

SECTION BF

GI
MA
EM
LC
EF &
EC
FE
AT
PD
FA
RA
BR
ST
BF
HA
EL

CONTENTS

GENERAL SERVICING	2	Rear Air Spoiler.....	37
Precautions.....	2	BODY ALIGNMENT	38
Supplemental Restraint System "AIR BAG" and "SEAT BELT PRE-TENSIONER".....	2	Engine Compartment.....	38
Circuit Breaker Inspection.....	2	Underbody.....	40
Clip and Fastener.....	3	SUPPLEMENTAL RESTRAINT SYSTEM (SRS)	42
BODY END	5	Precautions for SRS "Air Bag" and "Seat Belt Pre-tensioner" Service.....	42
Body Front End.....	5	Special Service Tools.....	42
Body Rear End and Opener.....	7	Commercial Service Tools.....	42
DOOR	10	Description.....	43
Front Door.....	10	SRS Component Parts Location.....	44
Rear Door.....	11	Caution Labels.....	45
INSTRUMENT PANEL	12	Maintenance Items.....	47
INTERIOR AND EXTERIOR	14	Removal and Installation — Control Unit, Sensors and Seat Belt Pre-tensioner.....	48
Interior.....	14	Removal — Air Bag Module and Spiral Cable.....	49
Exterior.....	20	Removal — Front Passenger Air Bag Module.....	50
SEAT	26	Installation — Air Bag Module and Spiral Cable.....	51
Front Seat.....	26	Installation — Front Passenger Air Bag Module.....	53
Rear Seat.....	31	Scrapping Air Bag and Seat Belt Pre-tensioners.....	53
SUN ROOF	32	TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)	56
Wiring Diagram.....	33	Contents.....	56
WINDSHIELD AND WINDOWS	34		
Windshield and Rear Window.....	34		
Opera Window.....	35		
MIRROR AND REAR AIR SPOILER	36		
Door Mirror.....	36		

When you read wiring diagrams:

- Read GI section, "HOW TO READ WIRING DIAGRAMS".
- See EL section, "POWER SUPPLY ROUTING" for power distribution circuit.

When you perform trouble diagnoses, read GI section, "HOW TO FOLLOW FLOW CHART IN TROUBLE DIAGNOSES".

WIRING DIAGRAM REFERENCE CHART

POWER WINDOW — LAN	EL SECTION
POWER DOOR LOCK — LAN	EL SECTION
AUTOMATIC DRIVE POSITIONER — LAN	EL SECTION
POWER SEAT FOR FRONT RH — LAN	EL SECTION
MULTI-REMOTE CONTROL SYSTEM — LAN	EL SECTION
DOOR MIRROR — LAN	EL SECTION

Precautions

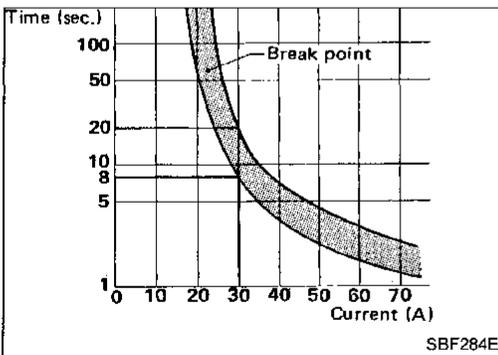
- When removing or installing various parts, place a cloth or padding onto the vehicle body to prevent scratches.
- Handle trim, molding, instruments, grille, etc. carefully during removing or installation. Be careful not to soil or damage them.
- Apply sealing compound where necessary when installing 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 “AIR BAG” and “SEAT BELT PRE-TENSIONER”

The Supplemental Restraint System “Air Bag” and “Seat Belt Pre-tensioner” help 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 bags (located in the center of the steering wheel and on the instrument panel on the passenger side), seat belt pre-tensioners, sensors, a diagnosis unit, warning lamp, wiring harness and spiral cable. Information necessary to service the system safely is included in the **BF section** of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could lead to personal injury or death in the event of a severe frontal collision, all maintenance must be performed by an authorized INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system.
- All SRS air bag electrical wiring harnesses and connectors are covered with yellow outer insulation. Do not use electrical test equipment on any circuit related to the SRS SYSTEM.



Circuit Breaker Inspection

For example, when current is 30A, the circuit is broken within 8 to 20 seconds.

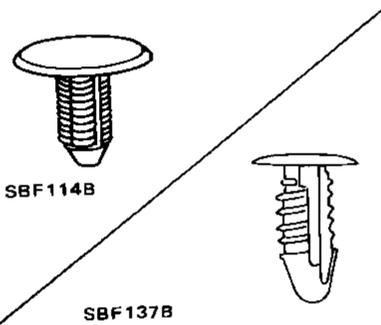
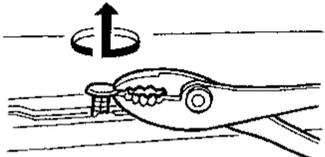
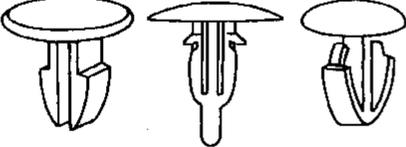
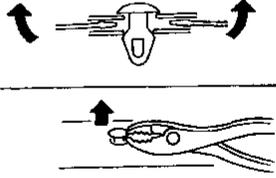
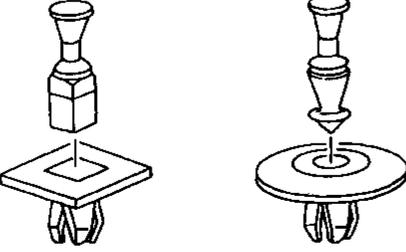
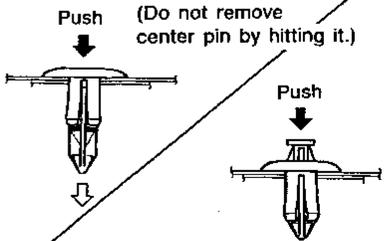
Circuit breakers are used in the following systems.

- Power sun roof

GENERAL SERVICING

Clip and Fastener

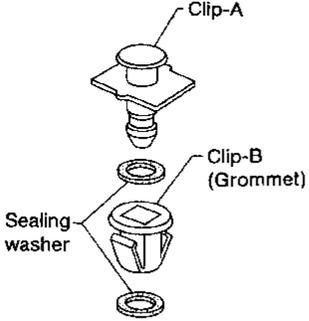
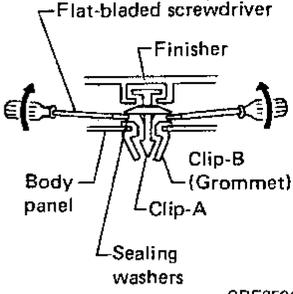
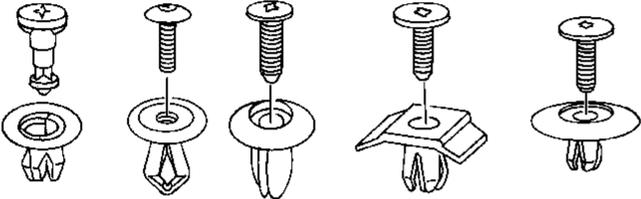
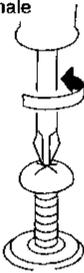
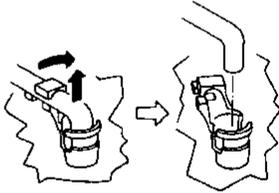
- Clips and fasteners in BF section correspond to the following numbers and symbols.
- Replace any clips and/or fasteners which are damaged during removal or installation.

Symbol No.	Shapes	Removal & Installation
<p>C101</p> 	 <p style="text-align: right;">SBF256G</p>	<p>Removal: Remove by bending up with flat-bladed screwdrivers.</p>  <p style="text-align: right;">SBF367B</p>
<p>C102</p> 	 <p style="text-align: center;">SBF114B</p> <p style="text-align: center;">SBF137B</p>	 <p>Removal: Pull up by rotating.</p> <p style="text-align: right;">SBF116B</p>
<p>C103</p> 	 <p style="text-align: right;">SBF257G</p>	<p>Removal: Remove with a flat-bladed screwdriver or pliers.</p>  <p style="text-align: right;">SBF292C</p>
<p>C203</p> 	 <p style="text-align: right;">SBF258G</p>	<p>Push center pin to catching position. (Do not remove center pin by hitting it.)</p>  <p>Installation:</p> <p style="text-align: right;">SBF708E</p>

GI
 MA
 EM
 LC
 EF &
 EC
 FE
 AT
 PD
 FA
 RA
 BR
 ST
BF
 HA
 EL

GENERAL SERVICING

Clip and Fastener (Cont'd)

Symbol No.	Shapes	Removal & Installation
<p>CF118</p> 		<p>Removal:</p>  <p>SBF151D</p> <p>SBF259G</p>
<p>CS101</p> 		<p>Removal:</p> <ol style="list-style-type: none"> 1. Screw out with a Phillips screwdriver. 2. Remove female portion with flat-bladed screwdriver.  <p>SBF078B</p> <p>SBF892G</p>
<p>CR103</p>		<p>Removal:</p> <p>Holder portion of clip must be spread out to remove rod.</p>  <p>SBF768B</p> <p>SBF770B</p>

Body Front End

- Hood adjustment: Adjust at hinge portion.
- Hood lock adjustment: After adjusting, check hood lock control operation. Apply a coat of grease to hood locks engaging mechanism.
- Hood opener: Do not attempt to bend cable forcibly. Doing so increases effort required to unlock hood. GI

WARNING:

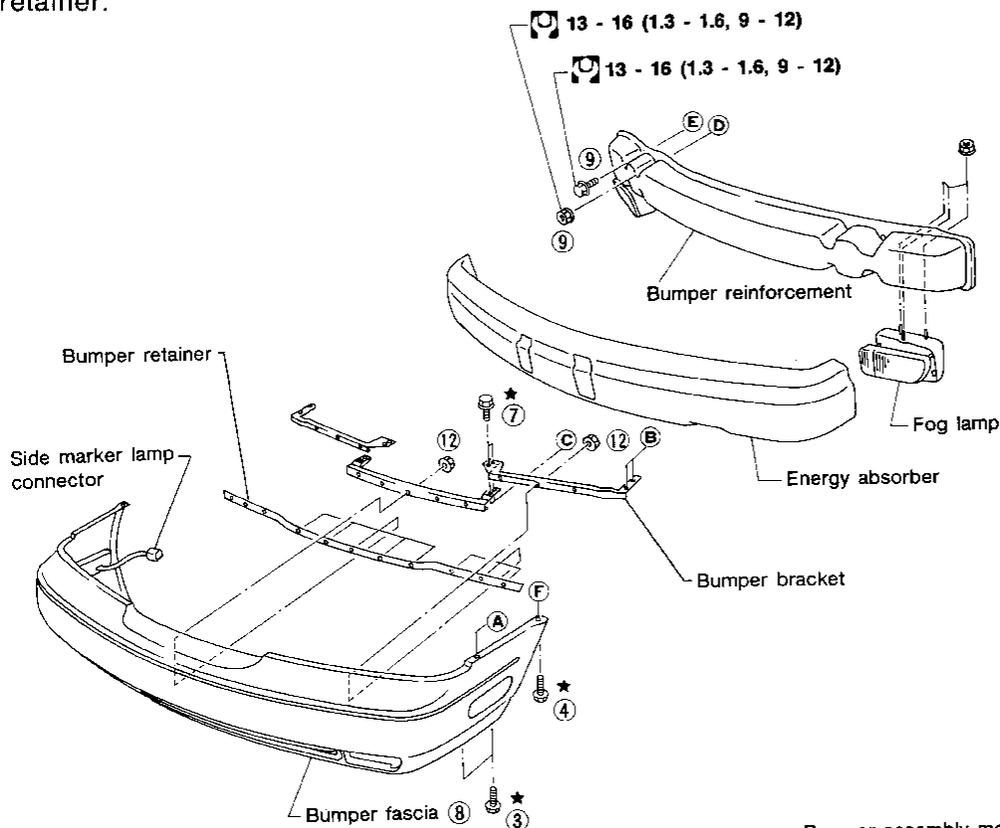
- Be careful not to scratch hood stay when installing hood. A scratched stay may cause gas leakage. MA
- The contents of the hood stay are under pressure. Do not take apart, puncture, apply heat or allow fire near it. EM

CAUTION:

Do not touch reinforcement with bare hands. Wear leather working gloves, since reinforcement surface is covered with fiberglass. LC

REMOVAL — Front bumper assembly

- Remove clips (CS101) securing left, right and center air guides; remove air guides. EF & EC
- Remove left and right front combination lamps. FE
- Remove bolts securing left and right fender protectors. AT
- Remove bolts located at wheel opening. Remove bumper fascia from fender. PD
- Remove left and right headlamps. FA
- Remove bolts securing bumper fascia to fender. RA
- Remove two bolts securing left fender bracket, and two bolts securing left headlamp stay. Similarly, remove right fender bracket and headlamp stay. BR
- Pull bumper fascia out. Disconnect left and right side marker lamp harness connectors. ST
- Remove bolts and nuts from bumper stays and detach reinforcement. BF
- Remove bumper stays. Remove washer tank (on the right side). HA
- Remove air intake grille. EL
- Remove nuts securing bumper brackets (left, right and center); remove bumper brackets and bumper retainer.



★ : Bumper assembly mounting bolts, nuts and clips
 □ : N·m (kg-m, ft-lb)

BODY END

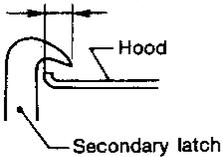
Body Front End (Cont'd)

Hood lock adjustment

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

Hood lock secondary latch hooking length

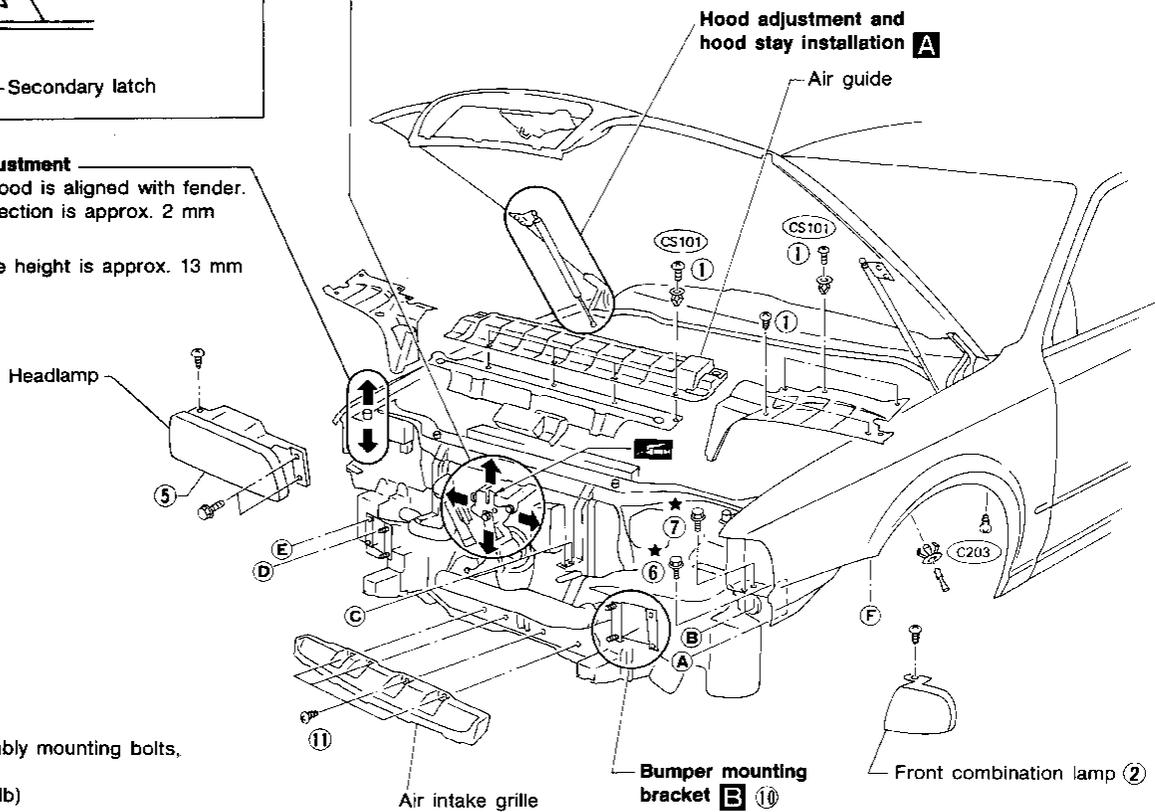
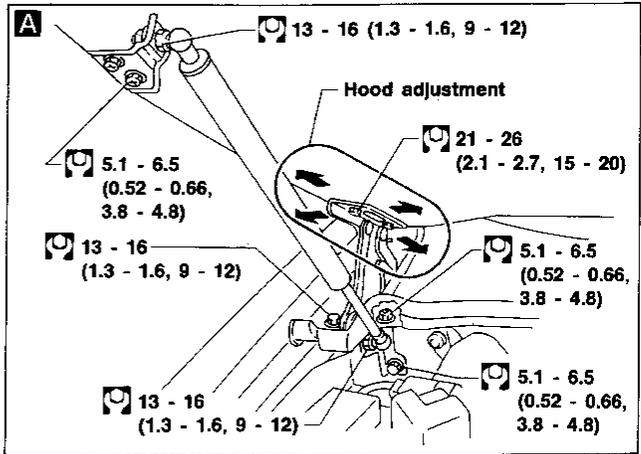
More than 5.0 mm (0.197 in)



Bumper rubber adjustment

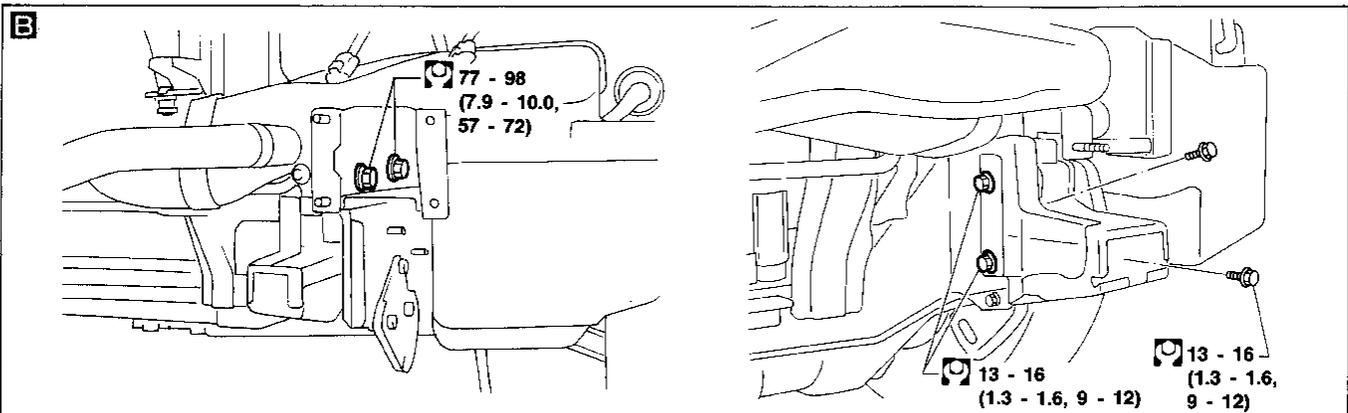
- Adjust so that hood is aligned with fender. At that time deflection is approx. 2 mm (0.08 in).

[Bumper rubber free height is approx. 13 mm (0.51 in).]



★ : Bumper assembly mounting bolts, nuts and clips

Ⓚ : N·m (kg-m, ft-lb)



Body Rear End and Opener

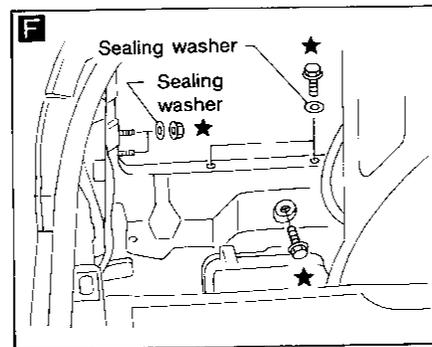
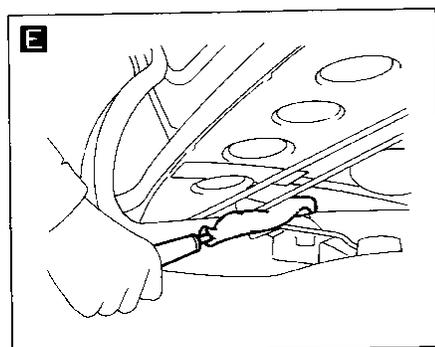
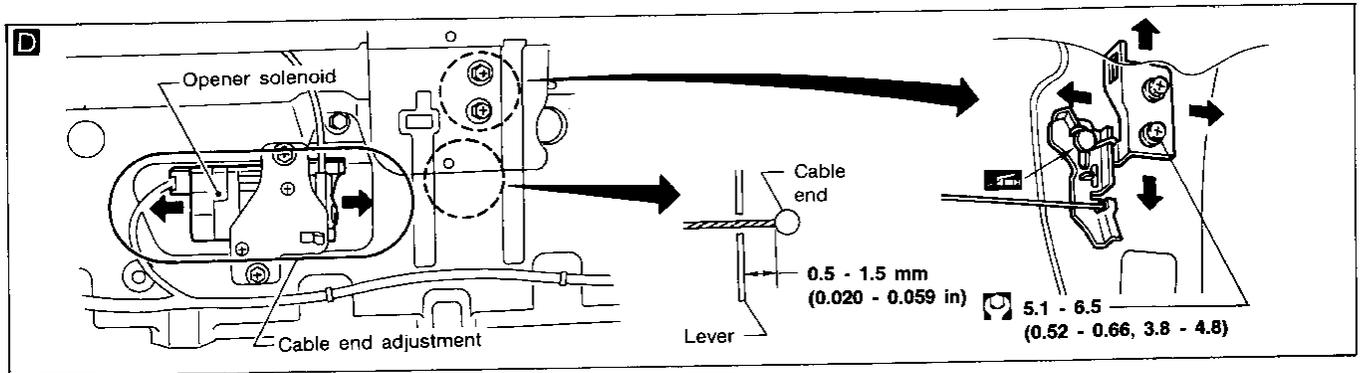
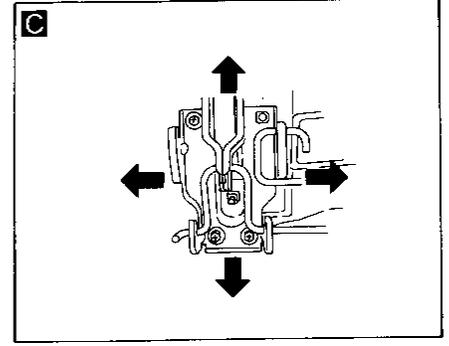
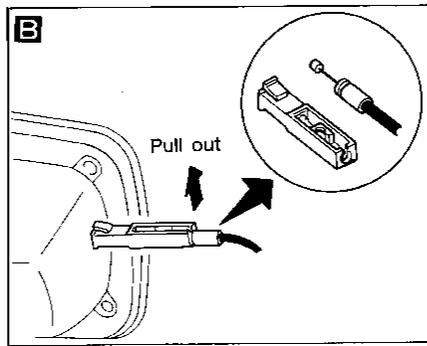
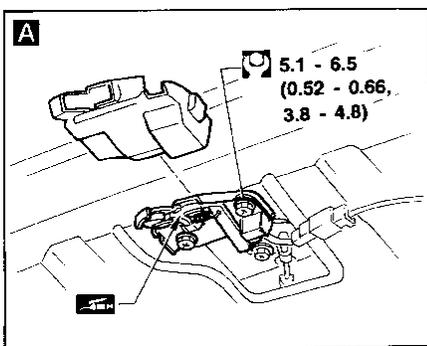
- Trunk lid adjustment: Adjust at hinge-trunk lid portion for proper trunk lid fit.
- Trunk lid lock system adjustment: Adjust striker so that it is in the center of the lock. After adjustment, check trunk lid lock operation.
- Opener cable: Do not attempt to bend cable using excessive force.
- After installation, make sure that trunk lid and fuel filler lid open smoothly.

CAUTION:

Do not touch reinforcement with bare hands. Wear leather working gloves, since reinforcement surface is covered with fiberglass.

REMOVAL — Rear bumper assembly

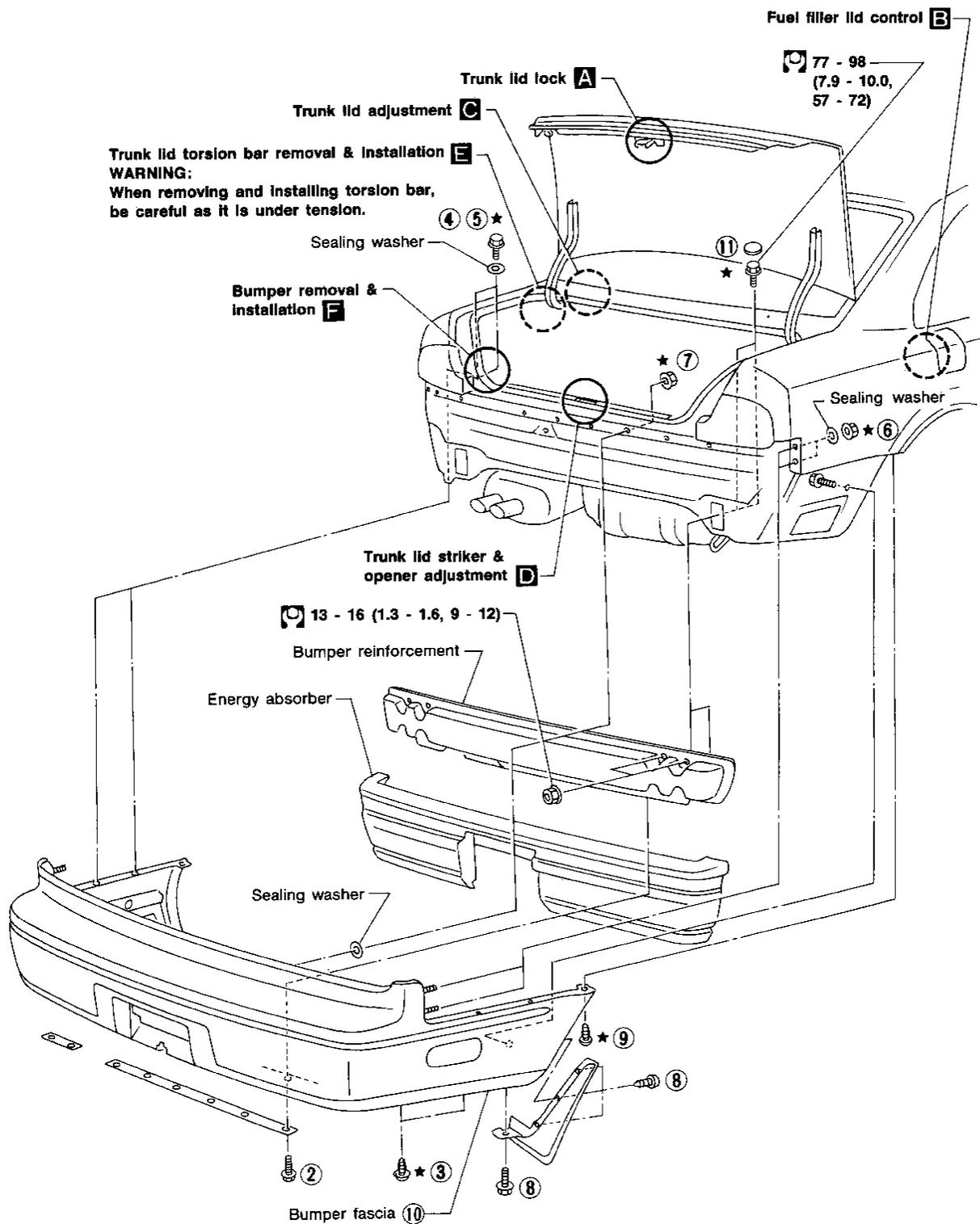
- ① Remove license plate.
- ② Remove eight bolts from lower side of rear bumper.
- ③ Remove two screws from lower side of each side bumper.
- ④ Remove trunk trim. Refer to "LUGGAGE COMPARTMENT TRIM" in "Interior" for details.
- ⑤ Working inside trunk, remove three bolts securing each bumper side to fender.
- ⑥ Working inside trunk, remove three nuts securing each corner of bumper fascia.
- ⑦ Also remove ten nuts from center of trunk compartment.
- ⑧ Remove screws securing left and right rear mudguards to bumper fascia.
- ⑨ Remove screws securing wheelarch to each bumper side.
- ⑩ Pull bumper fascia out. Remove side marker lamp and license lamp harness connectors.
- ⑪ Remove bumper stays. Working inside trunk, remove left and right plugs from floor, then remove bolts.



★ : Bumper assembly mounting bolts & nuts
 ⊙ : N•m (kg-m, ft-lb)

BODY END

Body Rear End and Opener (Cont'd)



Trunk lid torsion bar removal & installation E
WARNING:
 When removing and installing torsion bar,
 be careful as it is under tension.

