

BT-36

## 3RD SEAT

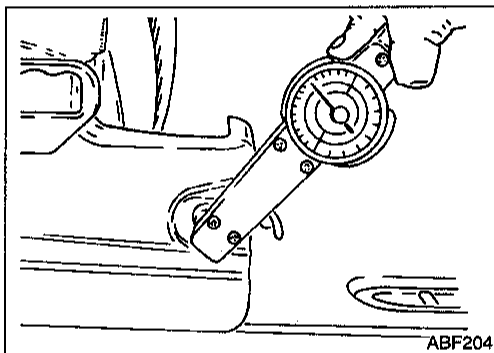
Removal and Installation (Cont'd)

 : 32 - 54 N·m (3.3 - 5.4 kg-m, 24 - 39 ft-lb)

19. Place the 3rd bench seat in the 2nd seating position and remove the 3rd bench seat.
20. Install the floor carpeting.
21. Install the 3rd seat through side door.
  - Torque front 2 bolts in 2nd seat position.  
 : 34 - 46 N·m (3.5 - 4.7 kg-m, 25 - 34 ft-lb)
  - Slide the 3rd seat to full rear position.
  - Hand-start all remaining bolts.
  - Torque rear position bolts, **inner bolts first**.  
 : 34 - 46 N·m (3.5 - 4.7 kg-m, 25 - 34 ft-lb)
22. Check slide release effort. Make adjustments as necessary.
23. Check slide effort. Make adjustments as necessary.

### Slide Release Effort Check

1. Remove plastic slide release handle to expose hex shaft. NDBT0023S0202

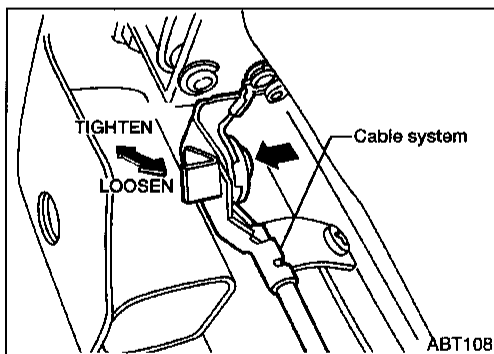


2. Check slide release effort with torque wrench and hex socket.

#### Release effort:

**2.0 - 9.0 N·m (20 - 92 kg-cm, 17 - 80 in-lb)**

- Torque value is read when the 3rd seat can just begin to move.
- Measure effort at all five positions.



3. If release effort is not within the specified value, adjust the tension of cable system.

- Loosen bolt on adjuster assembly.
- Slide the bolt in the slotted holder as needed to adjust slide release effort. (Tightening the cable will reduce slide release effort.)
- Tighten the bolt.

### Slide Effort Check

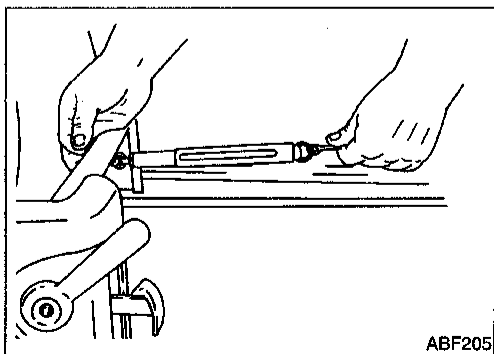
- Check slide effort. NDBT0023S0203

#### Maximum starting effort:

**118 N (12 kg, 26 lb)**

**(measured at center of the 3rd seat with slide release handle fully up)**

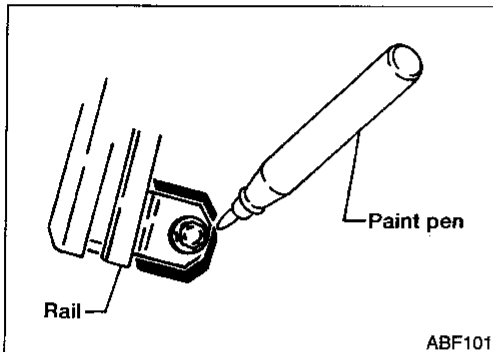
- Measure rearward starting effort at front four latch positions with a force gauge (spring scale).
- After starting efforts have been taken, slide the 3rd seat five times the full length of the slide rails. If at anytime the seat binds, stop and take the starting effort at that location.



## 3RD SEAT

### Removal and Installation (Cont'd)

- Adjust LH slide rail side-to-side for excessive slide effort.
- If force is too high, adjust only LH slide rail until force is correct.



### Removal and Installation of the Same Rails

NDBT002350204

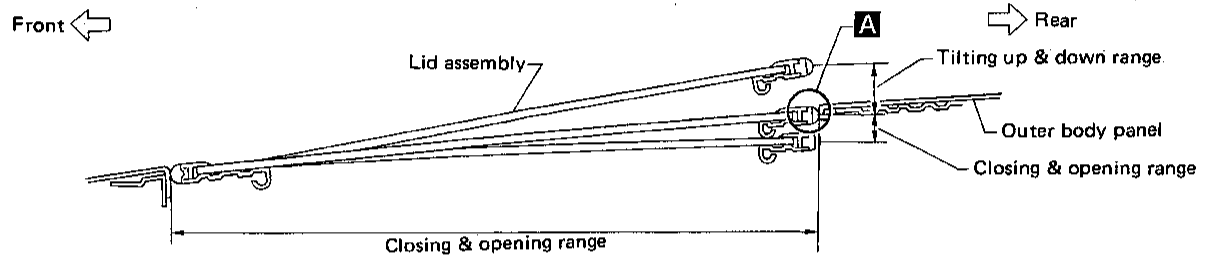
1. Mark the rails' positions on the floor panel at the points of bolts **1 to 6** before removing rails.
2. Loosen bolts and remove rails.
3. Install rails so that they will align with the marks made during step 1.  
Torque bolts 1 to 6.  
**□ : 32 - 54 N·m (3.3 - 5.4 kg-m, 24 - 39 ft-lb)**
4. Follow the procedures beginning with step 14 in "Installation for New Rails" BT-36, then perform "Slide Release Effort Check" BT-37, and "Slide Effort Check" BT-37.

## Adjustment

NDBT0016

**Install motor assembly and guide 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 sunroof switch.
4. Fit outer side of lid assembly to the surface of roof on body outer panel.
5. Remove motor, and keep sunroof switch pressed OPEN 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

GI

MA

EM

LC

EC

FE

AT

AX

SU

BR

ST

RS

**BT**

HA

SC

EL

IDX

# SUNROOF

## Removal and Installation

### Removal and Installation

=NDBT0017

- After any adjustment, check sunroof operation and sunroof glass alignment.
- Handle finisher plate and sunroof glass 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.

