

DATSUN

Model S110 Series

SECTION **BF**

BODY

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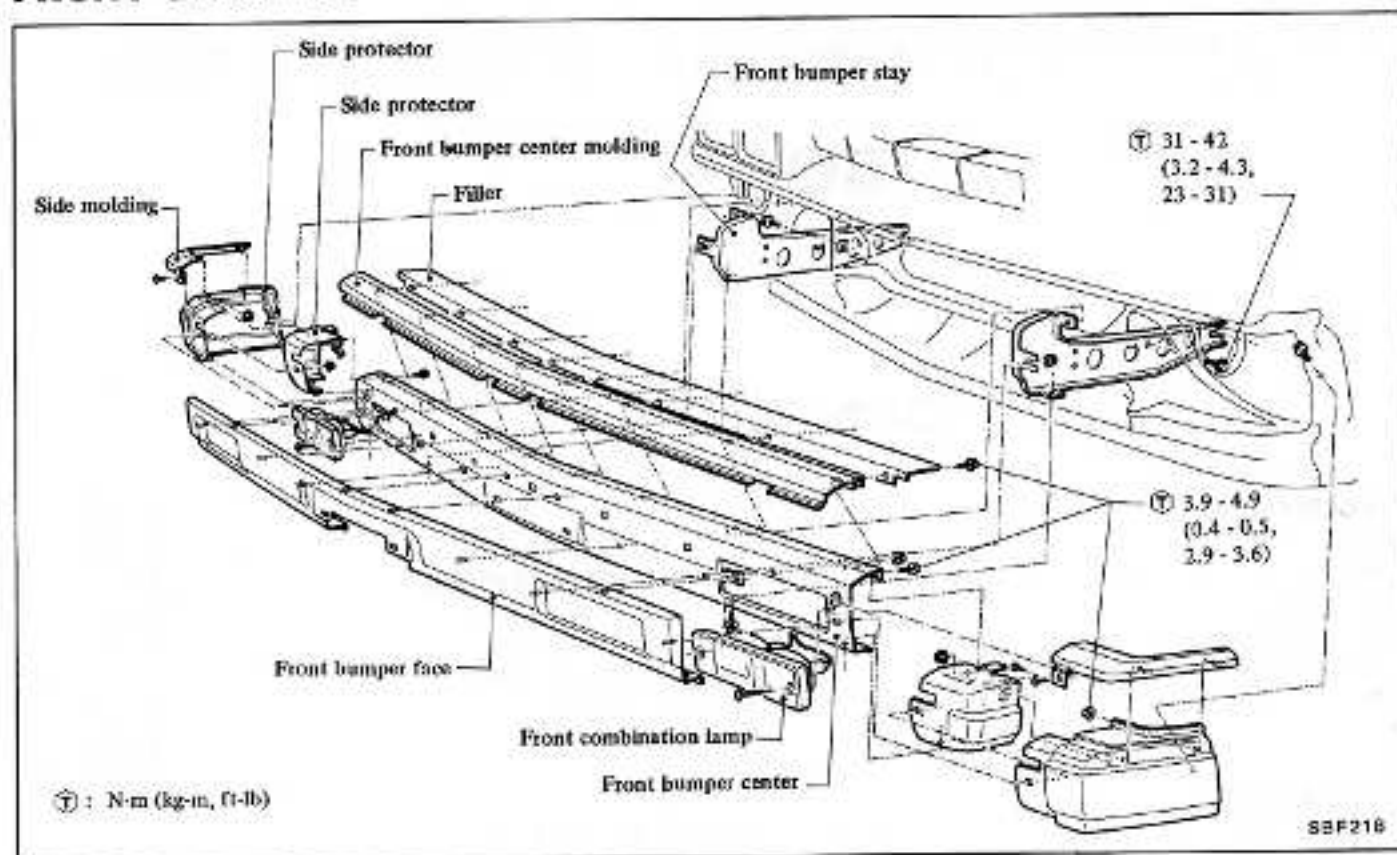
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BF

Z·ONE·DATSUN

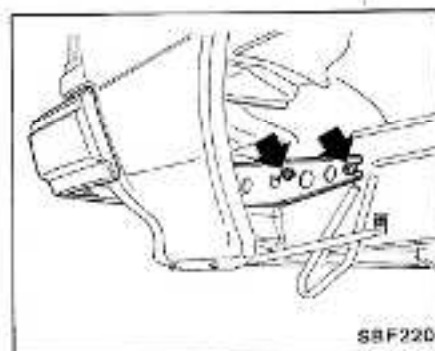
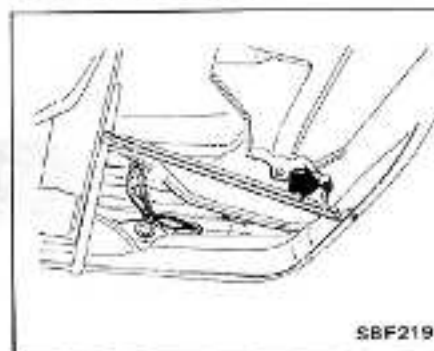
BODY FRONT END

FRONT BUMPER



REMOVAL AND INSTALLATION

1. Disconnect front combination lamp connectors.
2. Remove bolts attaching front side bumper to front fender.

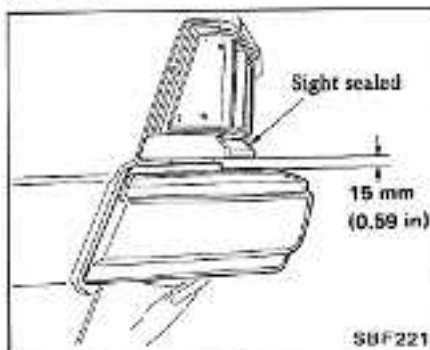


Fender to bumper side attaching bolt

3.9 - 4.9 N·m
(0.4 - 0.5 kg-m,
2.9 - 3.6 ft-lb)

ADJUSTMENT

Install front bumper so that clearance between bumper filler and sight shield at body side is 15 mm (0.59 in).



CAUTION:

Before removing front bumper, be sure to remove bumper side attaching bolts from front fender.

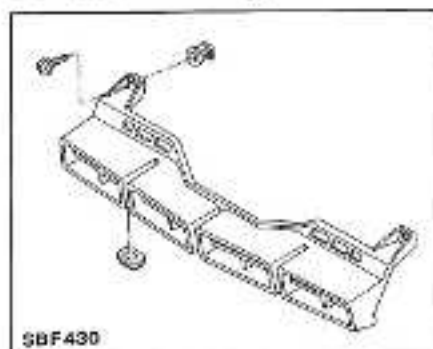
4. Install front bumper in reverse order of removal.

① : Stay to body attaching bolt
31 - 42 N·m
(3.2 - 4.3 kg-m,
23 - 31 ft-lb)

3. Remove front bumper.

RADIATOR GRILLE**REMOVAL AND INSTALLATION**

1. Open engine hood.
2. Remove radiator grille.



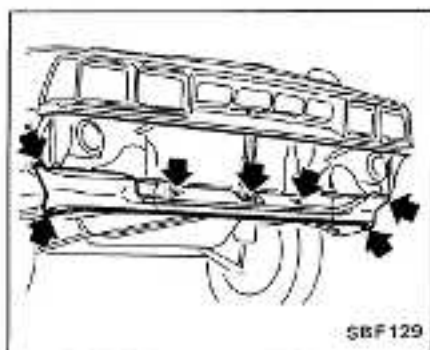
3. Installation is in reverse order of removal.

CAUTION:

- a. Radiator grille is made of plastic, so do not use excessive force.
- b. Take care to keep oil away from radiator grille.

FRONT APRON**REMOVAL AND INSTALLATION**

1. Remove front bumper assembly. Refer to Front Bumper for removal.
2. Remove front apron.

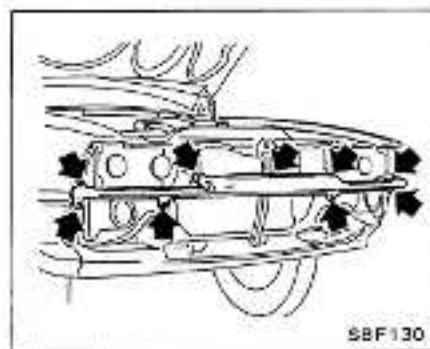


3. Installation is in reverse order of removal.

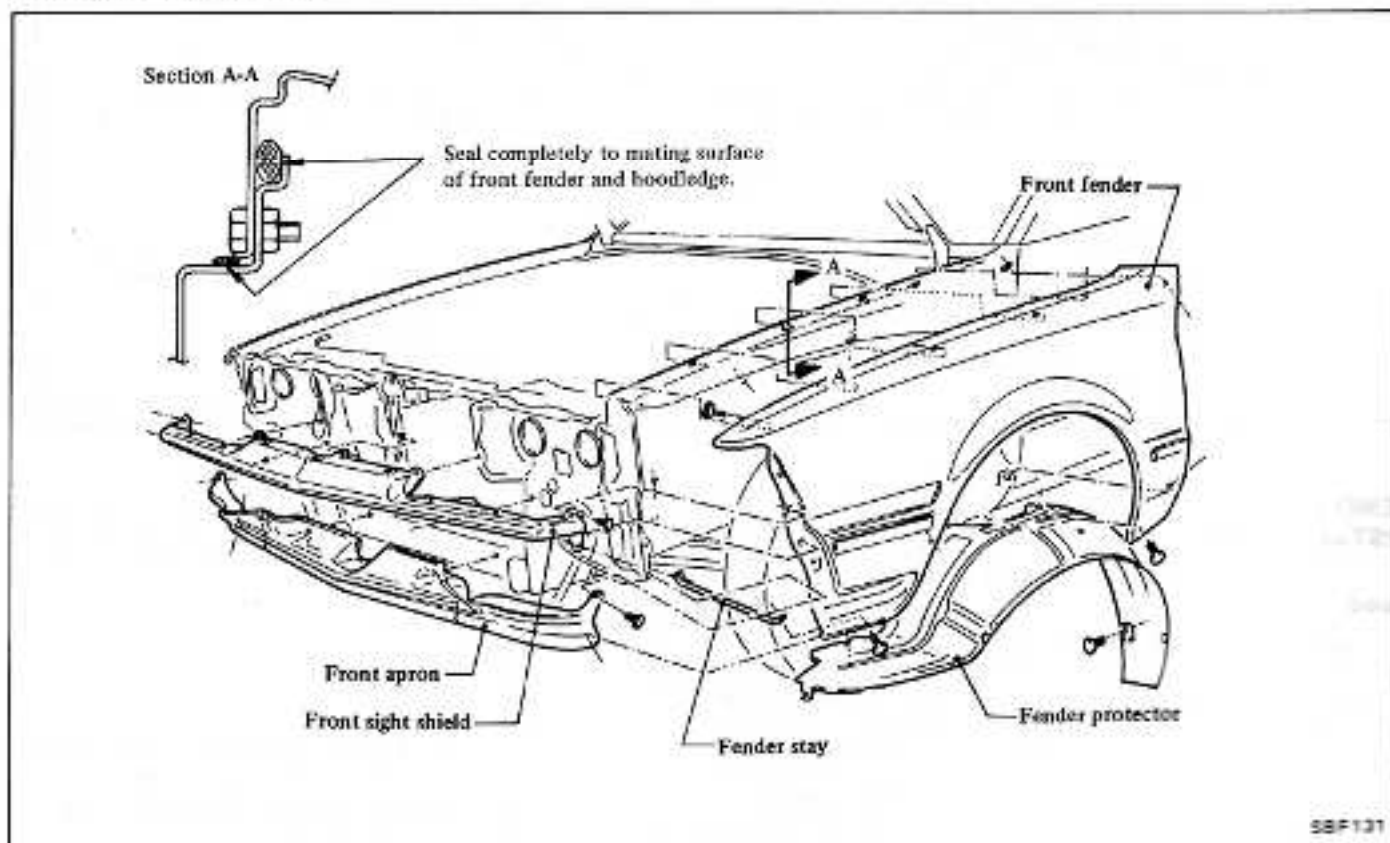
When installing front apron, be sure to seal mating surface of front fender and front apron.

FRONT SIGHT SHIELD**REMOVAL AND INSTALLATION**

1. Remove headlamp finisher and headlamp.
2. Remove radiator grille.
3. Remove front bumper assembly.
4. Remove front sight shield.



5. Installation is in reverse order of removal.

FRONT FENDER

REMOVAL AND INSTALLATION

1. Disconnect battery ground cable.
2. Remove front bumper assembly. Refer to Front Bumper Assembly for removal and installation.
3. Remove fender protector, sight shield, front apron and fender stay.
4. Remove bolts attaching front fender, and then remove front fender.

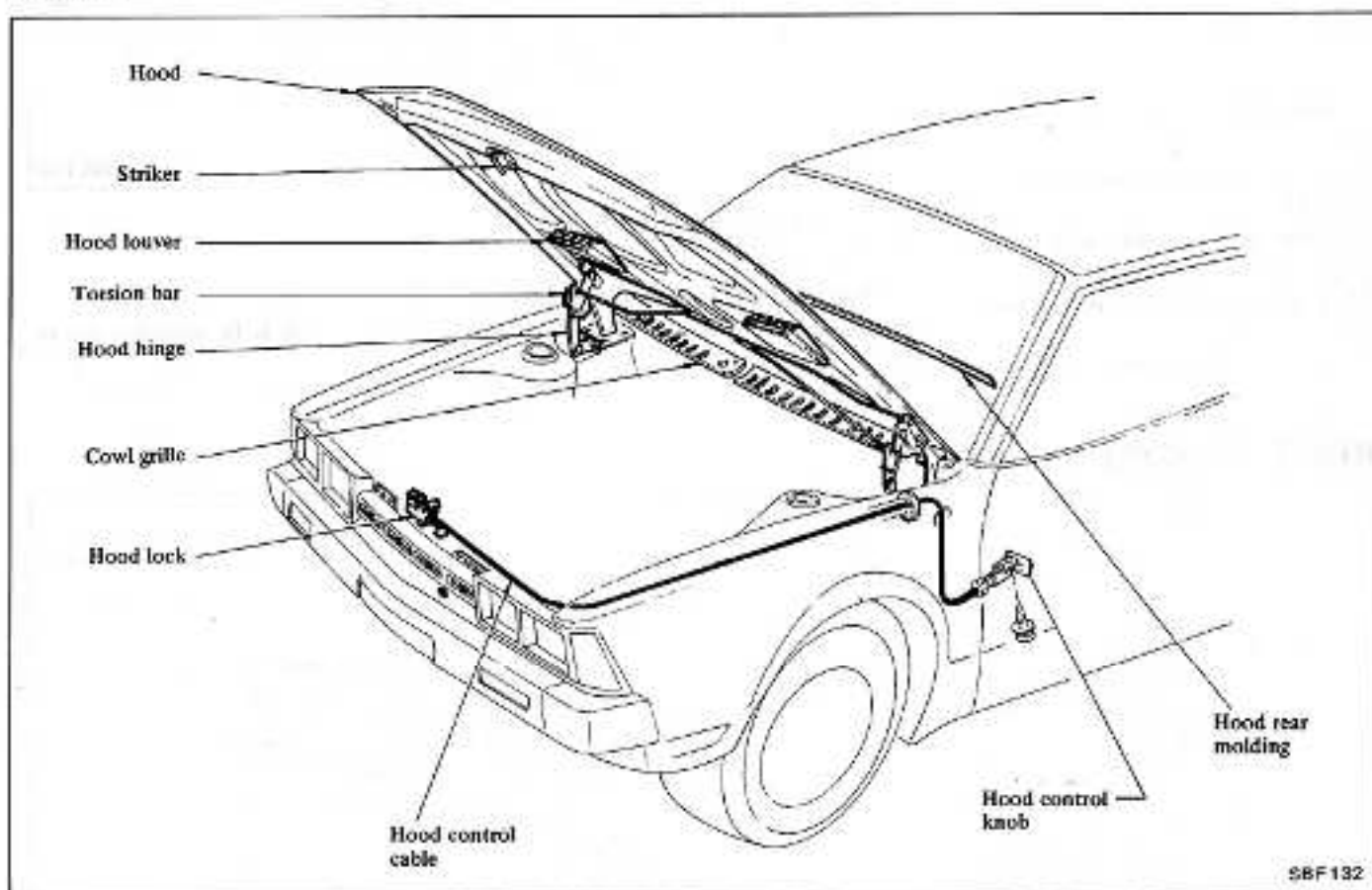
CAUTION:

Fender panel and hoodledge are secured with sealant. Before removing front fender, be sure to remove sealant.