13 - 16 (1.3 - 1.6, 9 - 12)

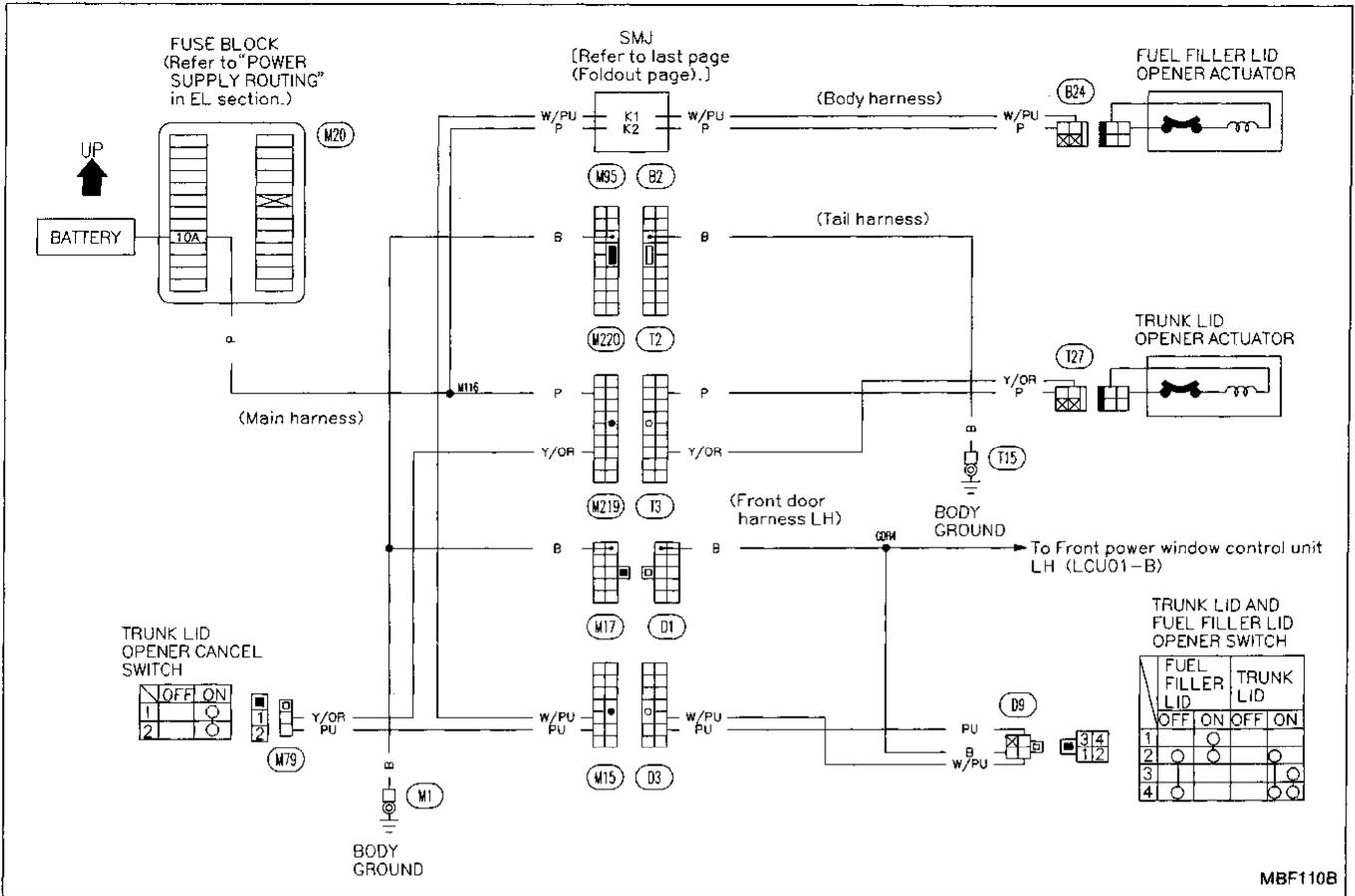
77 - 98
 (7.9 - 10.0,
 57 - 72)

★ : Bumper assembly mounting bolts & nuts
 □ : N·m (kg-m, ft-lb)

BODY END

Body Rear End and Opener (Cont'd)

TRUNK LID AND FUEL FILLER LID OPENER/WIRING DIAGRAM



GI

MA

EM

LC

EF & EC

FE

AT

PD

FA

RA

BR

ST

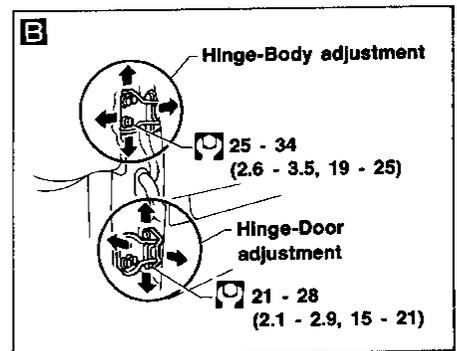
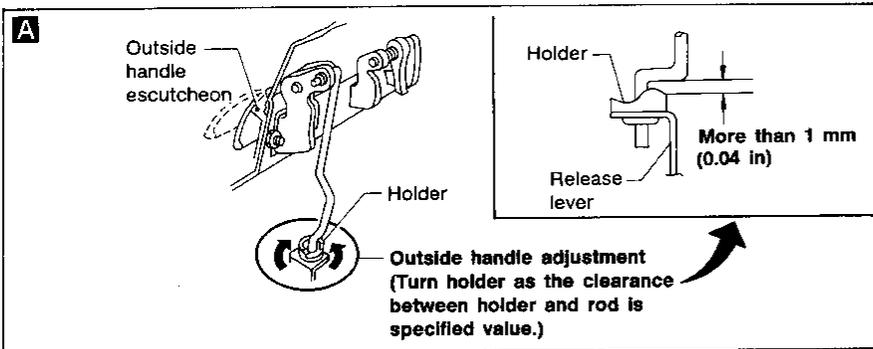
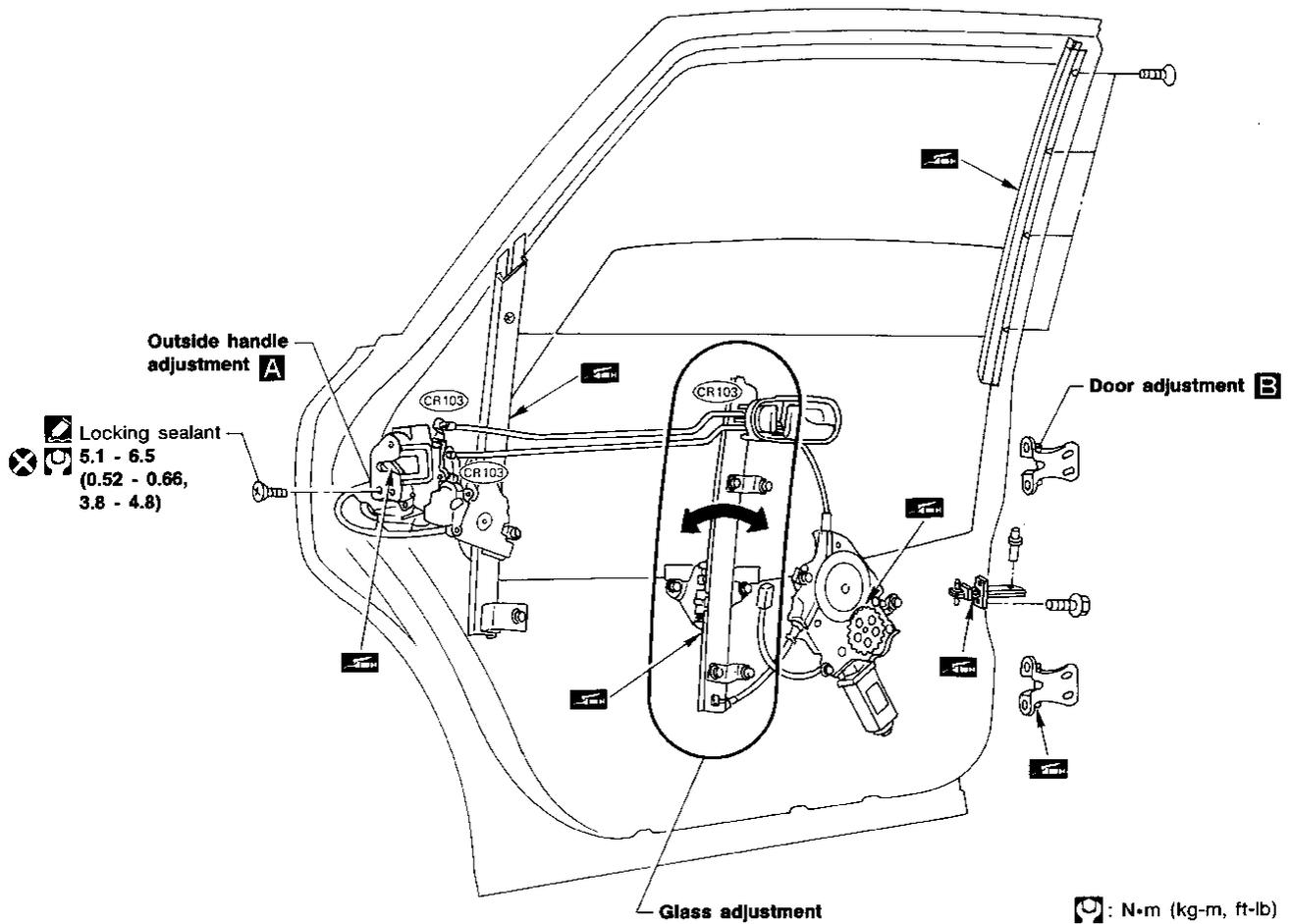
BF

HA

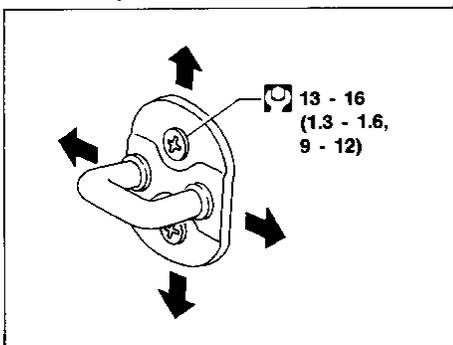
EL

DOOR

Rear Door



Striker adjustment



GI
MA
EM
LC
EF & EC
FE
AT
PD
FA
RA
BR
ST
BF
HA
EL

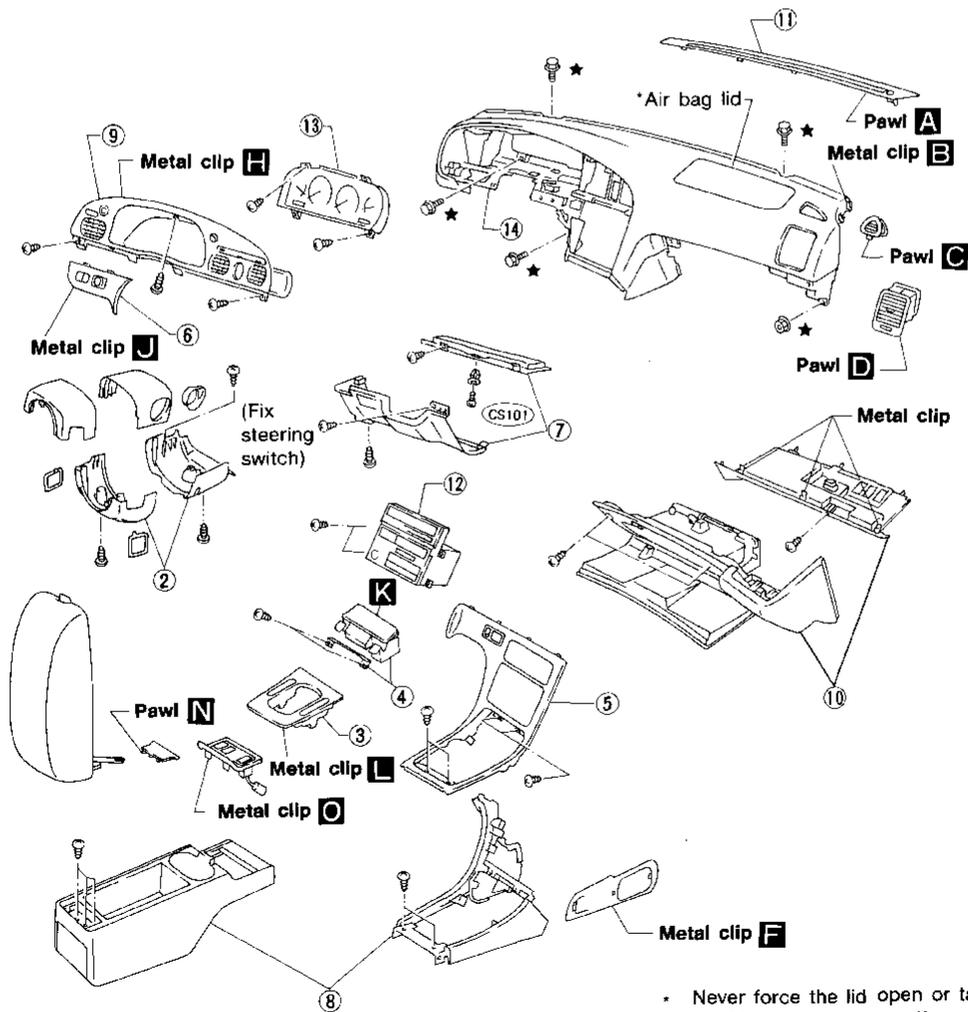
INSTRUMENT PANEL

CAUTION:

- a. Disconnect ground terminal from battery in advance.
- b. Disconnect air bag system line in advance.
- c. Be careful not to scratch pad and other parts.

REMOVAL — Instrument panel assembly

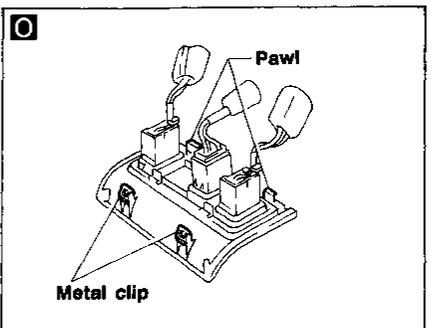
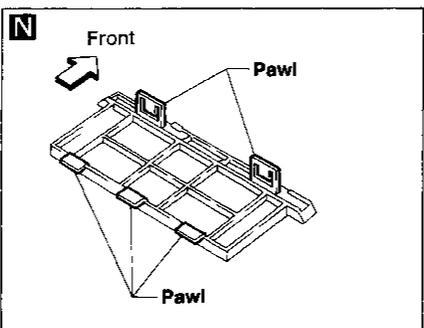
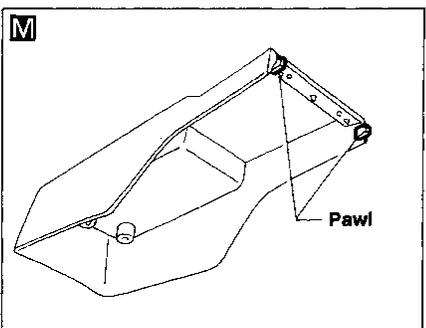
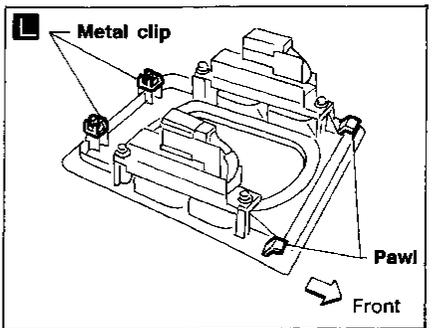
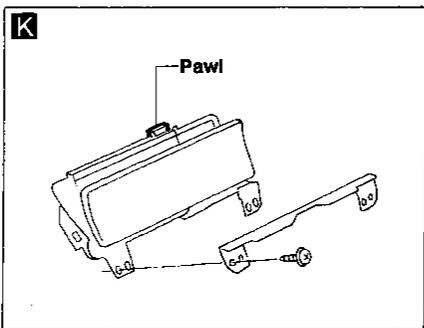
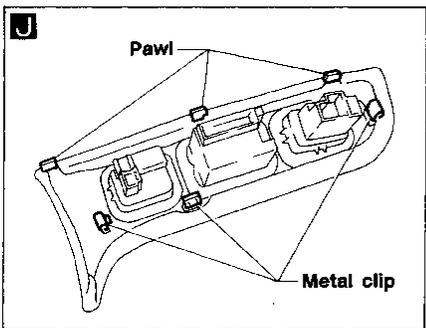
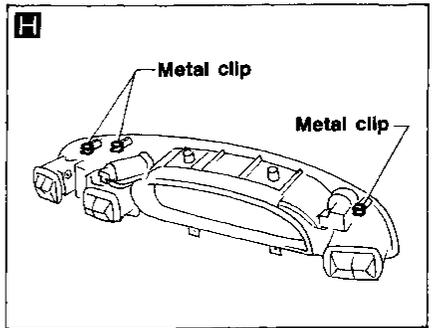
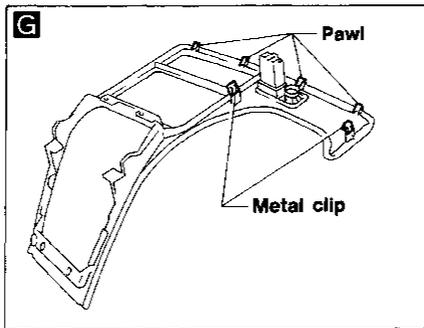
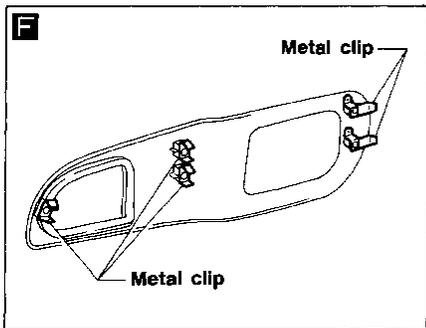
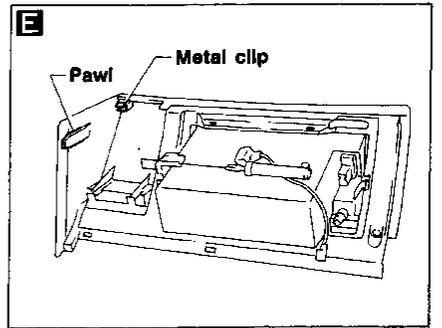
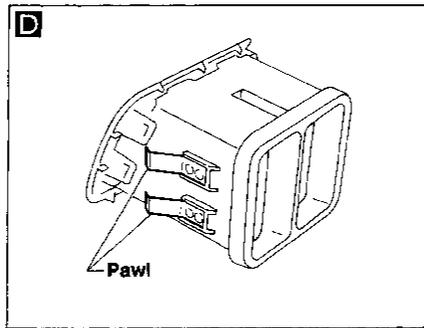
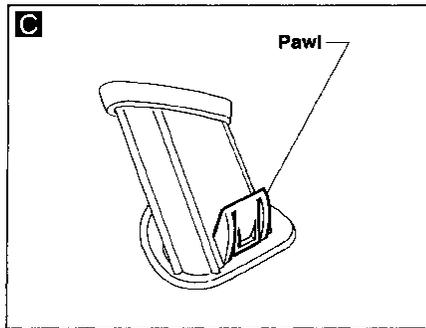
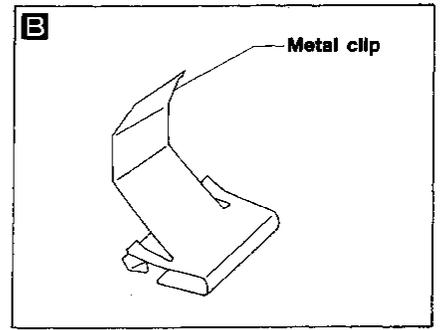
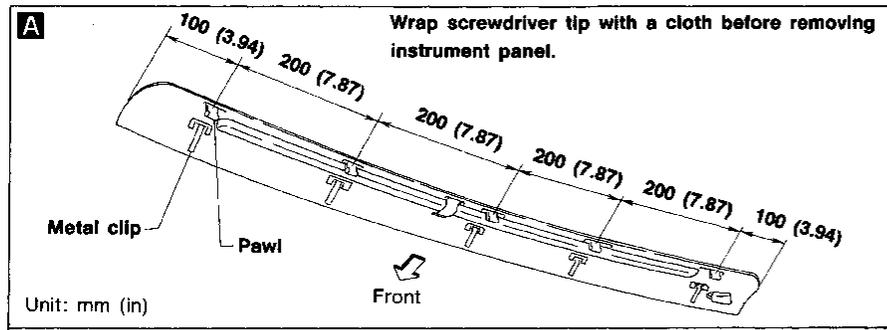
- ① Remove steering wheel. Disengage air bag system in advance.
- ② Remove steering column cover.
- ③ Remove A/T finisher.
- ④ Remove ash tray assembly.
- ⑤ Remove cluster lid C.
- ⑥ Remove cluster lid D.
- ⑦ Remove lower instrument cover on driver side.
- ⑧ Remove front floor console assembly and rear floor console assembly.
- ⑨ Remove cluster lid A.
- ⑩ Remove glove box assembly and lower instrument cover on passenger side.
- ⑪ Remove defroster grille.
- ⑫ Remove radio and A/C or heater control.
- ⑬ Remove combination meter assembly.
- ⑭ Remove instrument panel and pads.



* Never force the lid open or tamper with it as this may adversely affect airbag performance.

★ : Instrument panel assembly mounting bolts and nuts

INSTRUMENT PANEL



GI
MA
EM
LC
EF &
EC
FE
AT
PD
FA
RA
BR
ST
BF
HA
EL

Interior

SIDE AND FLOOR TRIM — Passenger room

CAUTION:

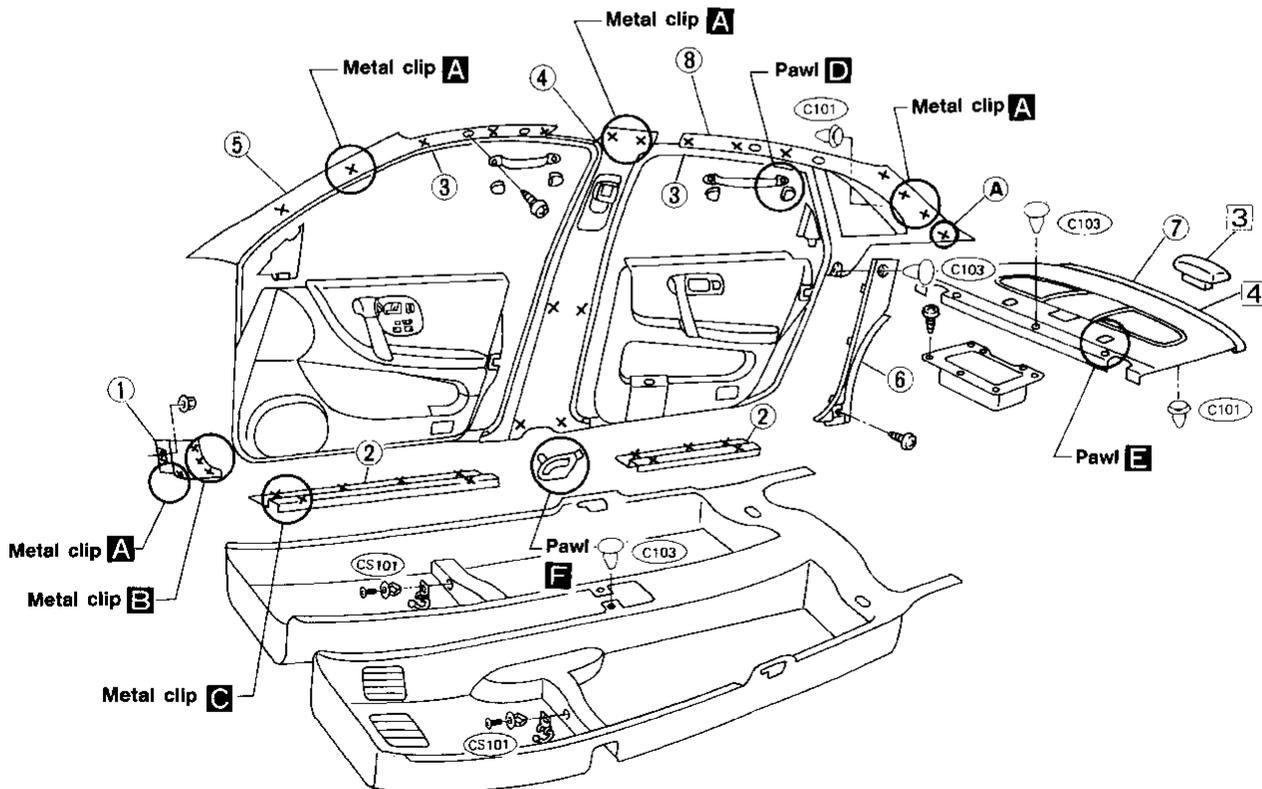
- a. Be sure to remove front, center and rear pillar garnishes by pulling them straight out. Use a long flat-bladed screwdriver when removing metal clips from rear pillar garnish **A**.
- b. Wrap the tip of flat-bladed screwdriver with a cloth when removing metal clips from garnishes.

Removal — Body side trim

- ① Remove dash side finisher.
- ② Remove front and rear kicking plates.
- ③ Remove front and rear body side welts.
- ④ Remove center pillar garnish.
- ⑤ Remove front pillar garnish.
- ⑥ Remove rear wheelhouse garnish.
- ⑦ Remove rear parcel shelf.
- ⑧ Remove rear pillar finisher.

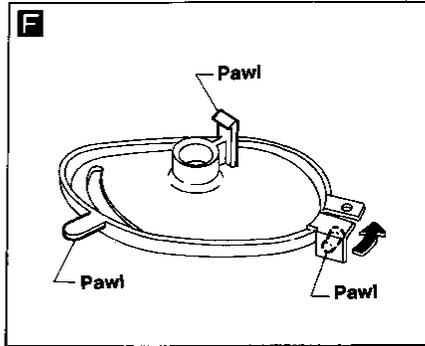
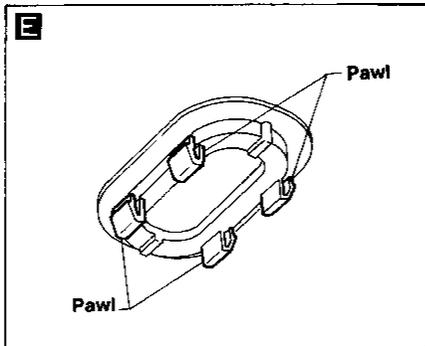
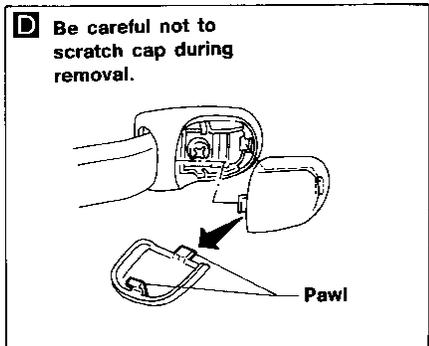
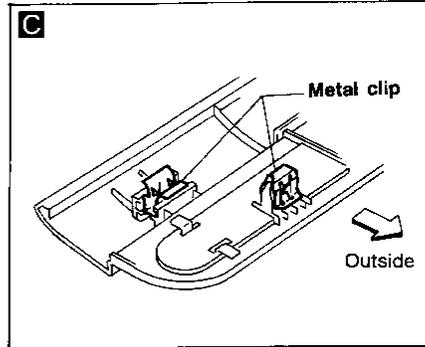
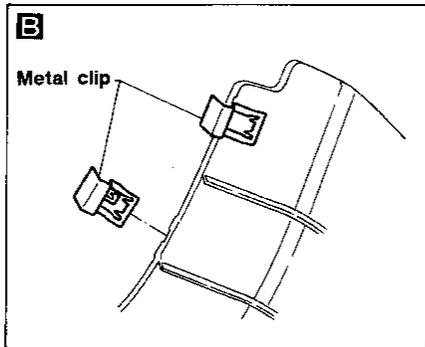
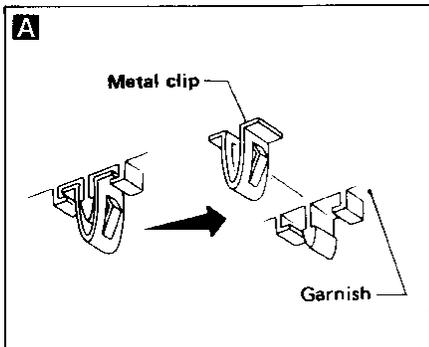
Removal — Rear parcel shelf finisher

- ① Remove rear seat cushion. For details, refer to "Rear Seat" in "SEAT".
- ② Remove rear seatback. For details, refer to "Rear Seat" in "SEAT".
- ③ Remove high-mount stop lamp assembly. (Not equipped with rear air spoiler model)
- ④ Remove rear parcel shelf finisher.



INTERIOR AND EXTERIOR

Interior (Cont'd)



GI

MA

EM

LC

EF &
EC

FE

AT

PD

FA

RA

BR

ST

BF

HA

EL

ROOF TRIM

CAUTION:

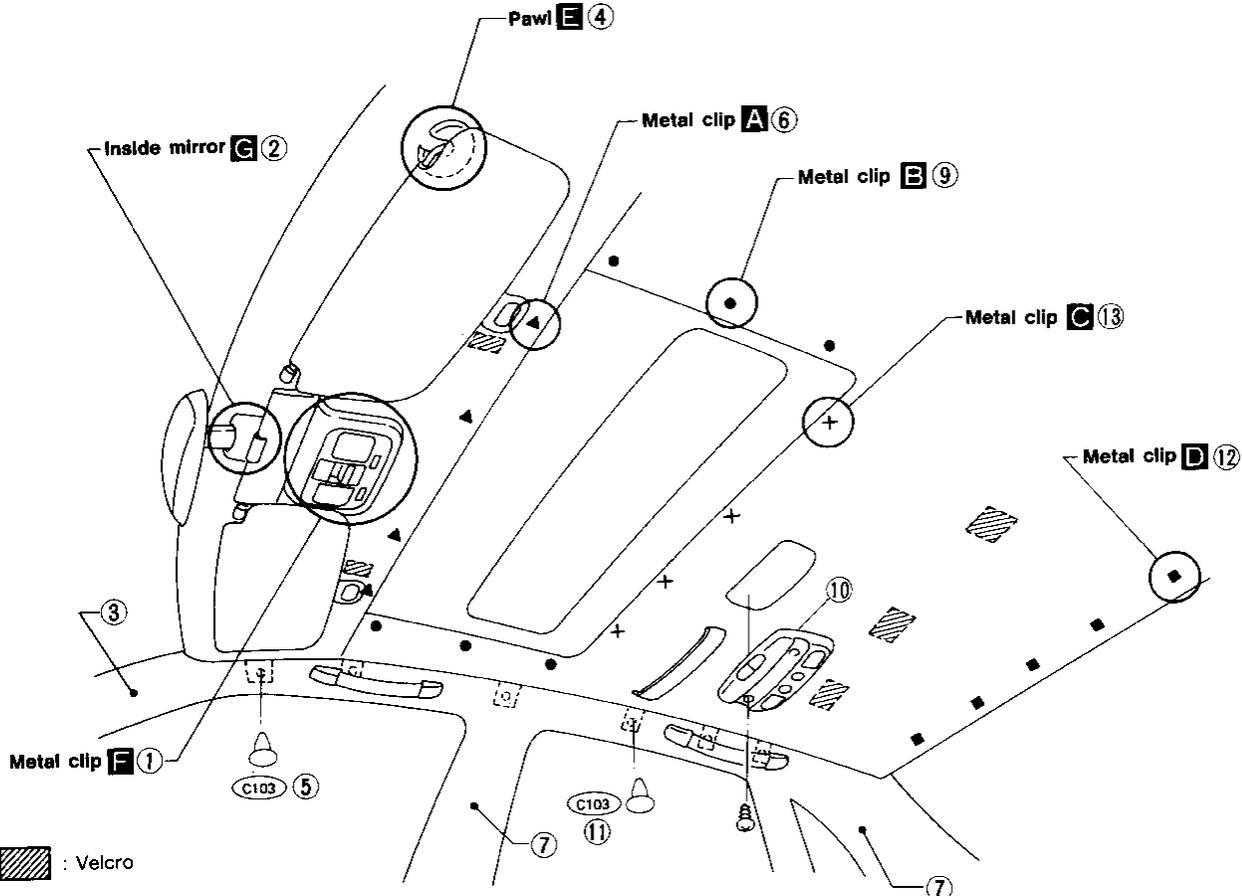
- a. Front garnish is heavy. Always support each side of sun visor firmly when removing or installing front garnish.
- b. Remove metal clip from rear of front garnish by pulling it toward rear of vehicle.
- c. Headlining metal clip removal
 - 1) Remove retainer from sun roof side.
 - 2) Remove rear metal clip by pulling it straight down.
 - 3) Remove metal clip from rear of sun roof by pulling it toward front of vehicle.

Removal — Front roof garnish

- 1 Remove sun roof control switch assembly.
- 2 Remove inside mirror assembly.
- 3 Remove front pillar garnish. Refer to "Removal — Body side trim" for details.
- 4 Remove three screws securing each sun visor.
- 5 Remove the clip **C103** from each front roof garnish.
- 6 While pulling front roof garnish backward, remove the metal clip from roof panel. Disconnect sun visor harness connector.

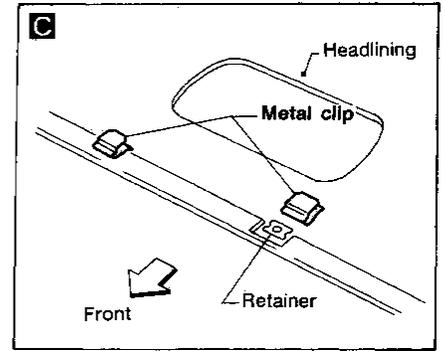
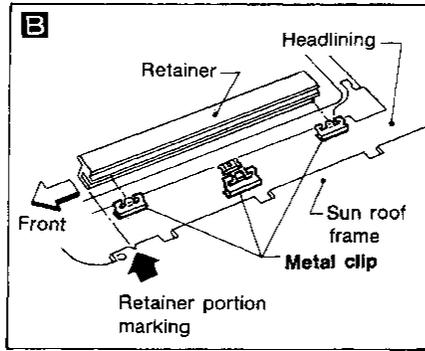
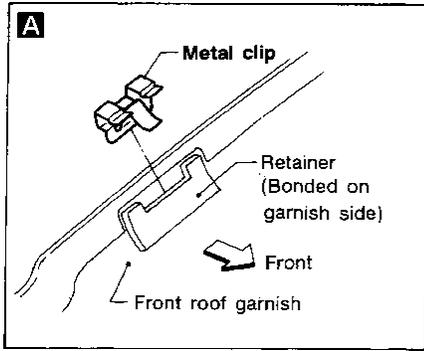
Removal — Headlining

- 7 Remove body side trim. Refer to "Removal — Body side trim" for details.
- 8 Remove front roof garnish. Refer to "Removal — Front roof garnish" for details.
- 9 Remove side headlining retainers from sun roof opening.
- 10 Remove interior lamp assembly.
- 11 Remove clips **C103** securing each side of headlining.
- 12 Remove metal clips securing rear of headlining. Lower headlining.
- 13 While moving entire headlining forward, remove four metal clips at rear of sun roof opening.