Sunroof frame assembly	Shade assembly	Lid assembly	Motor assembly
1 Sunroof glass mount bolts			
2 Sunroof glass assembly			
3 Rear drain mount screws			
4 Rear drain assembly			
5 Shade assembly			
6 Sunroof switch/interior accessories/headlining ∇ Refer to ROOF TRIM for details, *1.			
7 Motor assembly			
8 Wind deflector mount clips			
9 Wind deflector assembly			
10 Drain hoses			
11 Sunroof unit bracket			
12 Sunroof guide rail assembly			

ABT394

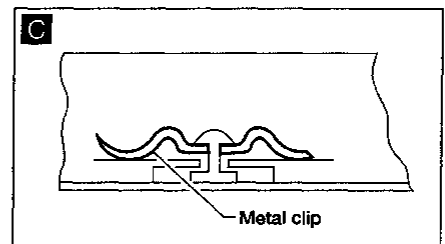
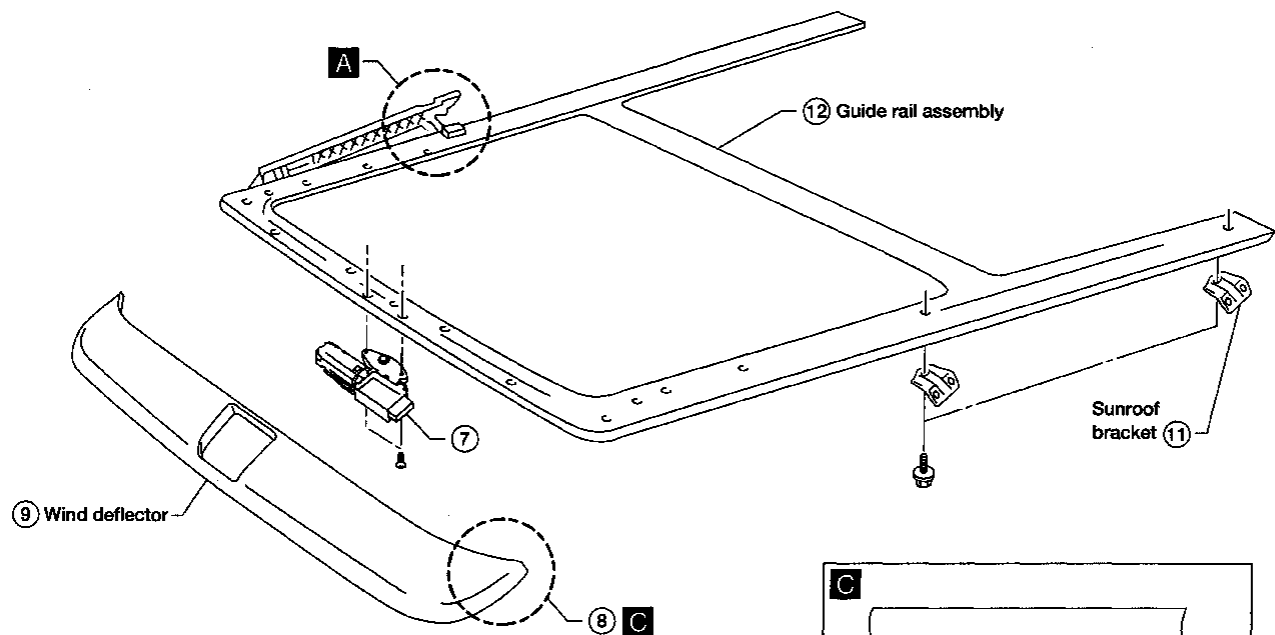
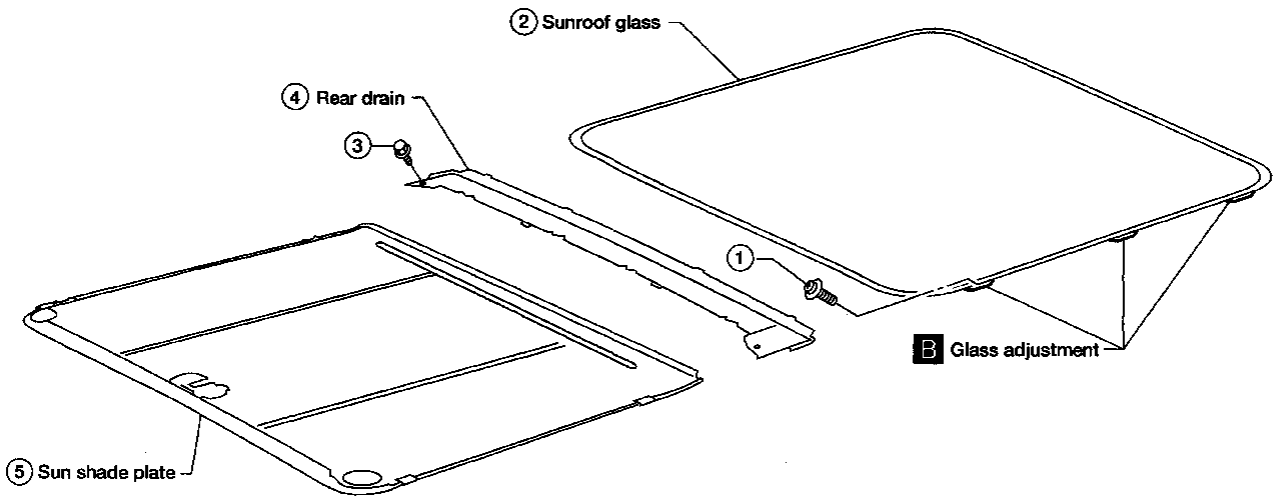
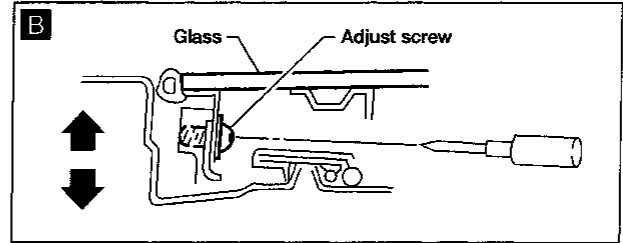
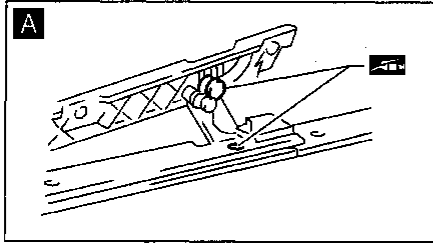
\*1 BT-24



# SUNROOF

Removal and Installation (Cont'd)

SEC. 736



: N·m (kg·m, in·lb)