5. Installation is in reverse order of removal.

When installing front fender, apply sealant to mating surface of front fender and hoodledge.

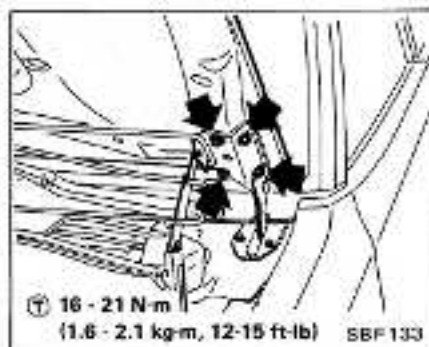
HOOD



REMOVAL AND INSTALLATION

Hood

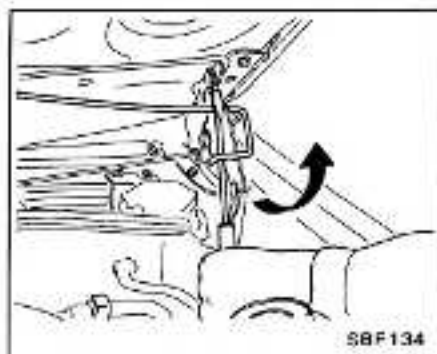
1. Open hood and remove washer tube.
2. Support hood and remove bolts attaching hood hinges, and then remove hood.



3. Installation is in reverse order of removal. Adjust hood. Refer to Adjustment.

Torsion bar

1. Open hood.
2. Support hood and remove each torsion bar by disengaging end of torsion bar from hood hinge. Use a suitable screwdriver.



3. Installation is in reverse order of removal.

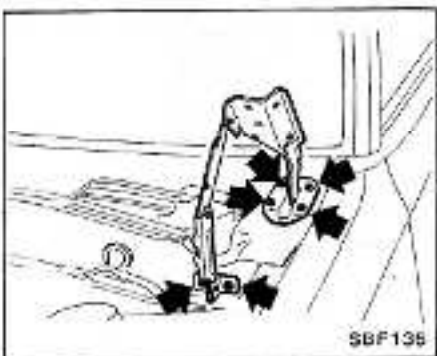
Lubricate sliding surface of torsion bar.

Hood hinge

1. Remove engine hood.
2. Remove wiper arm, and then remove window shield lower grille.
3. Remove torsion bar and then remove hood hinge.

CAUTION:

Remove hinge only after torsion bar has been removed.



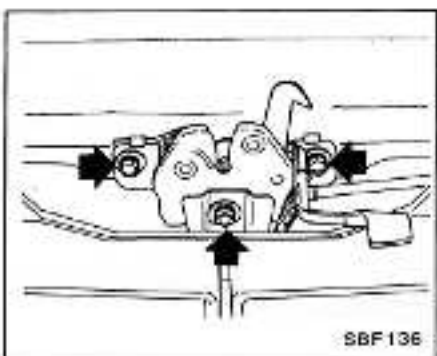
4. Installation is in reverse order of removal.

- Ⓘ: Hinge attaching bolts
3.9 - 4.9 N·m
(0.4 - 0.5 kg-m,
2.9 - 3.6 ft-lb)

Hood lock and lock control

1. Remove bolts attaching hood lock.

2. Disconnect lock control wire from hood lock, and then remove hood lock.



3. Remove left instrument lower cover. On right-hand drive models, remove right instrument lower cover. Refer to Instrument Lower Cover for removal.

4. Remove hood lock control knob, and then draw cable out through passenger compartment.

5. Installation is in reverse order of removal. Adjust hood. Refer to Hood Adjustment.

Ⓙ: Hood lock attaching bolts

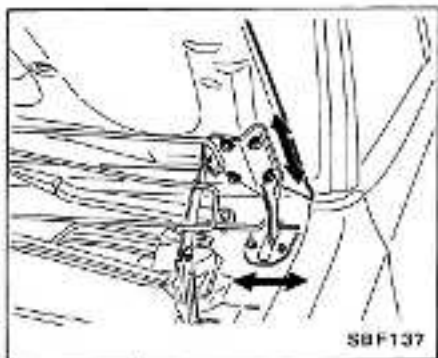
16 - 21 N·m
(1.6 - 2.1 kg-m,
12 - 15 ft-lb)

Check hood lock control operation.

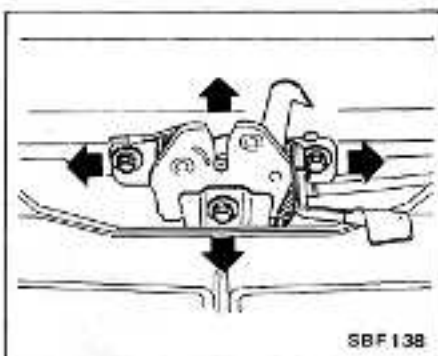
ADJUSTMENT

Hood and lock

1. Loosen bolts attaching hood hinge, and move hood forward or backward and side to side until it is set in optimum position.



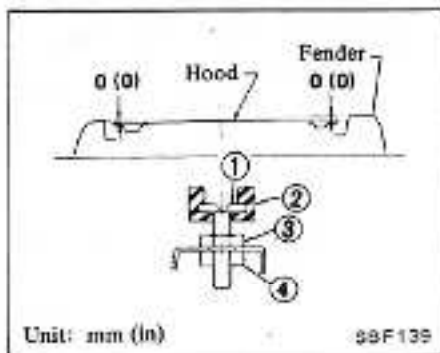
2. Loosen bolts attaching hood lock, and move hood up or down and side to side until it is set in optimum position when opened and closed.



After hood adjustment, ensure that clearance between hood and fenders is nearly equal at all points.

Bumper rubber

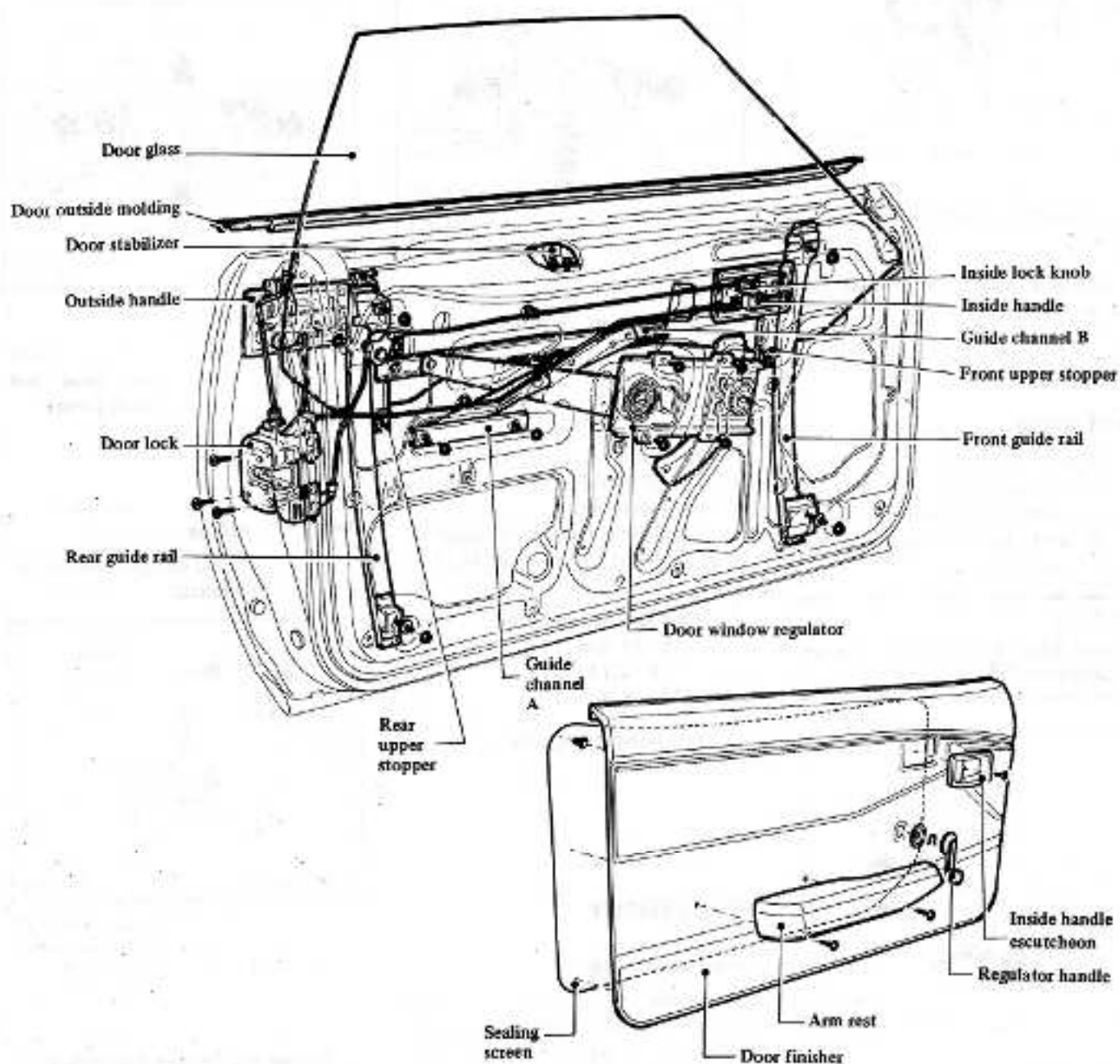
Raise two hood bumpers until hood is flush with fenders.



- 1 Adjust bolt
- 2 Bumper rubber
- 3 Lock nut
- 4 Weld nut

Ensure that rubber bumpers come in contact with mating panels.

DOOR

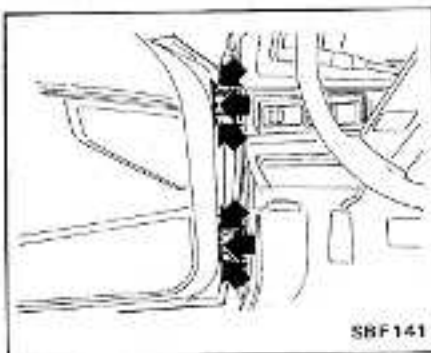


DOOR

REMOVAL AND INSTALLATION

Door assembly

1. Support door with a stand or jack.
Place a rag between door and stand or jack.
2. Remove door from hinges.

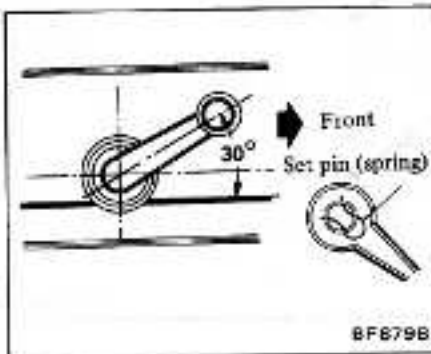


3. Installation is in reverse order of removal. Adjust Door. Refer to Adjustment.

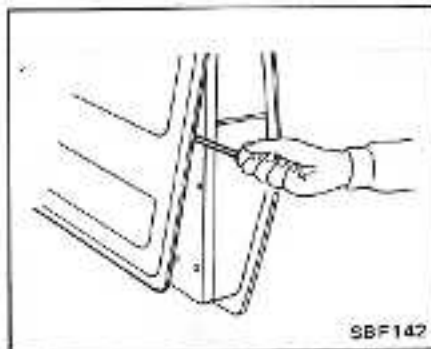
⊕ : Door hinge securing bolts
16 - 22 N·m
(1.6 - 2.2 kg-m,
12 - 16 ft-lb)

Front door trim

1. Lower door glass fully.
2. Remove arm rest and door inside handle escutcheon.
3. Remove regulator handle by prying out set pin.



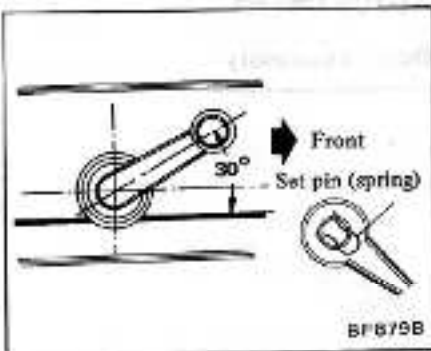
4. Remove door finisher with suitable tool, and pry door finisher clip off door inner panel.



5. Remove sealing screen.

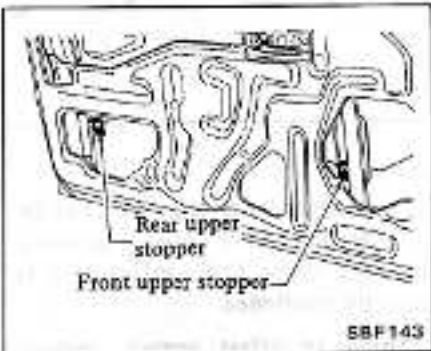
When removing sealing screen, be careful not to allow it to come in contact with adjacent parts.

6. Installation is in reverse order of removal.
 - a. To prevent water from entering passenger compartment, affix sealing screen firmly with adhesive tape or bonding agent.
 - b. With door window closed, use set pins to install regulator handle as shown in Figure below.

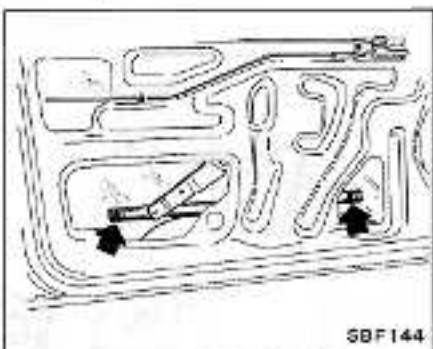


Door glass and regulator

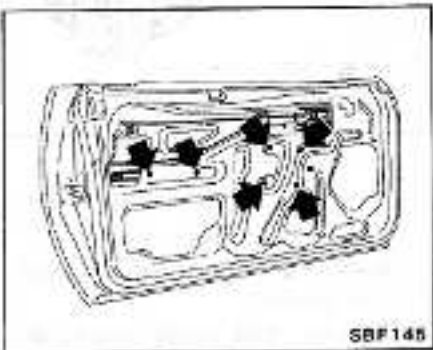
1. Remove door trim.
2. Remove door outer molding.
3. Remove both front and rear upper stoppers.



4. Remove bolts attaching door window to guide channel.



5. Remove door stabilizer.
6. Remove door glass by pulling it upwards and away from door.
7. Remove regulator attaching bolts.