INTERIOR AND EXTERIOR

Interior (Cont'd)



GI

MA

EM

LC

EF &
EC

FE

AT

PD

FA

RA

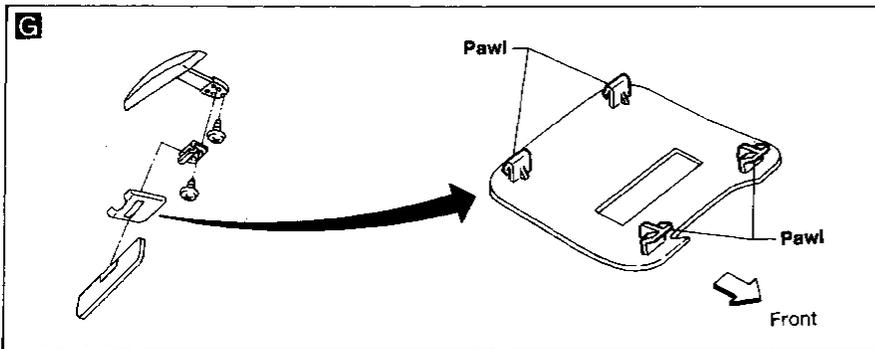
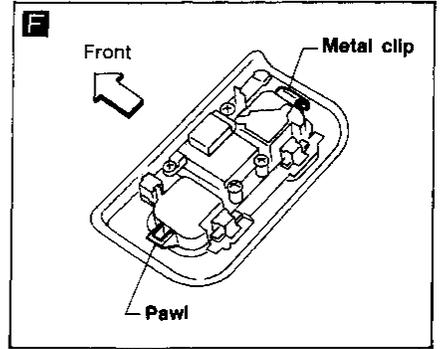
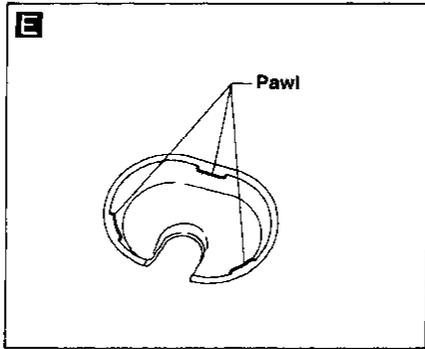
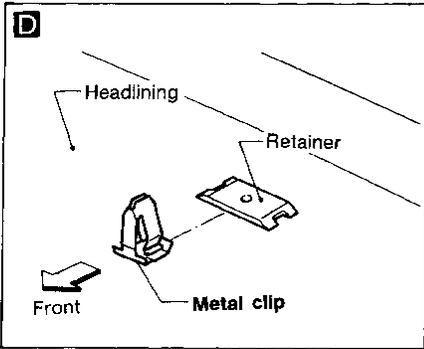
BR

ST

BF

HA

EL



INTERIOR AND EXTERIOR

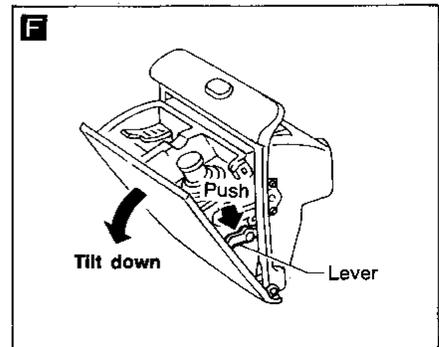
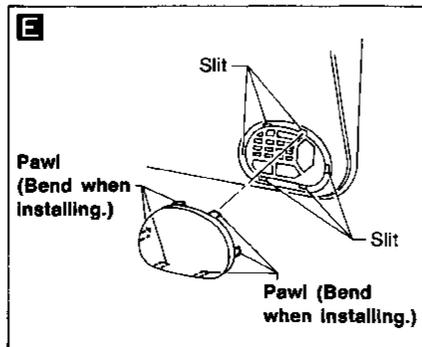
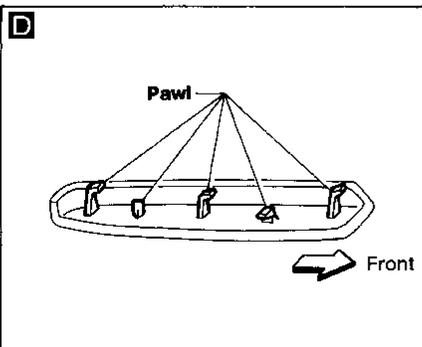
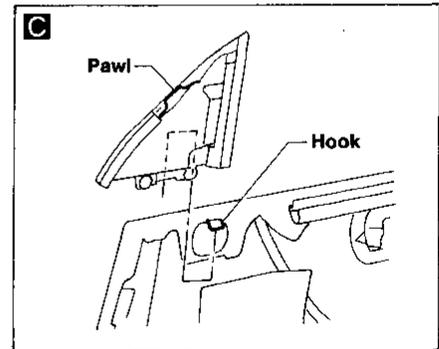
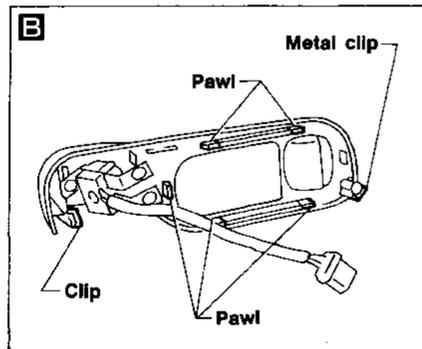
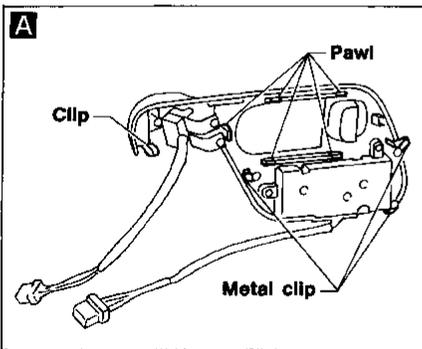
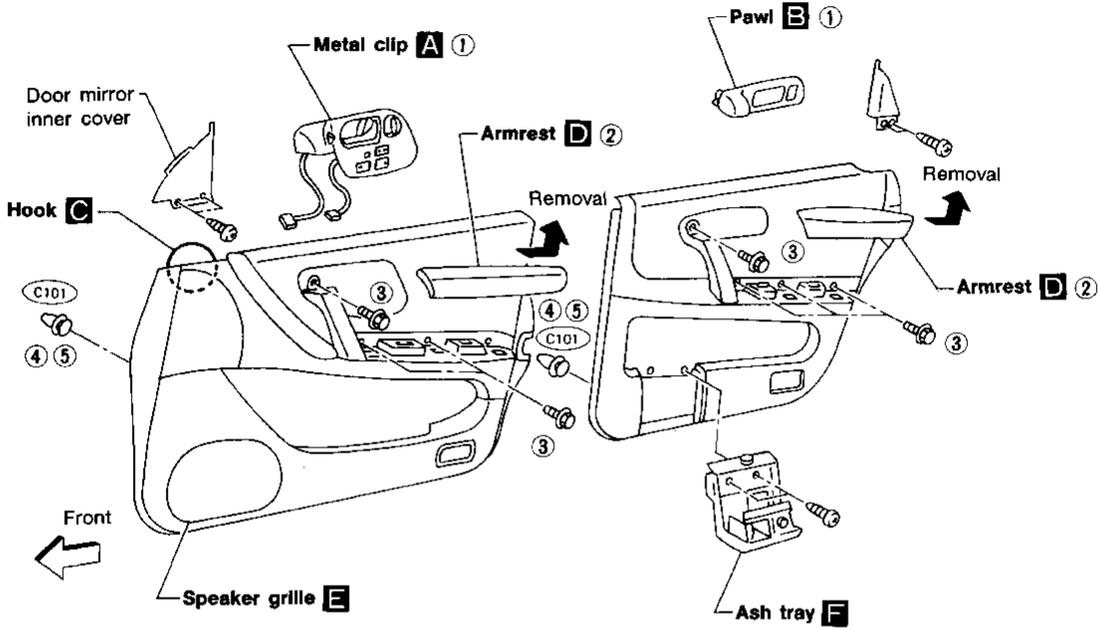
Interior (Cont'd)

DOOR TRIM

Removal — Door trim

- ① Remove inside handle escutcheon.
- ② Remove door armrest by pulling it backward.
- ③ Remove four bolts.
- ④ Remove clips securing door finisher.
- ⑤ Lift out door finisher. Disconnect main and door harnesses.

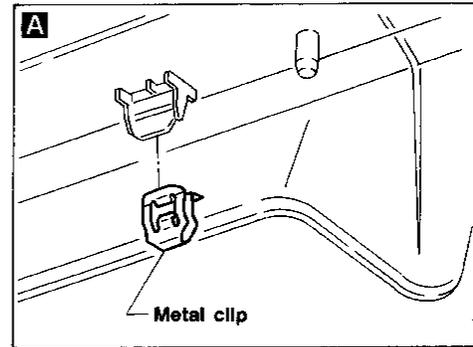
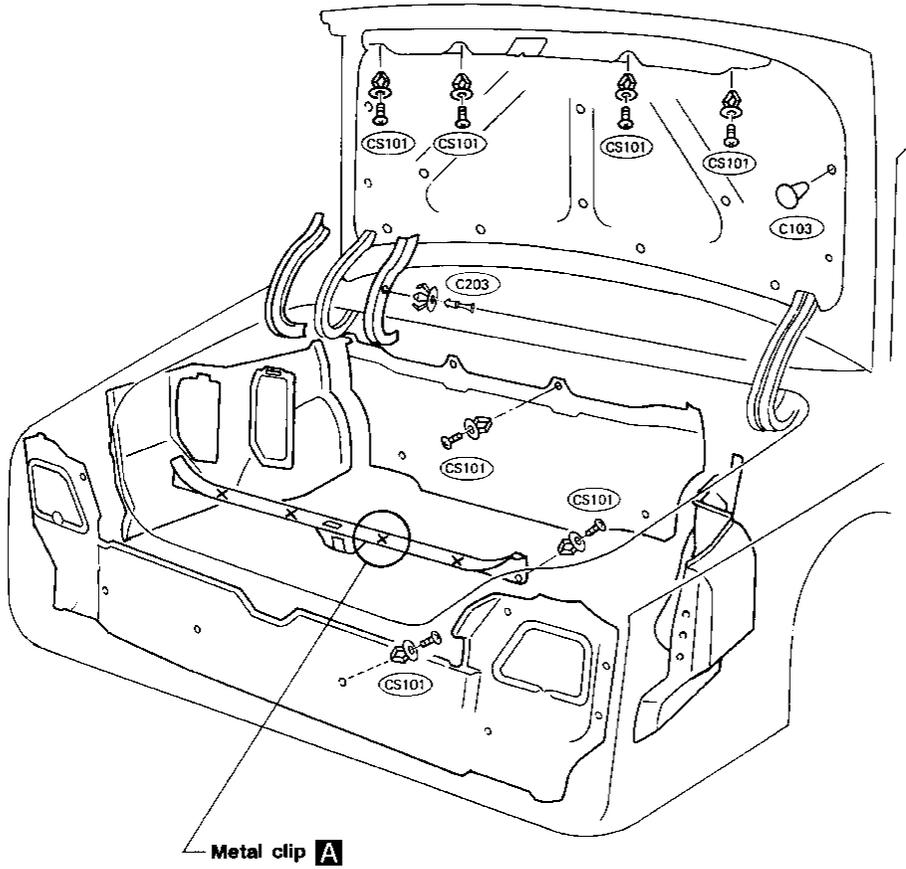
Remove ash tray before detaching rear door trim.



INTERIOR AND EXTERIOR

Interior (Cont'd)

LUGGAGE COMPARTMENT TRIM — Trunk space



MBF123B

GI

MA

EM

LC

EF &
EC

FE

AT

PD

FA

RA

BR

ST

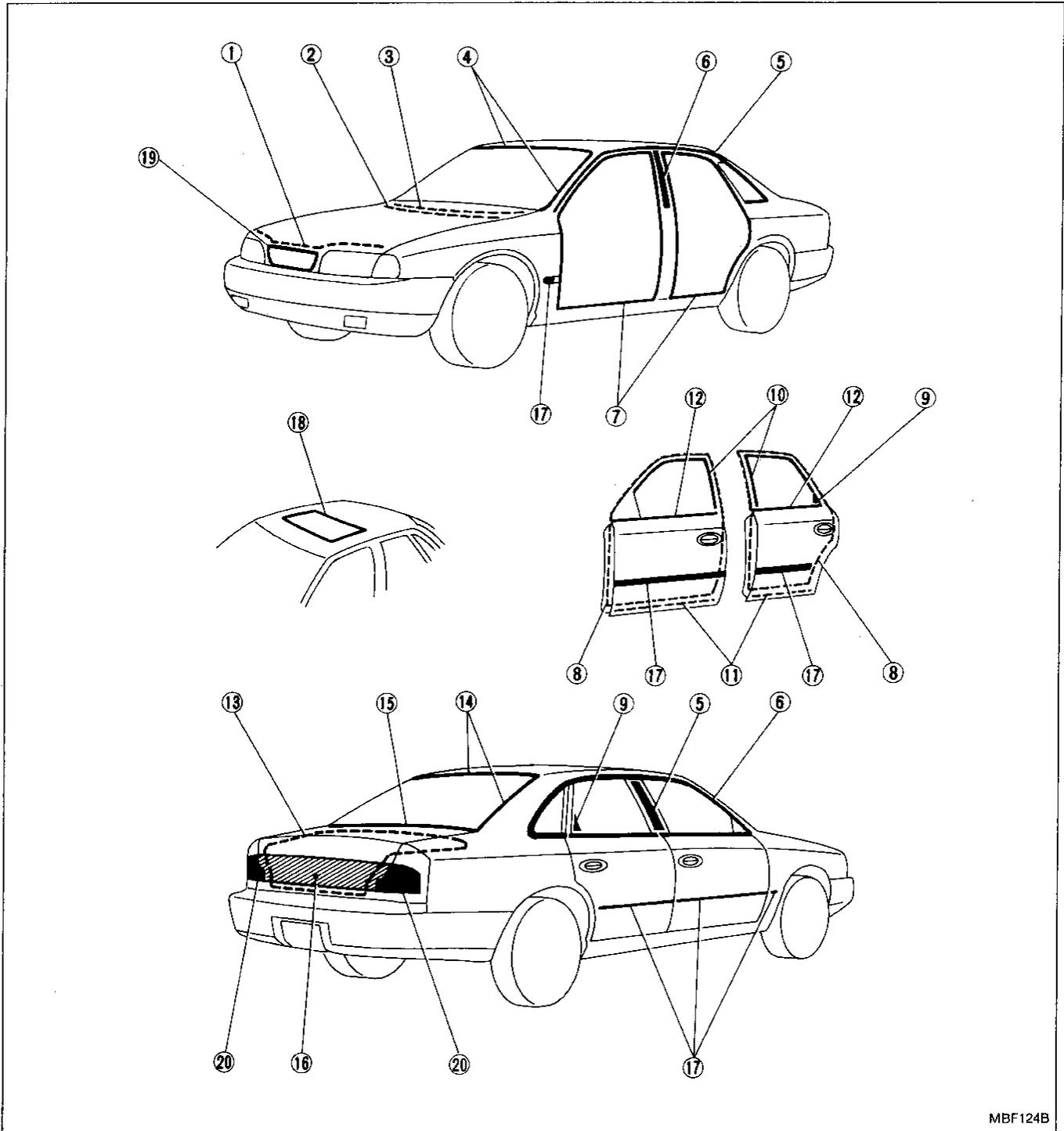
BF

HA

EL

INTERIOR AND EXTERIOR

Exterior

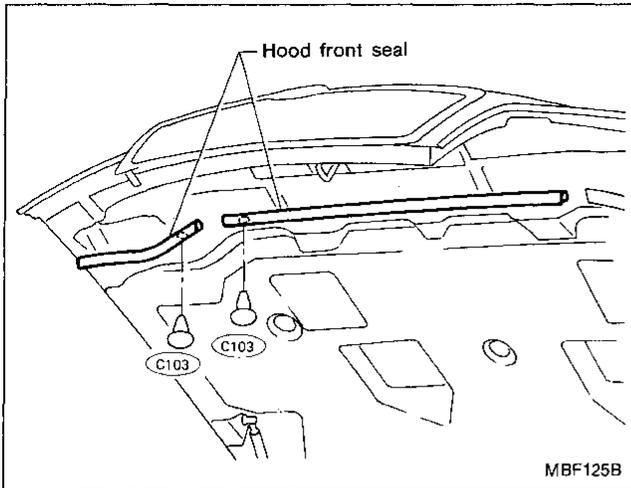


MBF124B

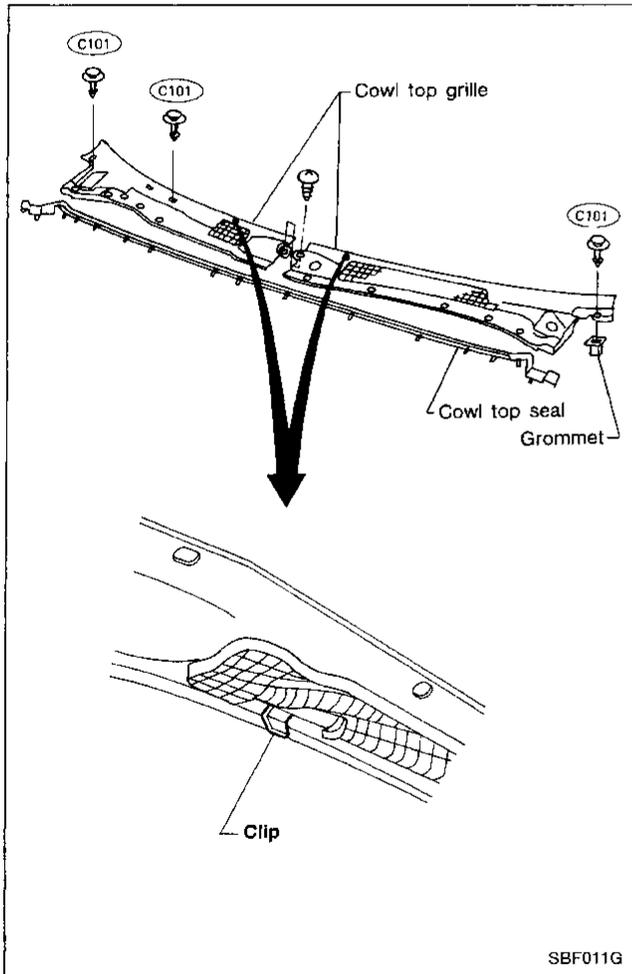
INTERIOR AND EXTERIOR

Exterior (Cont'd)

① Hood front seal



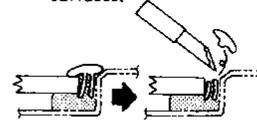
② ③ Cowl top seal and cowl top grille



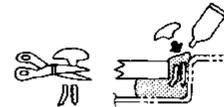
④ Windshield upper molding and side molding

Method 1

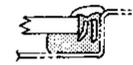
Cut off top portion of molding and clean glass and panel surfaces.



Apply sealant to top portion of molding.



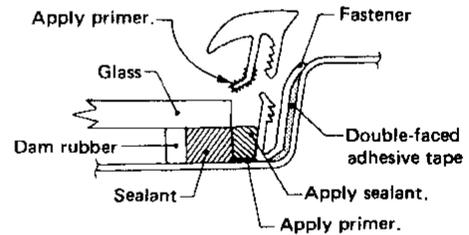
Cut off lower portion of new molding.



Finish well to give it a good appearance.

Method 2

1. Cut off sealant at glass end.
2. Clean the side on which panel was mounted.
3. Set molding fastener and apply sealant to body panel, and apply primer to molding and 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.

SBF161E

GI

MA

EM

LC

EF &
EC

FE

AT

PD

FA

RA

BR

ST

BF

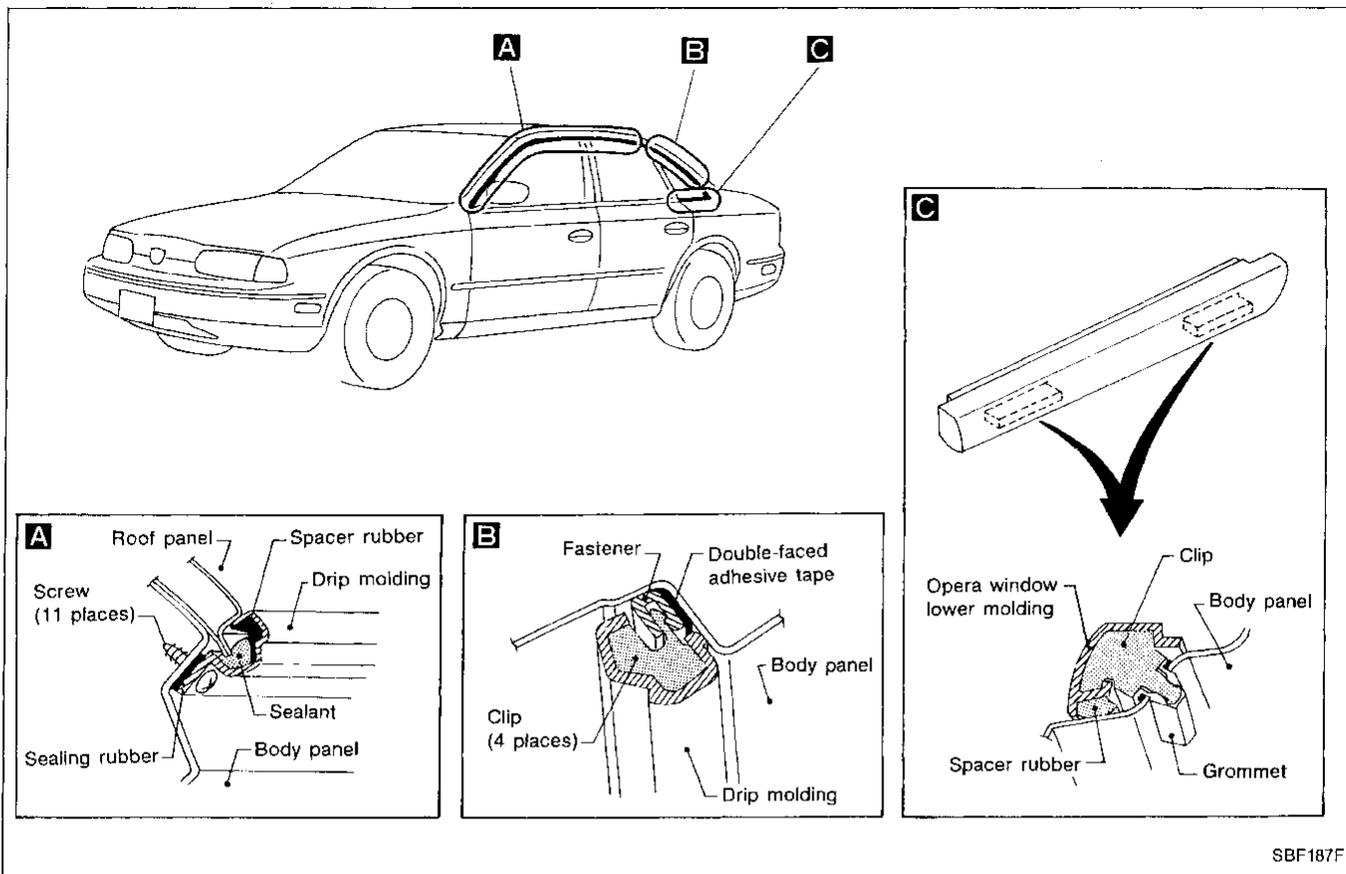
HA

EL

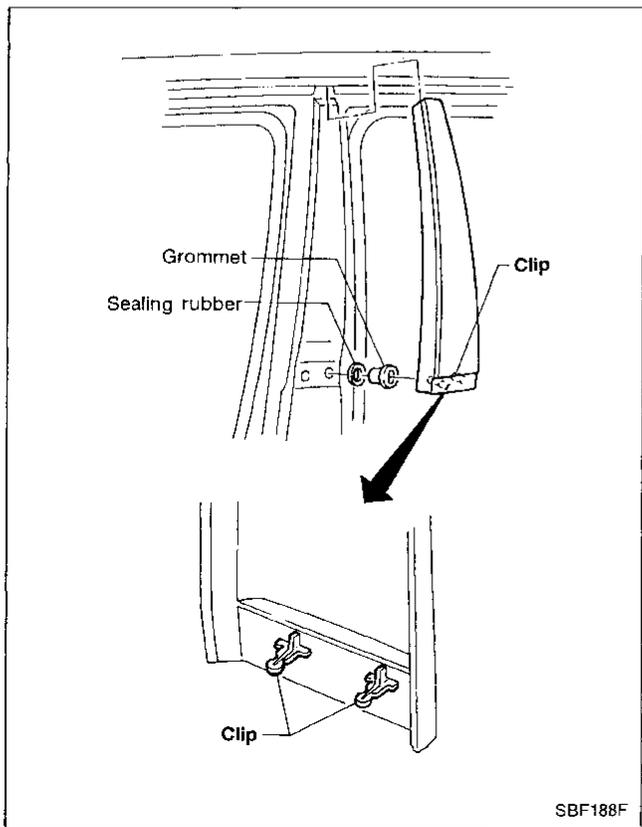
INTERIOR AND EXTERIOR

Exterior (Cont'd)

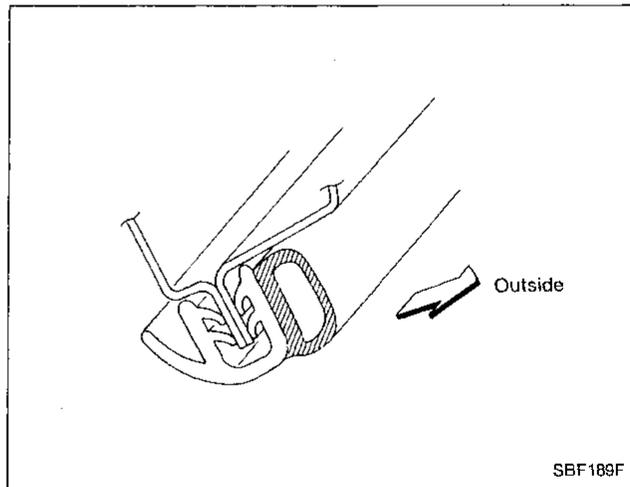
⑤ Drip molding and opera window lower molding



⑥ Center pillar cover



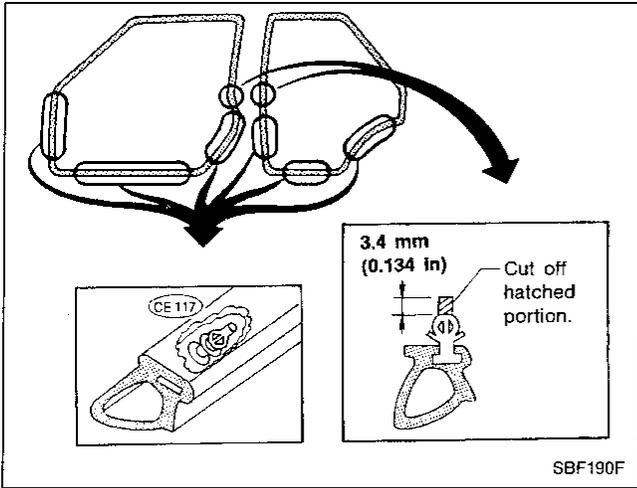
⑦ Body side welt



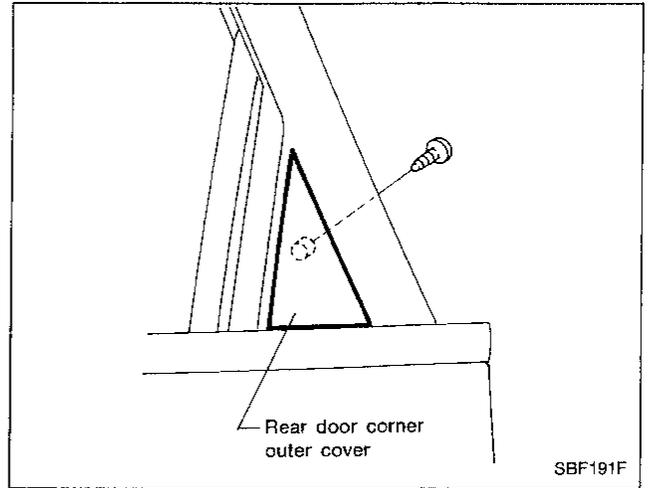
INTERIOR AND EXTERIOR

Exterior (Cont'd)

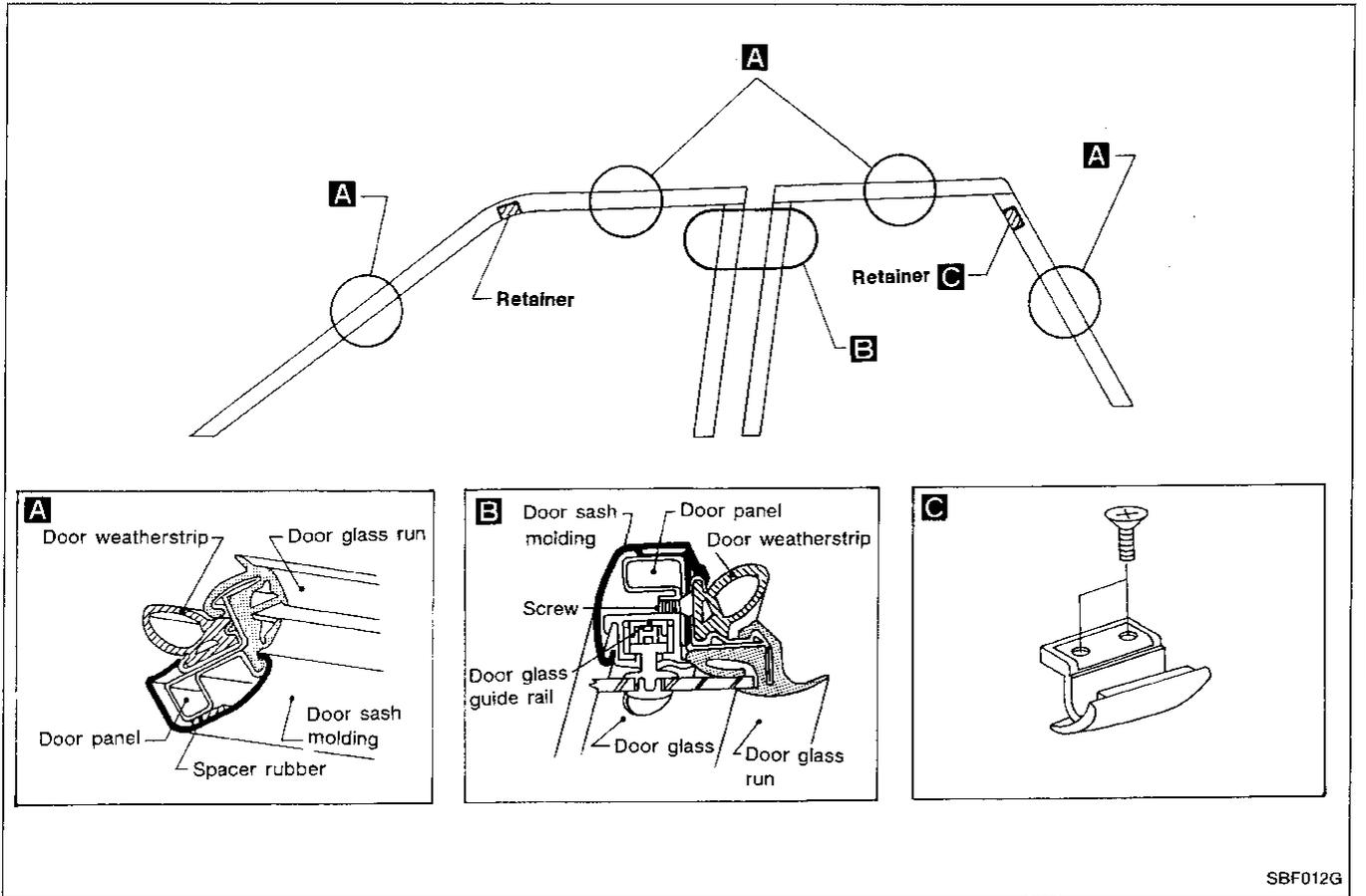
8 Door weatherstrip



9 Rear door corner outer cover



10 Door sash molding



GI

MA

EM

LC

EF &
EC

FE

AT

PD

FA

RA

BR

ST

BF

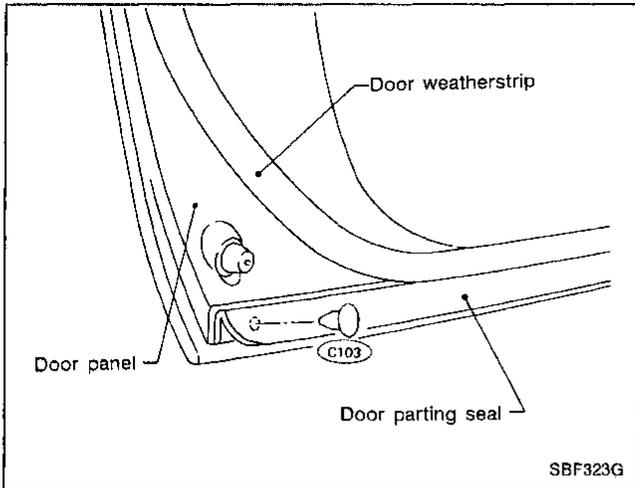
HA

EL

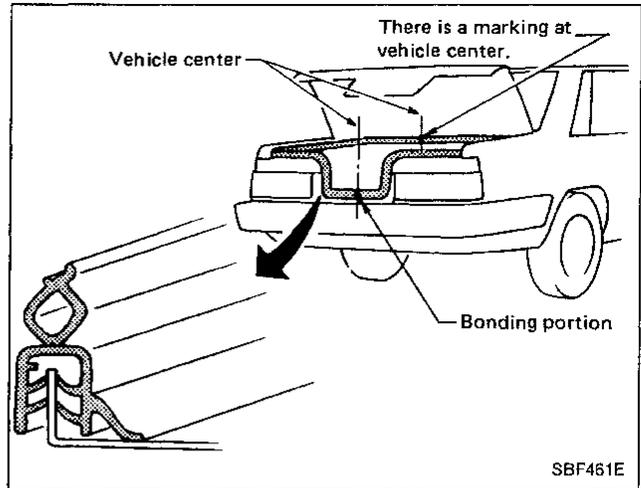
INTERIOR AND EXTERIOR

Exterior (Cont'd)