: Should be lubricated with grease

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

ABT395

BT-41

# SUNROOF

Trouble Diagnoses

## Trouble Diagnoses DIAGNOSTIC TABLE

=NDBT0018

NDBT0018S01

### NOTE:

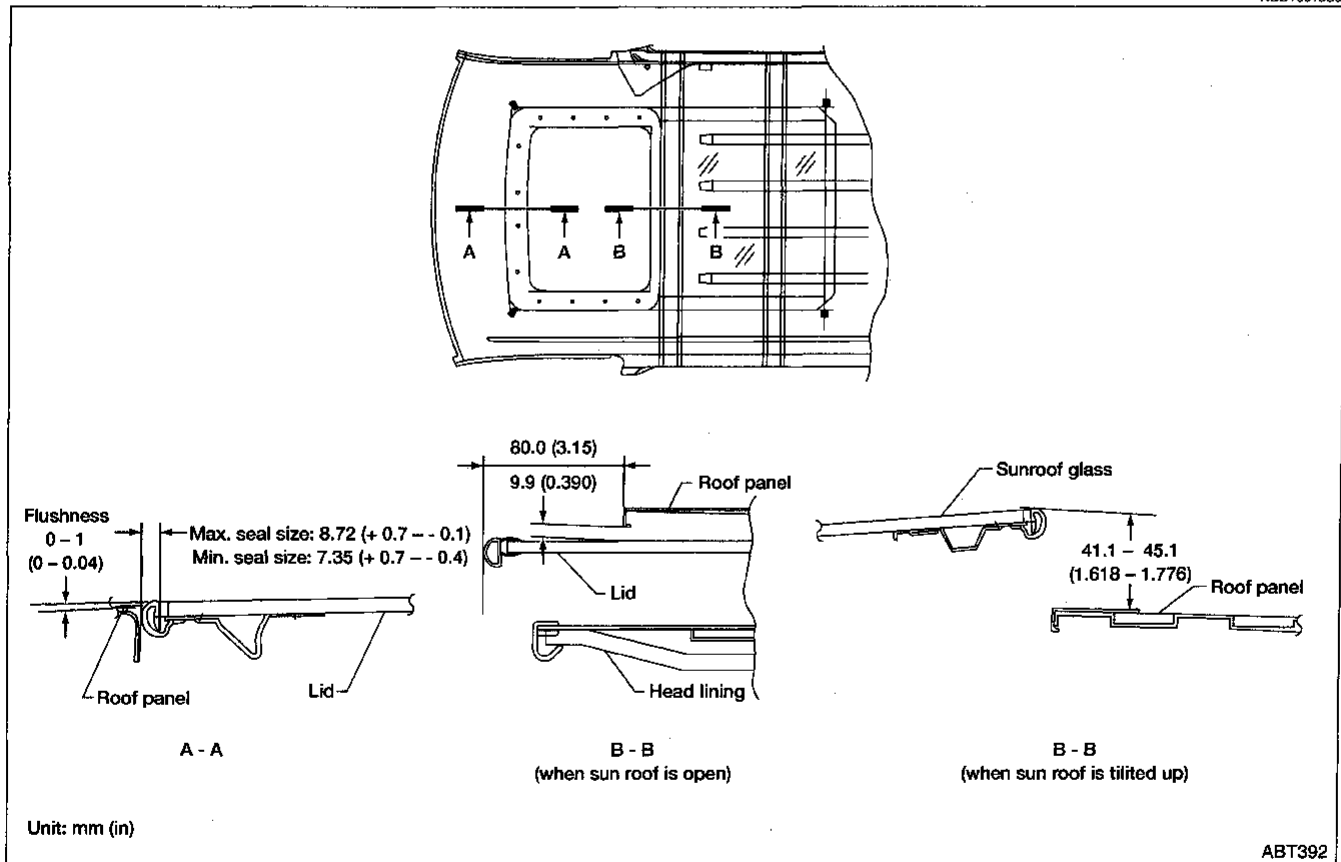
For diagnosing electric problem, refer to "POWER SUNROOF" in EL section.

	Reference page	Check items (Components)					
		Wind deflector	Sun shade	Adjustment	Drain hoses	Weatherstrip	Guide rail assembly
		BT-40	BT-40	BT-42	BT-43	BT-44	BT-44
Symptom	Excessive wind noise	1		2		3	
	Water leaks			1	2	3	
	Sunroof rattles		1	1	4	2	3
	Excessive operation noise		1	1		2	3

The numbers in this table mean checking order.

## ADJUSTMENT

NDBT0018S03



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

### Gap Adjustment

1. Open shade assembly.
2. Tilt sunroof glass up.

NDBT0018S0301

## BT-42

# SUNROOF

Trouble Diagnoses (Cont'd)

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

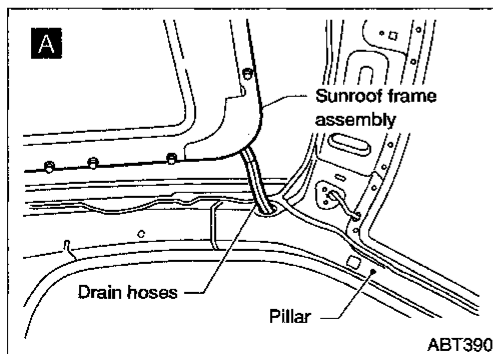
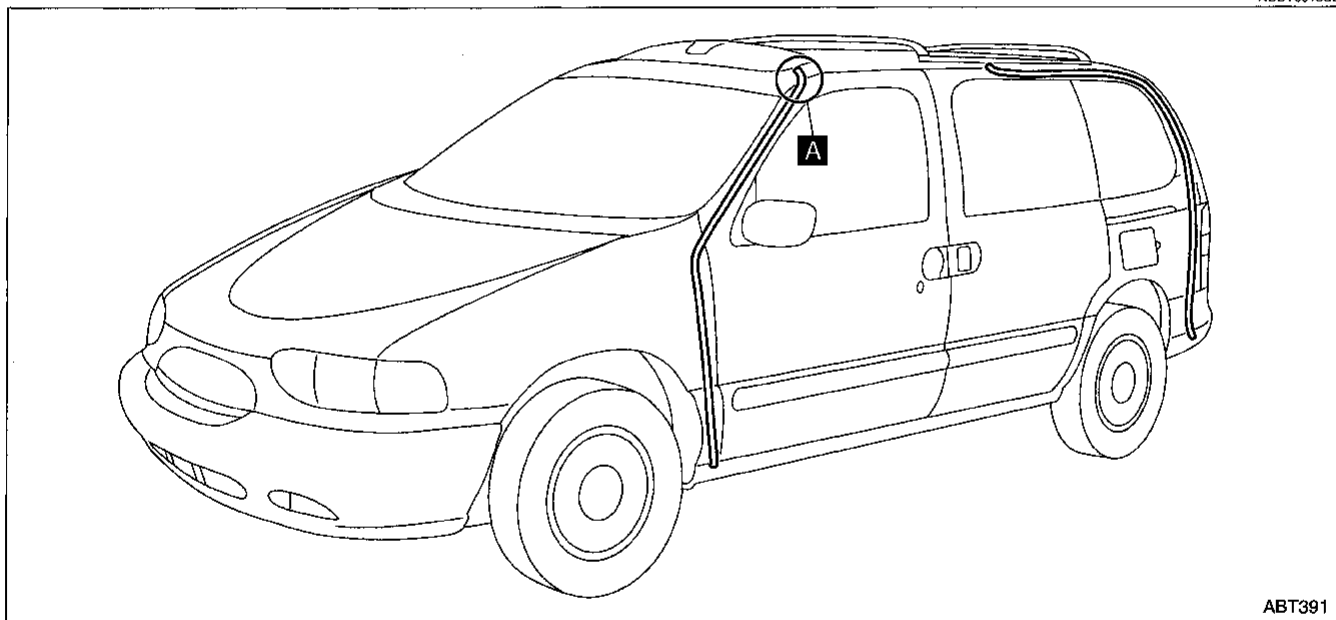
## Height Difference Adjustment

NDBT0018S0302

1. Tilt sunroof glass up and down.
2. Check height difference between roof panel and sunroof glass 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 sunroof glass and guide rail assembly.
  - If sunroof glass 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.

## DRAIN HOSES

NDBT0018S04



1. Remove headlining to access drain hose connections. (Refer to "Removal and Installation" in "ROOF TRIM", BT-24, 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.
4. Remove drain hoses and check visually for any damage, cracks, or deterioration.
5. Pour water into drain hoses and find damaged portion.