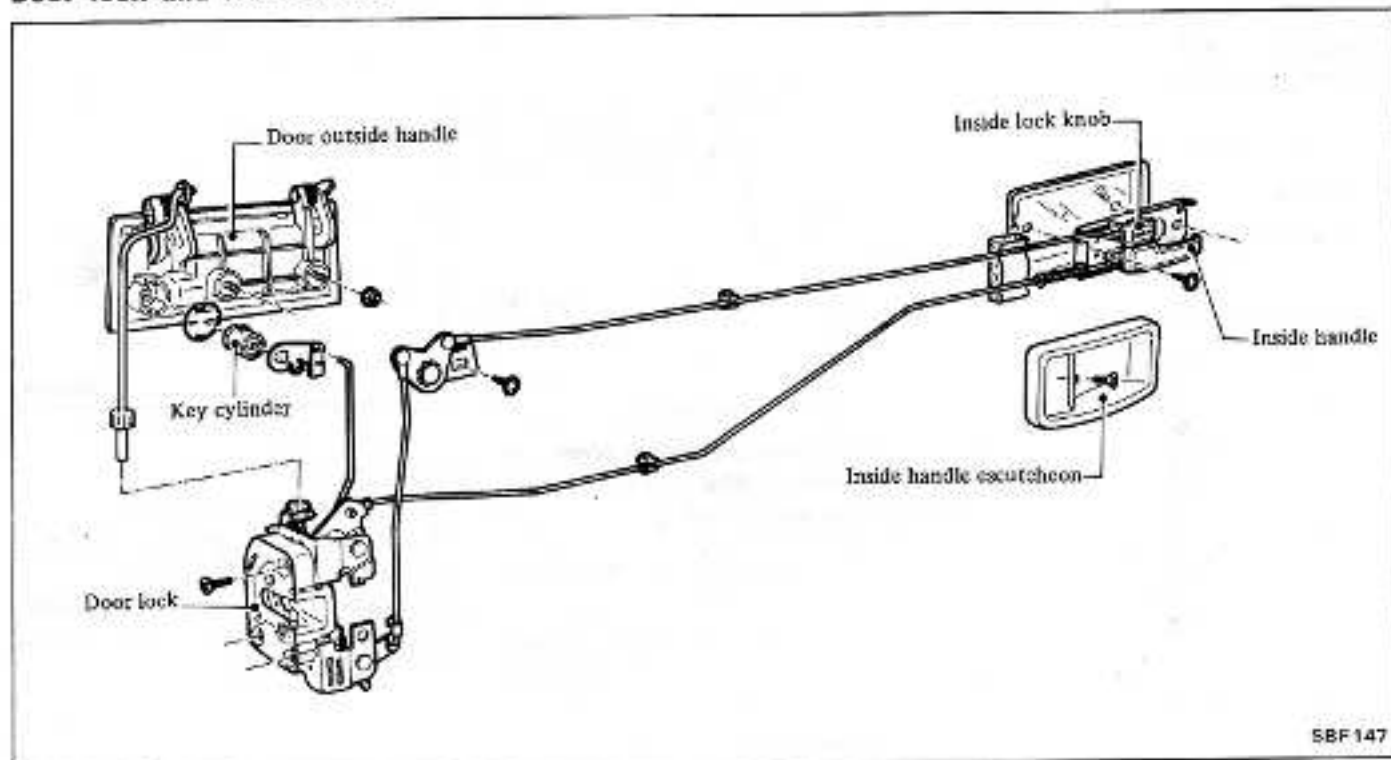
8. Remove regulator assembly through large access hole in door panel.



9. Installation is in reverse order of removal. Door glass adjustment. Refer to Adjustment.

Apply grease to sliding surfaces of regulator and guide channel.

Door lock and lock control



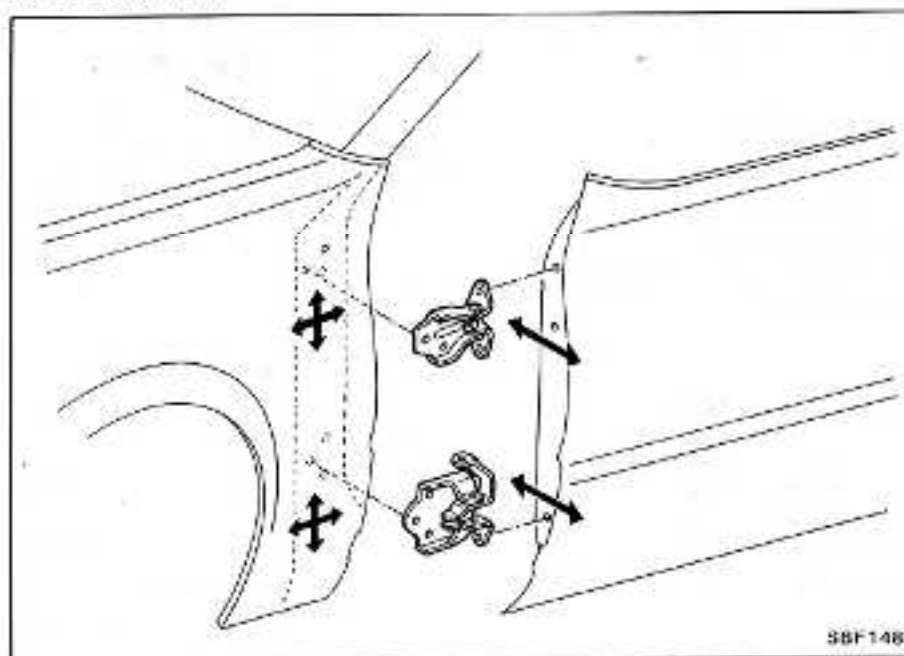
SBF 147

1. Remove door trim.
2. Remove door glass. Refer to Door Glass for removal.
3. Remove door inside handle attaching screws, door lock assembly attaching screws and bell-crank attaching screw.
4. Disconnect key rod from key cylinder, and then remove door lock and lock control.
5. Remove door outside handle.
6. Installation is in reverse order of removal.

Apply grease to sliding surfaces of levers and springs.

ADJUSTMENT

Door assembly



SBF 148

1. Loosen bolts attaching door hinge to body side. Move door up or down and forward or backward until it is correctly positioned.

Using an offset wrench, remove

bolts attaching hinge to rear of front fender.

2. Loosen bolts attaching door hinge to door side. Move door from side to side until it is set in optimum position.

Door glass

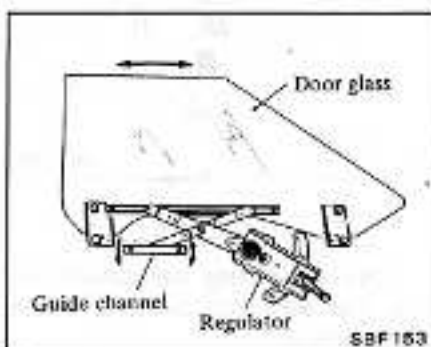
Before adjusting door window glass, check body side weatherstrip to ensure that it is properly positioned, as in-

proper positioning may cause water or dust leaks.

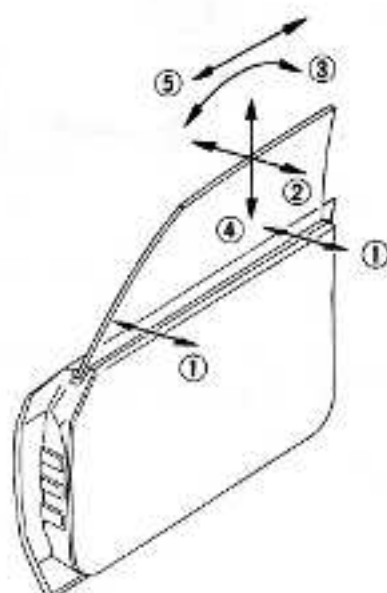
Adjust window glass as follows:

Tilt adjustment (Upper side of glass)

1. Loosen front and rear upper stopper securing bolts and front and rear guide rail securing nuts.
2. Adjust door regulator so that upper side of glass is parallel with body side weatherstrip.



3. After adjustment, tighten guide rail securing nuts and guide channel securing bolts.

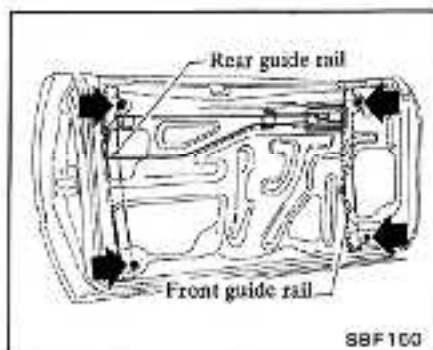


- 1 In-out adjustment (at waist area)
- 2 In-out adjustment (upper side of glass)
- 3 Tilt adjustment (upper side of glass)
- 4 Glass upper stop adjustment
- 5 Glass fore-and-aft adjustment

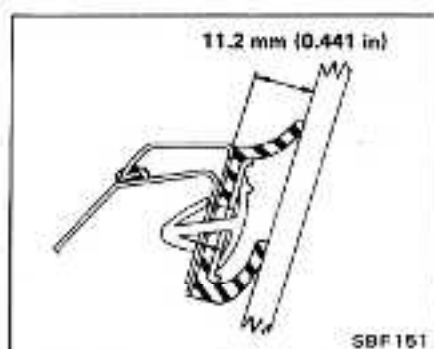
SBF149

In-out adjustment (At waist area)

1. Loosen nuts securing upper ends of both front and rear guide rails.



SBF100

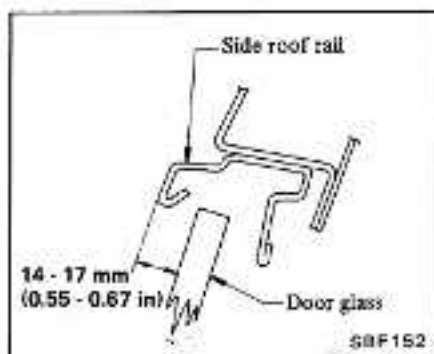


SBF151

2. Raise window completely.
3. Turn upper adjusting bolts in one direction or the other until distance between glass and rubber seal for door waist molding is 11.2 mm (0.441 in), as shown in Figure.

In-out adjustment (Upper side of glass)

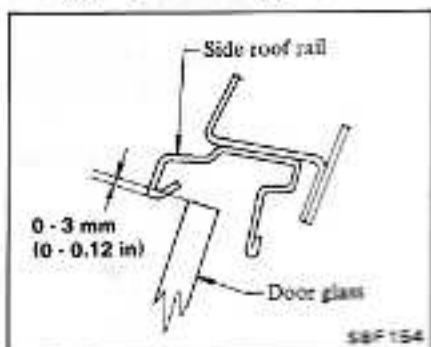
1. Loosen nuts securing lower end of guide rail, and turn adjusting bolts until glass is set in position as shown in Figure below.



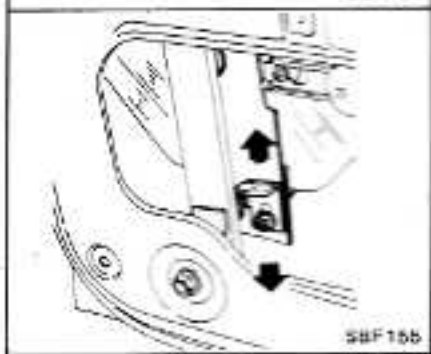
SBF152

Glass upper stop adjustment

1. Adjust rear height of glass by changing upper rear stopper position.

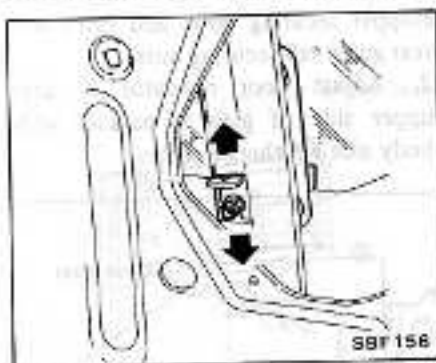


SBF154



SBF155

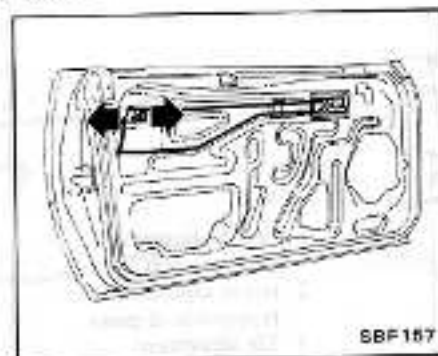
2. Adjust front height of glass by changing upper front stopper position.



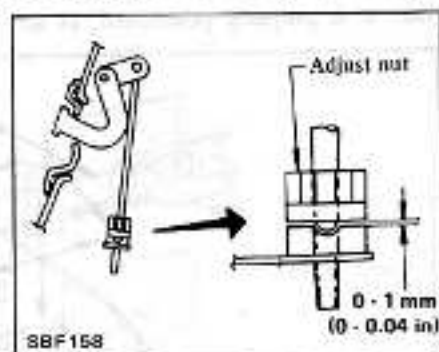
After completing adjustment, ensure that each adjustment is within specified limit.

Door lock and lock control

1. Move bell-crank front and rear until free play of lock knob is minimum. Check lock knob and inside handle to insure that they are flush with each other when lock is engaged. Tighten lock knob attaching screws.



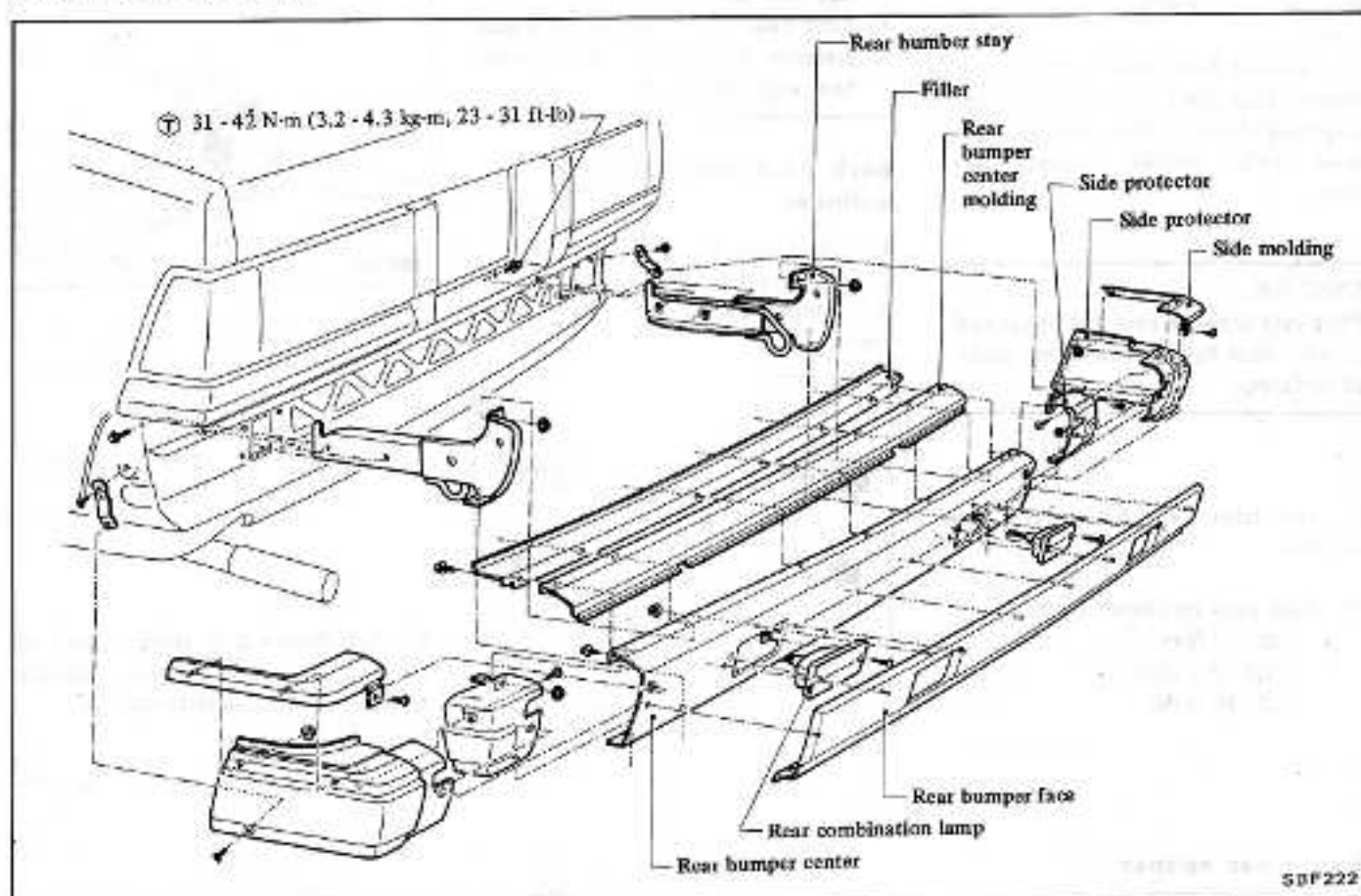
2. Turn adjusting nut until clearance between outside handle rod and door lock lever is 0 to 1 mm (0 to 0.04 in).