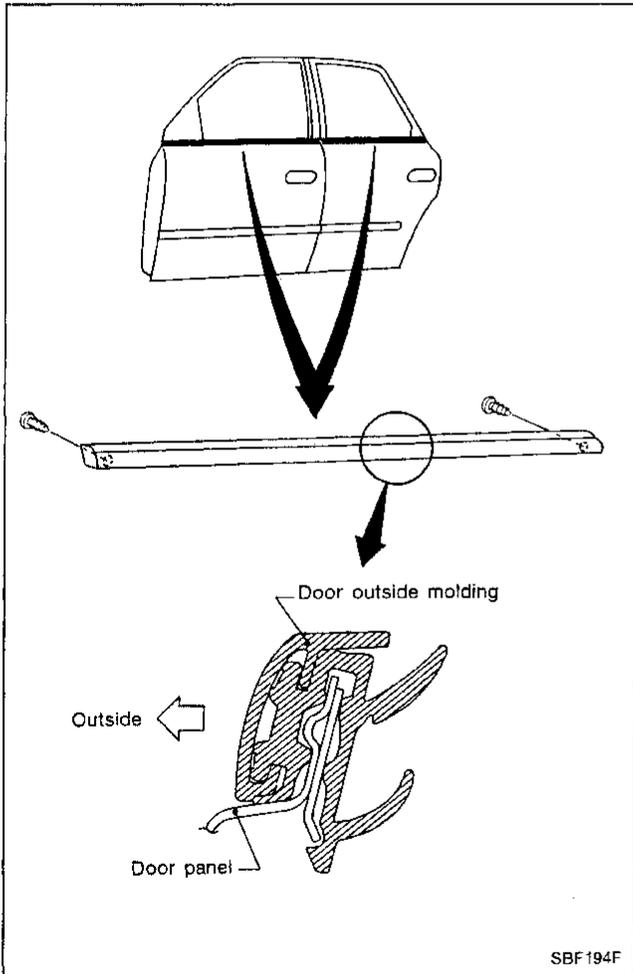
11 Door parting seal



13 Trunk lid weatherstrip



12 Door outside molding



14 Rear window upper molding and side molding

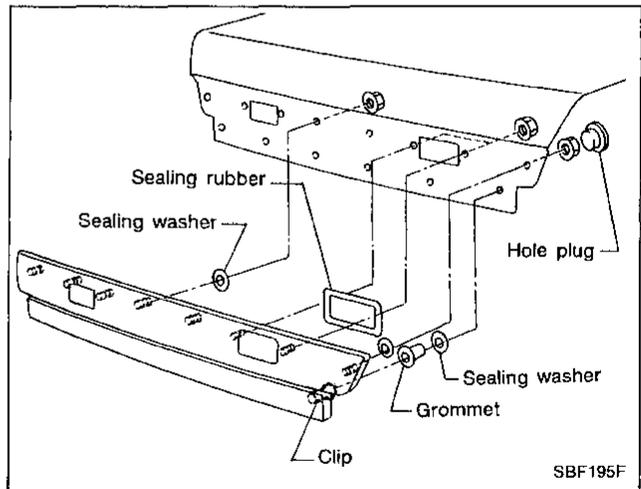
Basically the same as windshield upper molding and side molding.

Refer to ④ Windshield upper molding and side molding.

15 Rear window lower molding

Mounted with screws.

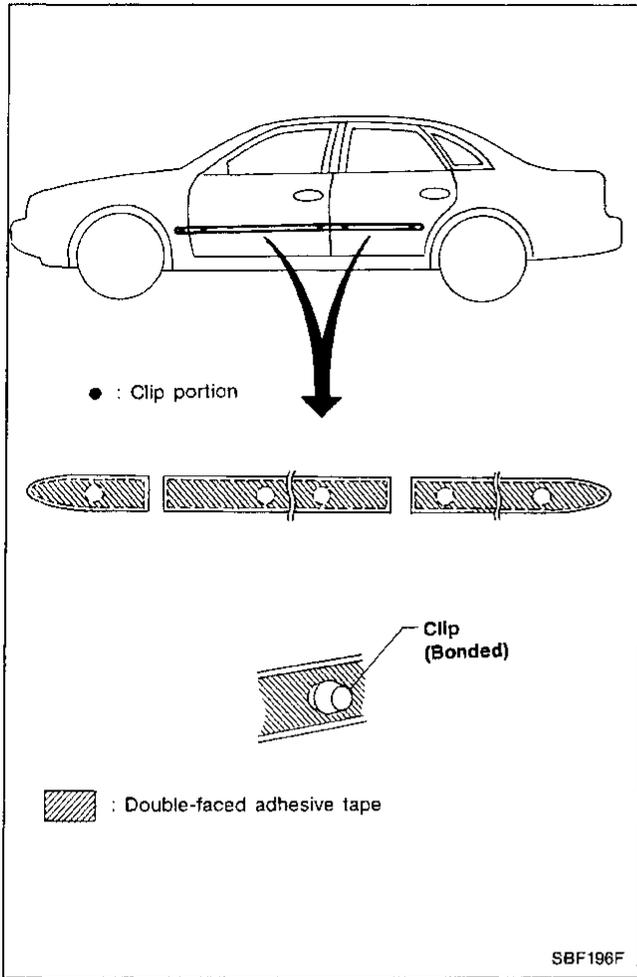
16 Trunk lid finisher



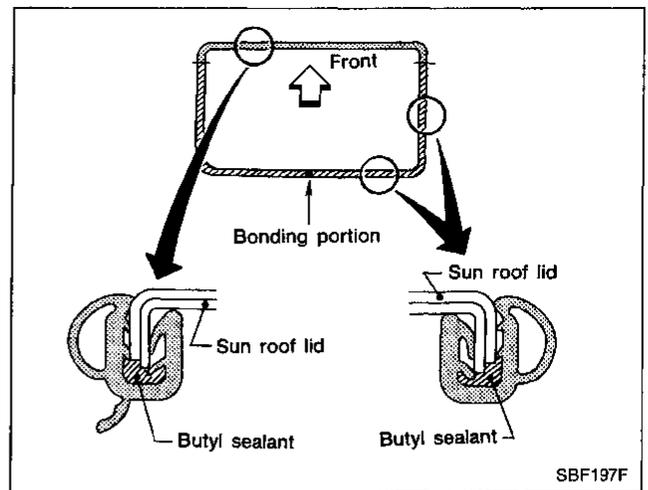
INTERIOR AND EXTERIOR

Exterior (Cont'd)

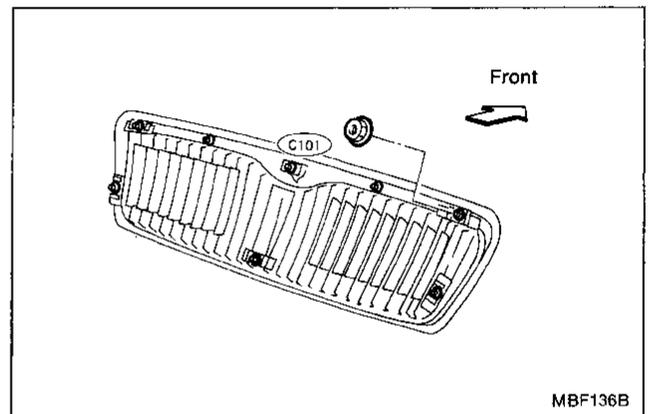
17 Side guard molding



18 Sun roof weatherstrip

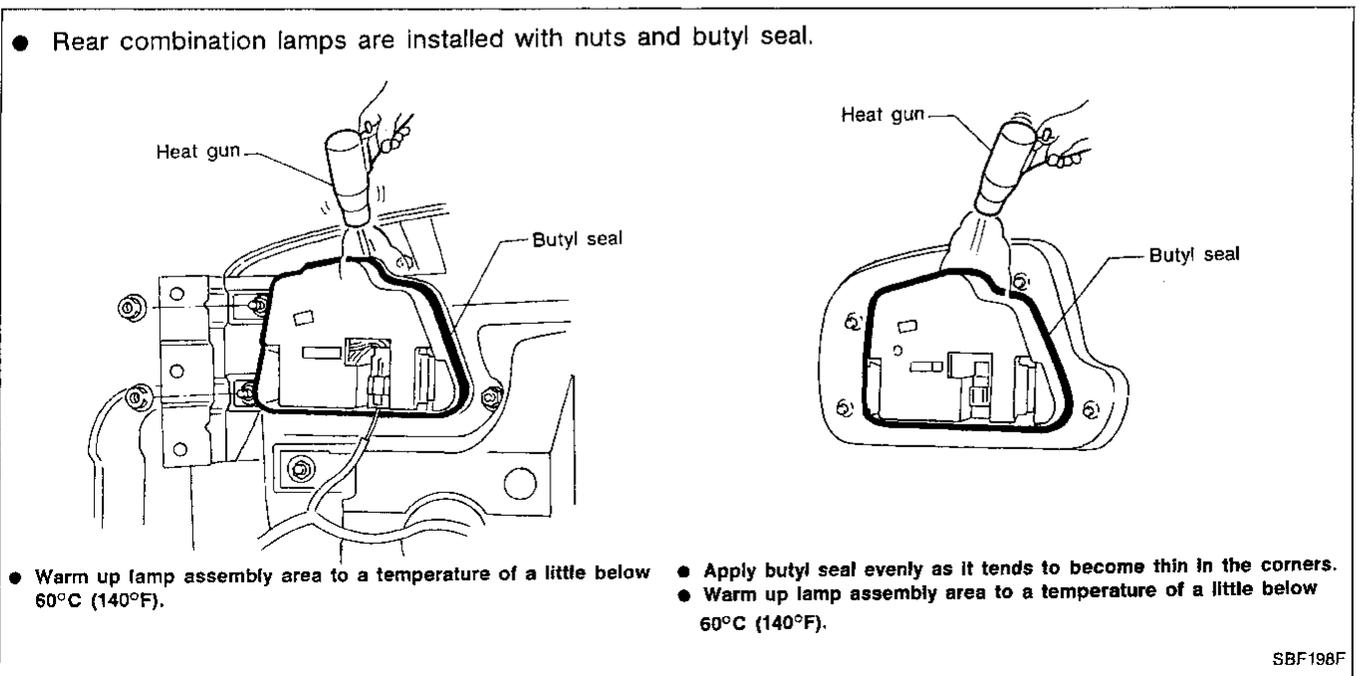


19 Front hood grille



20 Rear combination lamp

- Rear combination lamps are installed with nuts and butyl seal.



GI

MA

EM

LC

EF &
EC

FE

AT

PD

FA

RA

BR

ST

BF

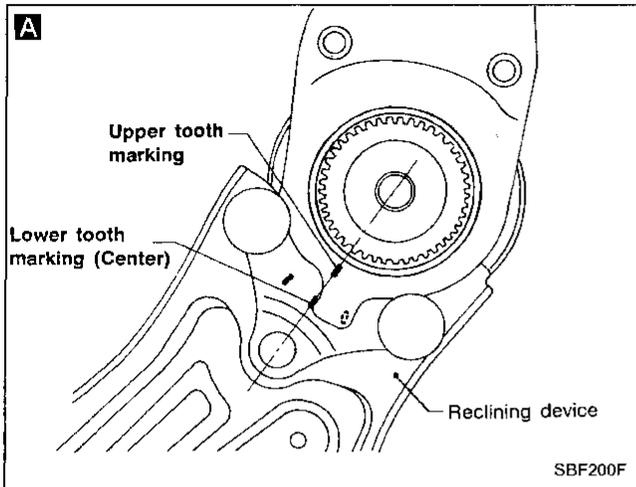
HA

EL

Front Seat (Cont'd)

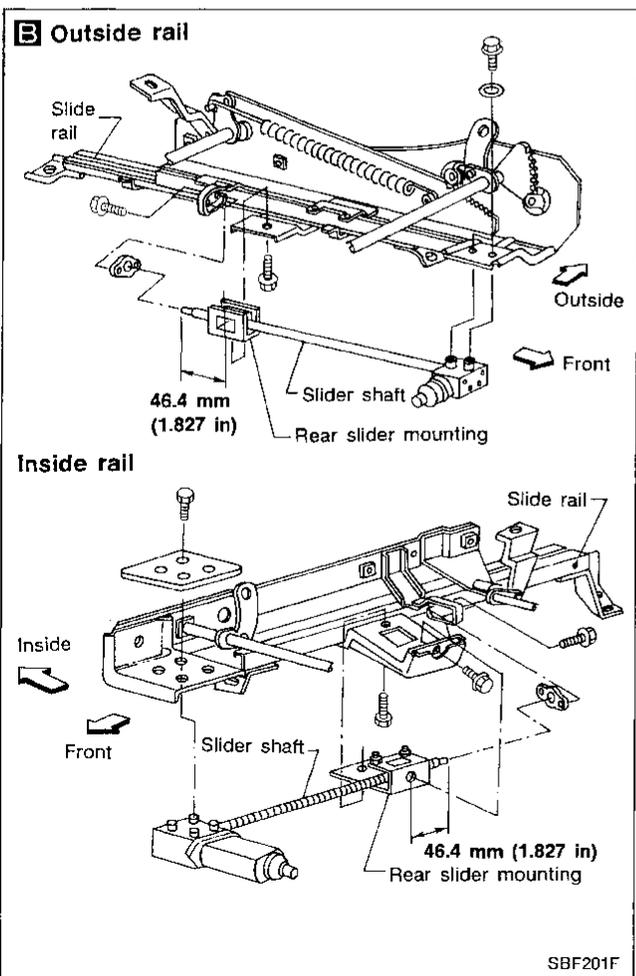
POWER SEAT MOTOR INSTALLATION

- Disconnect ground cable from battery while installing motors.
- Check that all motors function properly after installation.
- Check that trim and padding are removed from driver's seat.
- Install motors on passenger's seat side using the same procedures outlined from the driver's seat side.



A Reclining motor

1. Align upper toe mark on outside reclining device with lower toe mark on inside reclining device.
2. Install reclining motor.



B Sliding motor

1. Move both inside and outside slide rails to the rear-end position. (Seat assembly is then set at the front-end position.)
2. Adjust distance between rear end of slider shaft and the center of rear slider mounting to 46.4 mm (1.827 in).
3. Install sliding assembly and sliding motor.

GI

MA

EM

LC

EF &
EC

FE

AT

PD

FA

RA

BR

ST

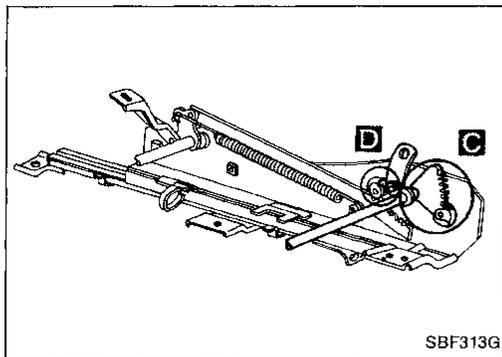
BF

HA

EL

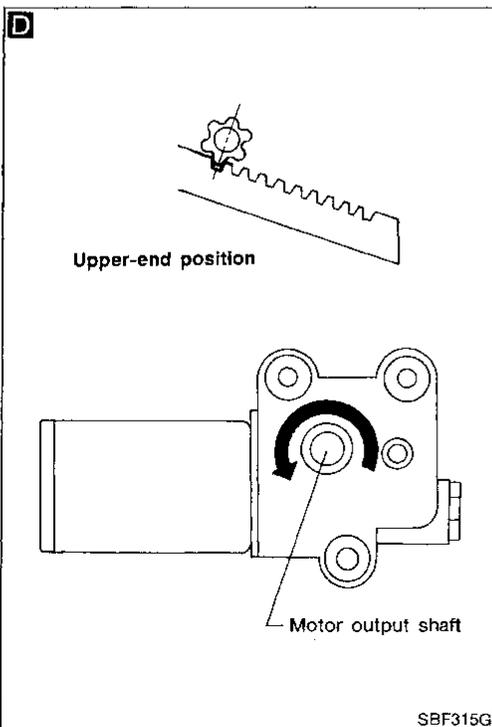
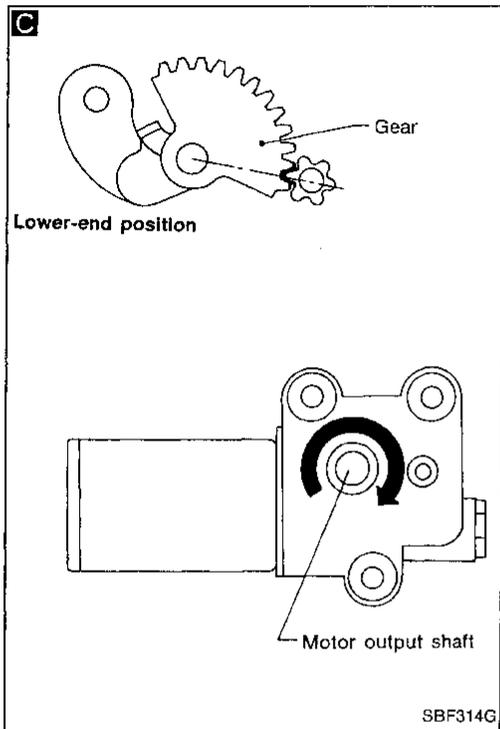
SEAT

Front Seat (Cont'd)



C Front lifting motor (Driver's side only)

1. Set front lifter to the lower-end position.
2. Connect motor assembly connector to power seat harness connector. (At this point, motor assembly is not installed on seat.)
3. Connect power seat harness connector to main harness connector.
4. Connect battery ground terminal. Set power seat switch so that front lifter move in the lower direction.
5. Lifting motor rotates in direction shown by arrow until it stops automatically at limit switch.
6. Disconnect battery ground terminal. Install front lifting motor.



D Rear lifting motor (Driver's side only)

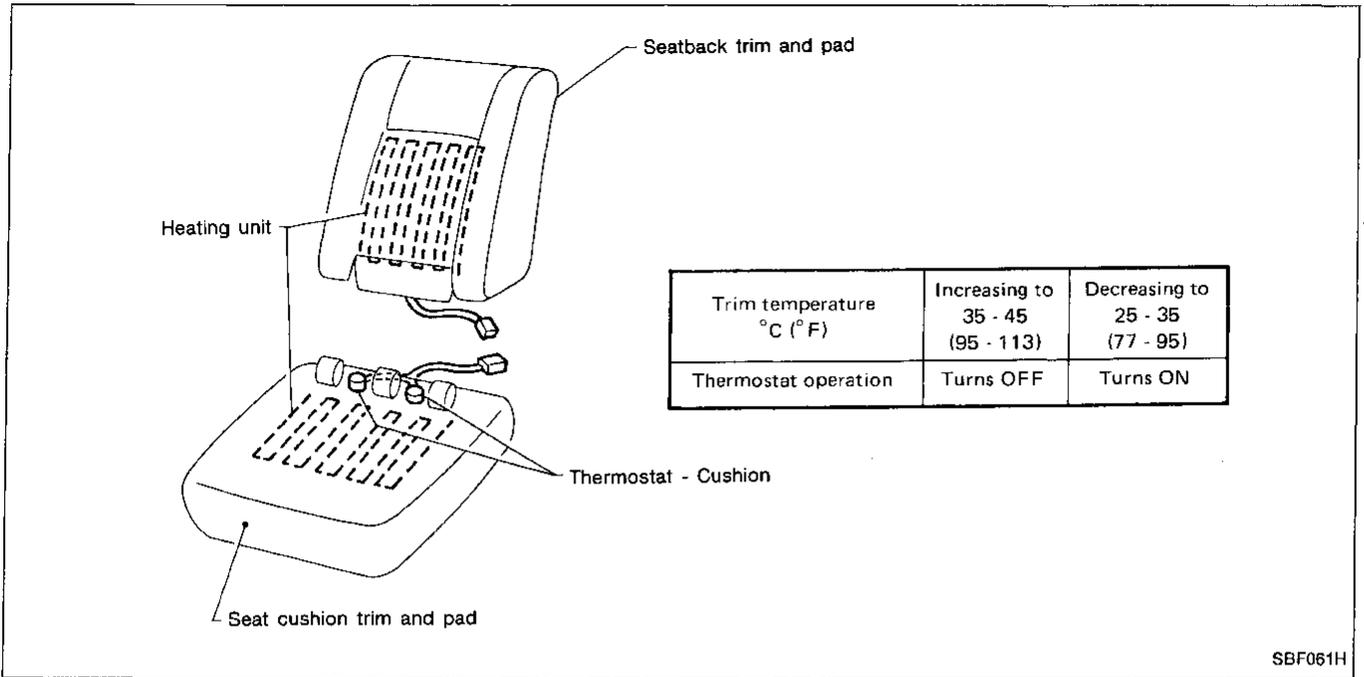
1. Move rear lifter to the upper-end position. (Spring will set rear lifter at this position.)
2. Connect motor assembly connector to power seat harness connector. (At this point, motor assembly is not installed on seat.)
3. Connect power seat harness connector to main harness connector.
4. Connect battery ground terminal. Set power seat switch so that rear lifter moves in the upper direction.
5. Motor rotates in direction shown by arrow and stops automatically at limit switch.
6. Disconnect battery ground terminal. Install front lifting motor.

SEAT

Front Seat (Cont'd)

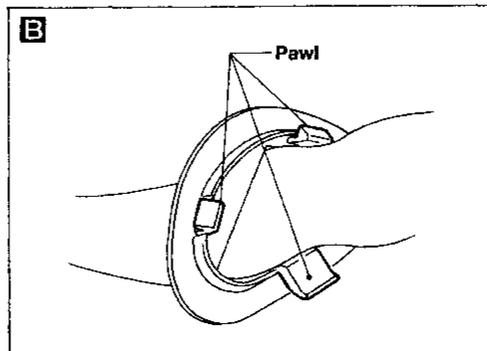
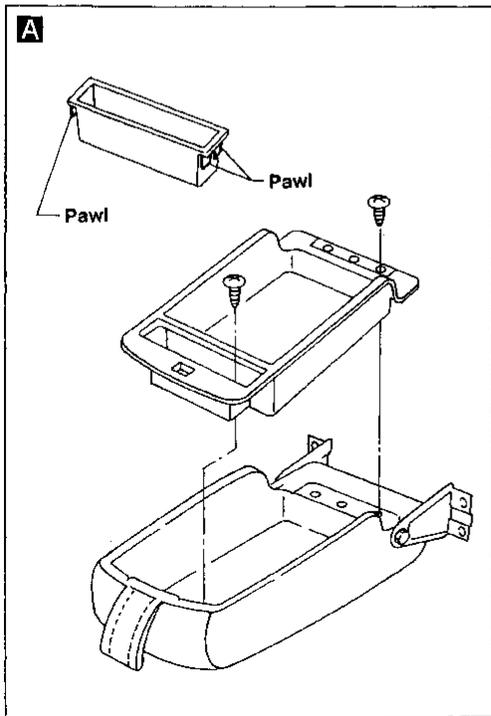
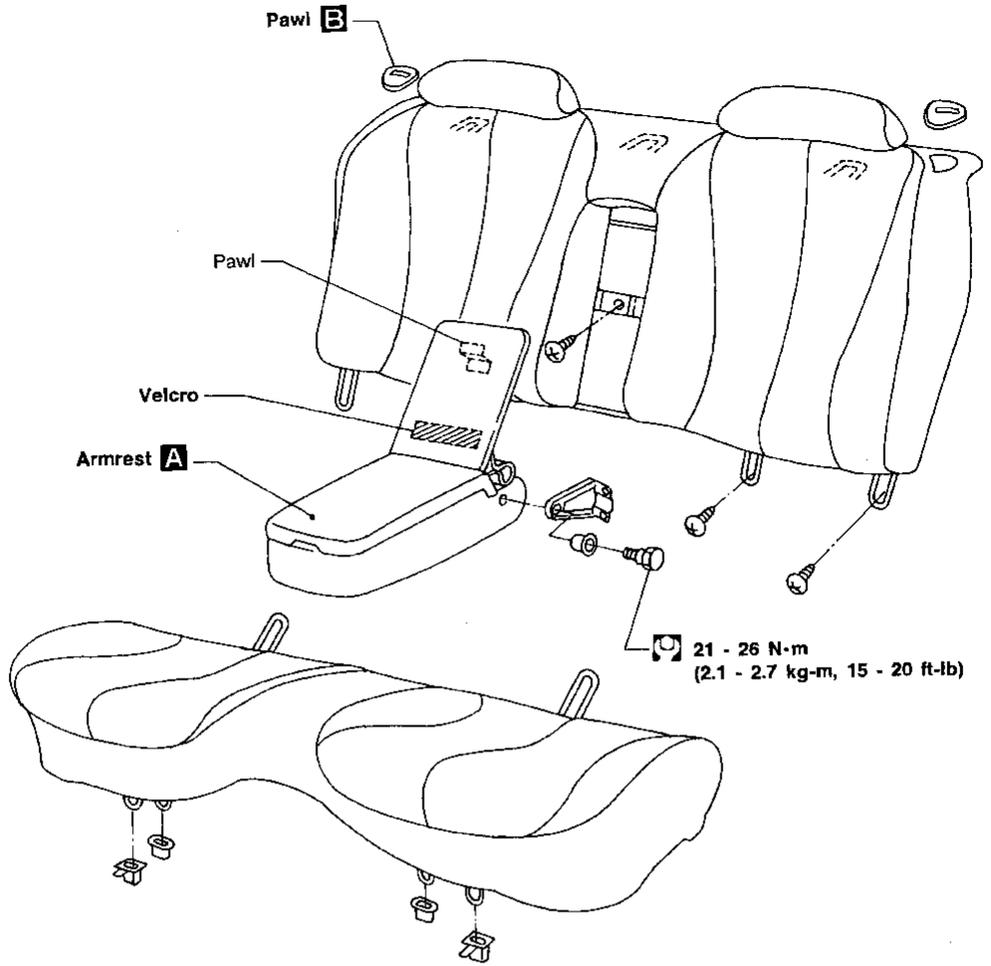
HEATED SEAT

- Heating unit is fixed to seat pad with double-faced adhesive tape. 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.