## BT-43

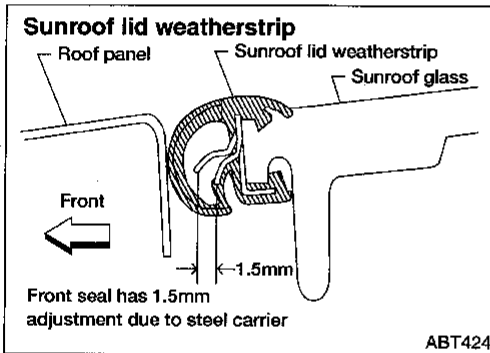
# SUNROOF

- If any damaged portion is found at each step, replace the damaged part.

## WEATHERSTRIP

NDBT0018S05

- In the case of leakage around sunroof glass, close sunroof glass and pour water over glass lid to find damaged or gap portion.
1. Remove sunroof glass assembly. (Refer to removal procedures, BT-40, for details.)



2. Visually check weatherstrip for proper installation. If a gap exists between sunroof glass and weatherstrip, check sunroof glass fit and adjust. (Refer to "ADJUSTMENT" BT-42.) If the gap still exists, remove sunroof glass and adjust seal using plastic applicator. The applicator should be placed in the seal groove to tighten gap.
  3. Check weatherstrip visually for any damage, deterioration, or flattening.
- If any damage is found, replace weatherstrip.

### CAUTION:

Do not remove weatherstrip.

## GUIDE RAIL ASSEMBLY

NDBT0018S06

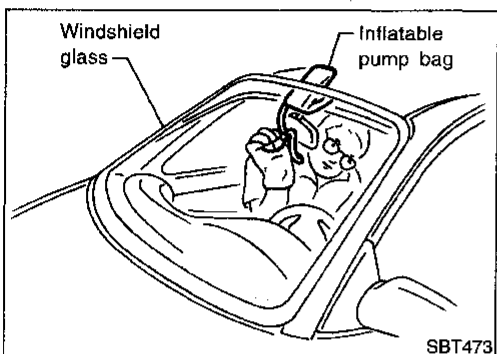
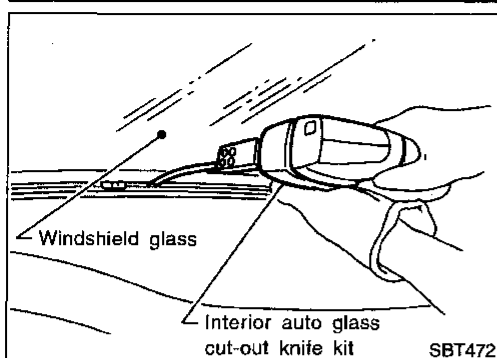
### NOTE:

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

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 guide rail assembly.
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.
3. Check wire for any damage or deterioration. If any damage is found, replace guide rail assembly (refer to removal procedures, BT-40 for details).

# WINDSHIELD AND WINDOWS

Removal and Installation



## Removal and Installation

### REMOVAL

After removing side windshield moldings, remove glass using 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 AND WINDOWS

Removal and Installation (Cont'd)

## WINDSHIELD AND REAR WINDOW

NDBT0019S03

### Windshield

### Rear Window

Install moulding to glass.  
Rear window

Apply urethane adhesive evenly.  
Windshield and rear window

7 - 8 (0.28 - 0.31)

Unit: mm (in)

ABT397

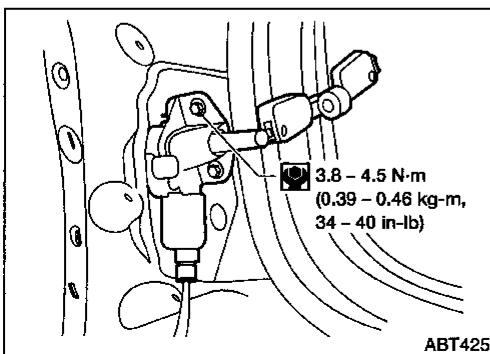
### Repairing Water Leaks for Windshield and Rear Window

NDBT0019S001

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.



### REAR SIDE WINDOW

#### Removal and Installation

NDBT0019S04

NDBT0019S0401

1. Remove rear gate kicking plate.
2. Remove rear roof garnish.
3. Remove parcel shelf and rear side lower garnish finisher.
4. Remove rear side lower garnish.
5. Remove C pillar upper garnish and D pillar upper garnish.
6. Disconnect power vent window motor connector.
7. Remove bolts securing power vent window motor.

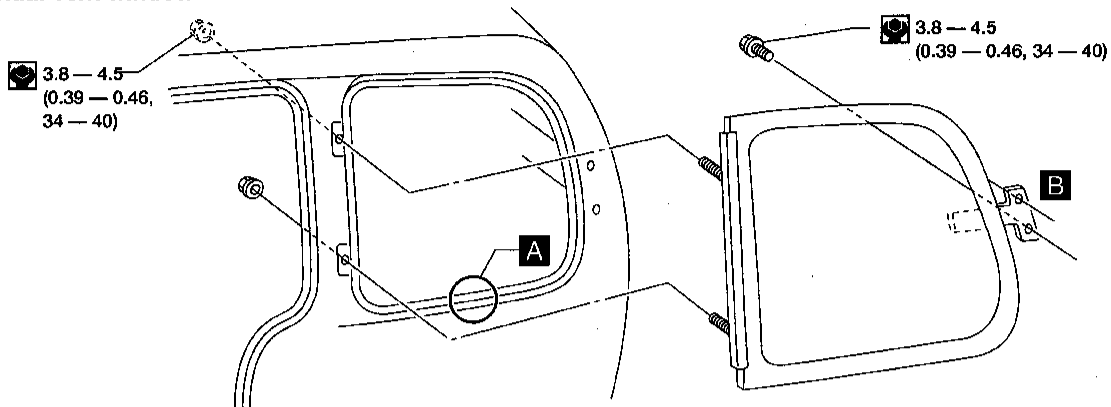
Reverse the procedure for installation.

# WINDSHIELD AND WINDOWS

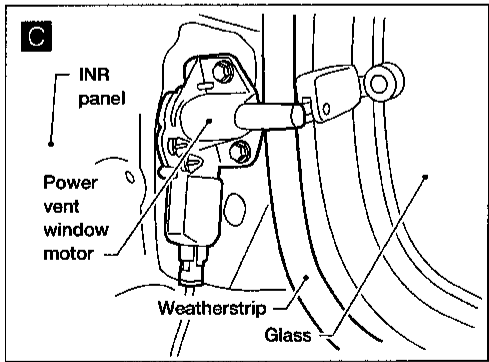
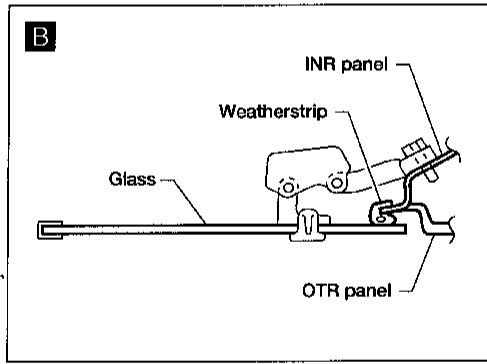
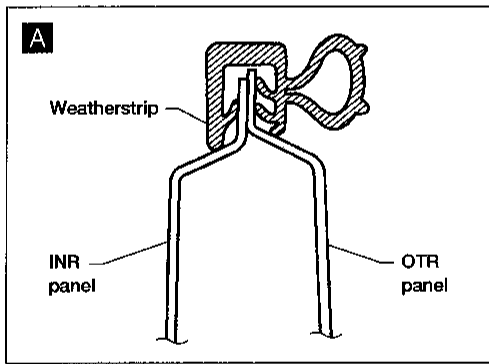
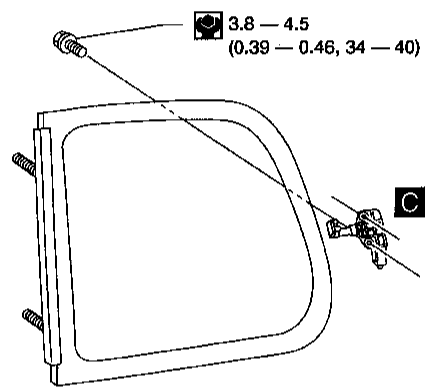
Removal and Installation (Cont'd)