After adjustment, check to determine if door lock operates correctly.

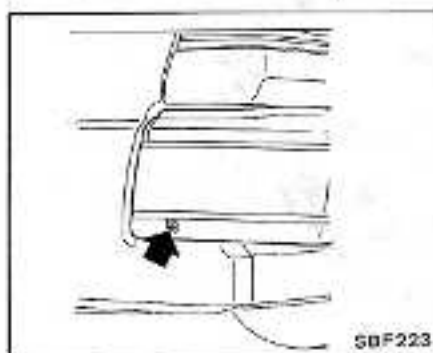
BODY REAR END

REAR BUMPER

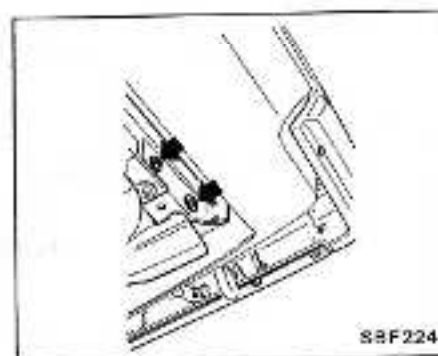


REMOVAL AND INSTALLATION

1. Disconnect reverse lamp harness.
2. Remove screw attaching bumper side to rear fender from bumper side.



3. Remove bumper stay securing bolts, and then draw out bumper assembly.



4. Installation is in reverse order of removal.

BACK DOOR

REMOVAL AND INSTALLATION

Back door



1. Open back door.
2. Mark hinge locations on body for proper reinstallation.

3. Support back door by hand and remove back door to back door stay bolts. Remove rear roof rail trim and disconnect rear defogger and rear window wiper harness connector and hose.
4. Support back door by hand and remove back door to back door hinge attaching bolts. Then remove back door. This operation requires two men.

CAUTION:

Place rags between roof and upper end of back door to avoid damaging painted surfaces.

5. Installation is in reverse order of removal.

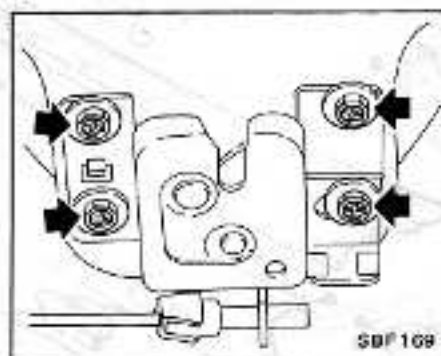
- ⓘ : Back door stay retaining bolt
16 - 21 N·m
(1.6 - 2.1 kg·m,
12 - 15 ft·lb)

CAUTION:

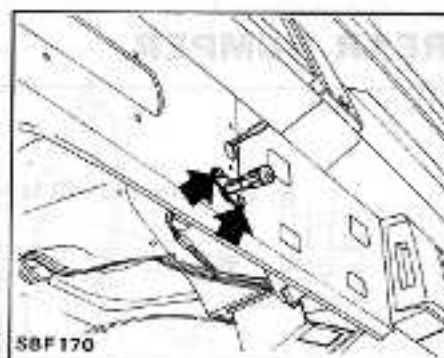
- a. Be careful not to scratch back door stay when installing. A scratched stay may cause gas leakage.
- b. Back door stay contents are under pressure. Do not take apart, puncture, apply heat or fire.

Back door lock and lock cylinder

1. Open back door.
2. Remove luggage rear finisher.
3. Remove back door lock from rear panel.

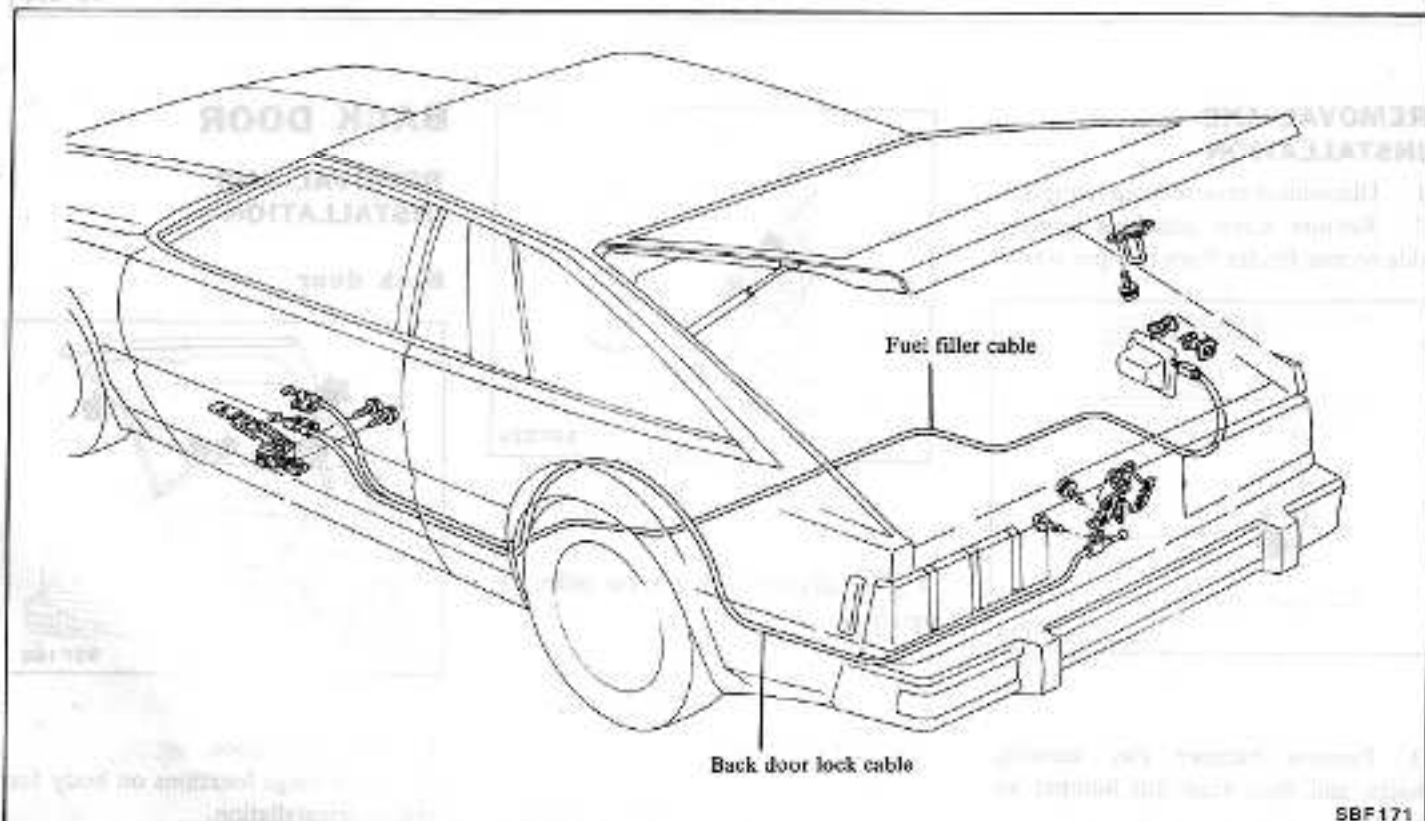


4. Remove rear combination lamp and then remove lock cylinder.



5. Installation is in reverse order of removal. Adjust back door, referring to Back Door for adjustment.

Back door opener



1. Open back door.
2. Remove luggage rear finisher.
3. Remove back door lock from rear panel.
4. Remove rear seat cushion and rear seat back.
5. Remove kicking plate.
6. Turn up floor carpet near back door opener handle.
7. Turn up luggage room carpet and remove back door opener handle.
8. Remove back door opener cable.
9. Installation is in reverse order of removal.

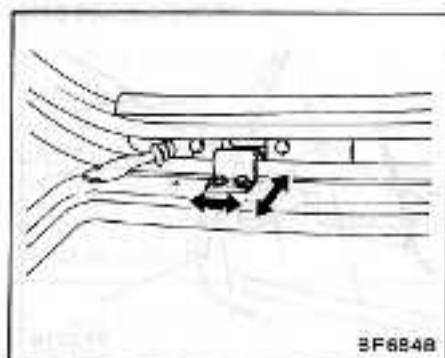
Fasten back door opener control cable securely with adhesive tape.

ADJUSTMENT

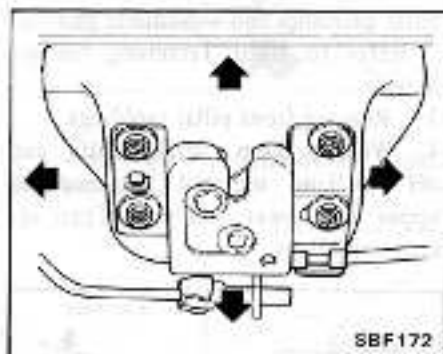
Back door and striker

Back door can be adjusted with bolts attaching back door to back door hinge and back door lock.

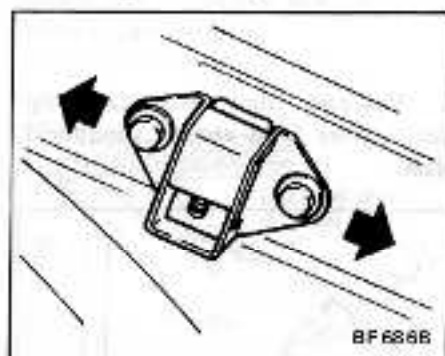
1. Loosen bolts attaching back door to back door hinge.
2. To make side-to-side adjustment, move back door to left or right as required to obtain an equal clearance between back door and rear fender on both sides.
3. To make fore-and-aft adjustment, move back door in fore-and-aft direction as required to obtain an equal clearance between back door and roof.



4. After alignment is properly made, tighten bolts securely.
5. To obtain a snug fit between back door and weatherstrip, loosen down stopper securing screws. Loosen back door lock attaching bolts enough to move lock, working lock up or down and from side to side as required.

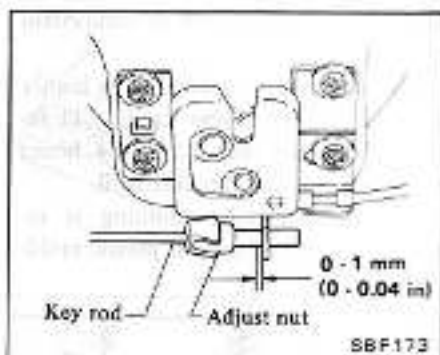


6. After desired adjustment is obtained, tighten back door lock attaching bolts securely.
7. Adjust down stopper to set with hollow of back door, then tighten down stopper securing screws.



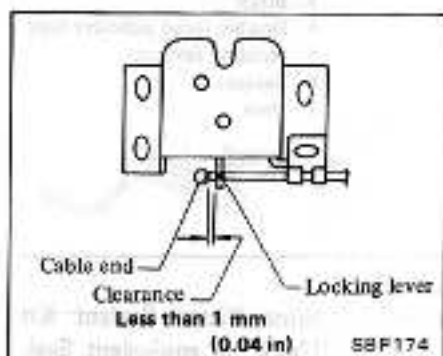
Back door lock

Adjust back door lock and key rod until they are correctly positioned when door lock is engaged, as shown in Figure below.



Back door opener

Adjust clearance between rear door opener cable end and locking plate when door is locked, until it is within range indicated in Figure below.



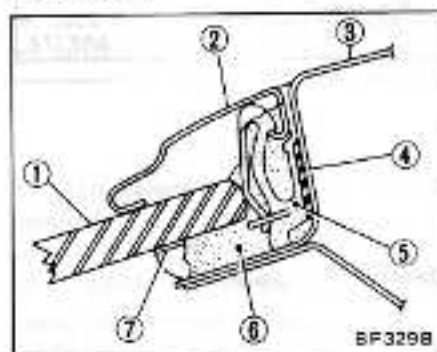
WINDSHIELD AND WINDOWS

WINDSHIELD

A pre-mixed, one-part sealant to cement windshield glass to windshield opening is available.

After using this sealant, it is highly recommended that the car should remain stationary for about 24 hours so that the sealant can cure well.

Upper windshield molding is installed with a continuous plastic molding fastener.



- 1 Windshield glass
- 2 Windshield molding
- 3 Body
- 4 Double faced adhesive tape
- 5 Molding fastener
- 6 Sealant
- 7 Dam

CAUTION:

- a. Use Genuine Nissan Sealant Kit "72891U7425" or equivalent. Sealant kit consists of Primer-A, Primer-E, dam, caution label and sealant which is made from silicone. Using this kit, proceed to operations described in removal and installation.
- b. Do not use sealant if it is more than six-months old.
- c. Open cartridge only at the time of use.
- d. Keep Primers and sealant in a cool, dry place. Ideally, sealant should be stored in a refrigerator.

WARNING:

Keep heat or open flames away as Primers are flammable.

REMOVAL

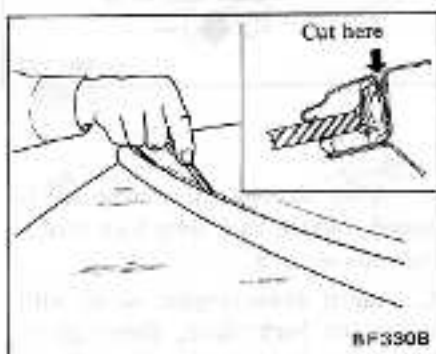
1. Protect hood, front fenders, instrument panel and front seats with covers.

2. Remove windshield wipers, front pillar garnishes and windshield garnish.

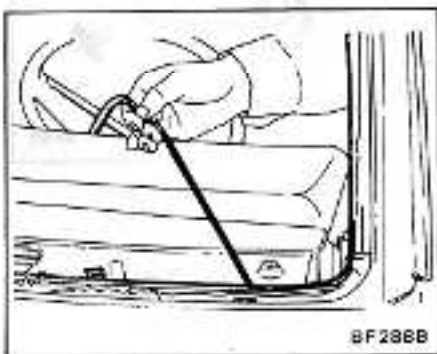
Refer to Roof Trimming for removal.

3. Remove front pillar moldings.

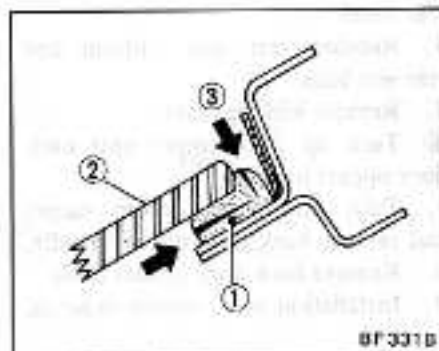
4. With a sharp cutting knife, cut off caulking material attached to upper and lower moldings. Then remove moldings.