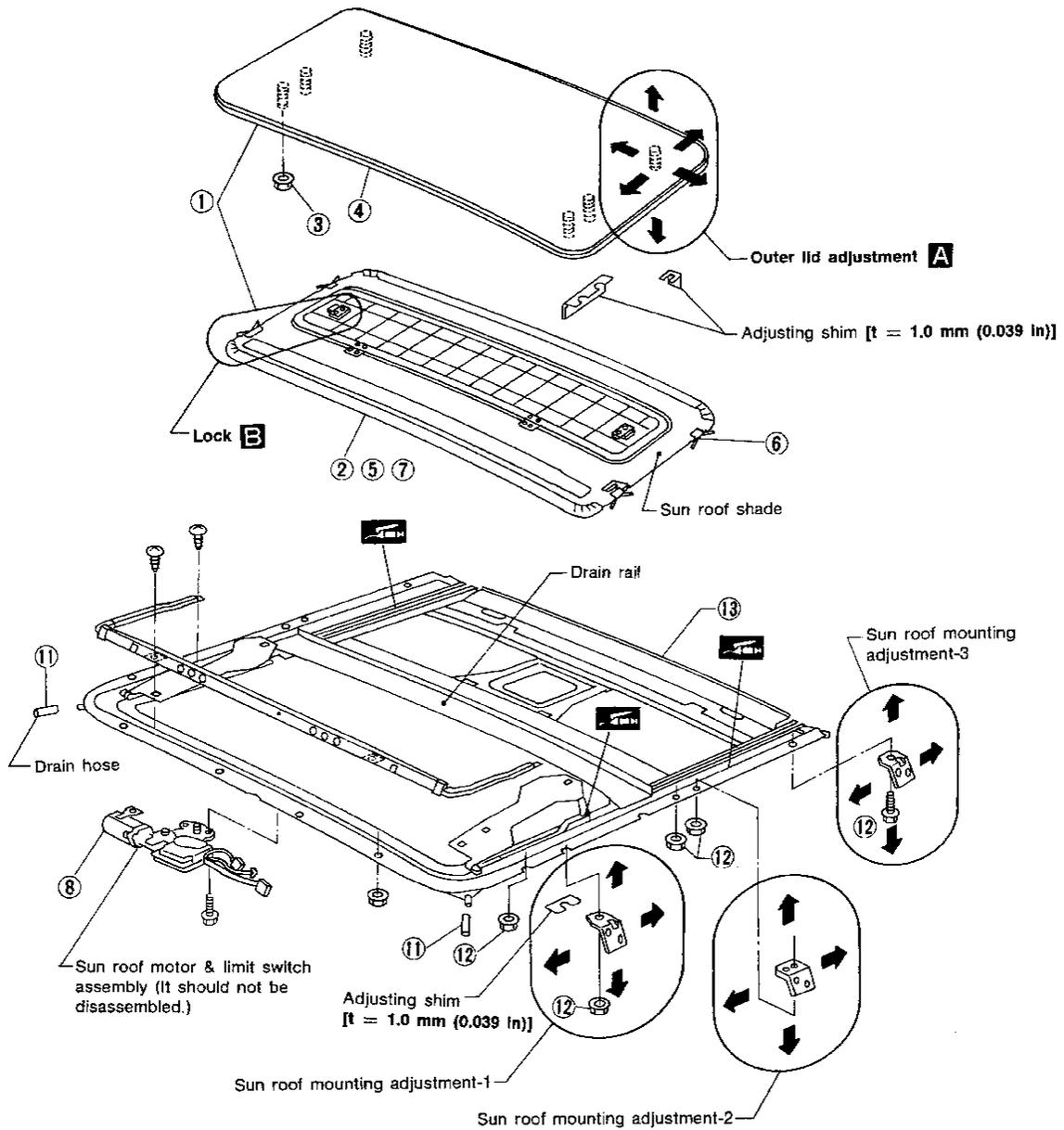
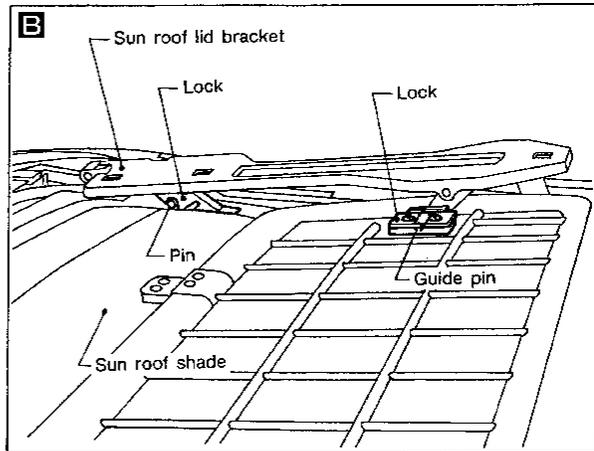
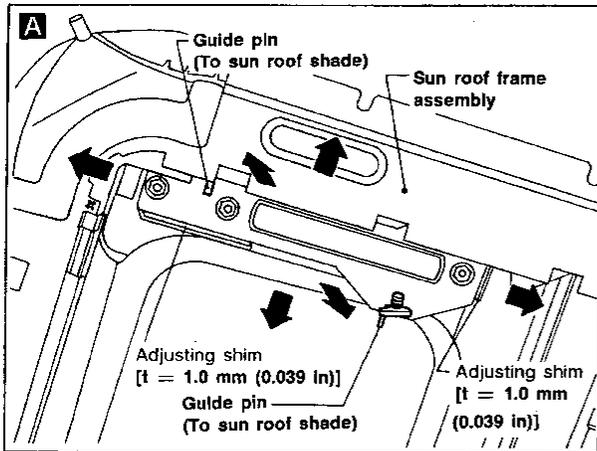
GI
MA
EM
LC
EF &
EC
FE
AT
PD
FA
RA
BR
ST
BF
HA
EL

Rear Seat

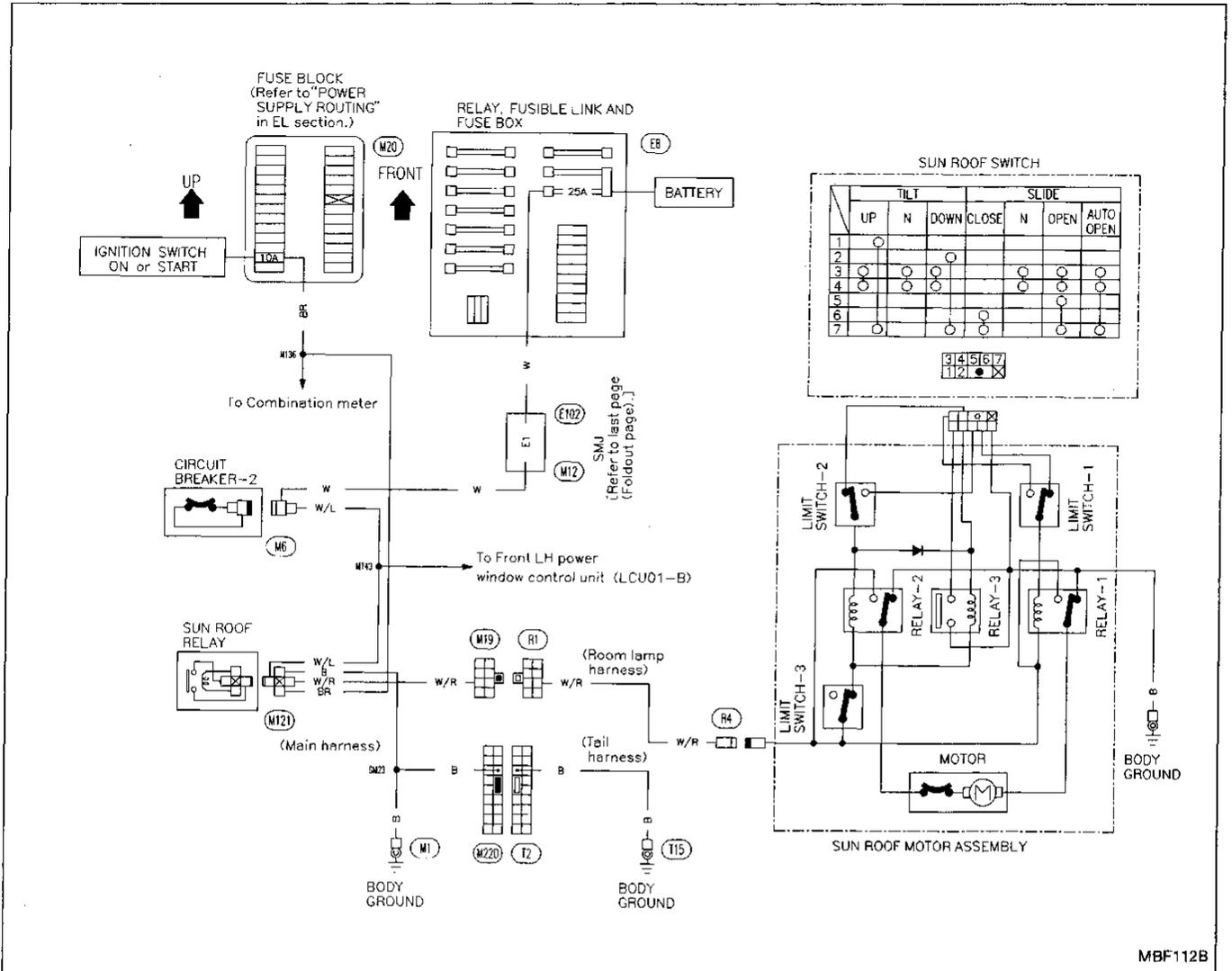


GI
MA
EM
LC
EF &
EC
FE
AT
PD
FA
RA
BR
ST
BF
HA
EL

SUN ROOF



Wiring Diagram



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

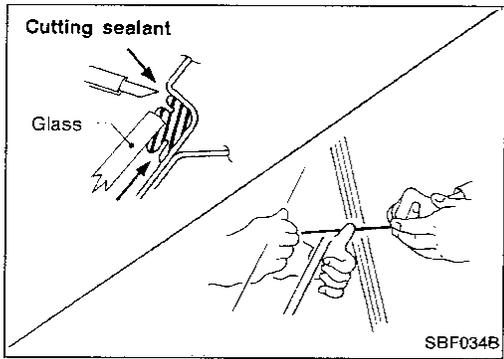
CAUTION:

- Always work with a helper.
- Remove sun roof frame from rear door opening.

REMOVAL — Sun roof assembly

- Open sun roof lid to approximately 2/3 of full-open position. Remove locks and pins through clearance between sun roof lid and sun roof shade.
- Push in sun roof shade backward so that sun roof is held closed.
- Close sun roof lid, and remove six nuts from back of sun roof lid.
- Lift out sun roof away from roof.
- Pull sun roof shade forward.
- Remove four shade locks located beside sun roof shade.
- Remove sun roof shade.
- Remove sun roof motor assembly.
- Remove driver's and passenger's seats. For details, refer to "Front Seat" in "SEAT".
- Disconnect interior lamp harness.
- Disconnect front and rear drain hoses.
- Remove nuts and bolts securing sun roof rails.
- Remove sun roof rail assembly.

WINDSHIELD AND WINDOWS



REMOVAL

After removing moldings, remove glass.

CAUTION:

Be careful not to scratch glass when removing.

INSTALLATION

- Use genuine Nissan Sealant kit or equivalent. Follow instructions furnished with it.
- After installing the glass, the vehicle should remain stationary until the sealant hardens.

WARNING :

Keep heat and open flames away as primers are flammable.

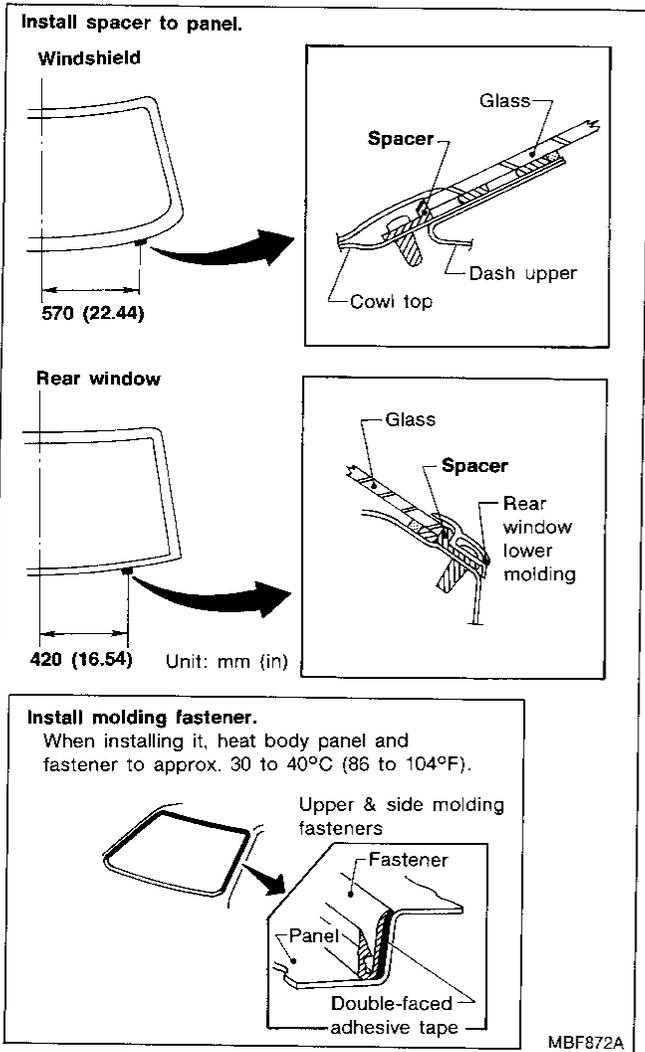
CAUTION:

Advise the user of the fact that vehicle should not be driven on rough roads or surfaces until sealant has properly vulcanized.

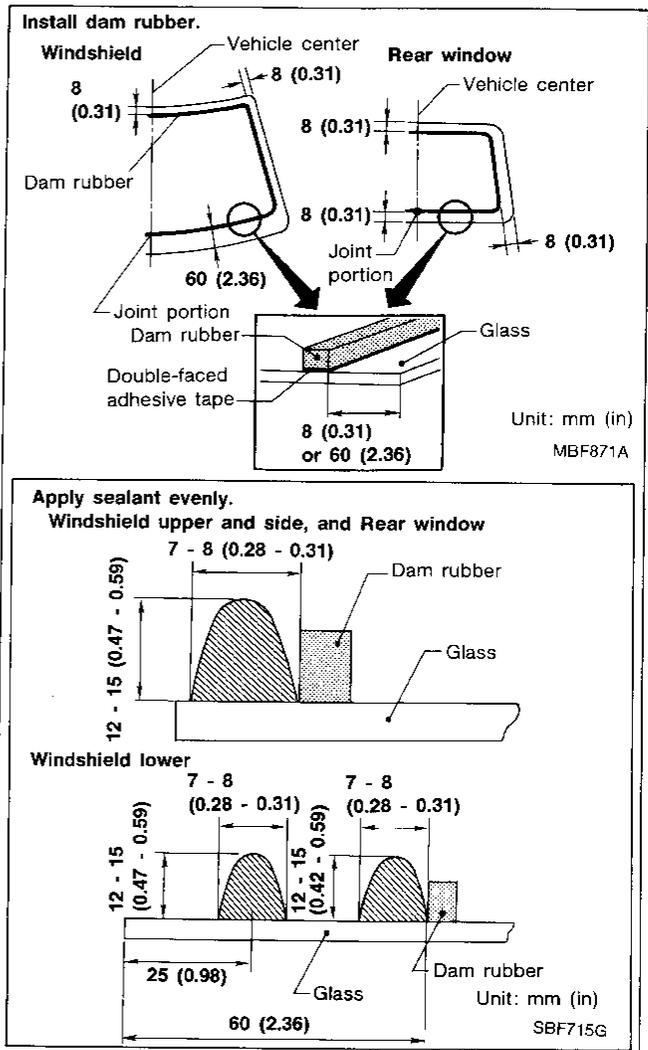
- Do not use sealant which is past its usable term.
- Do not leave cartridge unattended with its cap open.
- Keep primers and sealant in a cool, dry place. Ideally, they should be stored in a refrigerator.
- Molding must be installed securely so that it is in position and leaves no gap.

Windshield and Rear Window

BODY SIDE



GLASS SIDE



WINDSHIELD AND WINDOWS

Windshield and Rear Window (Cont'd)

REPAIRING WATER LEAKS FOR WINDSHIELD AND REAR WINDOW

Leaks can be repaired without removing and reinstalling glass.

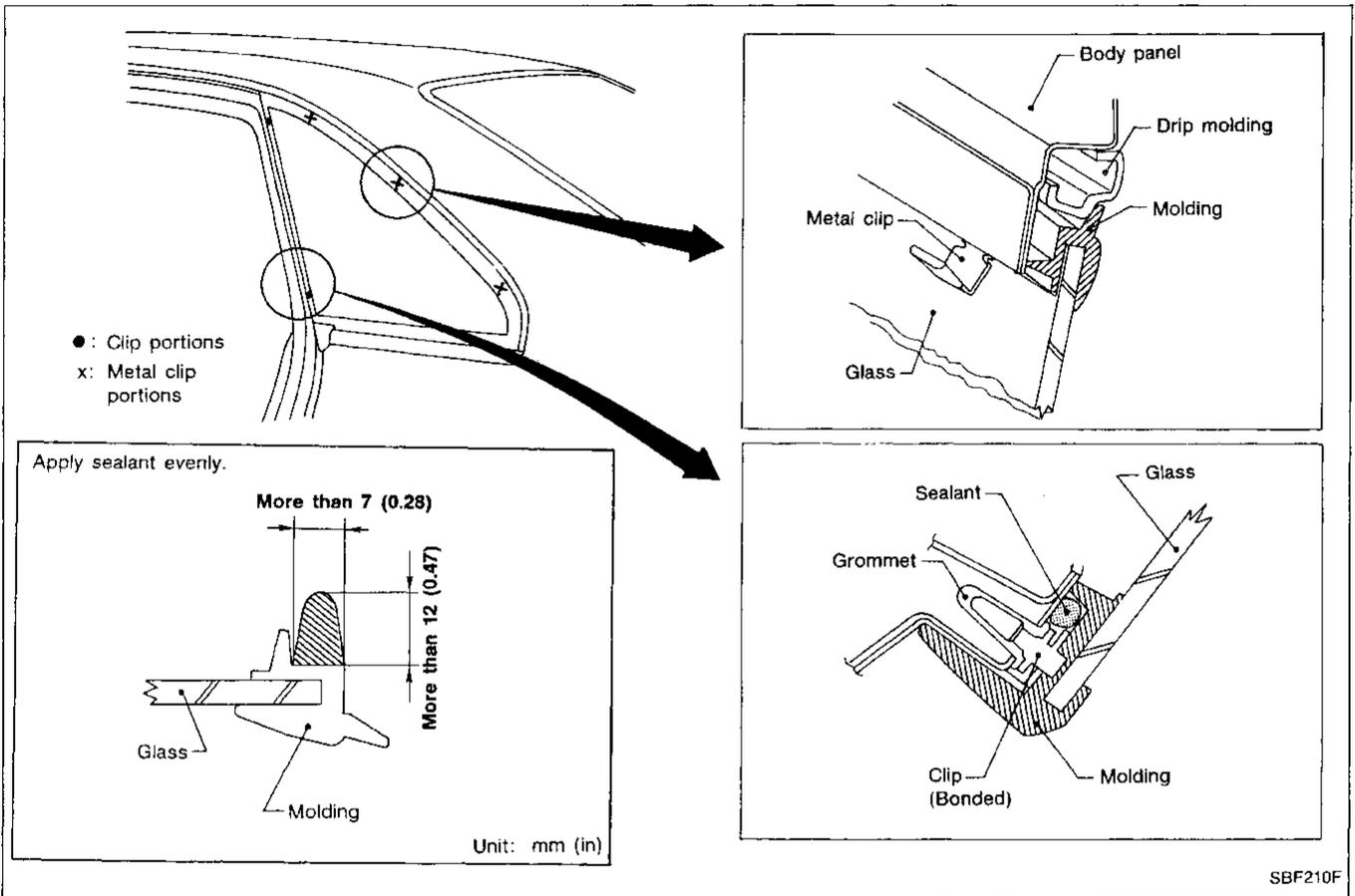
If water is leaking between caulking material and body or between glass and caulking material, determine the extent of the leak by applying water while pushing glass outward.

To stop the leak, apply primer and then sealant to the leak point.

Opera Window

Molded type window

During removal, be careful not to scratch molding when cutting sealant. If molding is scratched, repair.



GI

MA

EM

LC

EF &
EC

FE

AT

PD

FA

RA

BR

ST

BF

HA

EL

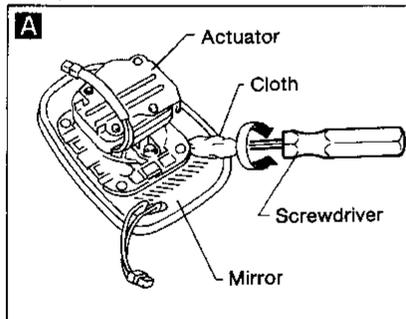
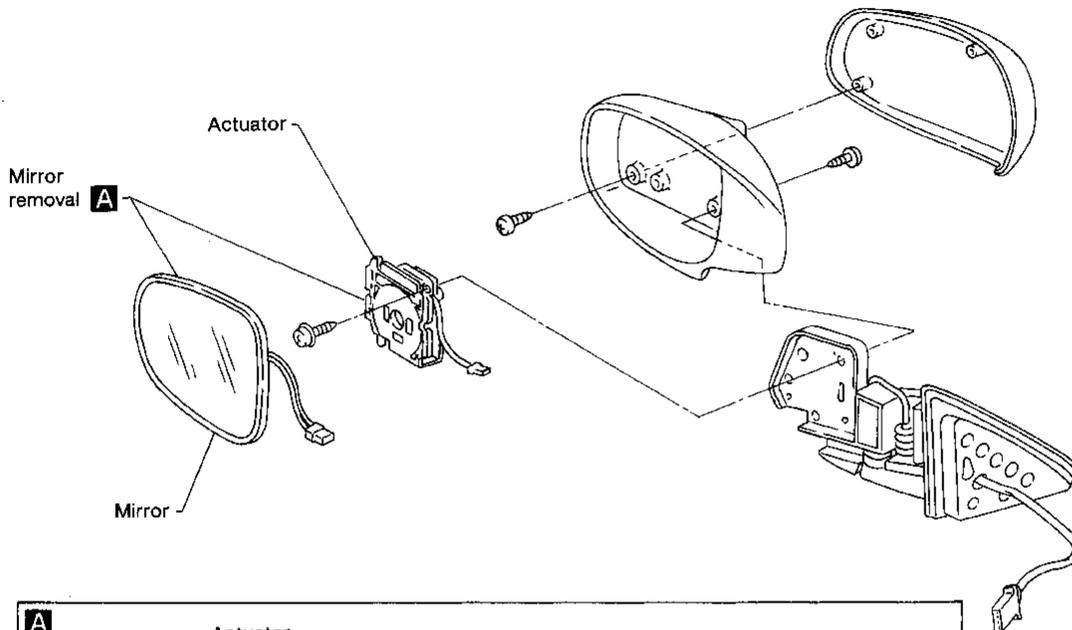
Door Mirror

CAUTION:

Be careful not to scratch door rearview mirror body.

REMOVAL — Door mirror

1. Remove door trim. Refer to "Removal — Door trim" in "Interior" for details.
2. Remove inner cover front corner of door.
3. Disconnect door mirror harness connector.
4. Remove harness clips.
5. Remove three bolts securing door mirror.



Removal

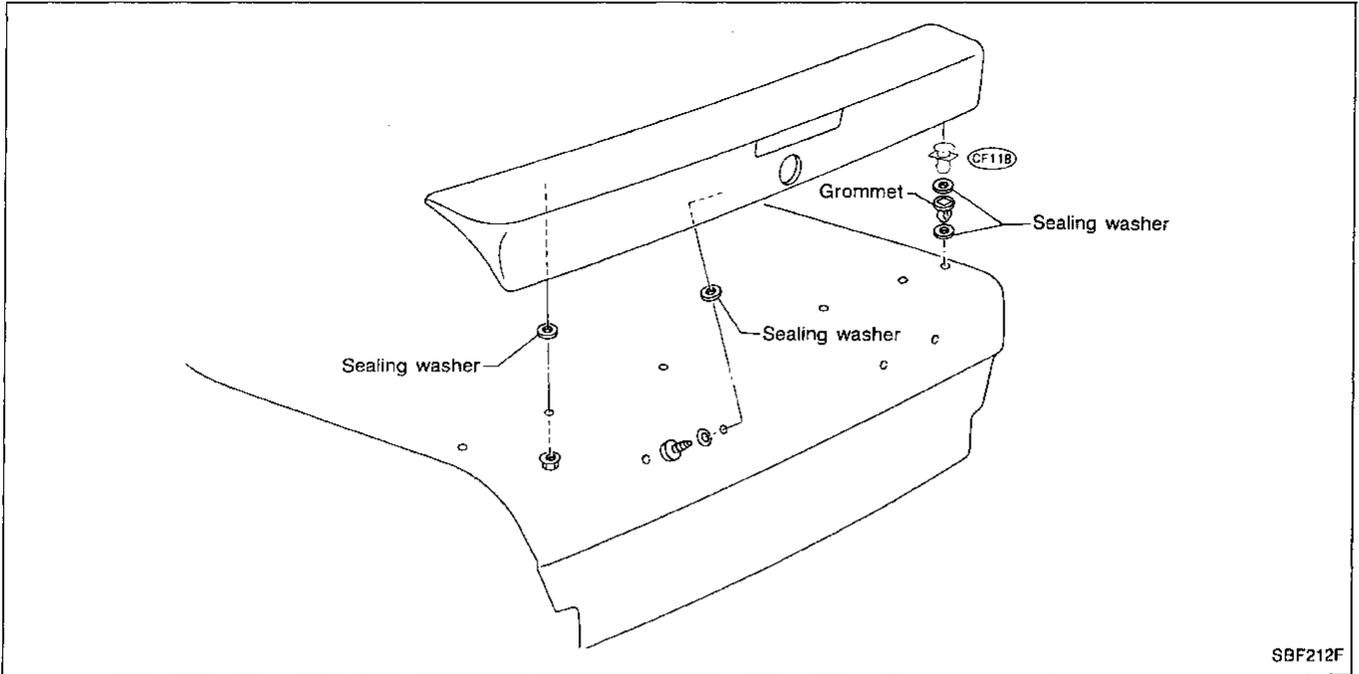
- Wrap flat blade of screwdriver with a cloth to prevent scratching rear of door mirror. Do not insert screwdriver too far.

SBF069H

MIRROR AND REAR AIR SPOILER

Rear Air Spoiler

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



GI

MA

EM

LC

EF &
EC

FE

AT

PD

FA

RA

BR

ST

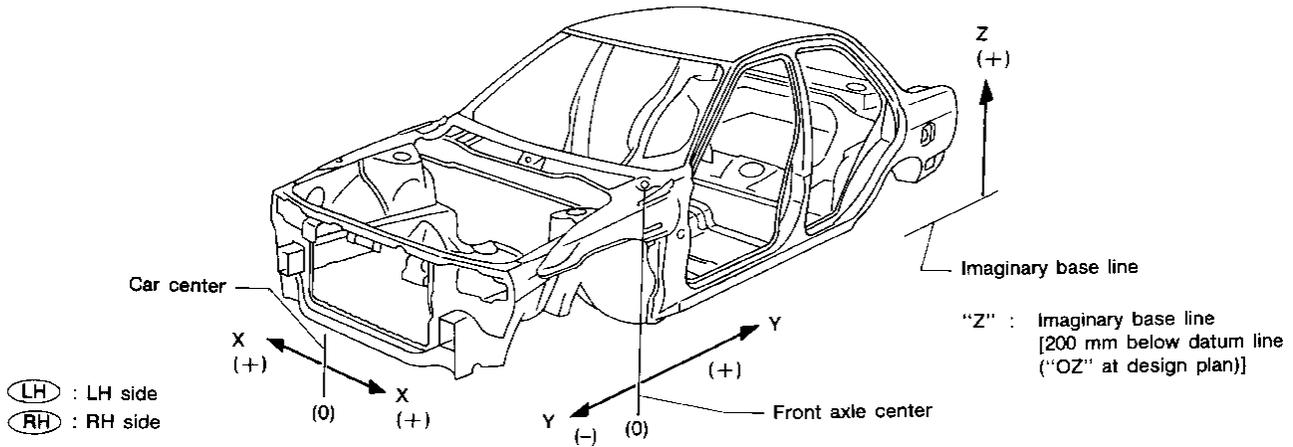
BF

HA

EL

BODY ALIGNMENT

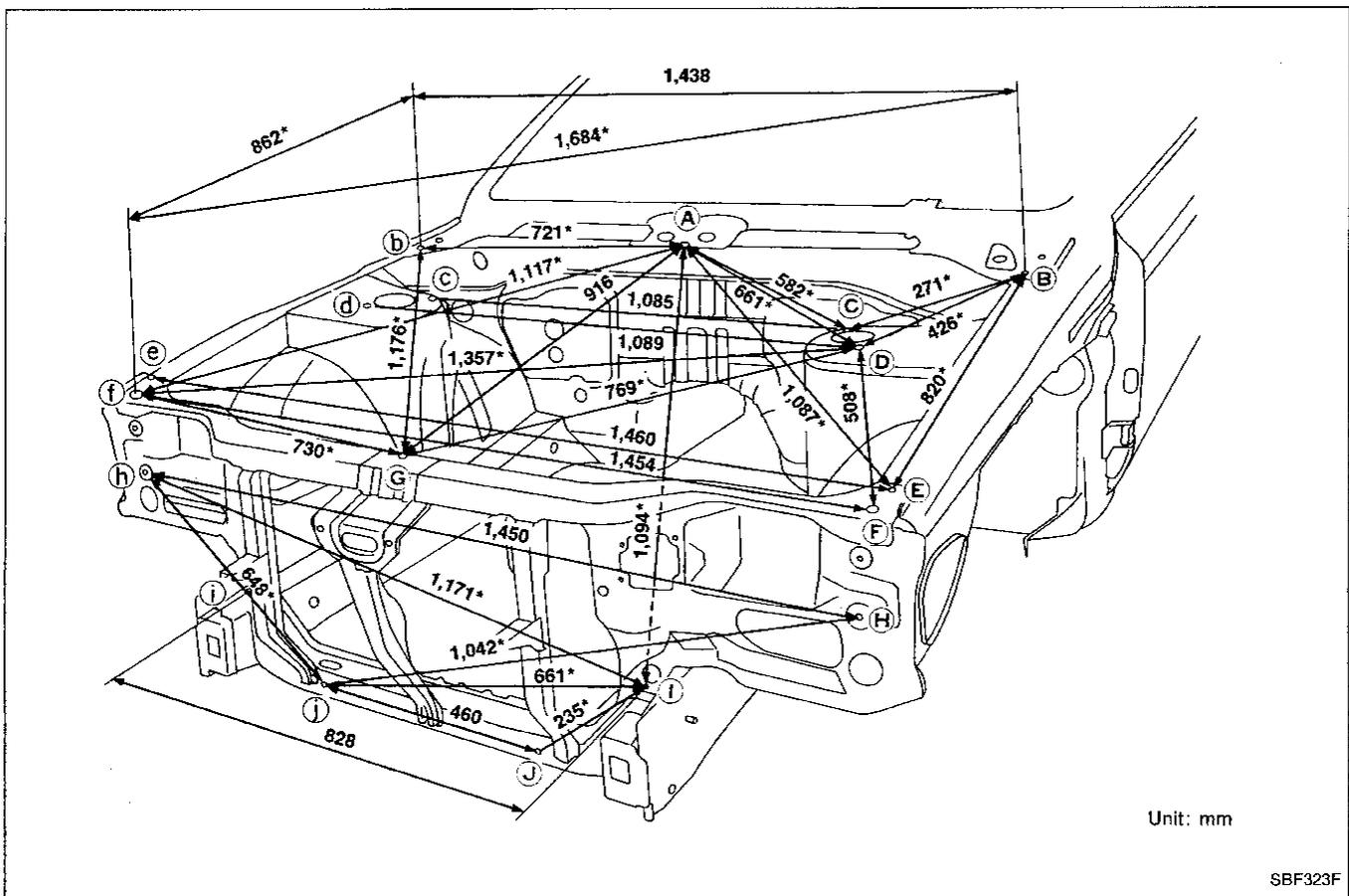
- All dimensions indicated in figures are actual ones.
- When a tram tracking gauge is used, adjust both pointers to equal length and check the pointers and gauge itself to make sure there is no free play.
- When a measuring tape is used, check to be sure there is no elongation, twisting or bending.
- 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".