## SEC. 830

### Manual vent window



### Power vent window



: N/Em (kg-m, in-lb)

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

ABT389

# DOOR MIRROR

Removal and Installation

## Removal and Installation

NDBT0020

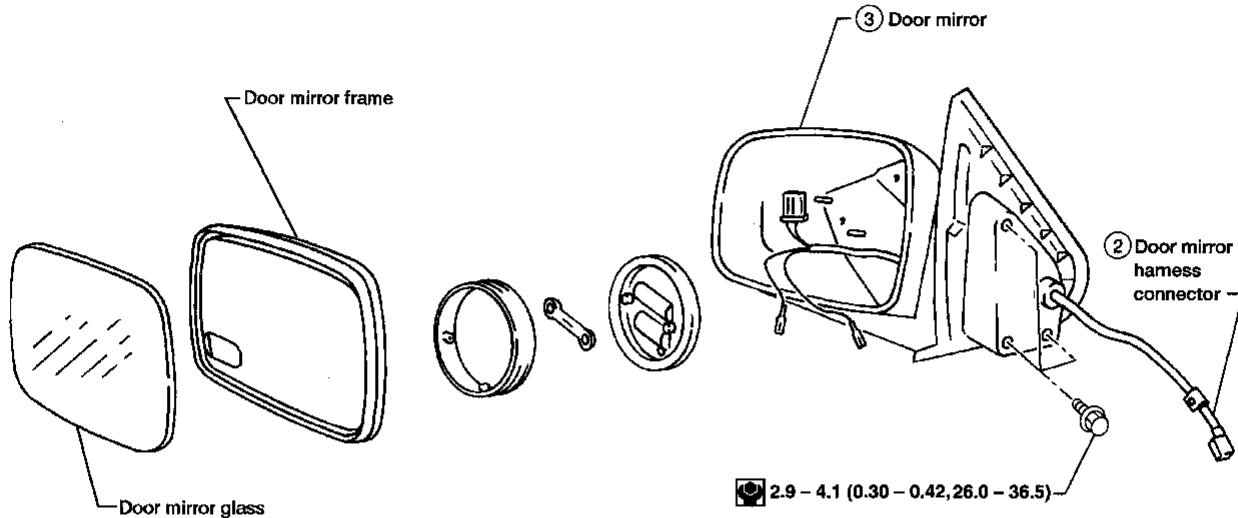
### CAUTION:

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-22.
2. Disconnect door mirror harness connector and clip.
3. Remove bolts securing door mirror, then remove door mirror assembly.

SEC. 963



### Mirror glass replacement

#### CAUTION:

Do not exceed specified temperature or time limit. Excess heat or duration may cause damage to the mirror housing.

#### • Removal

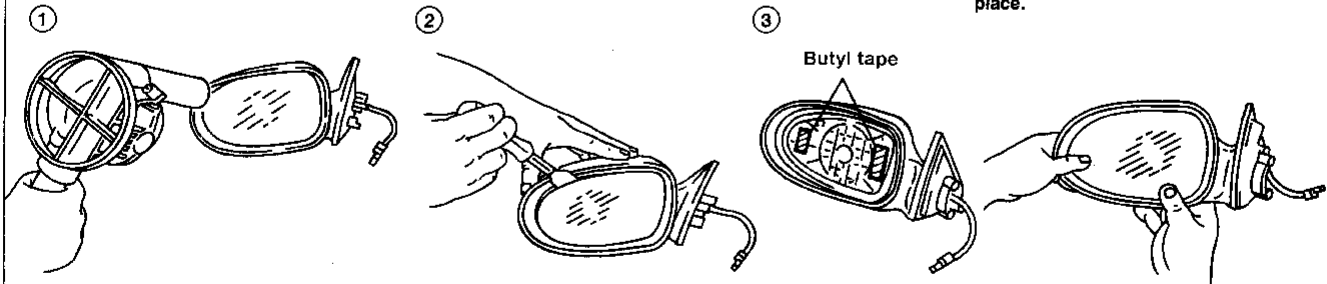
1. Use a heat lamp (at least 500 watts) to thoroughly warm the frame edge of the door mirror glass to approximately 70°C (159 F) for three minutes.

2. Insert a stiff blade scraper between the mirror glass and the frame. Pry the glass loose.

3. Remove any remaining adhesive (butyl tape) from the mounting surface on the frame.

#### • Installation

1. Install butyl/adhesive tape (2 pieces) on the frame.
2. Warm the mirror glass frame edge thoroughly with a heat lamp.
3. Position mirror glass on frame. Carefully press on the mirror glass to seat it in place.