5. Reaching from inside car, strip dam rubber from around windshield glass.



6. With a sharp cutting knife, cut off caulking material along edge of entire window opening.



- 1 Adhesive caulking material
- 2 Glass
- 3 Knife cut

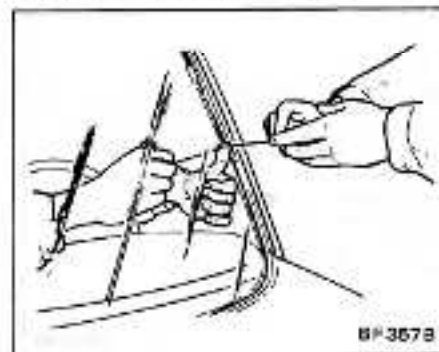
7. Cut off caulking material around entire perimeter of glass as follows:

(1) Using a knife, cut through part of caulking material.

(2) Secure one end of steel music wire [0.5 mm (0.020 in) in diameter] to a piece of wood that can serve as a handle.

Using long nose pliers, insert other end of wire through caulking material at edge of glass; then, secure that end of wire to another wood handle.

(3) With the aid of an assistant, carefully cut (pull wire) through caulking material around entire perimeter of window using a sawing motion.



8. From inside car, push glass up and out of window opening.

9. Using a razor blade or sharp scraper, remove caulking material along entire edge of windshield opening, leaving it about 1.0 to 2.0 mm (0.039 to 0.079 in) thick.

If residual sealant is silicone, remove all traces of it.

CAUTION:

- a. When body painted surface is scratched, be sure to repair with paint.
- b. Identification of used adhesive material can be accomplished as follows:
 - 1) Cut a small piece of excess sealant from glass or windshield opening flange.
 - 2) Stick small piece of sealant on the end of knife or the like, and hold it over flame from match or lighter until it ignites.
 - Polysulfide burns with a clear flame and a very small amount of white smoke or no smoke and its odor is very objectionable (heavy sulfur dioxide).
 - Polyurethane burns with a dirty flame and emit black smoke and very little odor.
 - Silicone glows with little or no flame and emits white smoke and very little odor.

Burnt residue is white ash.

INSTALLATION

1. Clean contacting face of body with non-lead gasoline.

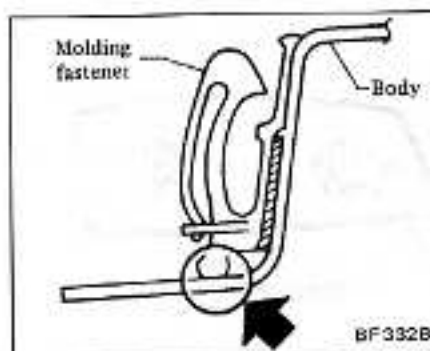
CAUTION:

Do not allow oil, grease or water to get on clean surfaces from dirty hands or tools.

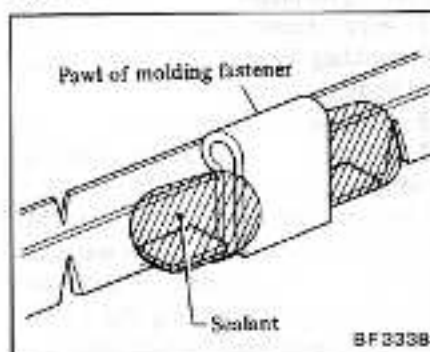
2. Install molding fastener on upper windshield opening as follows:

- (1) Heat molding fastener and contacting face of body up to about 40°C (104°F) using a heat gun.
- (2) Attach molding fastener to body and press it more than 490 kPa (4.9 bar, 5 kg/cm², 71 psi) using a suitable roller.

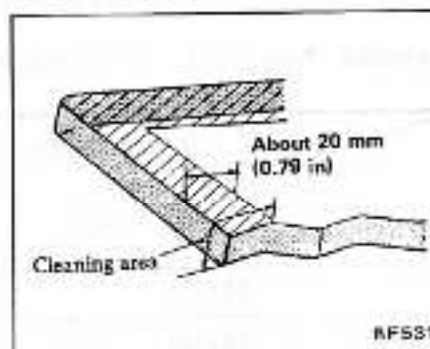
Make certain that molding fastener does not come off from body, as shown.



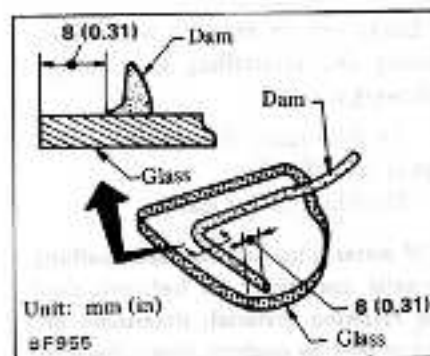
- (3) Apply glass sealant beside molding fastener.



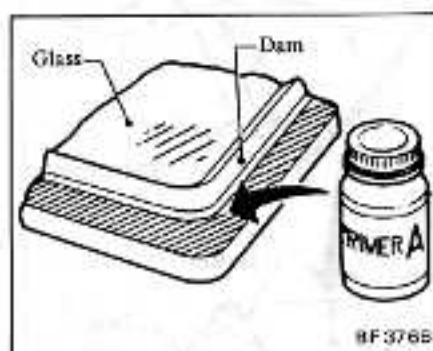
3. Clean glass surface where the sealant will be applied and dam with non-lead gasoline.



4. Install dam rubber to inside of windshield glass 8 mm (0.31 in) inboard from edge of glass and cut off excess amount at its ends.



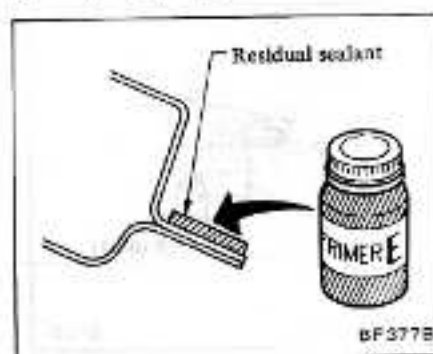
5. With sponge furnished with Primer A, apply a light coat of Primer to cleaned area of glass.



CAUTION:

Do not apply Primer A to glass opening flanges.

6. With sponge furnished with Primer E, apply a light coat of Primer to original caulking material left on glass opening flange.

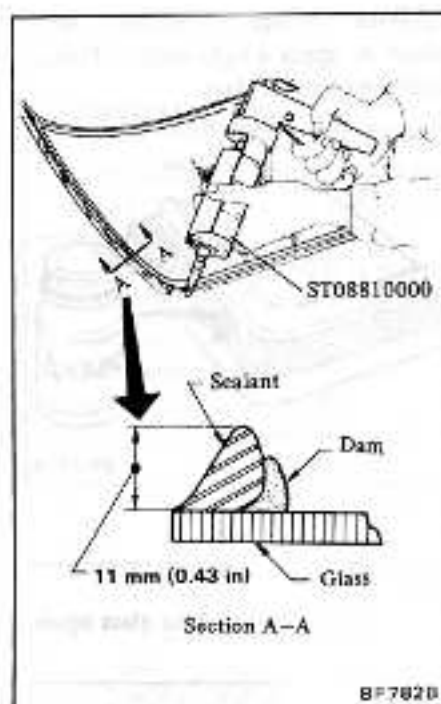


If residual sealant is silicone, remove all traces of it.

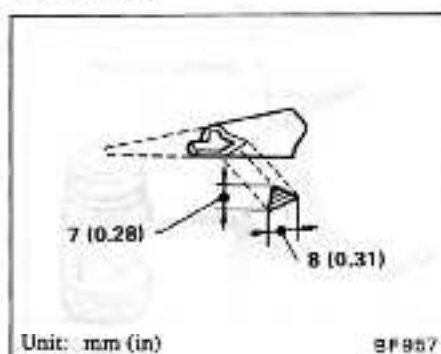
CAUTION:

Allow Primers to dry for 10 to 15 minutes before proceeding to the next step.

7. Insert cartridge in Caulking Head Gun ST08810000 and place nozzle, continuous bead on glass 13 mm (0.43 in) above glass surface.



Cut off nozzle end of cartridge as shown below.



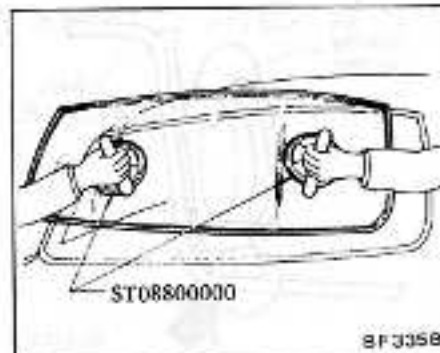
Pierce sealing film with needle; install cartridge on hand gun.

CAUTION:

Sealant starts to harden 15 minutes after it is applied; therefore, windshield glass should be installed in windshield opening in body within 15 minutes of applying sealant.

8. Support windshield glass with Sucker ST08800000.

9. Install windshield glass on opening flange so that clearances between windshield glass and body are about 7 mm (0.28 in).



10. Apply pressure on glass to aid in seating on plate.

11. Wipe excess caulking material off molding fasteners, edges of glass, and body.

12. Remove protective covers.

13. Water test immediately using a cold water spray.

Do not direct stream of water at fresh adhesive material. Allow water to spill over edges of glass. If leaks are encountered, use Caulking Hand Gun to work in additional caulking material at leak point.

14. Install all previously removed parts.

Reference: Period required for sealant to dry to desired hardness.

Unit: days

Relative humidity %	Unit: days		
	90	50	25
Temperature °C (°F)			
25 (77)	1.5	2.5	6
10 (50)	3	5.3	10
-10 (14)	10	17	34

REPAIRING LEAKS

Leaks can be repaired without removing and reinstalling glass in the following manner:

1. To stop leaks, first remove moldings in area of leak.
2. Mark location of leak.

If water is leaking between caulking material and body or between glass and caulking material, determine extent of leak by pushing glass outwards.

After installing, attach caution label to glass surface.



Be sure that it does not obstruct visibility. The label, noting the fact that sealing will be impaired if door is opened or closed with window closed before sealant has dried, will be furnished with the kit.

CAUTION:

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

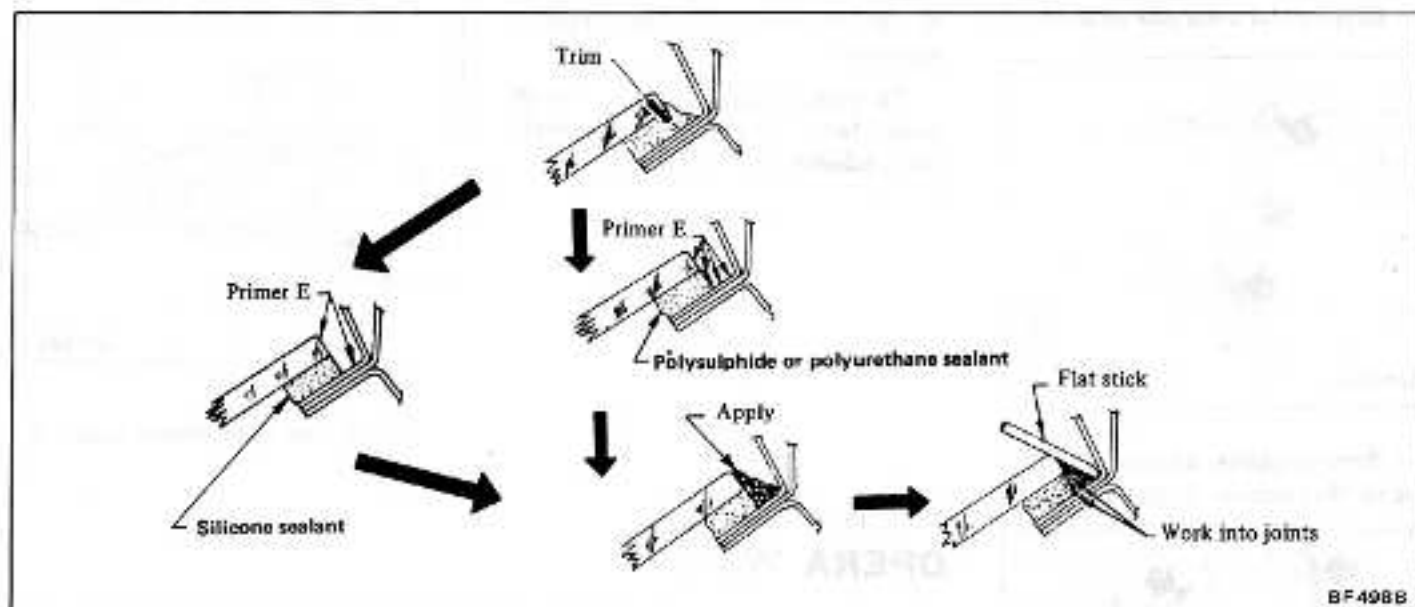
Apply water to leak area while pushing on glass.

Mark extent of leak point.

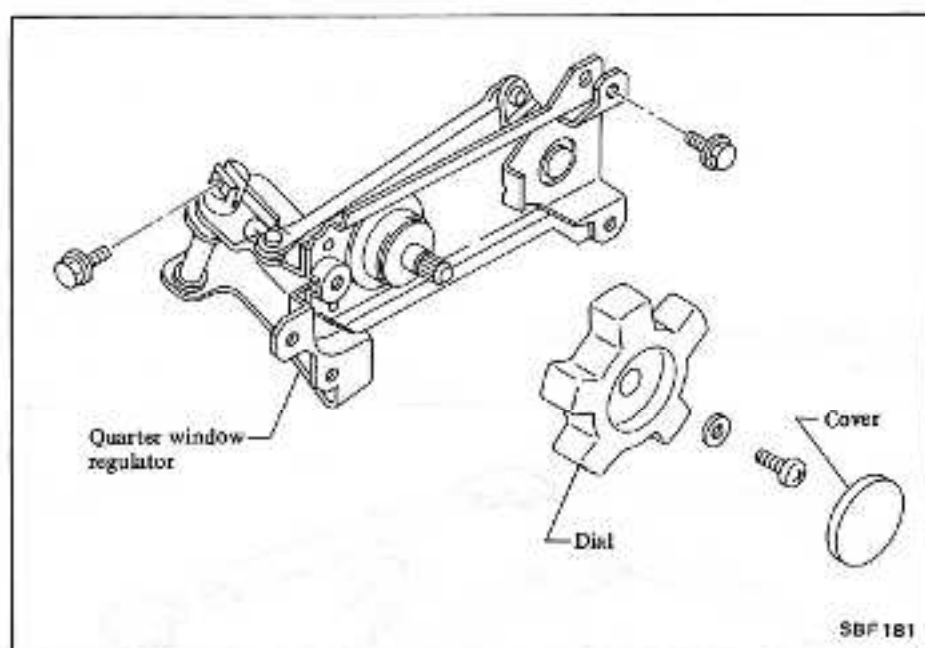
3. Apply Primer and then sealant to leak points, following procedures shown below.

CAUTION:

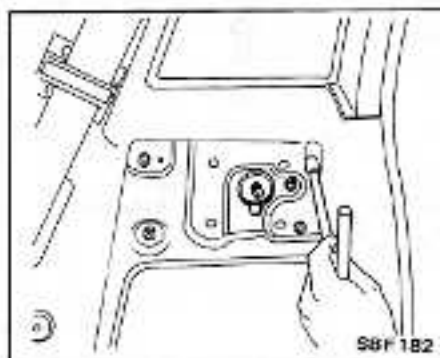
Do not apply Primer to old silicone sealant.