SBF874G

Engine Compartment

MEASUREMENT

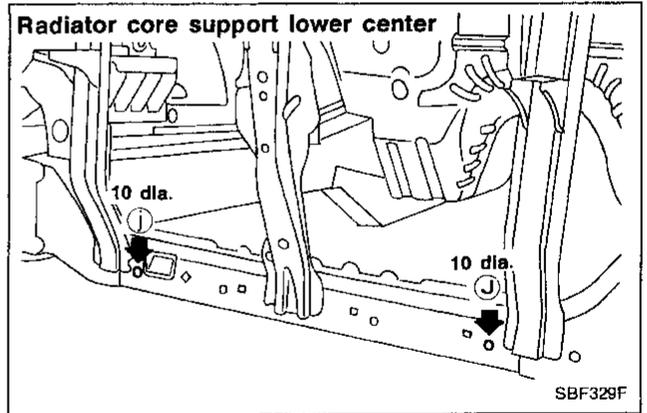
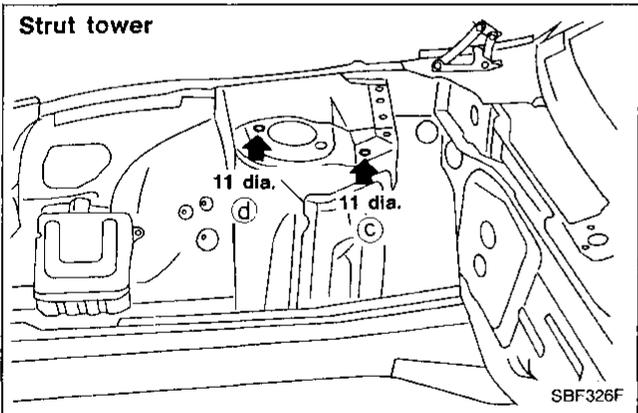
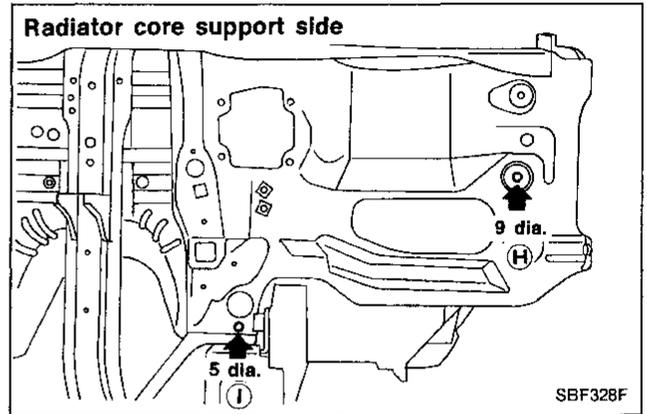
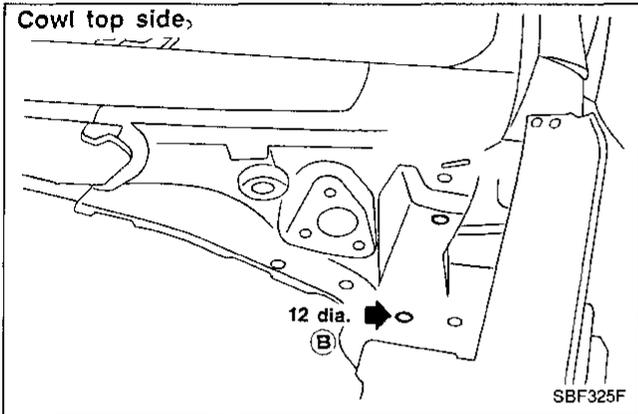
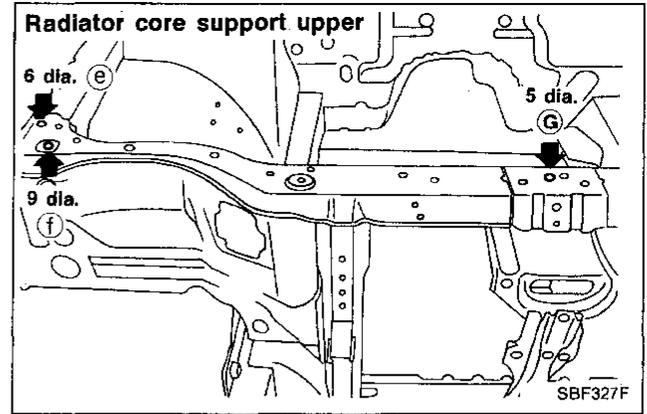
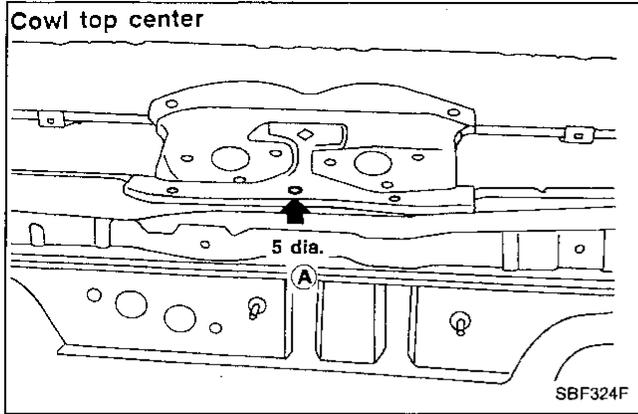


BODY ALIGNMENT

Engine Compartment (Cont'd)

Unit: mm

MEASUREMENT POINTS



GI

MA

EM

LC

EF &
EC

FE

AT

PD

FA

RA

BR

ST

BF

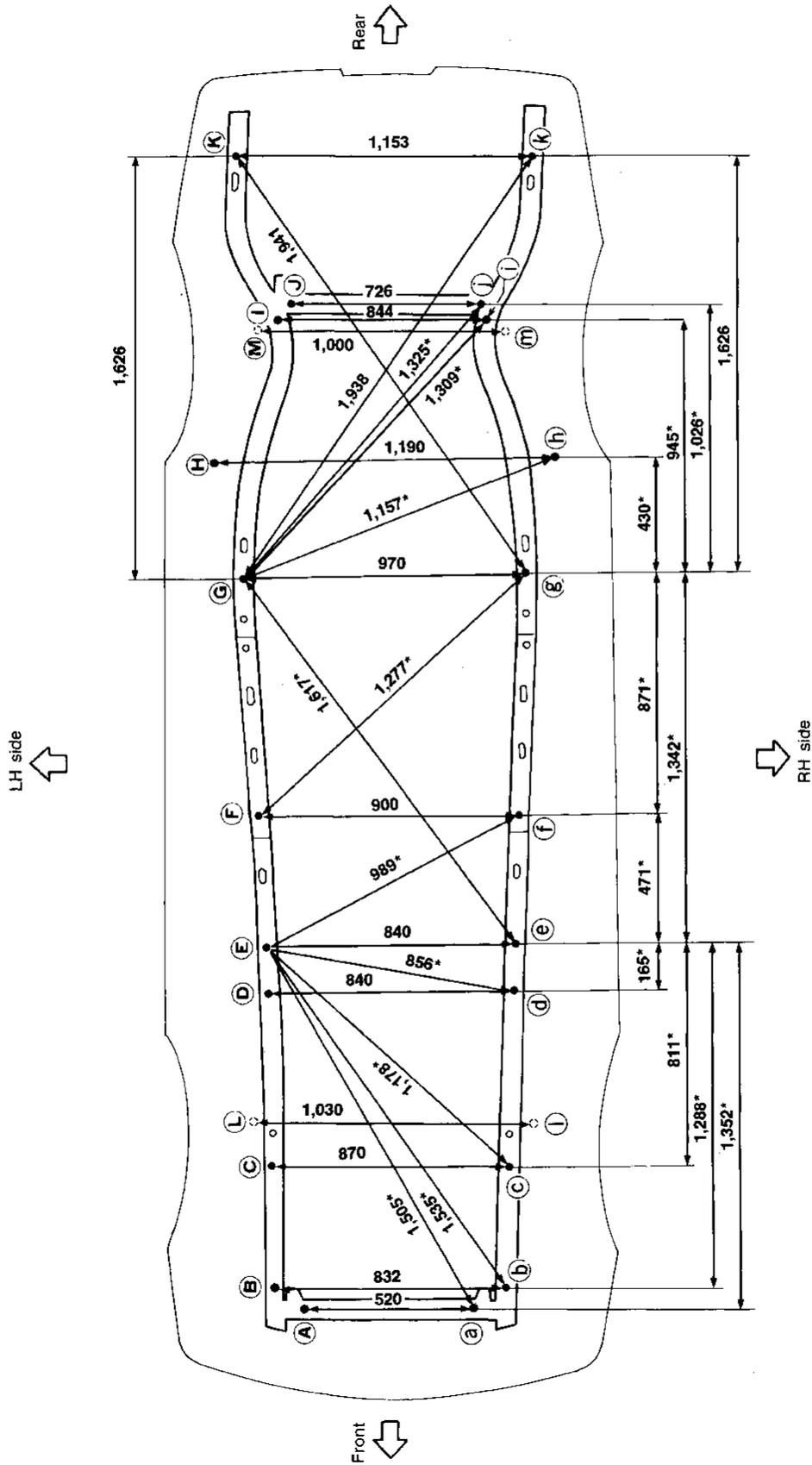
HA

EL

BODY ALIGNMENT

Underbody

MEASUREMENT



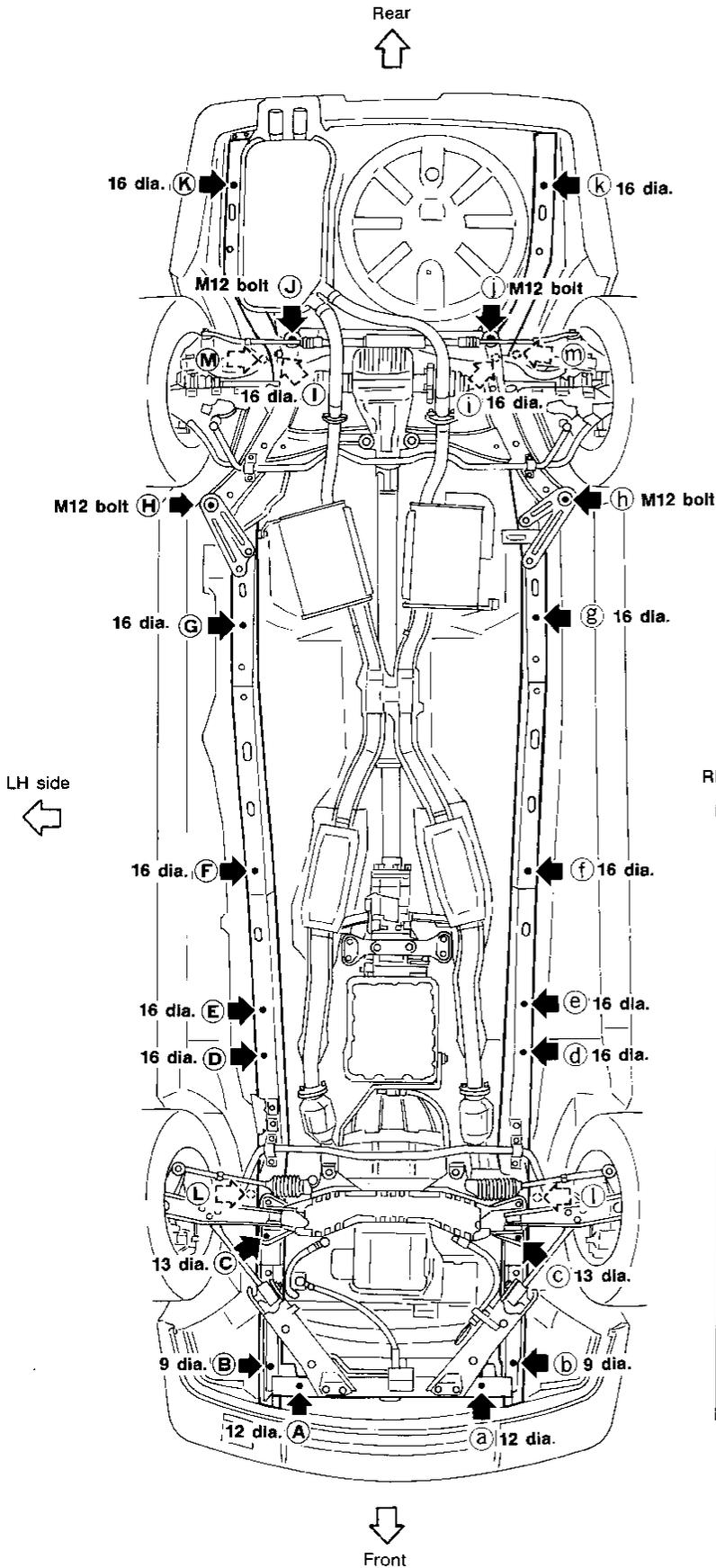
All dimensions indicated in this figure are actual ones. (There are no projected dimensions.)

Unit: mm
SBF321F

BODY ALIGNMENT

Underbody (Cont'd)

MEASUREMENT POINTS



Front coordinates: Rear coordinates:

(A), (a) **(G), (g)**
 X : 260 X : 485
 Y : -634 Y : 2,040
 Z : 237.5 Z : 84.6

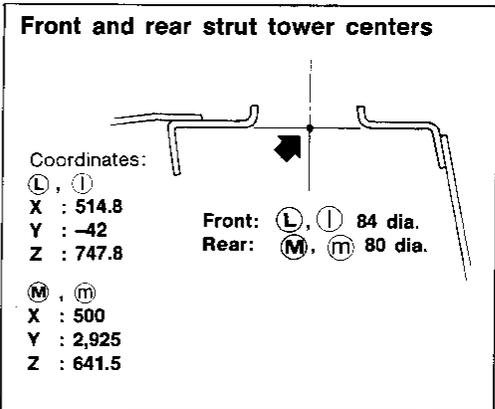
(B), (b) **(H), (h)**
 X : 416 X : 595
 Y : -582 Y : 2,455
 Z : 211.2 Z : 99.2

(C), (c) **(I), (i)**
 X : 435 X : 422
 Y : -100 Y : 2,935
 Z : 220 Z : 382.6

(D), (d) **(J), (j)**
 X : 420 X : 363
 Y : 535 Y : 3,045
 Z : 88.6 Z : 249.3

(E), (e) **(K)**
 X : 420 X : 580
 Y : 700 Y : 3,650
 Z : 90.4 Z : 291.5

(F), (f) **(k)**
 X : 450 X : 573
 Y : 1,170 Y : 3,650
 Z : 92 Z : 291.5



Unit: mm

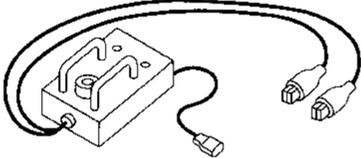
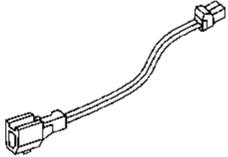
- GI
- MA
- EM
- LC
- EF & EC
- FE
- AT
- PD
- FA
- RA
- BR
- ST
- BF**
- HA
- EL

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

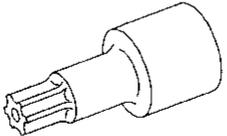
Precautions for SRS “Air Bag” and “Seat Belt Pre-tensioner” Service

- Do not use a circuit tester to check SRS circuits.
- Before servicing the SRS, turn ignition switch “OFF”, disconnect battery ground cable and wait for at least 10 minutes. (If equipped with “FULL-ACTIVE SUSPENSION”, do not disconnect battery terminals for approximately 2 minutes after stopping the engine. Doing so may change vehicle height.) For approximately ten minutes after the cables are removed, it is still possible for the air bag to inflate. Therefore, do not work on any air bag system connectors or wires until at least ten minutes have passed.
- SRS sensors must always be installed with their arrow marks “ ← ” facing the front of the vehicle for proper operation. Also check sensors for cracks, deformities or rust before installation and replace as required.
- The spiral cable must be aligned with the neutral position since its rotations are limited. Do not attempt to turn steering wheel or column after removal of steering gear.
- Handle air bag module carefully. Always place it with the pad side facing upward.
- After removing any SRS parts, discard old bolts and replace with new ones. Conduct self-diagnosis to check entire SRS for proper function.
- If front of vehicle is damaged in a collision, always check the crash zone sensor and the wiring harness.
- After air bag inflates, the front instrument panel assembly should be replaced.

Special Service Tools

Tool number (Kent-Moore No.) Tool name	Description	
KV999R0011 (J38381) Deployment tool		Disposing of air bag module
(J38381-30) Deployment tool adapters		

Commercial Service Tools

Tool name	Description	
Special torx bit		Use for special bolts (tamper resistant screw)
Spiral cable stopper		Avoiding unexpected spiral cable rotation

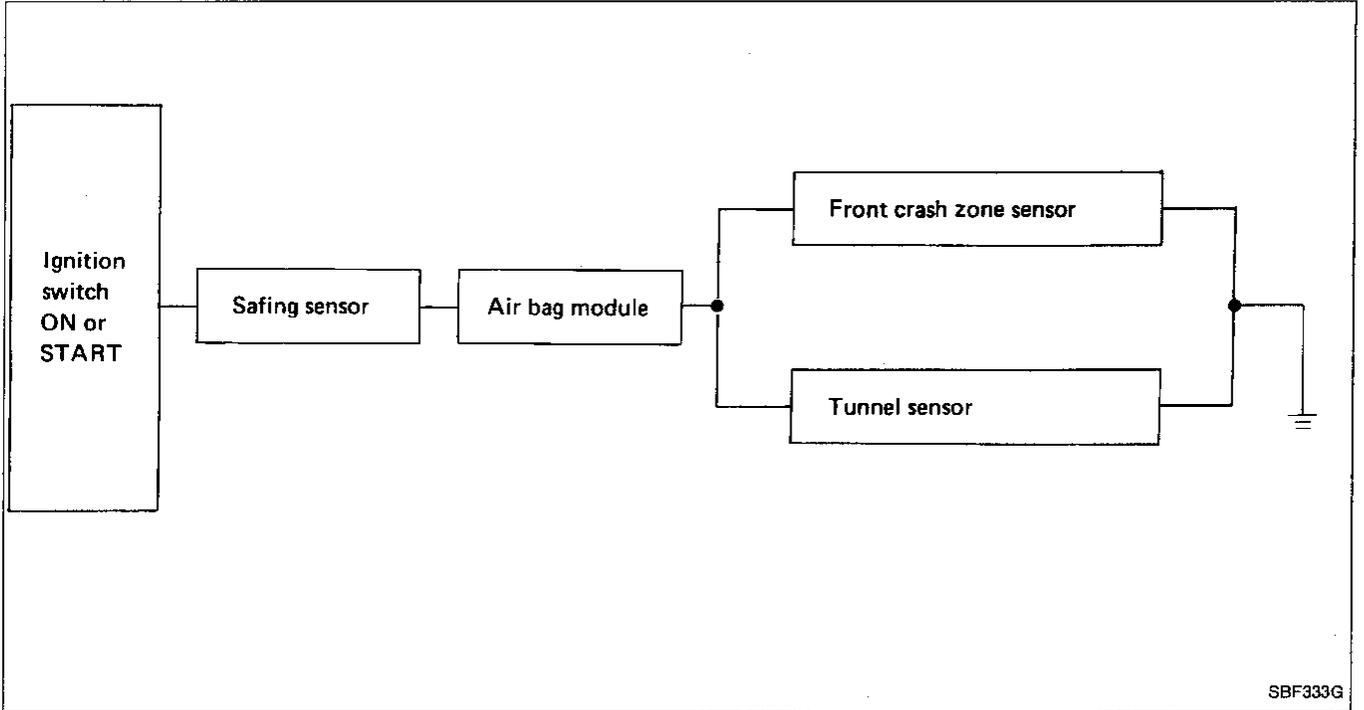
- When laying aside a single pre-tensioner (belt assembly), make sure cylinder tip does not point towards a person. Always place pre-tensioner in a box if possible. (If pre-tensioner should go off accidentally, rubber cap will jump out of cylinder tip, blowing out high-temperature gas.)

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Description

The air bag deploys when any of the two sensors (front crash zone sensor or tunnel sensor) and the safing sensor simultaneously activate while the ignition switch is "ON".

Ignition	Front crash zone sensor	Tunnel sensor	Safing sensor	Air bag signal
ON	ON		ON	ON
ON		ON	ON	ON



Self-diagnosis

The control unit (diagnosis unit) diagnoses the SRS circuit. When the ignition key is in the "ON" or "START" position, the "AIR BAG" warning lamp will illuminate for about 7 seconds and then turn off. This means that the system is operational.

GI

MA

EM

LC

EF &
EC

FE

AT

PD

FA

RA

BR

ST

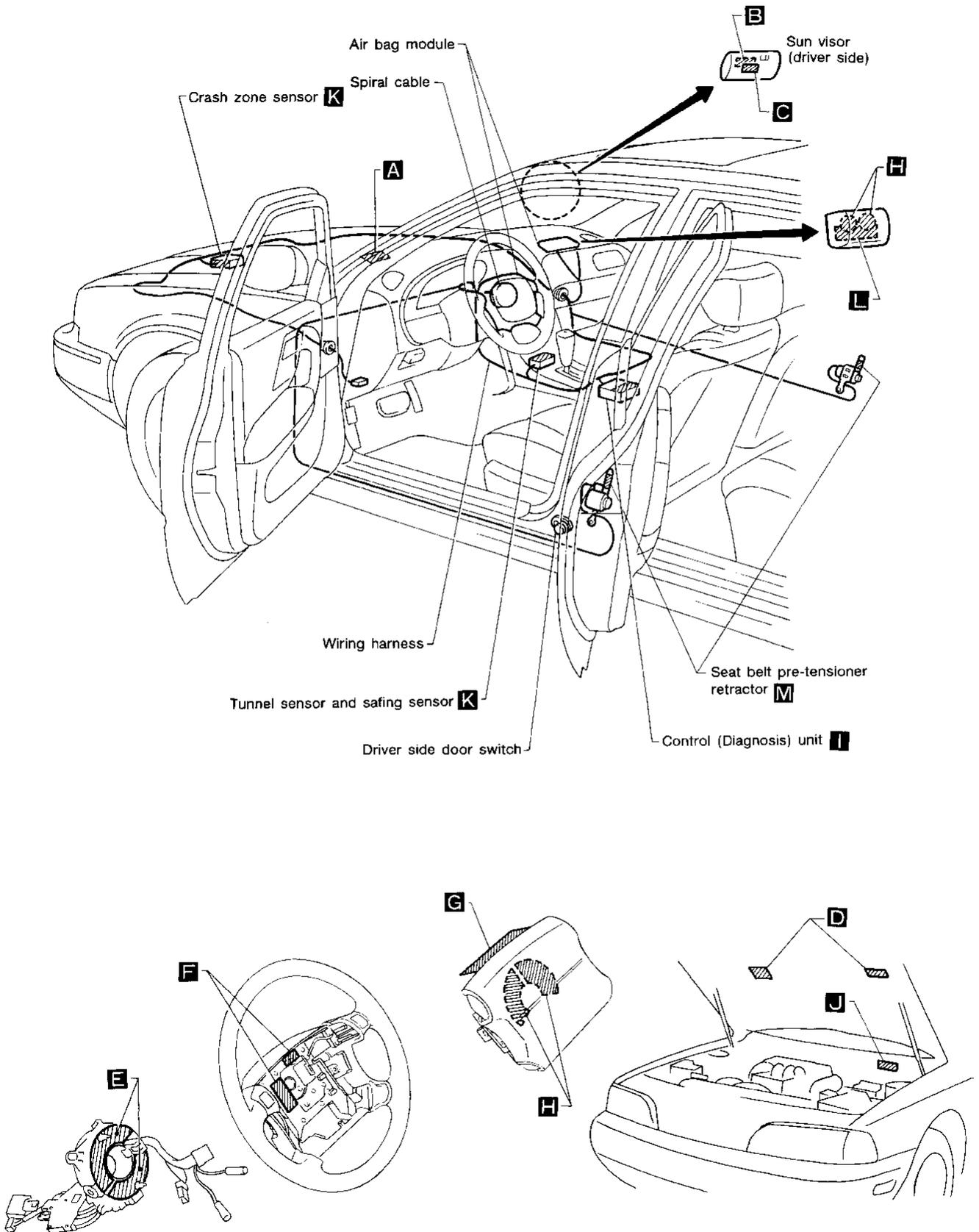
BF

HA

EL

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

SRS Component Parts Location



SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Caution Labels

The **CAUTION LABELS** are important when servicing air bags in the field. If they are dirty or damaged, replace them with new ones.

A

SRS-AIRBAG

B

INFORMATION

SRS AIRBAG

- THIS CAR IS EQUIPPED WITH AIR BAGS AS A SUPPLEMENTAL RESTRAINT SYSTEM (S.R.S.) TO HELP PROTECT FRONT OCCUPANTS IN A FRONTAL COLLISION.
- ALWAYS USE SEAT BELTS OR CHILD SEAT.
- THE SYSTEM MUST BE INSPECTED 10 YEARS AFTER DATE OF MANUFACTURE, AS NOTED ON THE CERTIFICATION LABEL LOCATED ON THE LEFT FRONT DOOR.
- IF ANY OF THE FOLLOWING CONDITIONS OCCUR, THE SYSTEM MUST BE SERVICED: THE "AIR BAG" LAMP DOES NOT GO ON, FLASHES INTERMITTENTLY OR REMAINS ON.
- SEE YOUR OWNER'S MANUAL FOR DETAILS ABOUT THE FUNCTIONING, SERVICE AND DISPOSAL PROCEDURES FOR THE SYSTEM.

C

NOTICE

SRS AIRBAG

- THIS CAR IS EQUIPPED WITH AIR BAGS TO SUPPLEMENT THE SEAT BELTS.
- ALWAYS USE SEAT BELTS OR CHILD SEAT.
- CHILD SEATS: USE IN REAR SEAT. IF USED IN PASSENGER SEAT, SET CHILD SEATS FORWARD FACING AND MOVE AS FAR FROM DASH AS POSSIBLE.
- READ THE INFORMATION ON THE REVERSE SIDE.

D

WARNING

SRS AIRBAG

- THIS CAR IS EQUIPPED WITH AIR BAGS AS A SUPPLEMENTAL RESTRAINT SYSTEM (S.R.S.)
- ALL S.R.S. ELECTRICAL WIRING AND CONNECTORS ARE COLORED YELLOW.
- DO NOT USE ELECTRICAL TEST EQUIPMENT ON THESE CIRCUITS.
- TAMPERING WITH OR DISCONNECTING THE S.R.S. WIRING AND CONNECTORS COULD RESULT IN ACCIDENTAL DEPLOYMENT OF THE AIR BAGS OR MAKE THE SYSTEM INOPERATIVE, WHICH MAY RESULT IN SERIOUS INJURY.

E

CAUTION

SRS AIRBAG

- BEFORE ASSEMBLY;
 - LINE UP THE FRONT WHEELS STRAIGHT AHEAD.
 - ALIGN THE ARROW WITH THE YELLOW MARK ON THE SIDE GEAR.
 - READ SERVICE MANUAL.
- NO SERVICEABLE PARTS INSIDE.
- DO NOT DISASSEMBLE OR TAMPER.

F

WARNING

SRS AIRBAG

- BEFORE MOUNTING STEERING WHEEL;
- MAKE SURE THAT THE FRONT WHEELS ARE IN STRAIGHT-AHEAD POSITION.
 - ALIGN THE ARROW WITH THE YELLOW MARK ON THE SIDE GEAR. (SPIRAL CABLE)
 - READ SERVICE MANUAL.

GI

MA

EM

LC

EF &
EC

FE

AT

PD

FA

RA

BR

ST

BF

HA

EL

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Caution Labels (Cont'd)

G

WARNING

SRS AIRBAG

- THIS AIRBAG MODULE CANNOT BE REPAIRED.
- USE DIAGNOSTIC INSTRUCTIONS TO DETERMINE IF THE UNIT IS OPERATIONAL.
- IF NOT OPERATIONAL, REPLACE AND DISPOSE OF THE ENTIRE UNIT AS DIRECTED IN THE INSTRUCTIONS.
- UNDER NO CIRCUMSTANCES SHOULD A DIAGNOSIS BE PERFORMED USING ELECTRICALLY POWERED TEST EQUIPMENT OR PROBING DEVICES.
- TAMPERING OR MISHANDLING CAN RESULT IN PERSONAL INJURY.
- STORE THE REMOVED AIRBAG MODULE WITH THE PAD SURFACE UP.
- FOR SPECIAL HANDLING OR STORAGE REFER TO SERVICE MANUAL.

I

CAUTION SRS AIRBAG

- NO SERVICEABLE PARTS INSIDE.
- DO NOT DISASSEMBLE OR TAMPER.
- DO NOT DROP; KEEP DRY.
- WHILE REMOVED, STORE IN A CLEAN AND DRY AREA.
- IF WET CONDITION OCCURS, THIS UNIT MUST BE SERVICED.

J

CAUTION SRS AIRBAG

- TO AVOID DAMAGING THE S.R.S. SPIRAL CABLE, REMOVE THE STEERING WHEEL BEFORE REMOVING THE STEERING LOWER JOINT.

H

DANGER POISON

- KEEP OUT OF REACH OF CHILDREN.
- CONTAINS SODIUM AZIDE AND POTASSIUM NITRATE.
- CONTENTS ARE POISONOUS AND EXTREMELY FLAMMABLE.
- CONTACT WITH ACID WATER, OR HEAVY METALS MAY PRODUCE HARMFUL AND IRRITATING GASES OR EXPLOSIVE COMPOUNDS.
- DO NOT DISMANTLE, INCINERATE, BRING INTO CONTACT WITH ELECTRICITY, OR STORE AT TEMPERATURES EXCEEDING 200°F.
- FIRST AID: IF CONTENTS ARE SWALLOWED, INDUCE VOMITING;
 - FOR EYE CONTACT, FLUSH EYES WITH WATER FOR 15 MINUTES
 - IF GASES FROM ACID OR WATER CONTACT ARE INHALED, SEEK FRESH AIR;
 - IN EVERY CASE, GET PROMPT MEDICAL ATTENTION
- FOR ADDITIONAL INFORMATION, SEE MATERIAL SAFETY DATA SHEET (MSDS) FOR THIS PRODUCT.

K

WARNING

SRS AIRBAG

- DO NOT DISASSEMBLE OR TAMPER.
- DISMANTLING AND INSTALLATION SHOULD ONLY BE PERFORMED BY TRAINED PERSONNEL.

L

WARNING

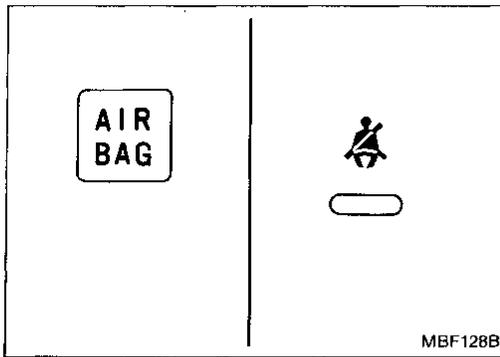
SRS AIRBAG

- THIS AIRBAG MODULE CANNOT BE REPAIRED. SEE SERVICE MANUAL FOR INSTRUCTIONS (ON DIAGNOSIS AND REPLACEMENT).
- DO NOT DIAGNOSE USING ELECTRICALLY POWERED TEST EQUIPMENT OR PROBING DEVICES.
- TAMPERING OR MISHANDLING CAN RESULT IN PERSONAL INJURY.
- STORE THE REMOVED AIRBAG MODULE WITH THE PAD OR COVER SURFACE UP. (REFER TO SERVICE MANUAL FOR SPECIAL HANDLING OR STORAGE.)

M

DANGER

- DO NOT REMOVE, IMPACT OR DISASSEMBLE.



Maintenance Items

1. Check "AIR BAG" and "Seat belt" warning lamps
When the ignition key is in the "ON" or "START" position, the "AIR BAG" and "Seat belt" (when fastening seat belt) warning lamps will illuminate for about 7 seconds and then turn off. This means that the systems are operational. When a warning lamp flashes, check and correct cause of the problem.
 - GI
 - MA
2. Visually check SRS components
 - (1) Sensors
 - Check sensors to ensure the arrow marks face the front of the vehicle.
 - EM
 - LC
 - EF & EC
 - Check body and sensor brackets for deformities or rust.
 - Check sensor case for dents, cracks, deformities or rust.
 - Check sensor harness for binds, connector for damage, and terminals for deformities.
 - (2) Control unit — Airbag
 - Check case and bracket for dents, cracks or deformities.
 - Check connectors for damage, and terminals for deformities.
 - FE
 - (3) Main harness
 - Check connectors for poor connections.
 - Check harnesses for binds, connectors for damage, and terminals deformities.
 - AT
 - (4) Spiral cable
 - Visually check lock (engagement) pins and combination switch for damage.
 - PD
 - Check connectors, flat cable and protective tape for damage.
 - FA
 - Check steering wheel for noise, binds or difficult operation.
 - (5) Steering wheel
 - Check harness (built into steering wheel) and connectors for damage, and terminals for deformities.
 - RA
 - Install air bag module to check fit or alignment with steering wheel.
 - BR
 - Check steering wheel for excessive free play.
 - (6) Air bag module — Driver and passenger side
 - Check harness cover and connectors for damage, terminals for deformities, and harness for binds.
 - ST
 - Install air bag module to steering wheel to check fit or alignment with the wheel.
 - BF

CAUTION:

Replace previously used screws with new ones.

HA

EL

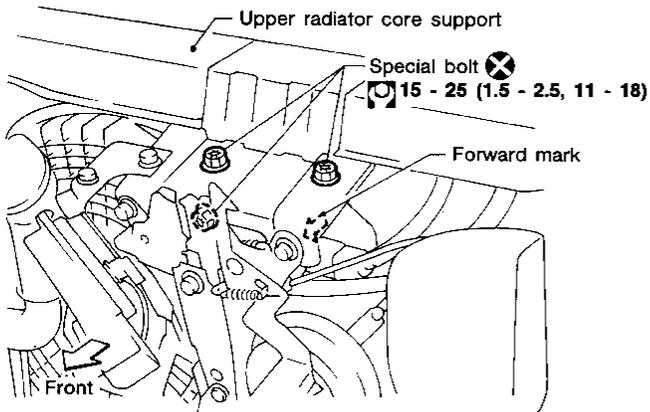
SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Removal and Installation — Control Unit, Sensors and Seat Belt Pre-tensioner

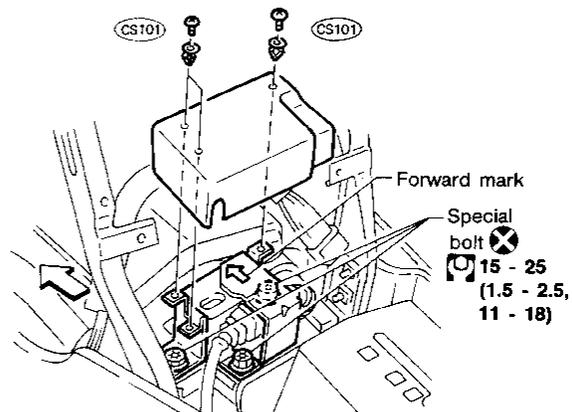
CAUTION:

- Before servicing SRS, turn the ignition switch off, disconnect battery ground cable and wait for at least 10 minutes.
- Do not attempt to disassemble seat belt pre-tensioner.
- Do not drop or impact seat belt pre-tensioner. If any portion is damaged, replace the seat belt pre-tensioner.
- Do not expose seat belt pre-tensioner to temperatures exceeding 80°C (176°F).
- Whenever seat belts (equipped with pre-tensioner) are moved, ensure that cylinder faces down. Do not hold cylinder.
- The special bolts are coated with bonding agent. Discard old ones after removal; replace with new ones.
- Check all sensors for proper installation.
- Check all sensors to ensure they are free of deformities, dents, cracks or rust. If they show any visible signs of damage, replace them with new ones.
- Check sensor brackets to ensure they are free of deformities or rust.