ABT421



# REAR VIEW MIRROR

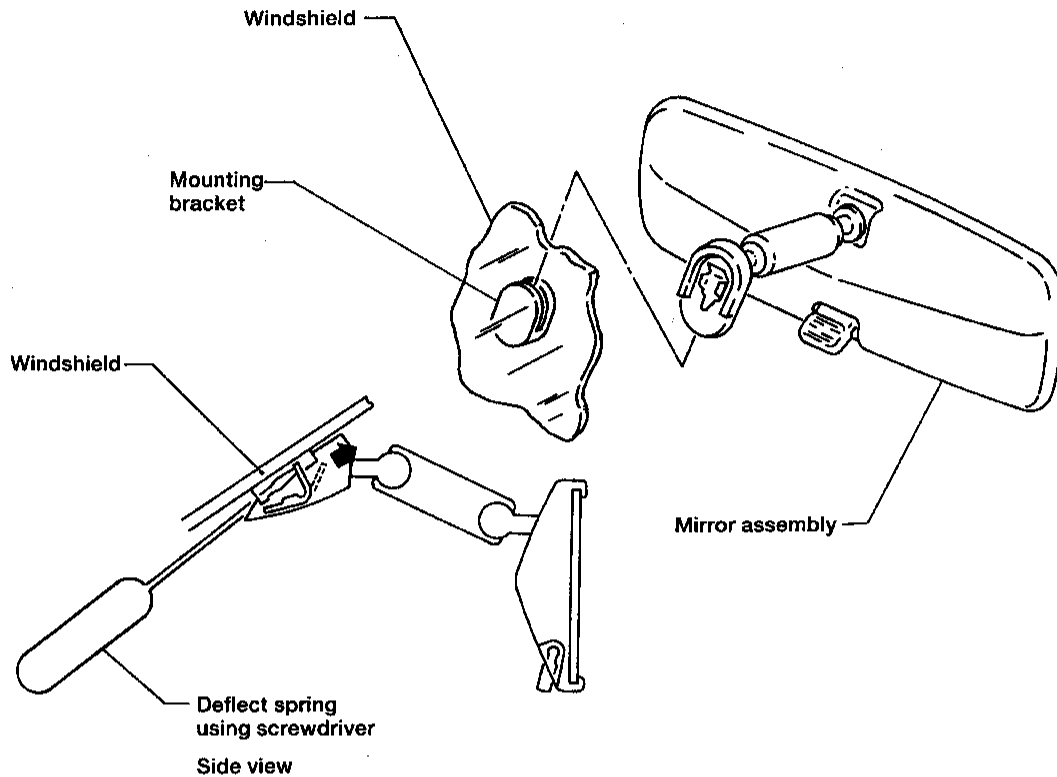
Removal

## Removal

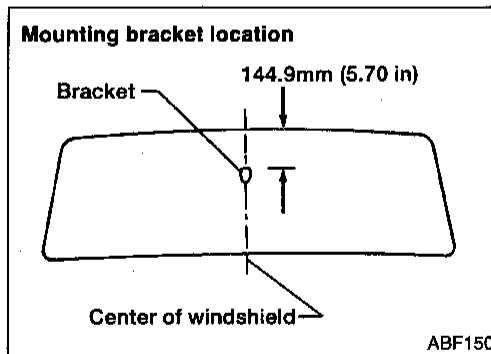
Remove rearview mirror by pushing deflect spring with screwdriver as shown in the figure.

NDBT0024

SEC. 963



ABT083



## Installation

NDBT0025

1. Install mounting bracket as follows:
  - a. Determine mounting bracket position on windshield by measuring from top of windshield to top of mounting bracket as shown in the figure.
  - b. Mark location on outside of windshield with wax pencil or equivalent.
  - c. Clean attaching point on inside of windshield with an alcohol-saturated paper towel.
  - d. Sand bonding surface of mounting bracket with sandpaper (No. 320 or No. 360).
  - e. Clean bonding surface of mounting bracket with an alcohol-saturated paper towel.
  - f. Apply Loctite Adhesive 11067-2 or equivalent to bonding surface of mounting bracket.
  - g. Install mounting bracket at premarked position and press mounting bracket against glass for 30 to 60 seconds.
  - h. After five minutes, wipe off excess adhesive with an alcohol-moistened paper towel.
2. Install rearview mirror.

# BODY (ALIGNMENT)

## Alignment

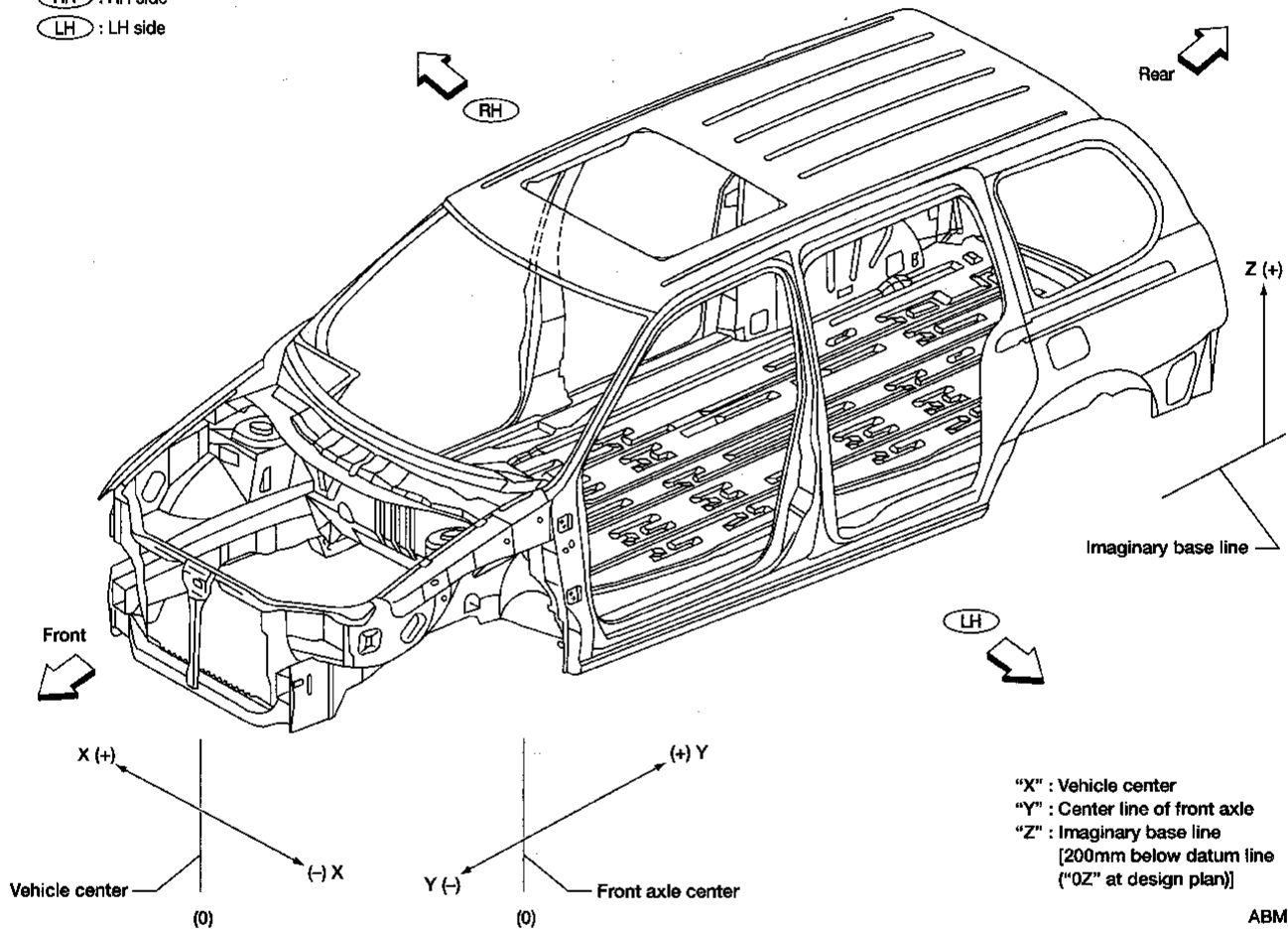
### Alignment

NDBT0021

- 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".