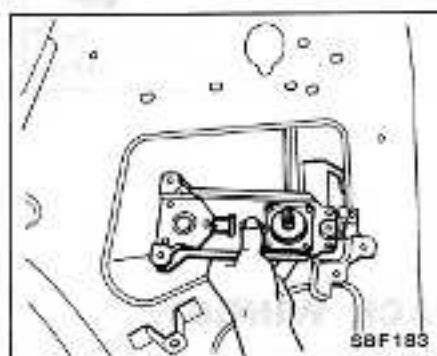
REAR QUARTER WINDOW REMOVAL AND INSTALLATION



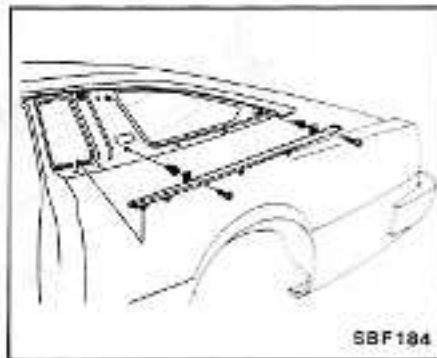
1. Remove rear seat cushion and seat back.
2. Remove regulator handle, rear side finisher and top luggage side finisher, and remove sealing screen.
3. Remove bolts attaching glass to regulator.



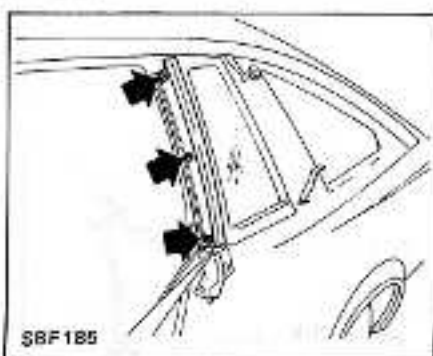
4. Remove regulator attaching bolts and detach regulator.



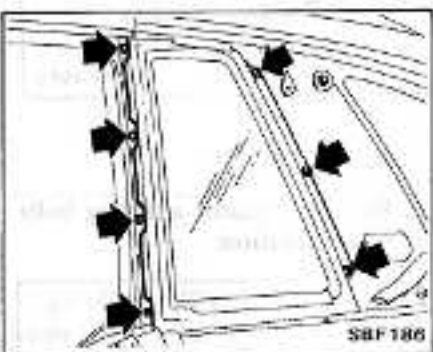
5. Remove air outlet grille and rear fender molding.



6. Remove rear body side retainer.

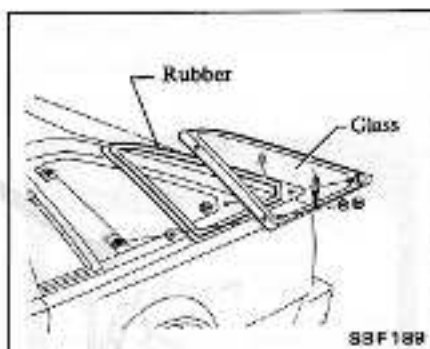


7. Remove quarter window attaching screws, then remove quarter window.



8. Installation is in reverse order of removal.

To prevent water leakage through door, fasten sealing screen securely using adhesive tape or bonding agent.



4. Installation is in reverse order of removal.

OPERA WINDOW

REMOVAL AND INSTALLATION

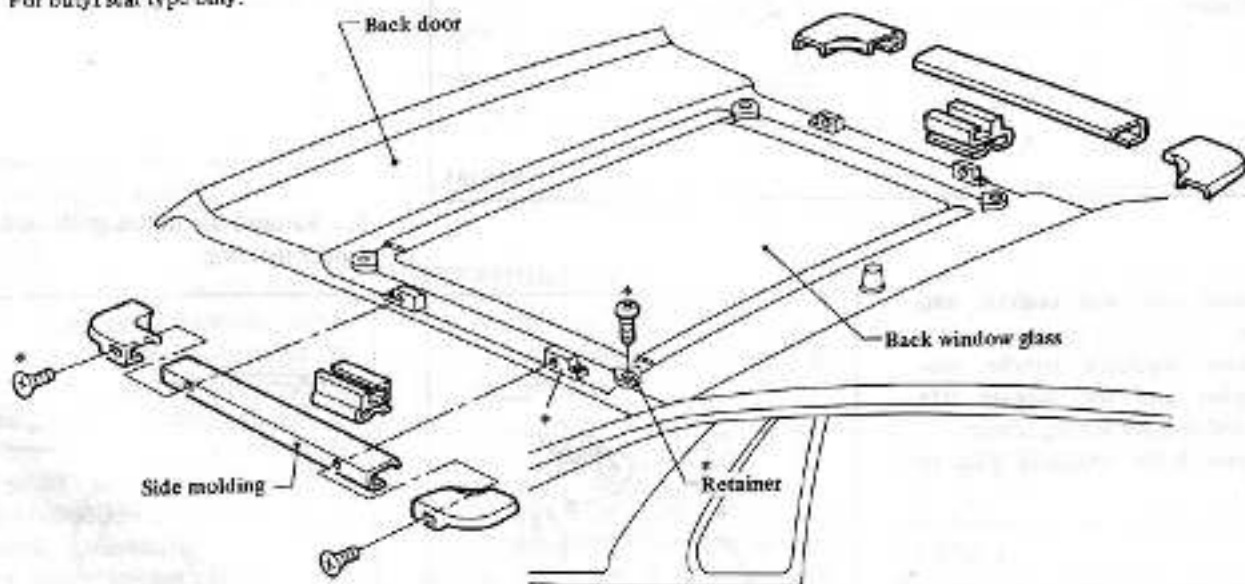
1. Remove rear seat cushion, seat back, rear side finisher and luggage side upper finisher.
2. Remove air outlet grille.
3. Remove opera window attaching nuts, then remove window.

BACK WINDOW

There are two methods for adhering

back window; adhesive type and butyl seal type.

*: For butyl seal type only.

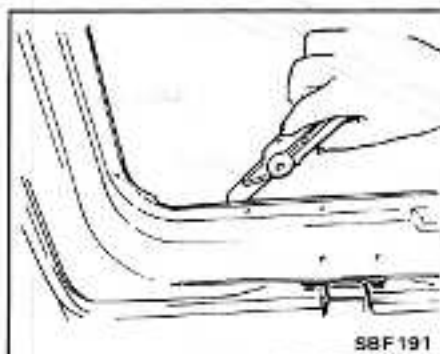


REMOVAL AND INSTALLATION (Adhesive type)

Follow the same procedures as for windshield glass.

REMOVAL (Butyl seal type)

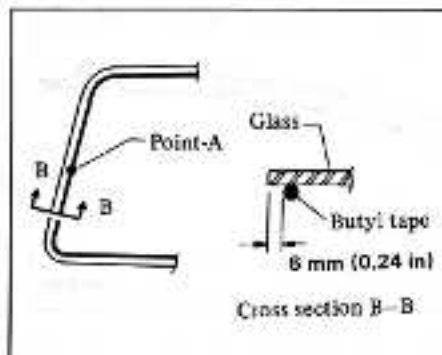
1. Remove both side molding and corner molding.
2. Remove four glass retainers.
3. Disconnect rear defogger harness (if so equipped).
4. Remove welt from inside passenger compartment.
5. Remove butyl tape with a putty knife, then remove back window glass.



INSTALLATION (Butyl seal type)

Use butyl tape of 8 mm (0.31 in) or equivalent when replacing glass.

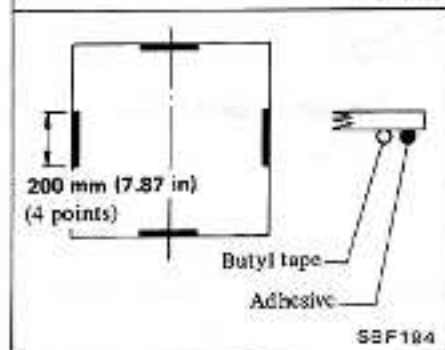
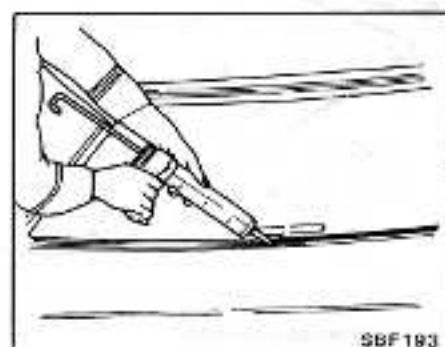
1. Wipe any trace of butyl tape off glass and door panel, using non-leaded gasoline.
2. Affix butyl tape to entire surface of glass, as shown in Figure below.



Be sure to affix butyl tape, starting at point A (figure above) and ending at point A and overlap some length of tape at point A.

Use care to avoid touching adhesive side of butyl tape with fingers, as finger prints or stains may reduce adhesive force of tape.

3. Using a heat gun, heat adhesive side of butyl tape to 70°C (158°F).
4. Apply bonding agent to points of glass, as shown in Figures below.



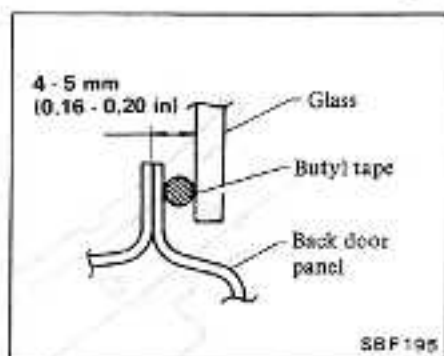
5. Support rear window glass with Sucker ST08800000.
6. With the help of an assistant, bring rear window glass close to opening flange of rear window, and connect rear window defogger harness.

7. Carefully position rear window glass on opening flange of rear window.

Check rear window glass to ensure that all side clearances (upper side, lower side, left side and right side) are equal.

8. Temporarily tighten four retainers, and lightly tap around glass with a rubber-faced hammer until glass fits panel at all points, as shown.

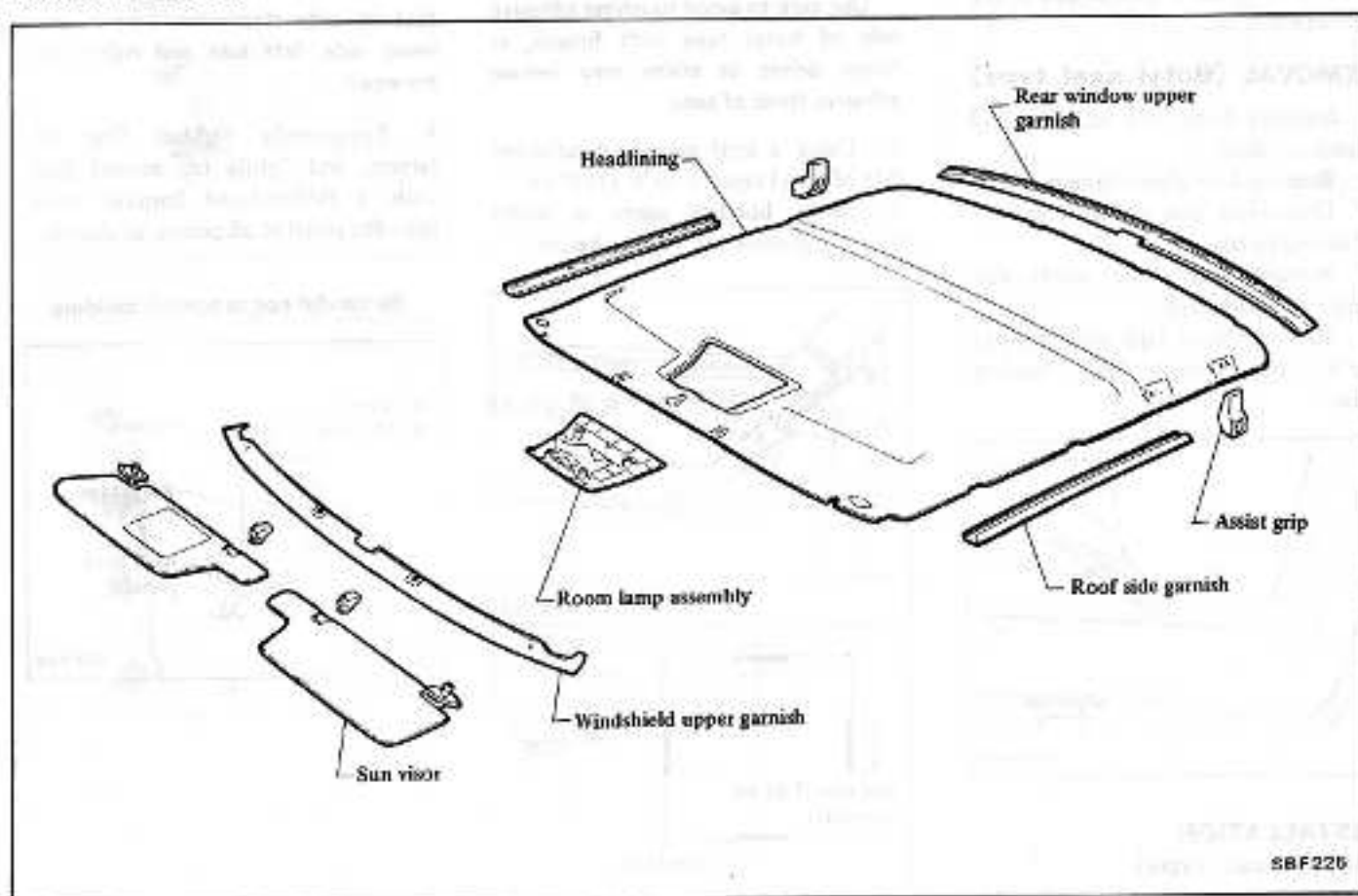
Be careful not to scratch molding.



9. Tighten all four retainers securely, and attach corner molding.
10. Do not apply vibration or shocks to glass for at least one hour after glass has been installed. Direct water toward periphery of glass to determine if there is water leak inside passenger compartment.
11. Remove excess or protruded butyl tape.

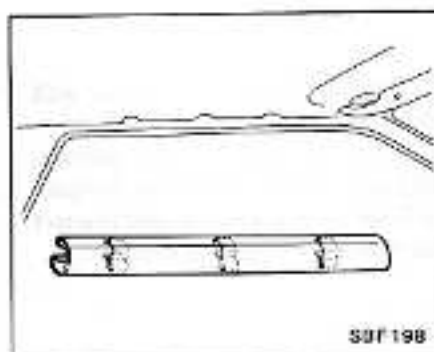
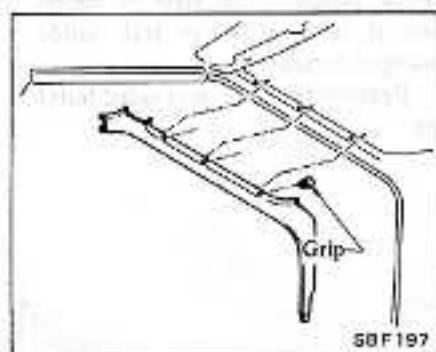
TRIM AND MOLDING

ROOM TRIM



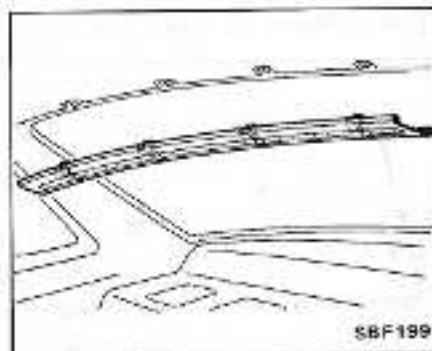
REMOVAL AND INSTALLATION

1. Remove front pillar garnish.



5. Remove rear seat cushion and back.
6. Remove coat hanger.
7. Remove rear side finisher.
8. Remove luggage upper side finisher.