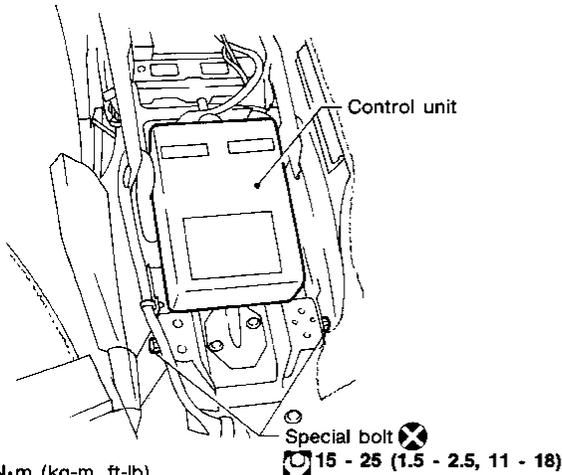
Crash zone sensor



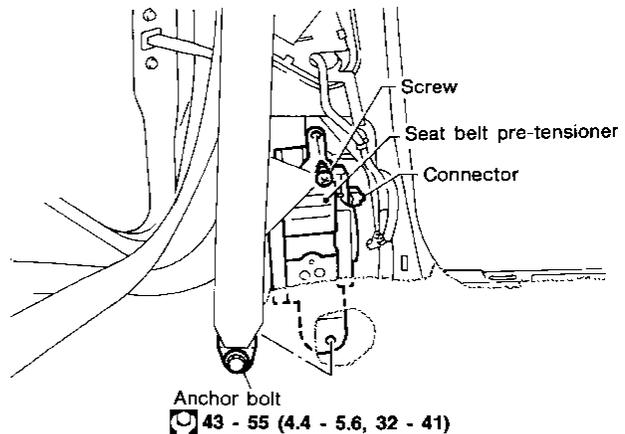
Tunnel and safing sensor



Control unit



Seat belt pre-tensioner



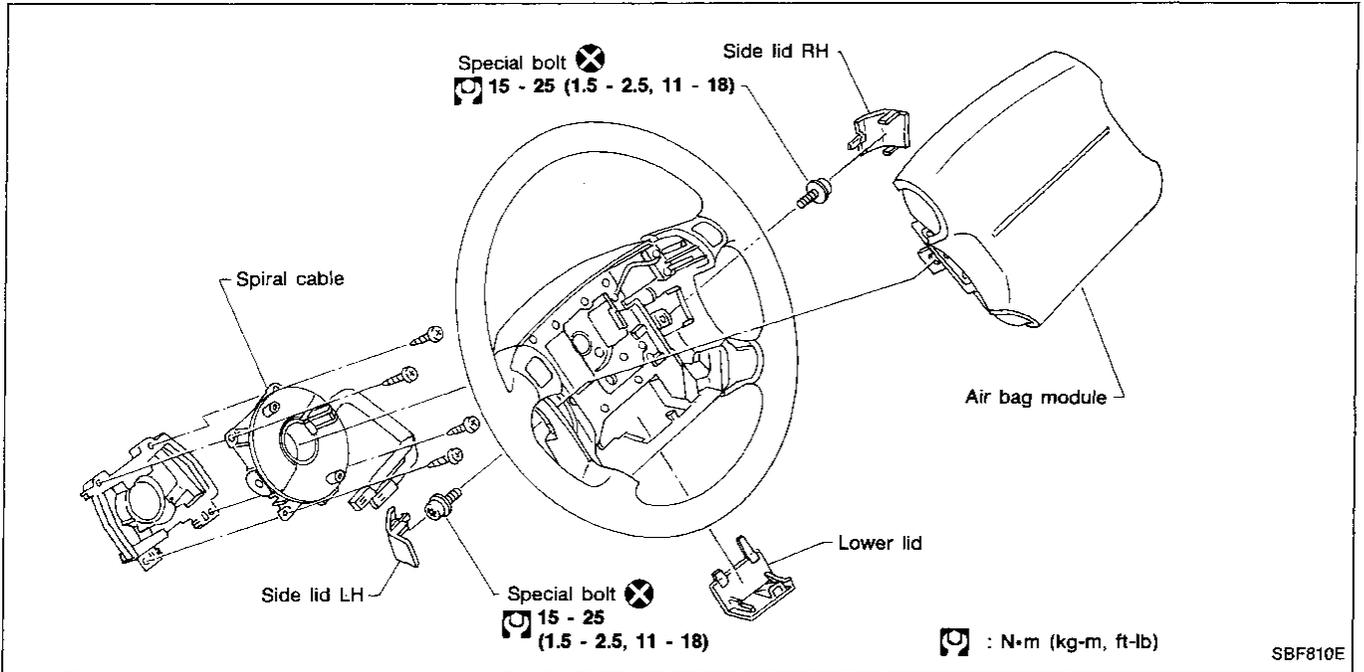
: N·m (kg-m, ft-lb)

Special bolt  15 - 25 (1.5 - 2.5, 11 - 18)

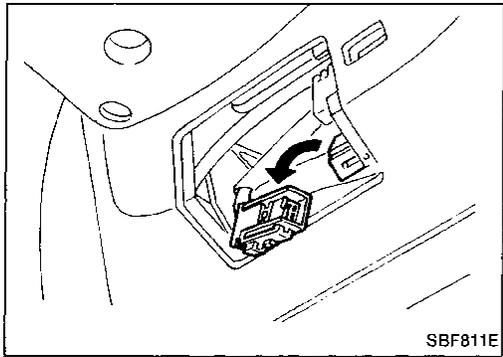
Anchor bolt  43 - 55 (4.4 - 5.6, 32 - 41)

MBF129B

Removal — Air Bag Module and Spiral Cable



GI
MA
EM
LC
EF &
EC
FE
AT

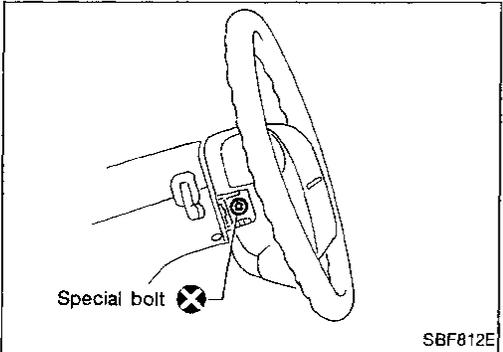


CAUTION:

Before servicing SRS, turn the ignition switch off, disconnect battery ground cable and wait for at least 10 minutes.

1. Remove lower lid from steering wheel, and disconnect air bag module connector.

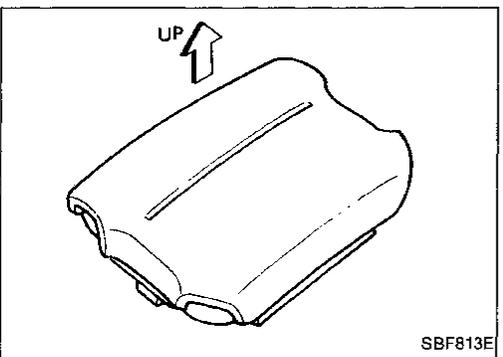
PD
FA



2. Remove side lid. Using the T50H torx bit, remove left and right special bolts. Air bag module can then be removed.

RA
BR
ST

BF



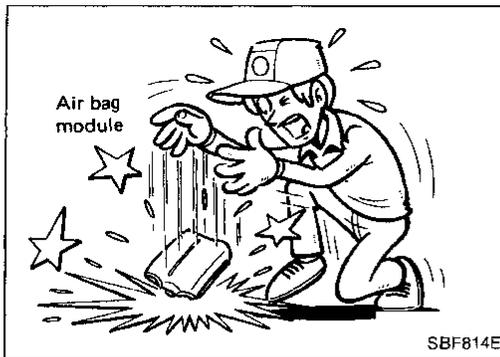
CAUTION:

- Always place air bag module with pad side facing upward.
- Do not attempt to disassemble air bag module.
- The special bolts are coated with bonding agent. Discard old ones after removal; replace with new ones.

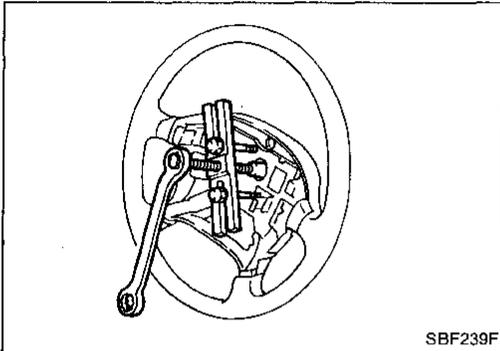
HA
EL

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

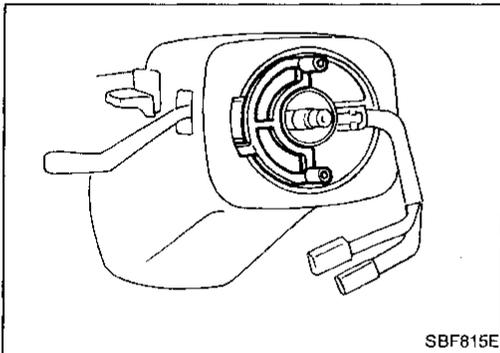
Removal — Air Bag Module and Spiral Cable (Cont'd)



- Do not drop or impact air bag module. If any portion is deformed or cracked, replace the module.
- Do not expose the air bag module to temperatures exceeding 100°C (212°F).
- Do not allow oil, grease or water to come in contact with the air bag module.



3. Set steering wheel in the neutral position.
4. Disconnect horn connector and remove nuts.
5. Using steering wheel puller, remove steering wheel. Be careful not to over-tighten puller bolt on steering wheel.

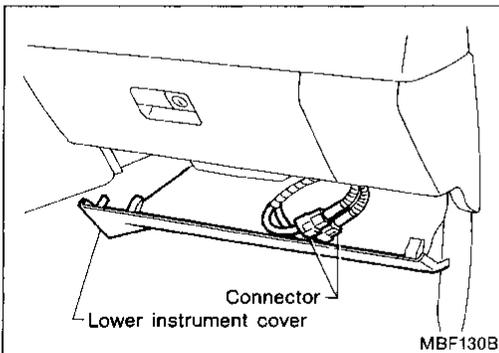


6. Attach spiral cable to stopper.
7. Remove steering column cover.
8. Disconnect connector and remove the four screws. The spiral cable can then be removed.

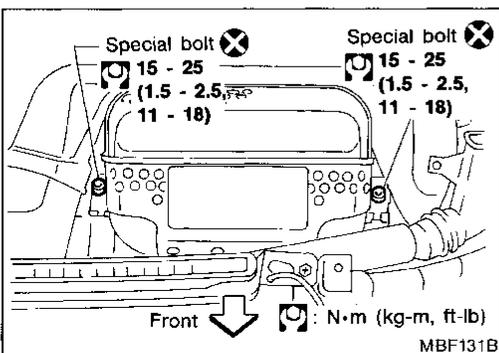
Removal — Front Passenger Air Bag Module

CAUTION:

Before servicing SRS, turn the ignition switch off, disconnect battery ground cable and wait for at least 10 minutes.



1. Remove glove box and glove box inner cover.
2. Remove connector bracket from air bag module and disconnect inflator connector from body harness air bag connector.



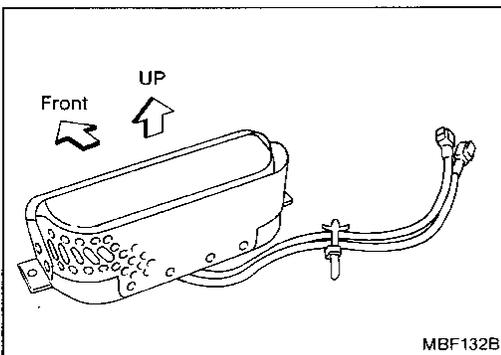
3. Remove instrument panel.
 4. Remove the special bolt from left and right sides of front passenger air bag module and remove the air bag module from the steering member.
- Air bag module is heavy and should be supported using both hands during removal.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

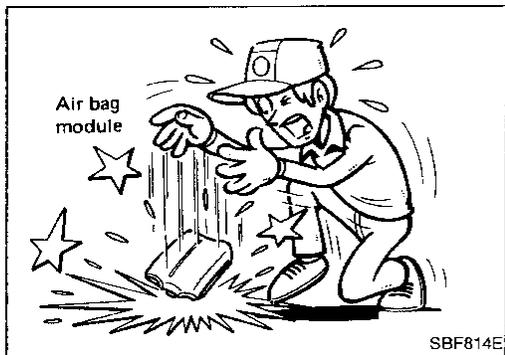
Removal — Front Passenger Air Bag Module (Cont'd)

CAUTION:

- Always place air bag module with pad side facing upward.
- Do not attempt to disassemble air bag module.
- The special bolts are coated with bonding agent. Discard old ones after removal; replace with new ones.



MBF132B

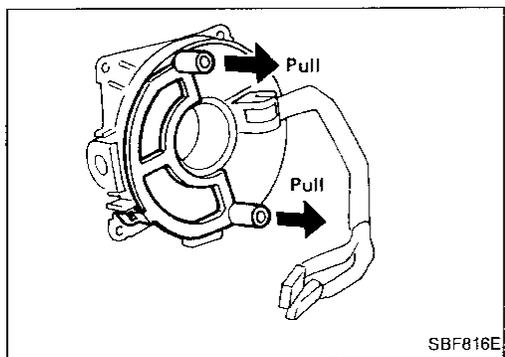


SBF814E

- Do not drop or impact air bag module. If any portion is deformed or cracked, replace the module.
- Do not expose the air bag module to temperatures exceeding 100°C (212°F).
- Do not allow oil, grease or water to come in contact with the air bag module.

Installation — Air Bag Module and Spiral Cable

1. Connect spiral cable connector and tighten with screws. Install steering column cover.

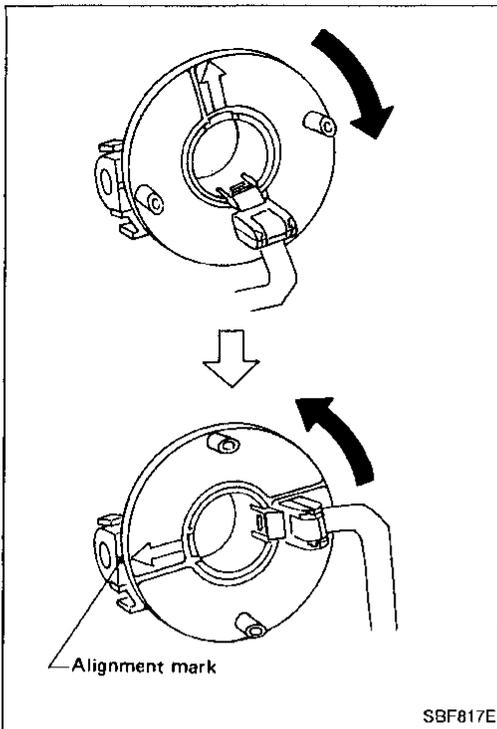


SBF816E

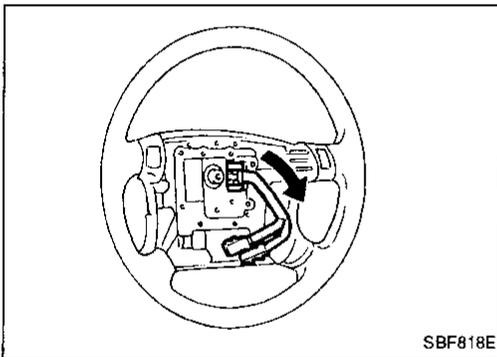
2. Remove stopper by pulling two pin guides.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

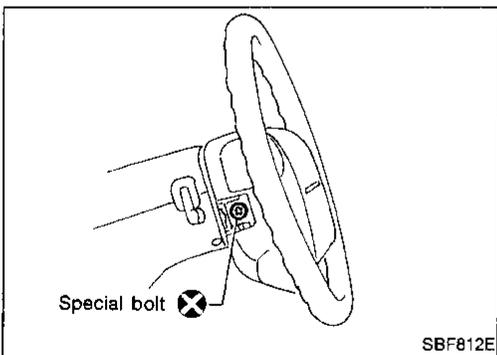
Installation — Air Bag Module and Spiral Cable (Cont'd)



- Alignment of spiral cable with neutral position
If stopper is not used, align spiral cable with neutral position as follows:
Turn spiral cable clockwise until it catches stopper. Then, back spiral cable off approximately two turns until yellow alignment mark appears on left gear. Align arrow mark "↔" of spiral cable with this yellow mark.



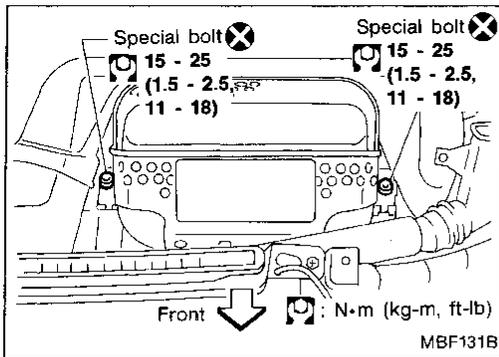
3. Install steering wheel setting spiral cable pin guides, and pull spiral cable through.
4. Connect horn connector and engage spiral cable with pawls in steering wheel.
5. Tighten nuts.



6. Position air bag module and tighten with new special bolts.
7. Connect air bag module connector.
8. Install all lids.

9. Conduct self-diagnosis to ensure entire SRS operates properly. (Use CONSULT or warning lamp check.)

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)



Installation — Front Passenger Air Bag Module

1. Install front passenger air bag module on steering member.
 - Ensure harness is not caught between rear of air bag module and steering member.
2. Install instrument panel.

GI

MA

EM

LC

EF &
EC

FE

AT

PD

FA

RA

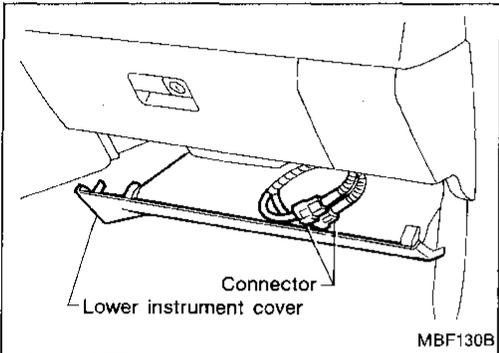
BR

ST

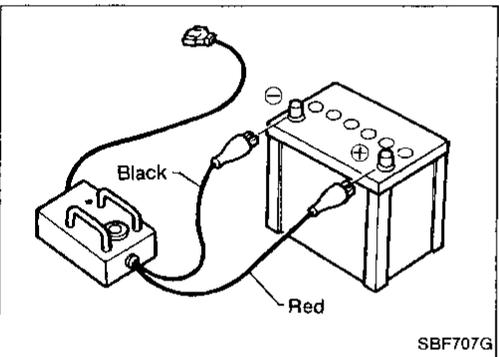
BF

HA

EL



3. Connect air bag module connector to body harness connector.
4. Install air bag module connector on connector bracket.
5. Install connector bracket on air bag module, then install glove box inner cover and glove box.



Scraping Air Bag and Seat Belt Pre-tensioners

Before scraping air bag modules, seat belt pre-tensioners or a vehicle equipped with an SRS system, be sure to deactivate the units or the system.

CONNECTING TO BATTERY

- Place the vehicle outdoors in such a way that it is surrounded on all sides by at least 6 m (20 ft) of open space.
- Use a voltmeter to make sure the vehicle battery is fully charged.

CAUTION:

The battery must show voltage of 9.6V or more.

Remove the battery from the vehicle and place it on dry wood blocks approximately 5 m (16 ft) away from the vehicle.

- Wait 10 to 12 minutes after the vehicle battery is disconnected before proceeding.
- Connect deployment tool to the battery.

CAUTION:

Make sure the polarity is correct. The right side lamp in the tool, marked "deployment tool power", should glow with a green light. If the right side lamp glows red, reverse the connections to the battery.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Scrapping Air Bag and Seat Belt Pre-tensioners (Cont'd)

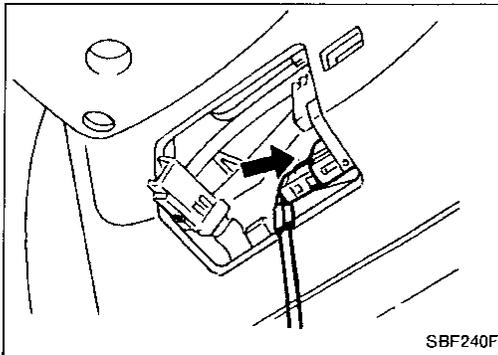
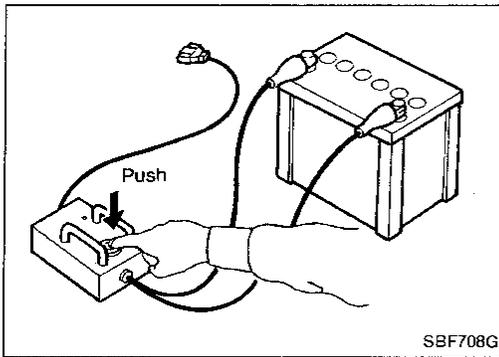
DEPLOYMENT TOOL CHECK

Press the deployment tool switch to the "ON" position. The left side lamp in the tool, marked "air bag connector voltage" should illuminate. If it does not illuminate, replace the tool.

AIR BAG DEPLOYMENT TOOL LAMP ILLUMINATION CHART (Battery connected)

Switch operation	Left side lamp, green* "AIR BAG CONNecTOR VOLTAGE"	Right side lamp, green* "DEPLOYMENT TOOL POWER"
OFF	OFF	ON
ON	ON	ON

*: If this lamp glows red, the tool is connected to the battery incorrectly. Reverse the connections and make sure the lamp glows green.



CONNECTING TO AIR BAG AND SEAT BELT PRE-TENSIONER

- Disconnect the prepared battery cable.
- Also disconnect the vehicle battery ground cable and wait 10 minutes.
- Disconnect air bag module and seat belt pre-tensioner connector.
- Connect deployment tool connector to air bag module or seat belt pre-tensioner.

For front passenger air bag and seat belt pre-tensioners, attach the adapters to the tool connector.

CAUTION:

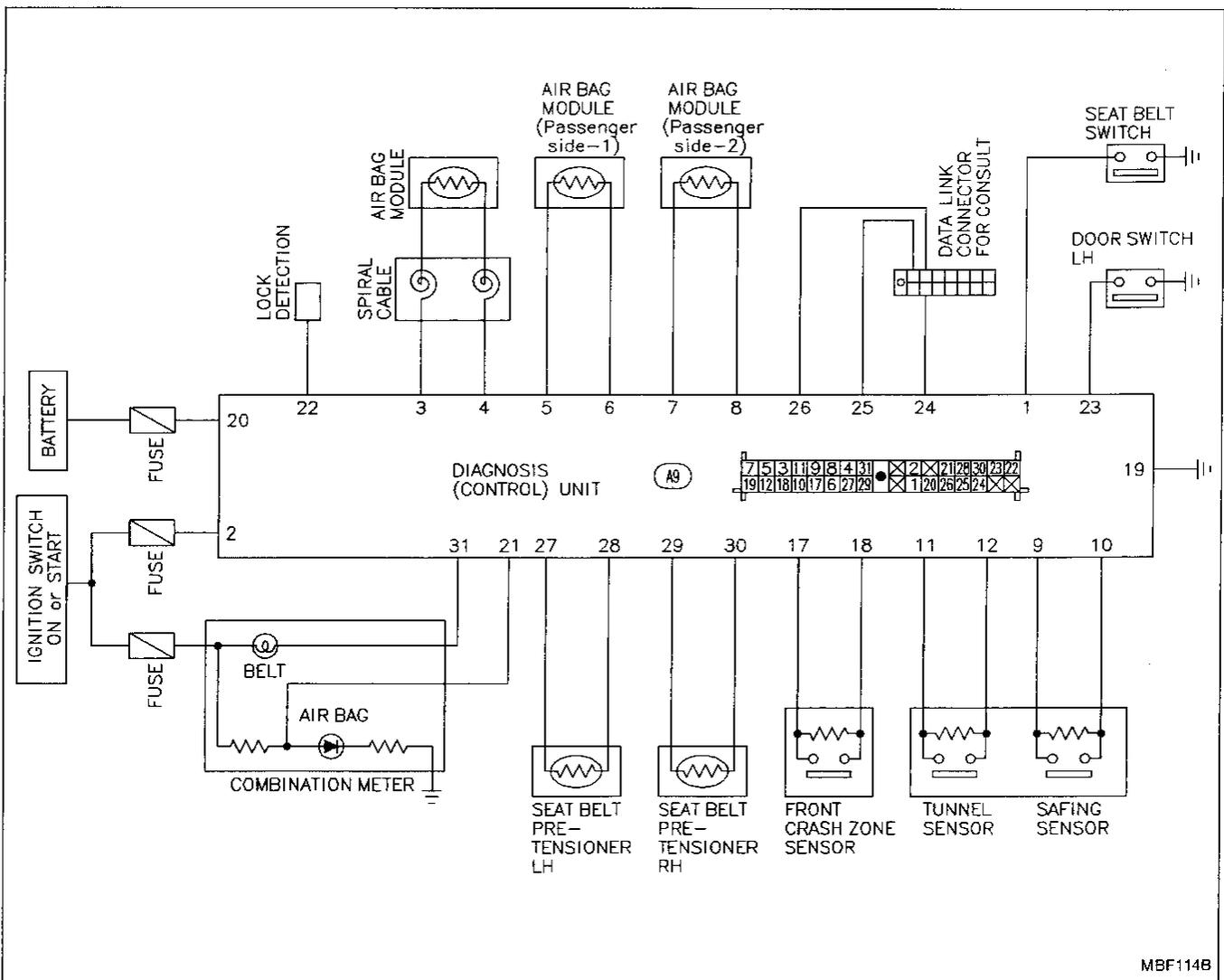
Make sure the deployment tool is disconnected from the battery before you make this connection.

- Reconnect the battery cable to the prepared battery.
- The lamp on the right side of the tool, marked "deployment tool power", should glow green, not red.

Contents

Schematic	BF-56
Wiring Diagram	BF-57
Self-diagnosis	
USING CONSULT	BF-58
USING THE WARNING LAMP	BF-61
Diagnostic Procedure 1	BF-64
SYMPTOM: Warning lamp flashes.	
Diagnostic Procedure 2	BF-64
SYMPTOM: Warning lamp does not come on.	
Diagnostic Procedure 3	BF-65
SYMPTOM: Warning lamp does not go off.	
Collision Diagnosis	BF-66

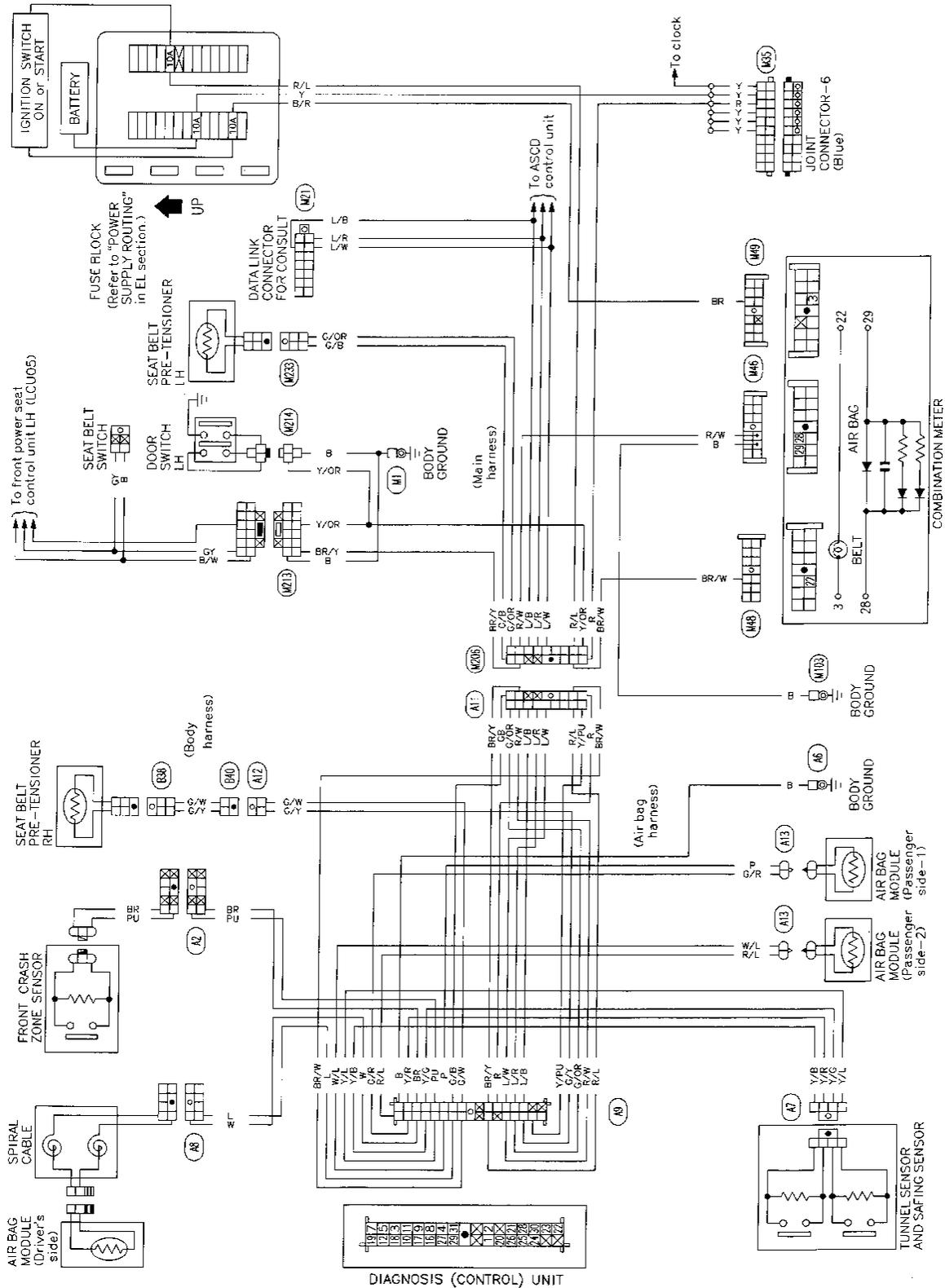
Schematic



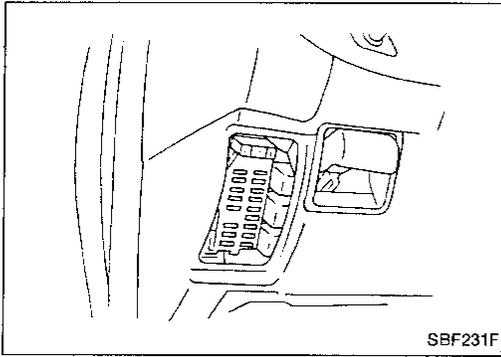
Wiring Diagram

CAUTION:

- Do not use a circuit tester to check SRS "Air Bag" harness connectors. The wiring harness and connectors have yellow outer insulation for easy identification.
- Do not attempt to repair, splice or modify the SRS "Air Bag" wiring harness. If the harness is damaged, replace it with a new one.
- Keep ground portion clean.