(RH) : RH side

(LH) : LH side



ABM199

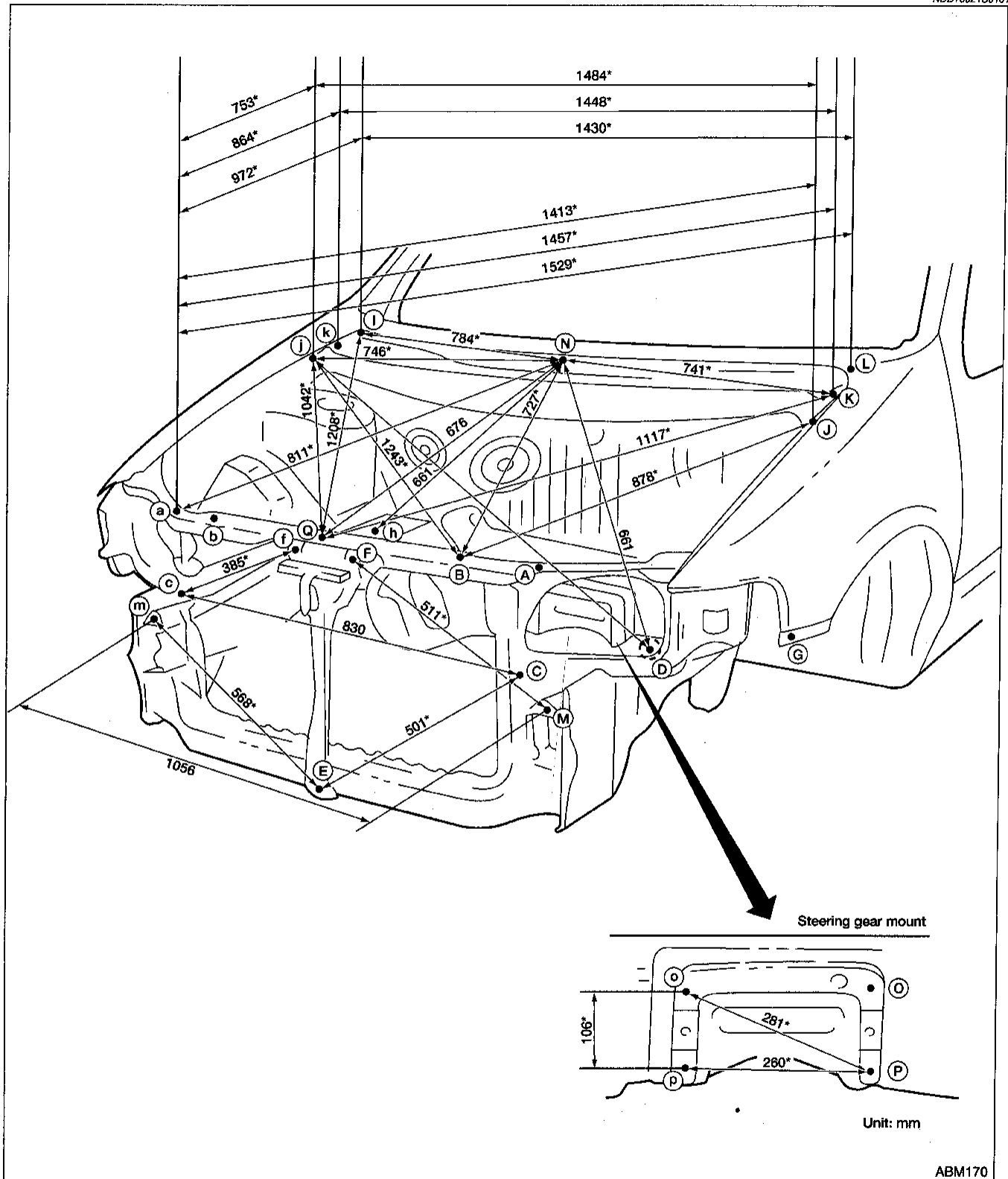
# BODY (ALIGNMENT)

Alignment (Cont'd)

## ENGINE COMPARTMENT Measurement

NDBT0021S01

NDBT0021S0101



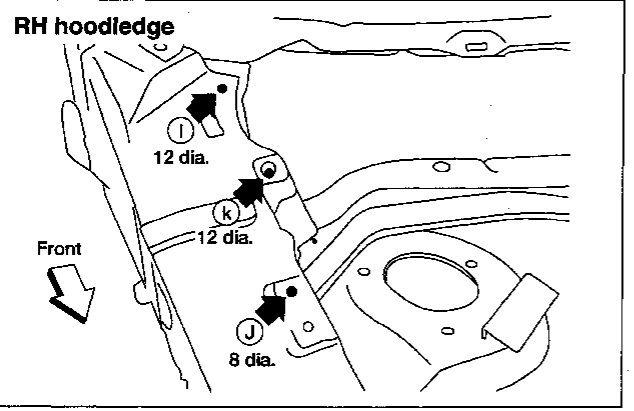
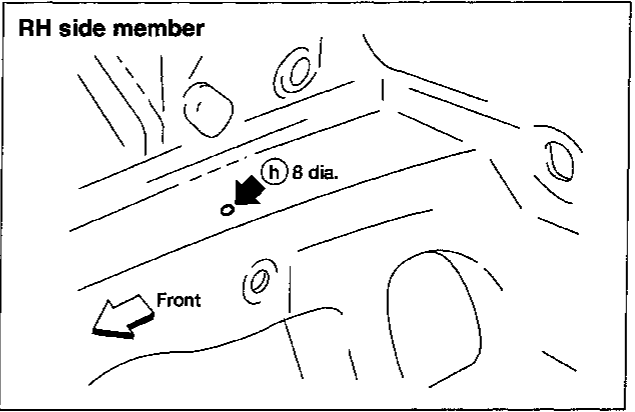
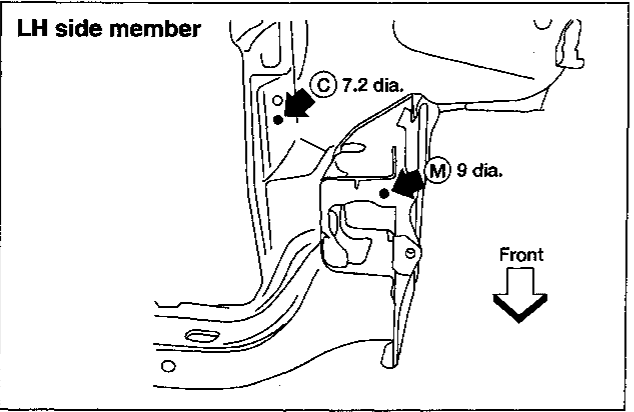
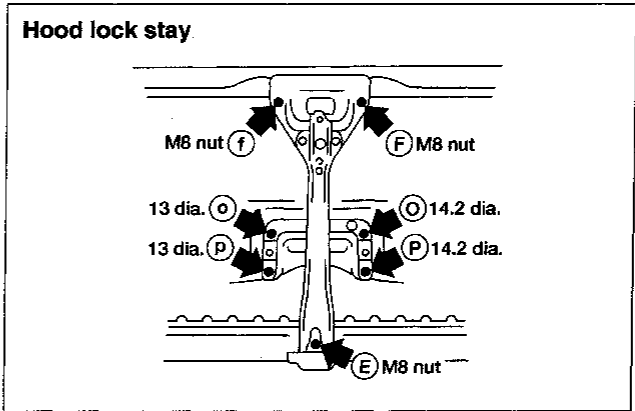
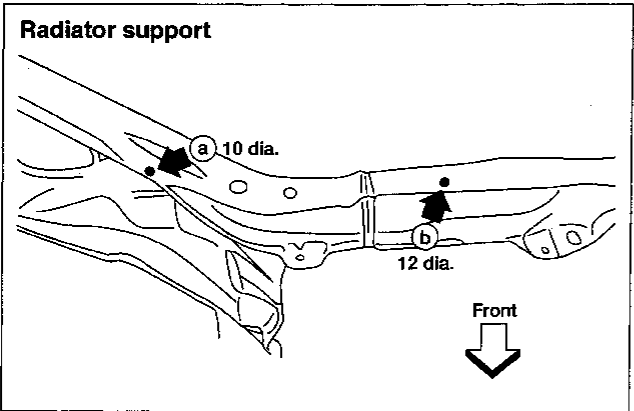
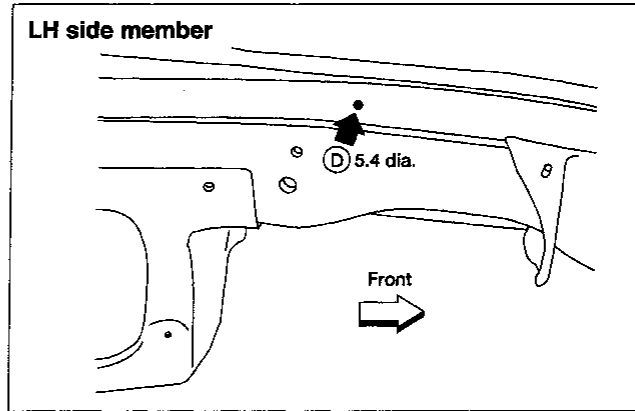
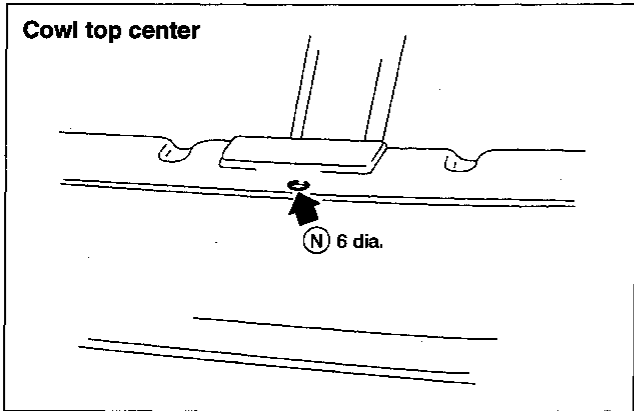
GI  
MA  
EM  
LC  
EC  
FE  
AT  
AX  
SU  
BR  
ST  
RS  
BT  
HA  
SC  
EL  
IDX