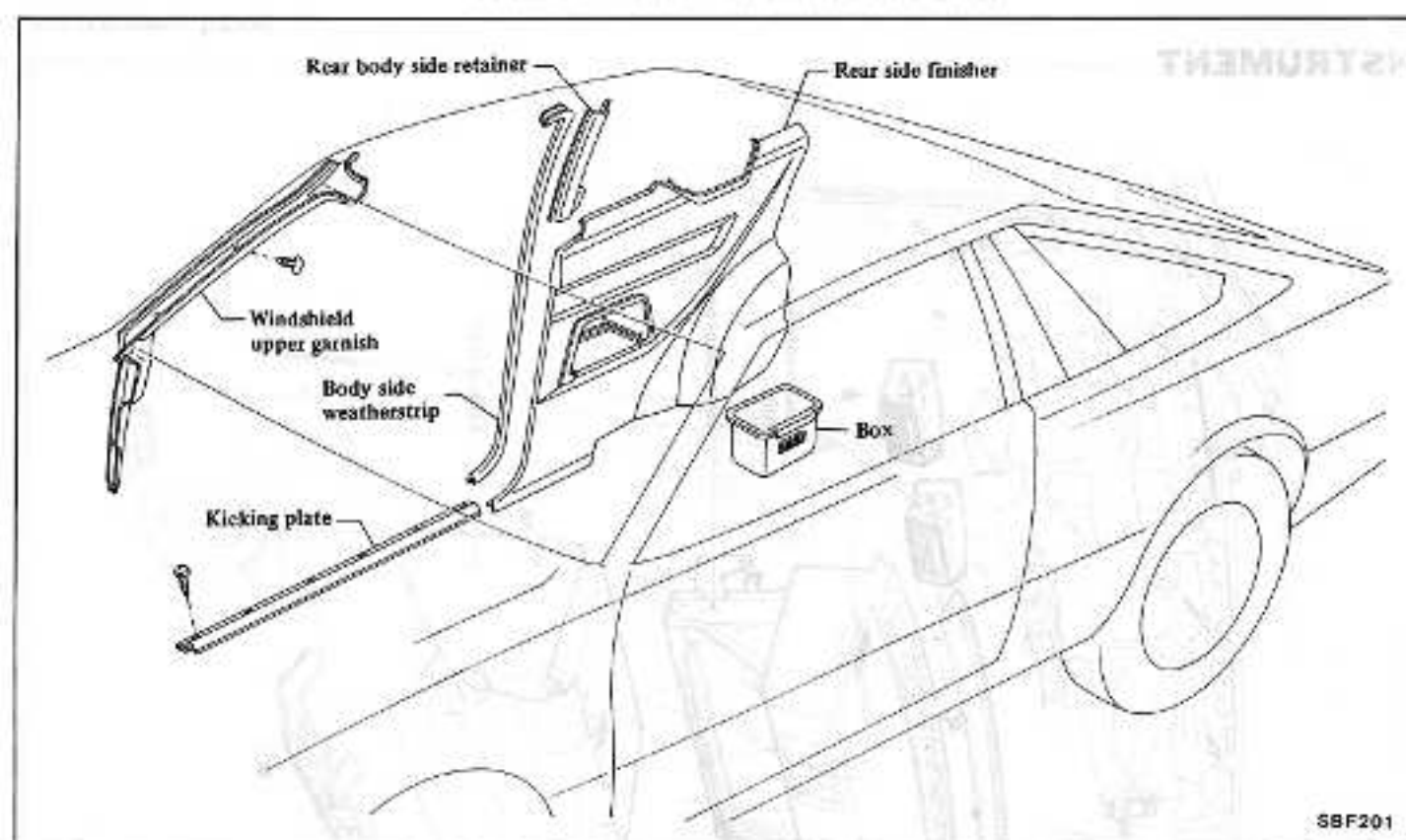
9. Remove rear window upper garnish.



2. Remove sun visor and holder.
3. Remove room lamp assembly.
4. Remove roof side garnish.

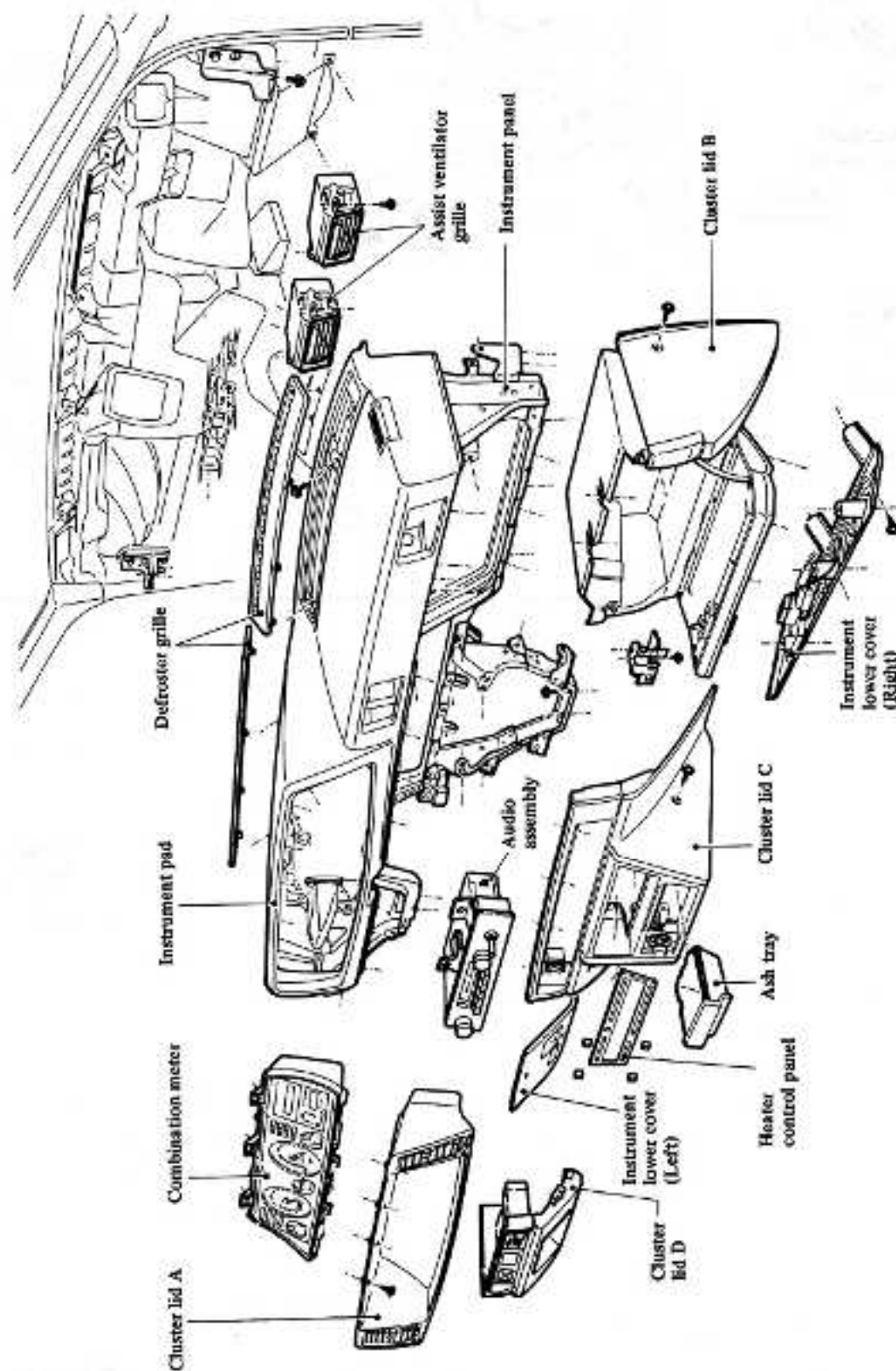
10. Remove head lining.
11. Installation is in reverse order of removal.

BODY SIDE TRIM AND MOLDING



INSTRUMENT AND SEAT

INSTRUMENT

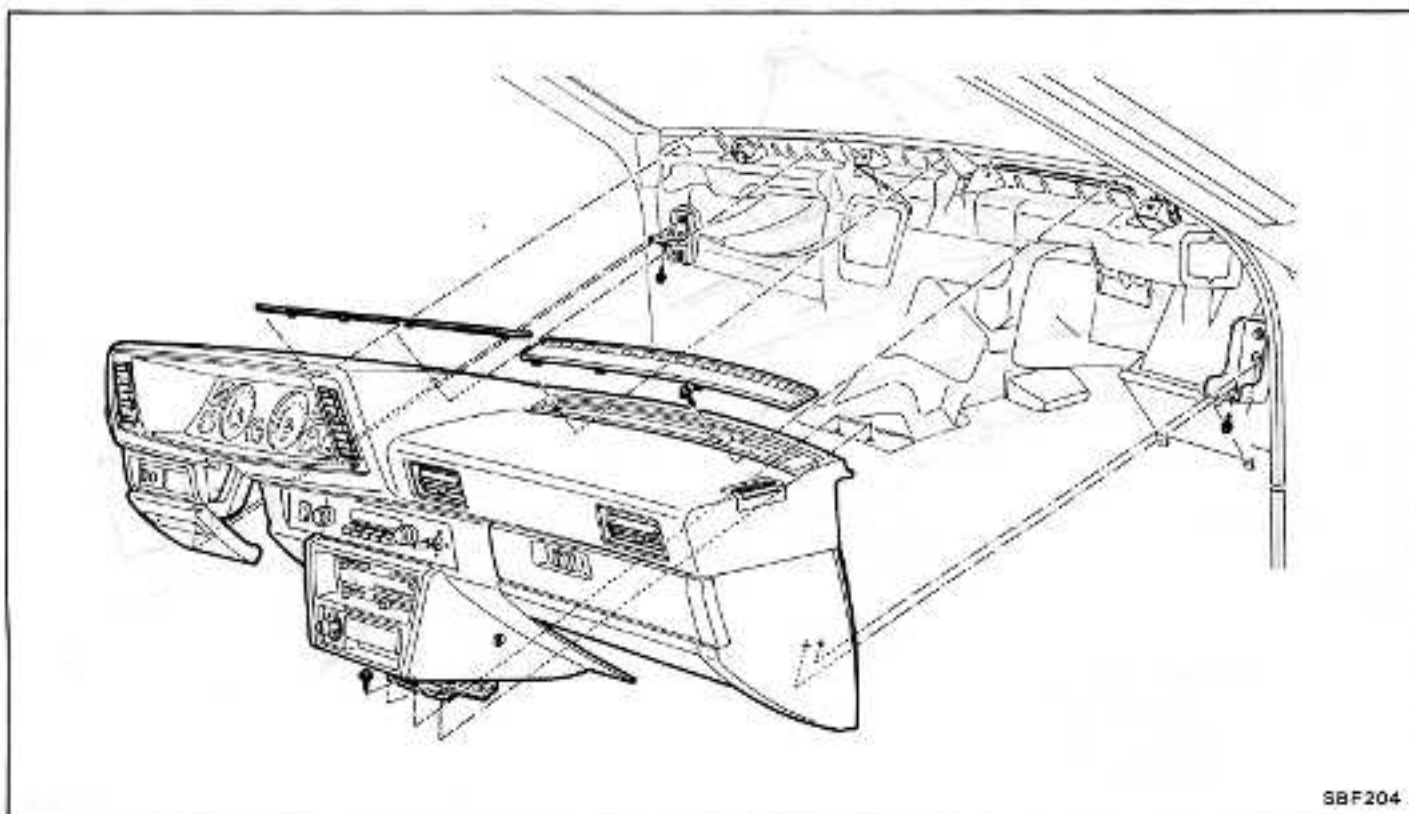


Z·ONE·DATSUN

S8F203

REMOVAL AND INSTALLATION

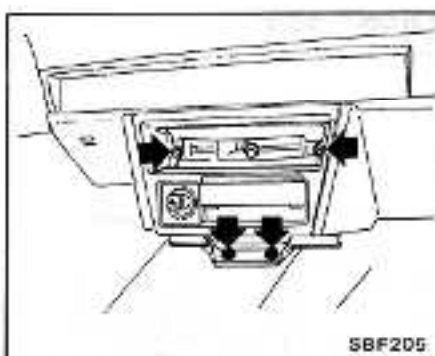
Instrument panel



SBF204

1. Disconnect battery ground cable.
2. Remove steering wheel. Refer to Steering Wheel (ST section) for removal.
3. Remove shell cover and combination switch.
4. Remove instrument lower cover and side ventilator duct.
5. Remove cluster lid D. Remove console box.
6. Disconnect wiring connectors from junction block.
7. Disconnect speedometer cable harness connectors and antenna cable.

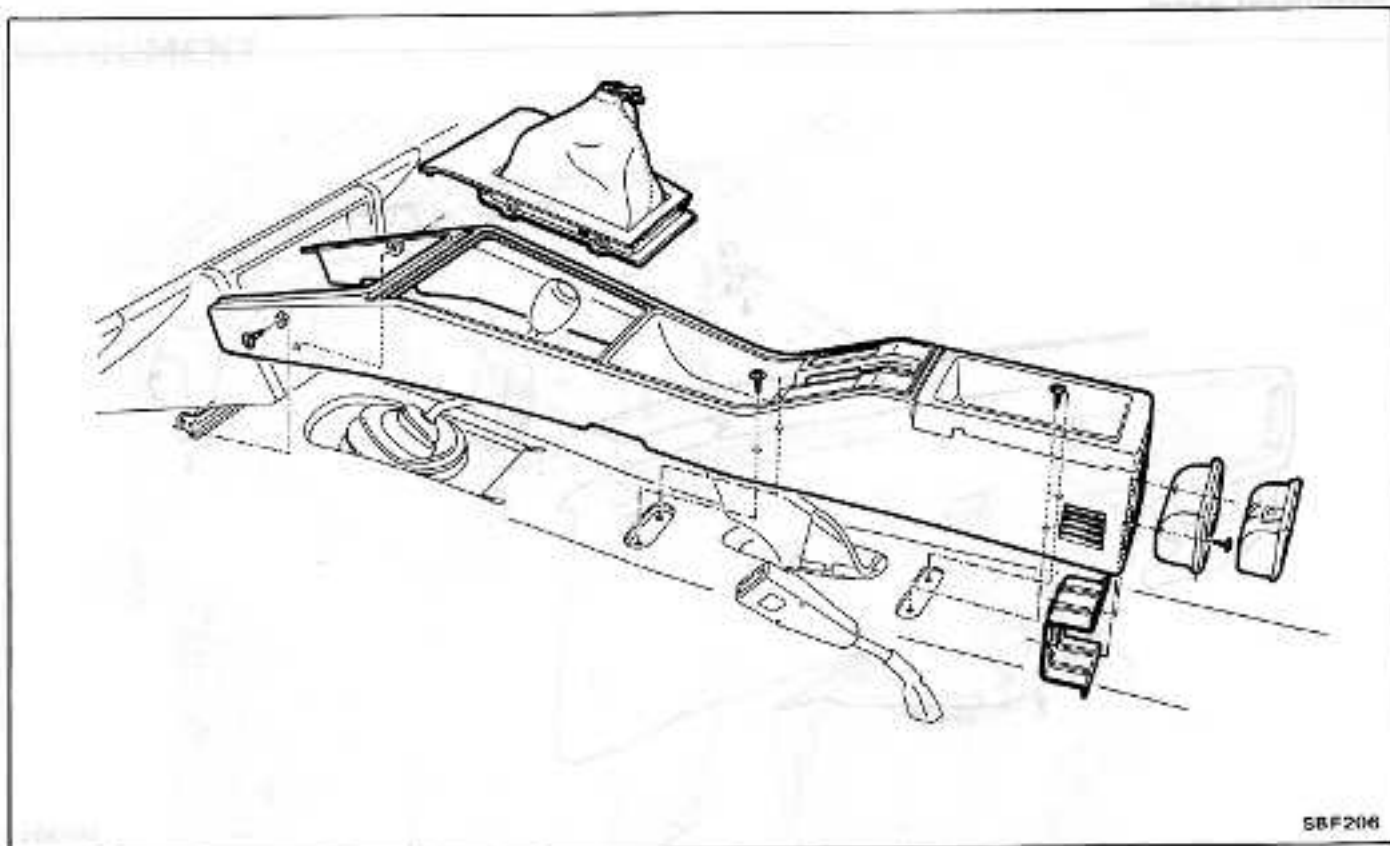
8. Remove heater control attaching screws and floor attaching bolts.