GI
MA
EM
LC
EF &
FC
FE
AT
PD
FA
RA
BR
ST
BF
FA
EL

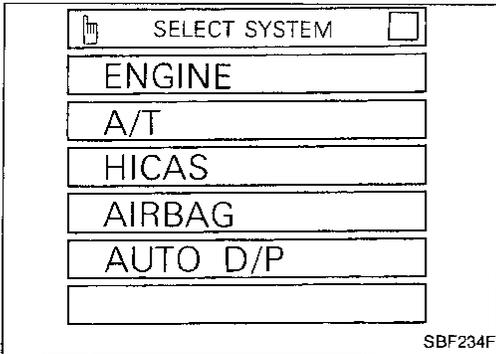


Self-diagnosis

USING CONSULT

The self-diagnosis results can be read by CONSULT, as follows:

1. Connect "CONSULT" to vehicle harness connector.
↓
2. Turn ignition switch to "ON". (When CONSULT is connected, the "AIR BAG" warning lamp will be turned to present diagnosis mode.)
↓
3. Touch "START" to operate "CONSULT".
↓
4. Touch "AIR BAG" to choose air bag system.
↓
5. Touch "SELF DIAG RESULTS" to read self-diagnosis results.
↓
6. Problem codes are displayed on "SELF DIAG RESULT 1" (first page — present mode). The problem code last indicated is displayed on "SELF DIAG RESULT 2" (second page — initial mode).
↓
7. When "PRINT" is pressed, information displayed on "SELF DIAG RESULTS 1 and 2" is printed out.
↓
8. After repairing malfunctioning parts, press "ERASE" to clear self-diagnosis results.
 - **After repairing malfunctioning parts, attempt to clear self-diagnosis results from memory.**
 - **If malfunctioning parts are not completely repaired, self-diagnosis results remain stored in memory.**
↓
9. Push Back Key of CONSULT until SELECT SYSTEM mode appears to make "SELF-DIAGNOSIS" user mode.
↓
10. Push the power off switch.
↓
11. Turn off ignition switch.



TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

Self-diagnosis (Cont'd)

Self-diagnosis results

Failure parts group [Present] and [Initial]	Explanation	Repair order * Recheck SRS at each replacement.	
NO SELF DIAGNOSTIC FAILURE INDICATED.	Normal. The SRS system is in good order.	—	GI
SAFING SENSOR [OPEN/UPR-VB-SHORT]	The circuit for the safing sensor is open or the wire from the control unit (terminal No. 9) to the safing sensor is shorted to some power supply circuit.	<ol style="list-style-type: none"> 1. Visually check the wiring harness connections. 2. Replace the safing sensor. (safing sensor and tunnel sensor unit) 3. Replace the control unit. 4. Replace the main harness. 	MA
SAFING SENSOR [SHORT/UPR-GND-SHORT]	Both the wires for the safing sensor are shorted or the wire from the control unit (terminal No. 9) to the safing sensor is shorted to ground.		EM
AIRBAG MODULE [OPEN]	The circuit for driver's air bag module is open. (including the spiral cable)	<ol style="list-style-type: none"> 1. Visually check the wiring harness connections. 2. Replace the spiral cable. 3. Replace driver's air bag module. (Before disposing of it, it must be deployed.) 4. Replace the control unit. 5. Replace the main harness. 	LC
AIRBAG MODULE [VB-SHORT]	The circuit for driver's air bag module is shorted to some power supply circuit. (including the spiral cable)		EF & EC
AIRBAG MODULE [GND-SHORT]	The circuit for driver's air bag module is shorted to ground. (including the spiral cable)		FE
AIRBAG MODULE [SHORT]	The circuits for driver's air bag module are shorted to each other.		AT
ASSIST A/B MODULE 1 [OPEN]	The circuit for front passenger air bag module 1 is open.		PD
ASSIST A/B MODULE 1 [VB-SHORT]	The circuit for front passenger air bag module 1 is shorted to some power supply circuit.	<ol style="list-style-type: none"> 1. Visually check the wiring harness connections. 2. Replace front passenger air bag module. (Before disposing of it, it must be deployed.) 3. Replace the control unit. 4. Replace the main harness. 	FA
ASSIST A/B MODULE 1 [GND-SHORT]	The circuit for front passenger air bag module 1 is shorted to ground.		RA
ASSIST A/B MODULE 1 [SHORT]	The circuits for front passenger air bag module 1 are shorted to each other.		BR
ASSIST A/B MODULE 2 [OPEN]	The circuit for front passenger air bag module 2 is open.	<ol style="list-style-type: none"> 1. Visually check the wiring harness connections. 2. Replace front passenger air bag module. (Before disposing of it, it must be deployed.) 3. Replace the control unit. 4. Replace the main harness. 	ST
ASSIST A/B MODULE 2 [VB-SHORT]	The circuit for front passenger air bag module 2 is shorted to some power supply circuit.		BF
ASSIST A/B MODULE 2 [GND-SHORT]	The circuit for front passenger air bag module 2 is shorted to ground.		HA
ASSIST A/B MODULE 2 [SHORT]	The circuits for front passenger air bag module 2 are shorted to each other.		EL

TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

Self-diagnosis (Cont'd)

Failure parts group [Present] and [Initial]	Explanation	Repair order * Recheck SRS at each replacement.
TUNNEL SENSOR [OPEN/UPR-VB-SHORT]	The circuit for the tunnel sensor is open or the wire from the control unit (terminal No. 11) to the tunnel sensor is shorted to some power supply circuit.	<ol style="list-style-type: none"> 1. Visually check the wiring harness connections. 2. Replace the tunnel sensor. (safing sensor and tunnel sensor unit) 3. Replace the control unit. 4. Replace the main harness.
TUNNEL SENSOR [SHORT/UPR-GND-SHORT]	Both the wires for the tunnel sensor are shorted or the wire from the control unit (terminal No. 11) to the tunnel sensor is shorted to ground.	
CRASH ZONE SEN-CTR [OPEN/UPR-VB-SHORT]	The circuit for the crash zone sensor is open or the wire from the control unit (terminal No. 17) to the crash zone sensor is shorted to some power supply circuit.	<ol style="list-style-type: none"> 1. Visually check the wiring harness connections. 2. Replace the crash zone sensor. 3. Replace the control unit. 4. Replace the main harness.
CRASH ZONE SEN-CTR [SHORT/UPR-GND-SHORT]	Both the wires for the crash zone sensor are shorted or the wire from the control unit (terminal No. 17) to the crash zone sensor is shorted to ground.	
DRIVE PRE-TENSION [OPEN/VB-SHORT]	The circuit for the driver's pre-tensioner is open or shorted to some power supply circuit.	<ol style="list-style-type: none"> 1. Visually check the wiring harness connections. 2. Replace the driver's seat belt. (Before disposing, it must be deactivated.) 3. Replace the control unit. 4. Replace the main harness.
DRIVE PRE-TENSION [GND-SHORT]	The circuit for the driver's pre-tensioner is shorted to ground.	
ASSIST PRE-TENSION [OPEN/VB-SHORT]	The circuit for the front passenger pre-tensioner is open or shorted to some power supply circuit.	<ol style="list-style-type: none"> 1. Visually check the wiring harness connections. 2. Replace the front passenger seat belt. (Before disposing, it must be deactivated.) 3. Replace the control unit. 4. Replace the main harness.
ASSIST PRE-TENSION [GND-SHORT]	The circuit for the front passenger pre-tensioner is shorted to ground.	
CONTROL UNIT	The control unit (diagnostic unit) is out of order.	<ol style="list-style-type: none"> 1. Visually check the wiring harness connections. 2. Replace the control unit. 3. Replace the main harness.
INDEFINITE FAILURES [AIR BAG]	A problem which cannot be specified occurs because more than two parts except seat belt pre-tensioners are out of order.	<ol style="list-style-type: none"> 1. Visually check the wiring harness connections. 2. Replace the control unit. 3. Replace all sensors, spiral cable and air bag modules and seat belts. 4. Replace the main harness.
INDEFINITE FAILURES [PRE-TENSIONER]	Driver's and front passenger seat belt pre-tensioners are out of order.	<ol style="list-style-type: none"> 1. Visually check the wiring harness connections. 2. Replace the driver's and front passenger seat belts. (Before disposing, they must be deactivated.) 3. Replace the control unit. 4. Replace the main harness.

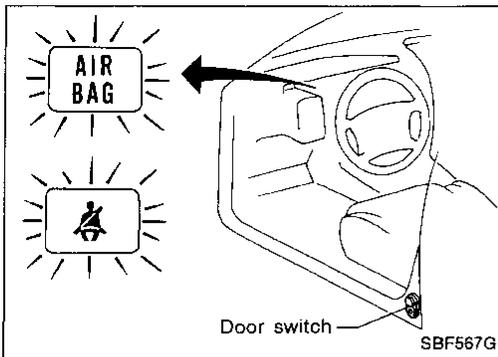
TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

Self-diagnosis (Cont'd)

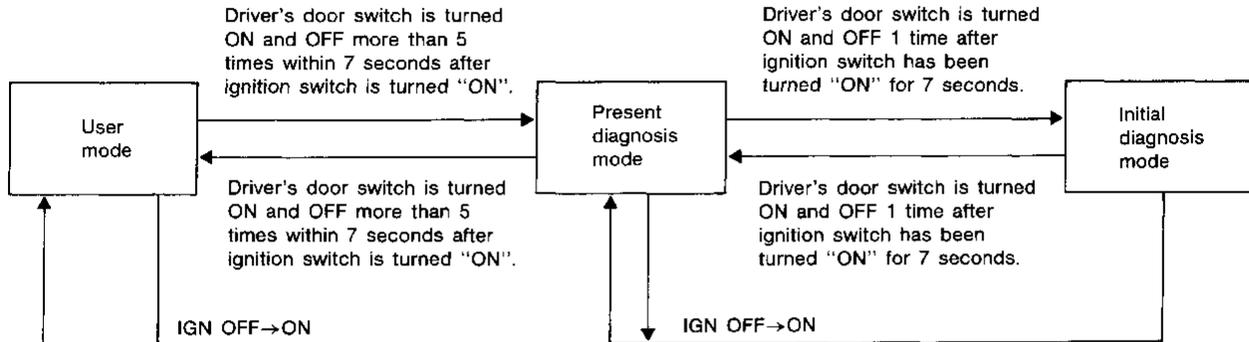
USING THE WARNING LAMP

Self-diagnosis results can be also read by using the "AIR BAG" warning lamp for SRS system except seat belt pre-tensioner. When "Seat belt" warning lamp flashes (when fastening seat belt), check seat belt pre-tensioner system.

The "Air bag" warning lamp operates as shown below:



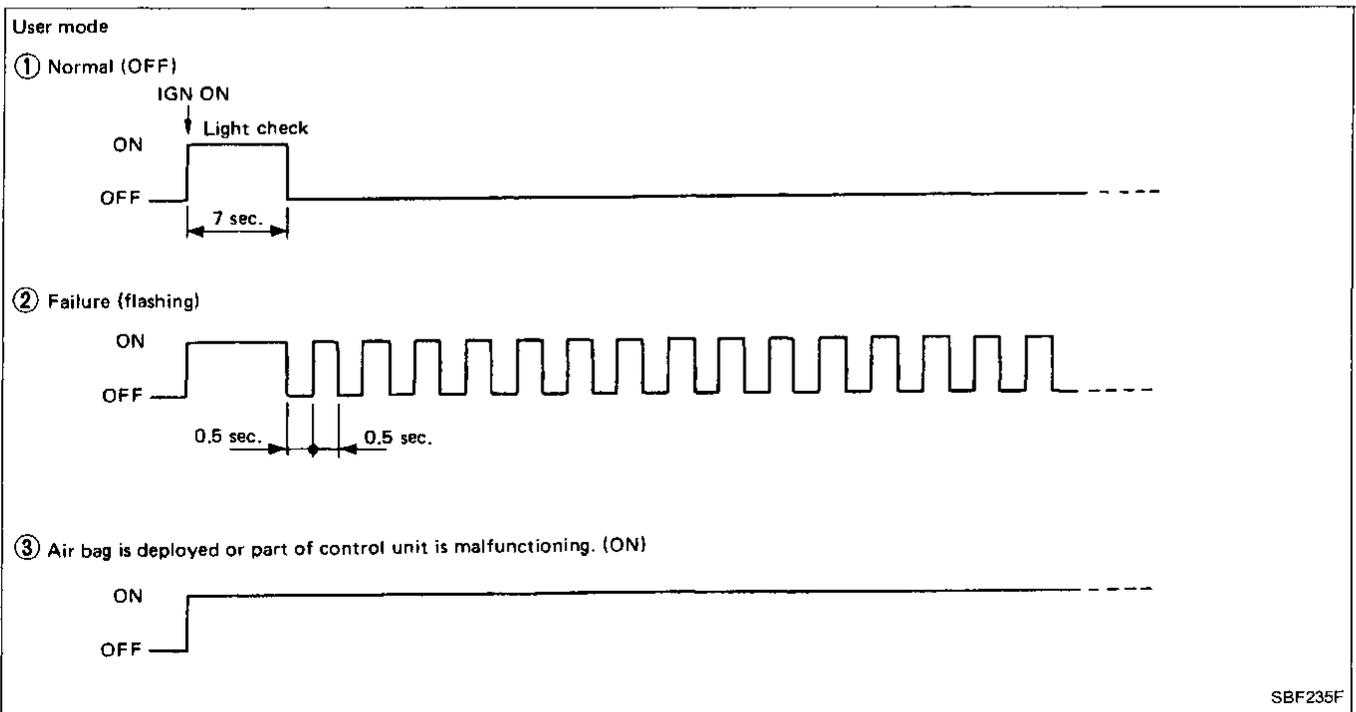
How to alternate self-diagnosis



Problem codes are displayed in present diagnosis mode (self-diagnosis result 1). The problem code last indicated is displayed in initial diagnosis mode (self-diagnosis result 2).

After the malfunctioning parts have been repaired and the system is returned to the user mode, the present diagnosis mode information, displayed as self-diagnosis results, is automatically cleared from memory.

- After repairing malfunctioning part, attempt to clear self-diagnosis results from memory.
- If a malfunctioning part is not completely repaired, information stored in memory will not be cleared.

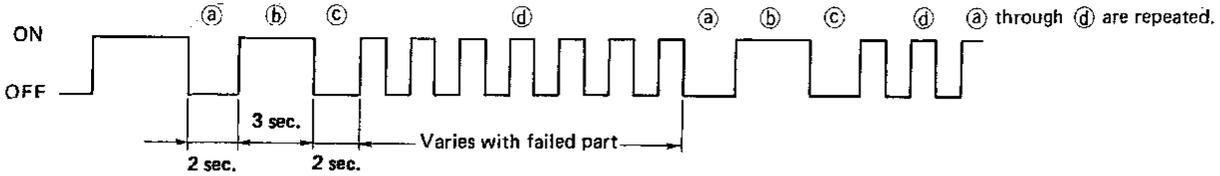


TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

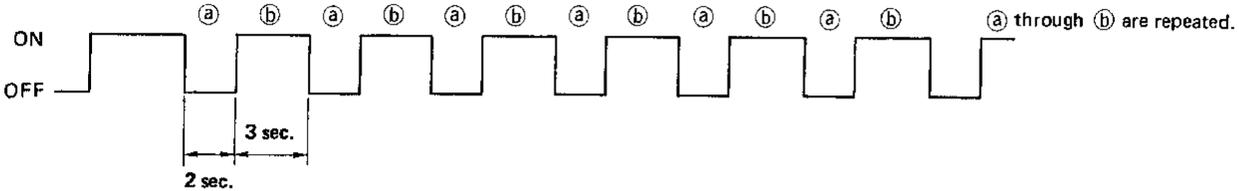
Self-diagnosis (Cont'd)

Present diagnosis mode (self-diagnosis result 1)

(b) Start signal; Start signal identifies display modes.



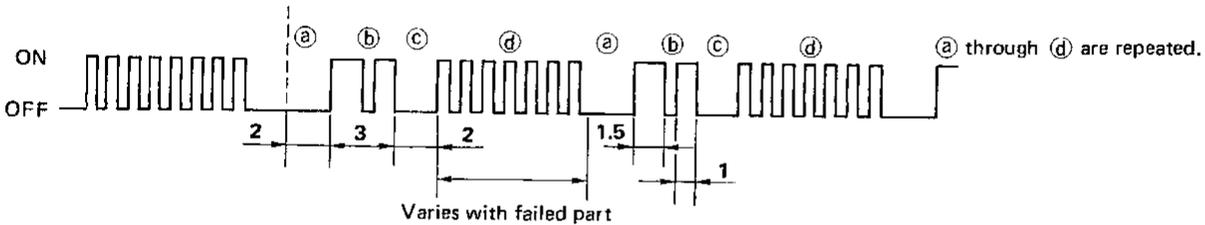
• No failure (or intermittent failure/repair completion)



SBF236F

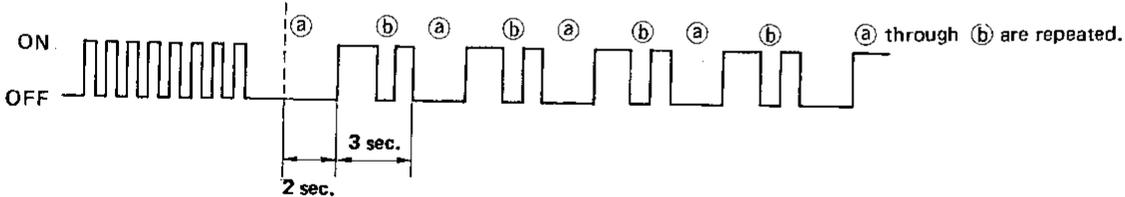
Initial diagnosis mode (self-diagnosis result 2)

(b) Start signal; Start signal identifies display modes.



• No failure

Unit: sec.



SBF237F

Self-diagnosis results in present- and initial-diagnosis modes can be identified by number of flashes (d). Refer to Table on next page for failed parts.

TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

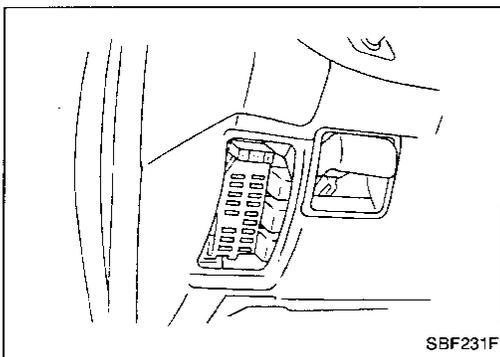
Self-diagnosis (Cont'd)

Warning lamp flashing times and repair

Warning lamp	Flash code ① (# of flashes)	Explanation	Repair order * Recheck SRS at each replacement.	
"AIR BAG" warning lamp	0	Normal. The SRS "Air Bag" is in good order.	—	GI
	1	The circuit for the safing sensor is out of order.	<ol style="list-style-type: none"> 1. Visually check the wiring harness connections. 2. Replace the safing sensor. (safing sensor and tunnel sensor unit) 3. Replace the control unit. 4. Replace the main harness. 	MA EM
	2	The circuit for the driver's air bag module is out of order.	<ol style="list-style-type: none"> 1. Visually check the wiring harness connections. 2. Replace the spiral cable. 3. Replace the driver's air bag module. (Before disposing of it, it must be deployed.) 4. Replace the control unit. 5. Replace the main harness. 	LC EF & EC
	3	The circuit for the tunnel sensor is out of order.	<ol style="list-style-type: none"> 1. Visually check the wiring harness connections. 2. Replace the tunnel sensor. (safing sensor and tunnel sensor unit) 3. Replace the control unit. 4. Replace the main harness. 	FE AT
	6	The circuit for the center crash zone sensor is out of order.	<ol style="list-style-type: none"> 1. Visually check the wiring harness connections. 2. Replace the center crash zone sensor. 3. Replace the control unit. 4. Replace the main harness. 	PD
	7	The control unit (diagnosis unit) is out of order.	<ol style="list-style-type: none"> 1. Visually check the wiring harness connections. 2. Replace the control unit. 3. Replace the main harness. 	FA RA
	8	The circuit for the front passenger air bag module is out of order.	<ol style="list-style-type: none"> 1. Visually check the wiring harness connections. 2. Replace the front passenger air bag module. (Before disposing of it, it must be deployed.) 3. Replace the control unit. 4. Replace the main harness. 	BR
	9	More than two parts groups are out of order.	<ol style="list-style-type: none"> 1. Visually check the wiring harness connections. 2. Replace the control unit. 3. Replace all sensors, spiral cable and air bag module. 4. Replace the main harness. 	ST BF

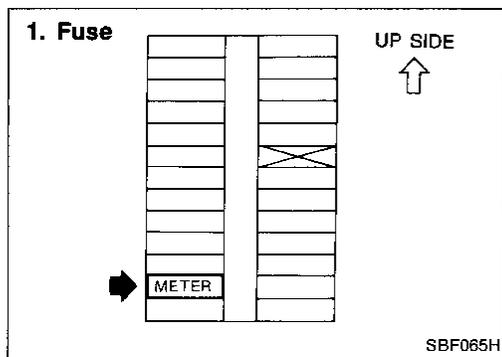
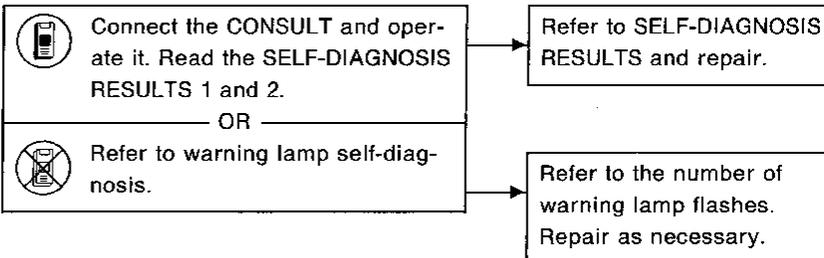
HA

EL



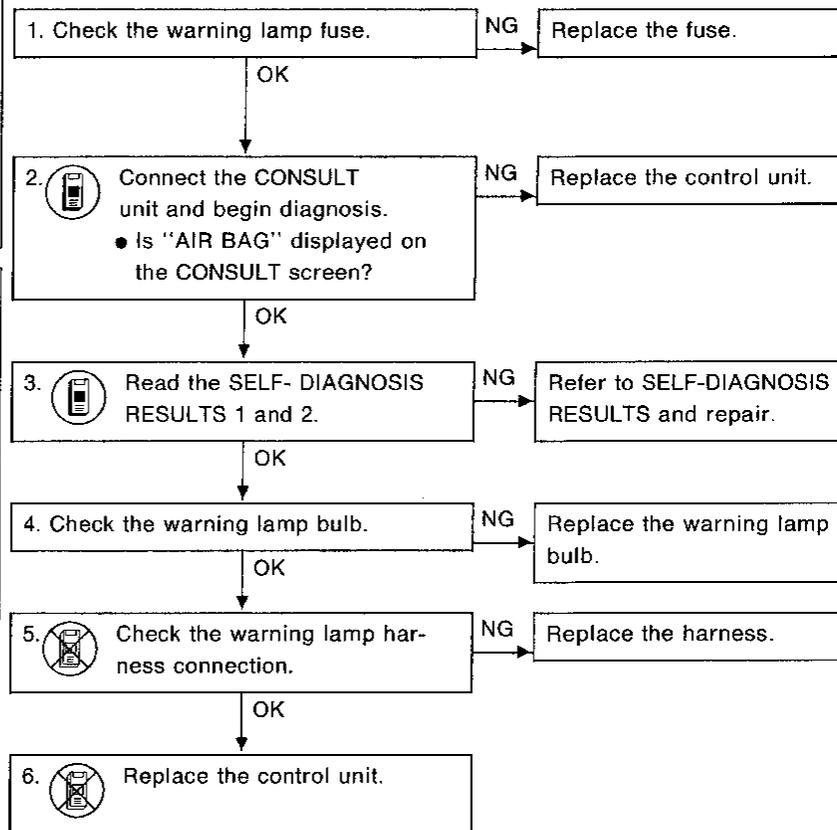
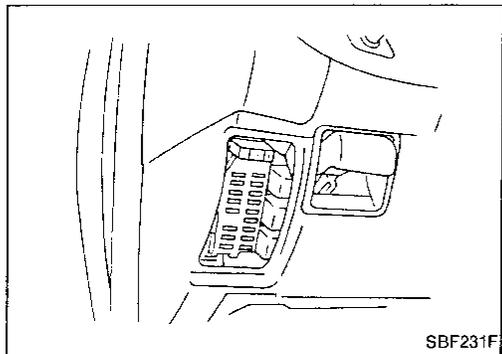
Diagnostic Procedure 1

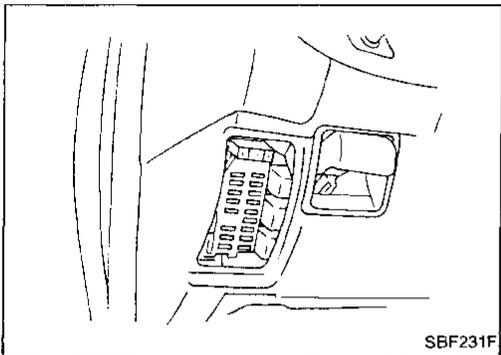
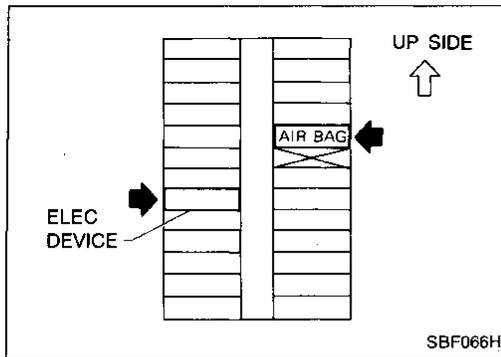
SYMPTOM: Warning lamp flashes.



Diagnostic Procedure 2

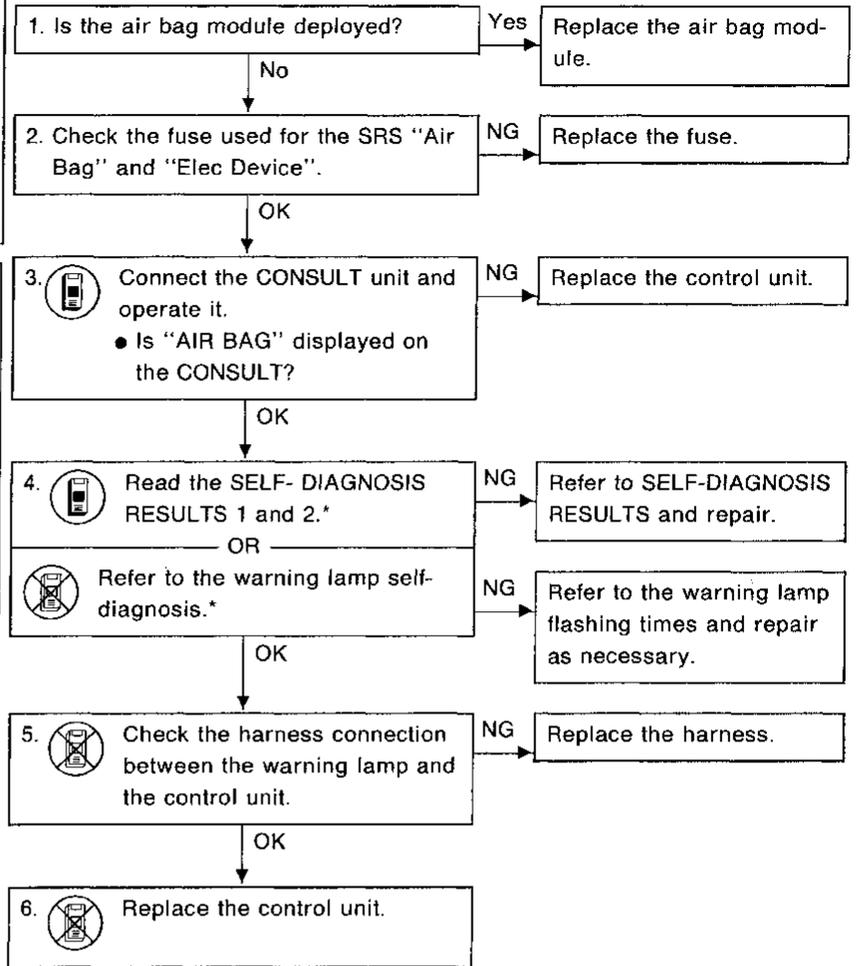
SYMPTOM: Warning lamp does not come on.





Diagnostic Procedure 3

SYMPTOM: Warning lamp does not go off.



* Recheck SRS after each replacement.

GI

MA

EM

LC

EF & EC

FE

AT

PD

FA

RA

BR

ST

BF

HA

EL

Collision Diagnosis

To repair the SRS "AIR BAG", perform the following steps.

When air bag deployed in a collision:

- ① Replace the control unit.
- ② Remove the air bag module.
- ③ Check the SRS components using the table shown below:
 - If the SRS components are showing any visible damage such as dents, cracks, or deformation, replace them with new ones.
- ④ Conduct self-diagnosis using CONSULT or "AIR BAG" warning lamp to ensure entire SRS operates properly except open circuits of air bag module and seat belt pre-tensioners.
- ⑤ Install new air bag module and seat belt pre-tensioners.
- ⑥ Conduct self-diagnosis again.

When air bag did not deploy in a collision:

- ① Check the SRS components using the table shown below:
 - If the SRS components are showing any visible damage such as dents, cracks, or deformation, replace them with new ones.
- ② Conduct self-diagnosis using CONSULT or "AIR BAG" warning lamp to ensure entire SRS operates properly.

SRS inspection

Part	Air bag deployed	Air bag did NOT deploy
Air bag module (driver and passenger side)	REPLACE Install with new bolts.	1. Remove air bag module. Check harness cover and connectors for damage, terminals for deformities, and harness for binding. 2. Install air bag module into the steering wheel to check fit and alignment with the wheel. 3. No damage found, reinstall with new bolts. 4. If damaged—REPLACE. Air bag must be deployed before discarding.
Instrument panel	REPLACE Install with new bolts.	1. Check instrument panel for bending, deformities, or cracks. 2. If no damage is found, reinstall with new bolts. 3. If damaged—REPLACE.
Seat belt pre-tensioner assembly	REPLACE Install with new bolts.	1. Remove seat belt pre-tensioners. Check harness cover and connectors for damage, terminals for deformities, and harness for binding. 2. Check belts for damage and anchors for loose mounting. 3. Check retractor for smooth operation. 4. If no damage is found, reinstall with new bolts. 5. If damaged—REPLACE.
Control unit	REPLACE Install with new bolts.	1. Check case and bracket for dents, cracks or deformities. 2. Check connectors for damage, and terminals for deformities. 3. If no damage is found, reinstall with new bolts. 4. If damaged—REPLACE.
Sensors		1. Check body and sensor brackets for deformities or rust. 2. Check sensor case for dents, cracks, scratches, deformities or rust. 3. Check sensor harness, connector, and terminals for binding, damage, or deformities. 4. If no damage is found, reinstall with new bolts. 5. If damaged—REPLACE.
Steering wheel		1. Check harness (built into steering wheel) and connectors for damage, and terminals for deformities. 2. Install air bag module to check fit or alignment with steering wheel. 3. Check steering wheel for excessive free play. 4. If no damage is found, reinstall with new bolts. 5. If damaged—REPLACE.

TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

Collision Diagnosis (Cont'd)

Part	Air bag deployed	Air bag did NOT deploy
Spiral cable	<ol style="list-style-type: none"> 1. Visually check lock (engagement) pins and combination switch for damage. 2. Check connectors, flat cable and protective tape for damage. 3. Check steering wheel for noise, binding or heavy operation. 4. If no damage is found, reinstall with new bolts. 5. If damaged—REPLACE. 	<p>GI</p>
Harness and Connectors	<ol style="list-style-type: none"> 1. Check connectors for poor connection, damage, and terminals for deformities. 2. Check harness for binding, chafing, cuts, or deformities. 3. If no damage is found, reinstall 4. Damaged—REPLACE damaged section of harness. Do not attempt to repair, splice or modify any SRS harness. 	<p>MA</p> <p>EM</p>

LC

EF &
EC

FE

AT

PD

FA

RA

BR

ST

BF

HA

EL