# BODY (ALIGNMENT)

Alignment (Cont'd)

## Measurement Points

NDBT002150102



ABT398



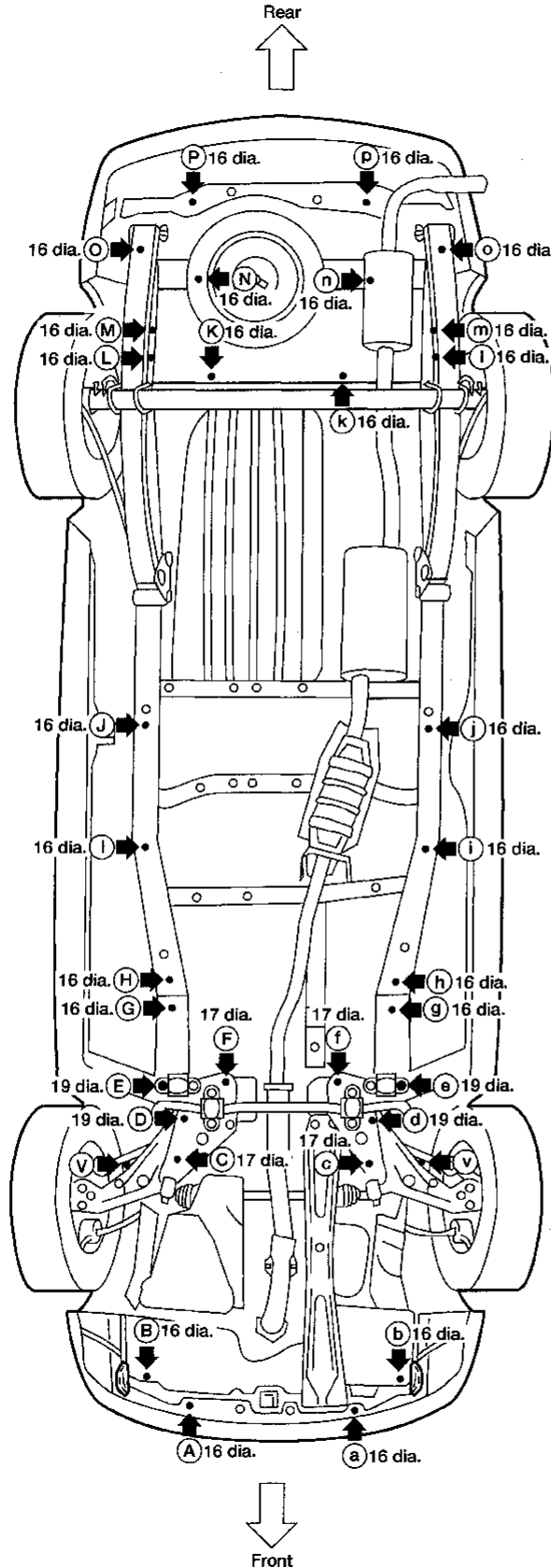
# BODY (ALIGNMENT)

Alignment (Cont'd)

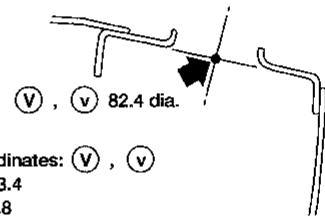
NDBT0021S0202

## Measurement Points

- |          |          |
|----------|----------|
| (A), (a) | (O), (o) |
| X: 295   | X: 555   |
| Y: -750  | Y: 3410  |
| Z: 218.8 | Z: 378.1 |
| (B), (b) | (P), (p) |
| X: 465   | X: 390   |
| Y: -734  | Y: 3685  |
| Z: 436   | Z: 345.6 |
| (C), (c) |          |
| X: 421.5 |          |
| Y: 105   |          |
| Z: 187.9 |          |
| (D), (d) |          |
| X: 358.8 |          |
| Y: 264.4 |          |
| Z: 220.5 |          |
| (E), (e) |          |
| X: 470.5 |          |
| Y: 373.3 |          |
| Z: 232.2 |          |
| (F), (f) |          |
| X: 236.5 |          |
| Y: 373.3 |          |
| Z: 232.2 |          |
| (G), (g) |          |
| X: 450   |          |
| Y: 580   |          |
| Z: 236.5 |          |
| (H), (h) |          |
| X: 450   |          |
| Y: 700   |          |
| Z: 236.5 |          |
| (I), (i) |          |
| X: 555   |          |
| Y: 1170  |          |
| Z: 232   |          |
| (J), (j) |          |
| X: 555   |          |
| Y: 1570  |          |
| Z: 249.7 |          |
| (K)      |          |
| X: 340   |          |
| Y: 2850  |          |
| Z: 353.7 |          |
| (k)      |          |
| X: 410   |          |
| Y: 2850  |          |
| Z: 379.1 |          |
| (L), (l) |          |
| X: 555   |          |
| Y: 2975  |          |
| Z: 357.1 |          |
| (M), (m) |          |
| X: 555   |          |
| Y: 3150  |          |
| Z: 365.1 |          |
| (N), (n) |          |
| X: 300   |          |
| Y: 3300  |          |
| Z: 397.1 |          |



Front strut tower centers



Coordinates: (V), (v)  
 X: 593.4  
 Y: 14.8  
 Z: 853.1