SBF205

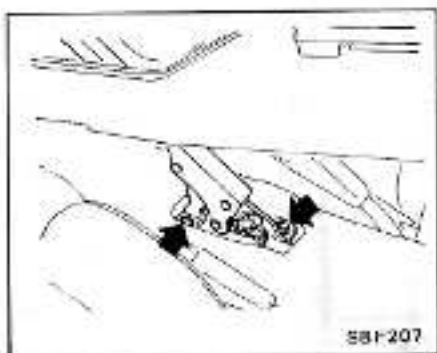
9. Remove defroster grille.
10. Remove instrument securing bolts and then remove instrument assembly by pulling it out.
11. Installation is in reverse order of removal.

CONSOLE BOX



REMOVAL AND INSTALLATION

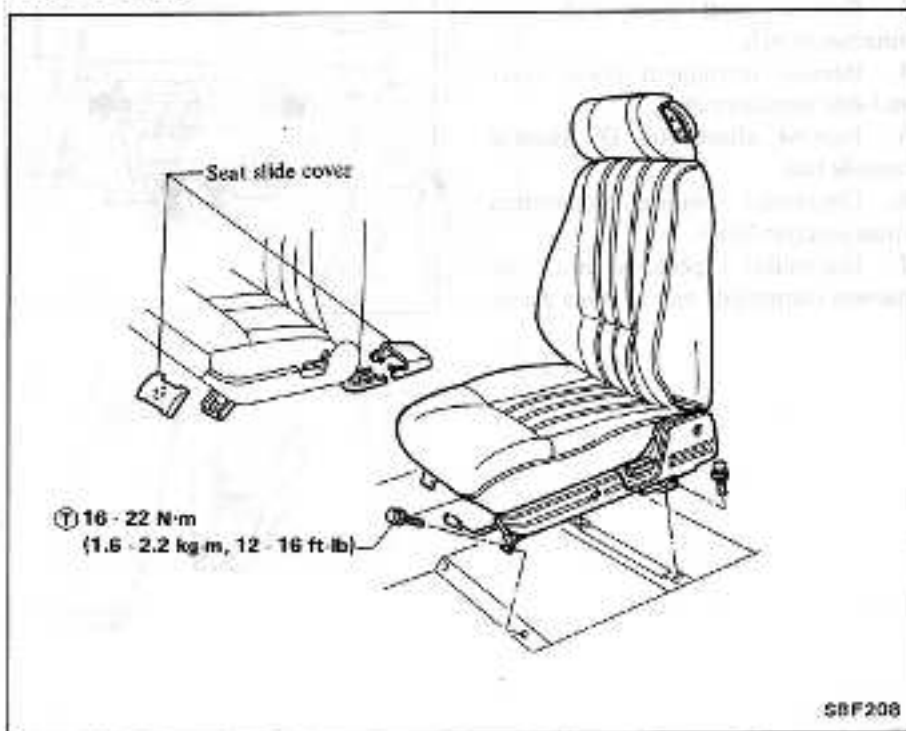
1. Remove screws attaching console box and slide console box rearward.
2. Remove parking brake, and lift out console box.



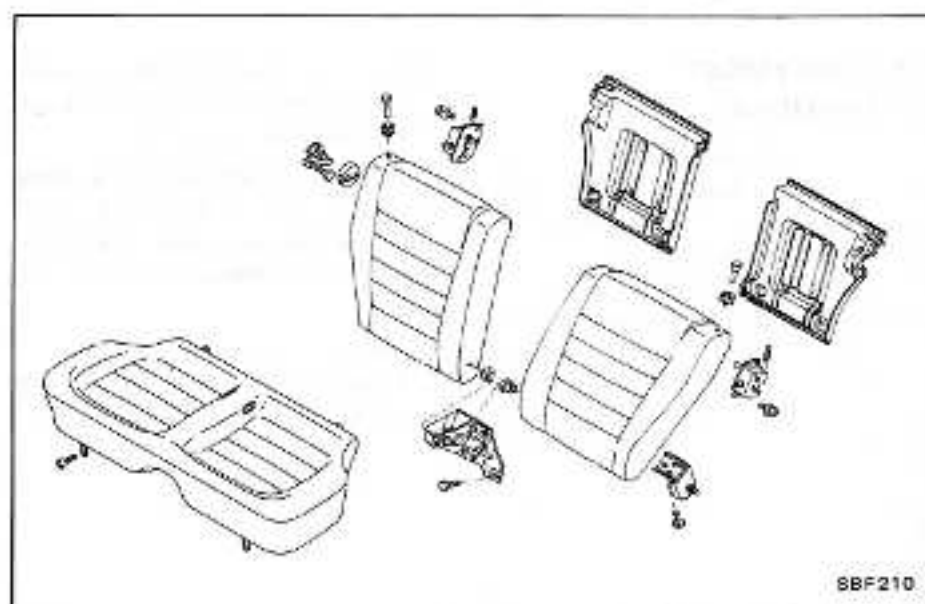
3. Installation is in reverse order of removal.

SEAT

FRONT SEAT



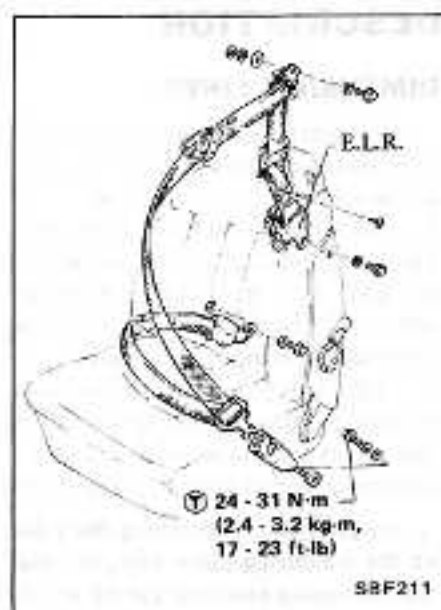
REAR SEAT



SBF210

SEAT BELT

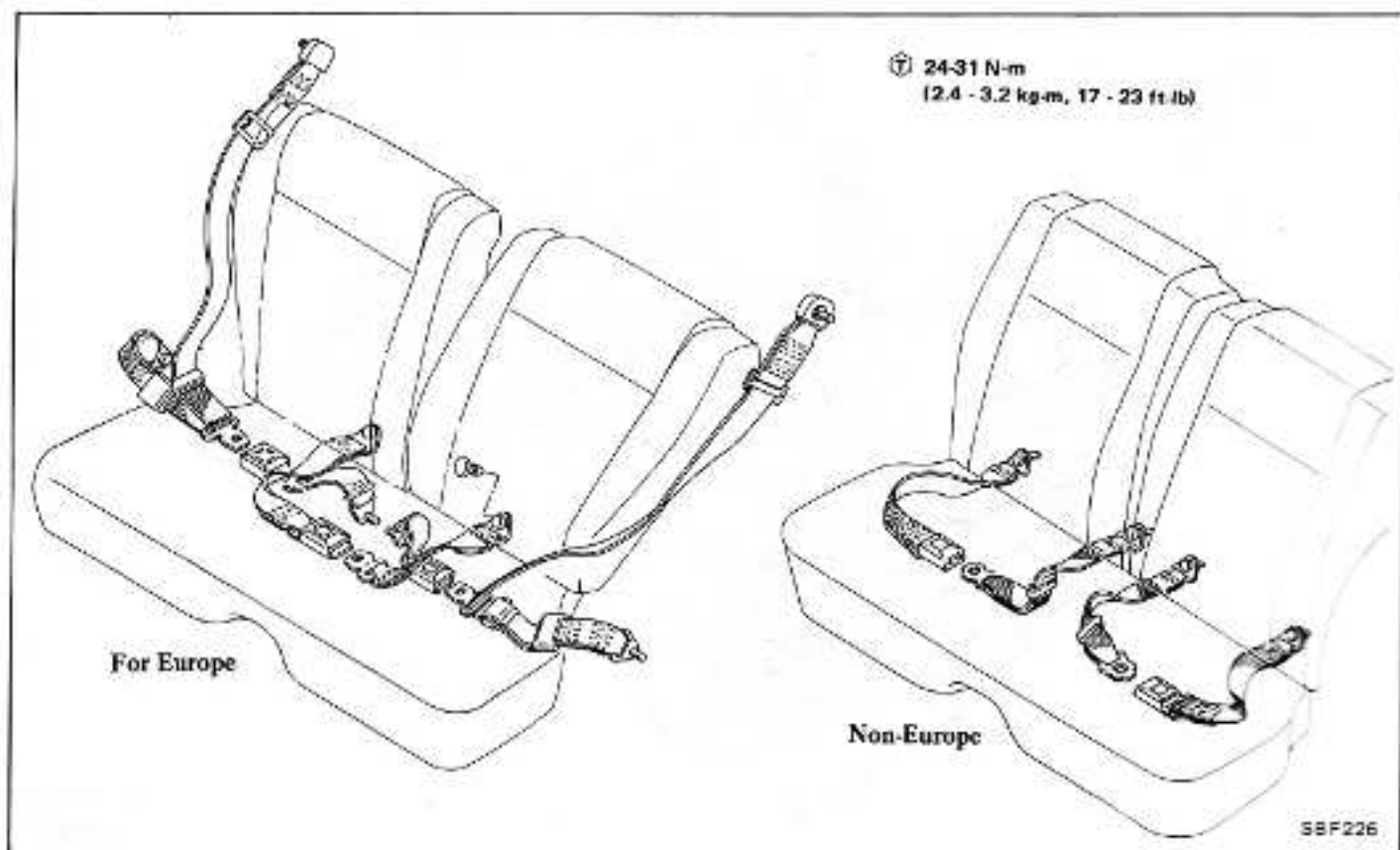
FRONT SEAT BELT



SBF211

Ⓣ : Seat belt anchorage bolt
24 - 31 N·m
(2.4 - 3.2 kg·m,
17 - 23 ft·lb)

REAR SEAT BELT



For Europe

Non-Europe

SBF226

BODY ALIGNMENT

DESCRIPTION

DIMENSION LINES

All dimensions indicated in the drawings/illustrations are the standard design values.

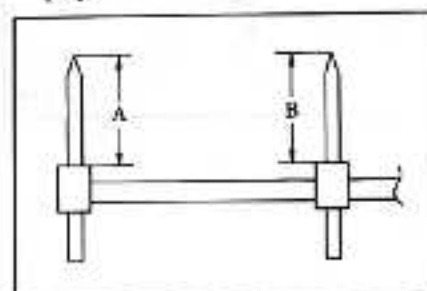
1. Black dimension line — Indicates a distance from a phantom line of the car body to a point to be measured and cannot be measured with a measuring tape or tram tracking gauge.
2. Thin line — Indicates a direct (or an actual) distance or length between two points and can be measured with a measuring tape or tram tracking gauge.

An asterisk (*) following the value at the measuring point indicates that the measuring point on the other side is symmetrically the same value.

MEASUREMENT OPERATIONS

When car body measurements are taken in accordance with the thick line, careful consideration should be given to the following points.

1. Measurement method
 - 1) When a tram tracking gauge is used, adjust pointers (A) and (B) to equal lengths as shown in the figure below. Check the pointers and gauge itself to make sure there is no free play.

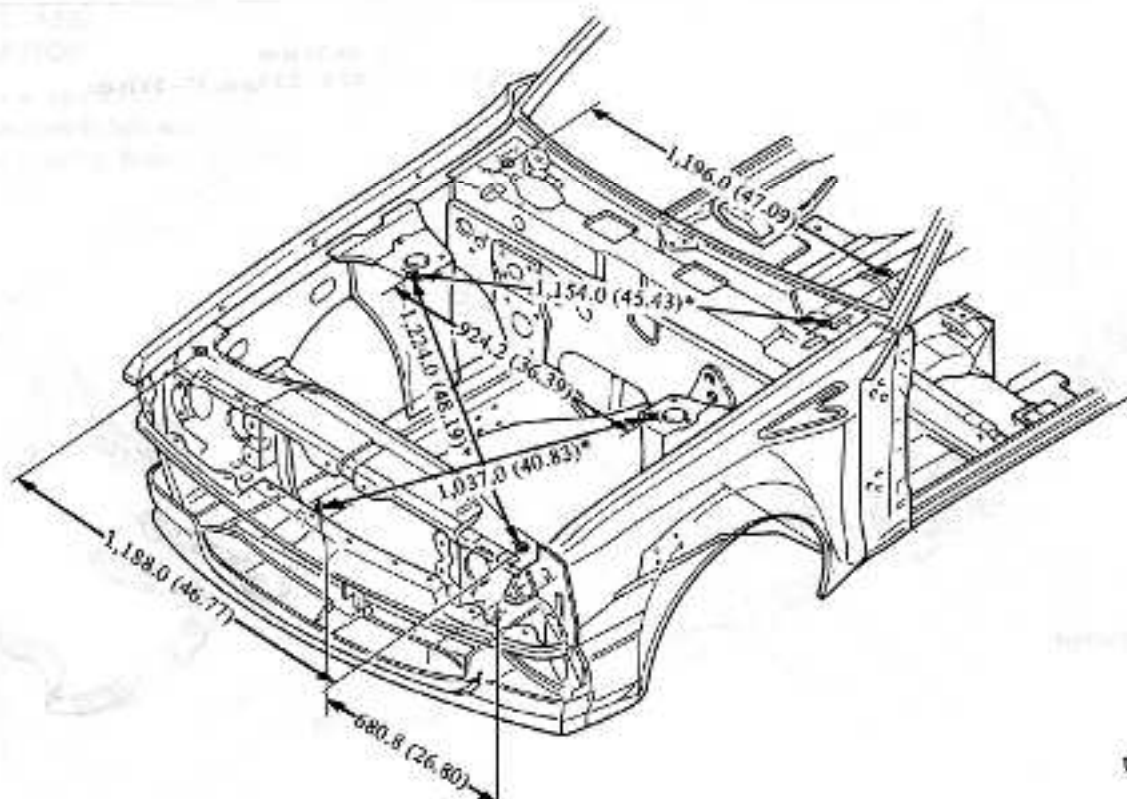


- 2) When a measuring tape is used, check to be sure there is no elongation, twisting or bending.

If a part or parts of the car body interferes with measurement when using the measuring tape, you cannot measure the distance or length accurately.

2. Measurement point
Measurements should be taken at the center of mounting holes.

ENGINE COMPARTMENT




Unit: mm (in)

BBF216

SPECIAL SERVICE TOOLS

UNDERBODY

Tool number	Tool name
ST08800000	Sucker 
ST08810000	Caulking hand gun 