SERVICE MANUAL

DATSUN
MODEL 330 SERIES
CHASSIS & BODY

NISSAN

NISSAN MOTOR CO., LTD.
TOKYO, JAPAN

SECTION BF

BODY

BF

BODY CONSTRUCTION

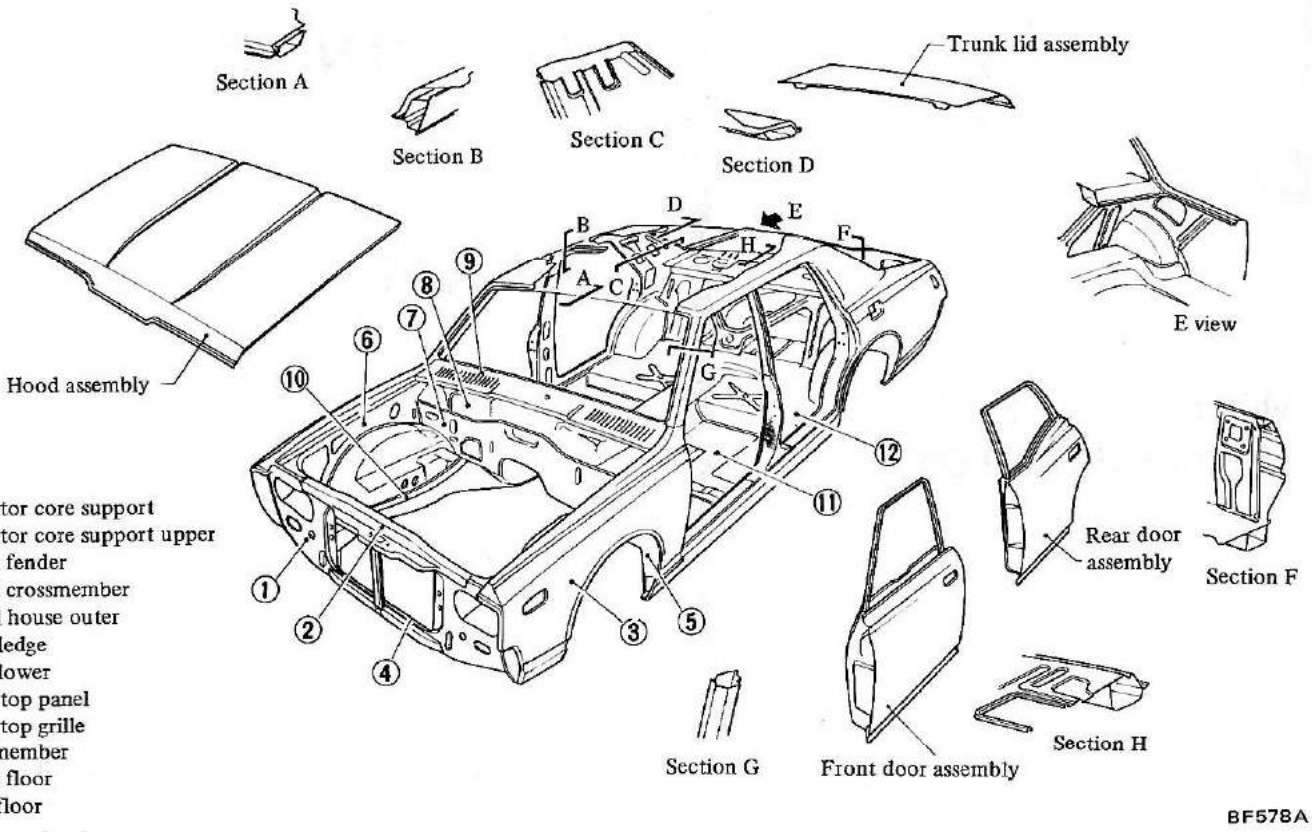


Fig. BF-1 Body construction (Sedan)

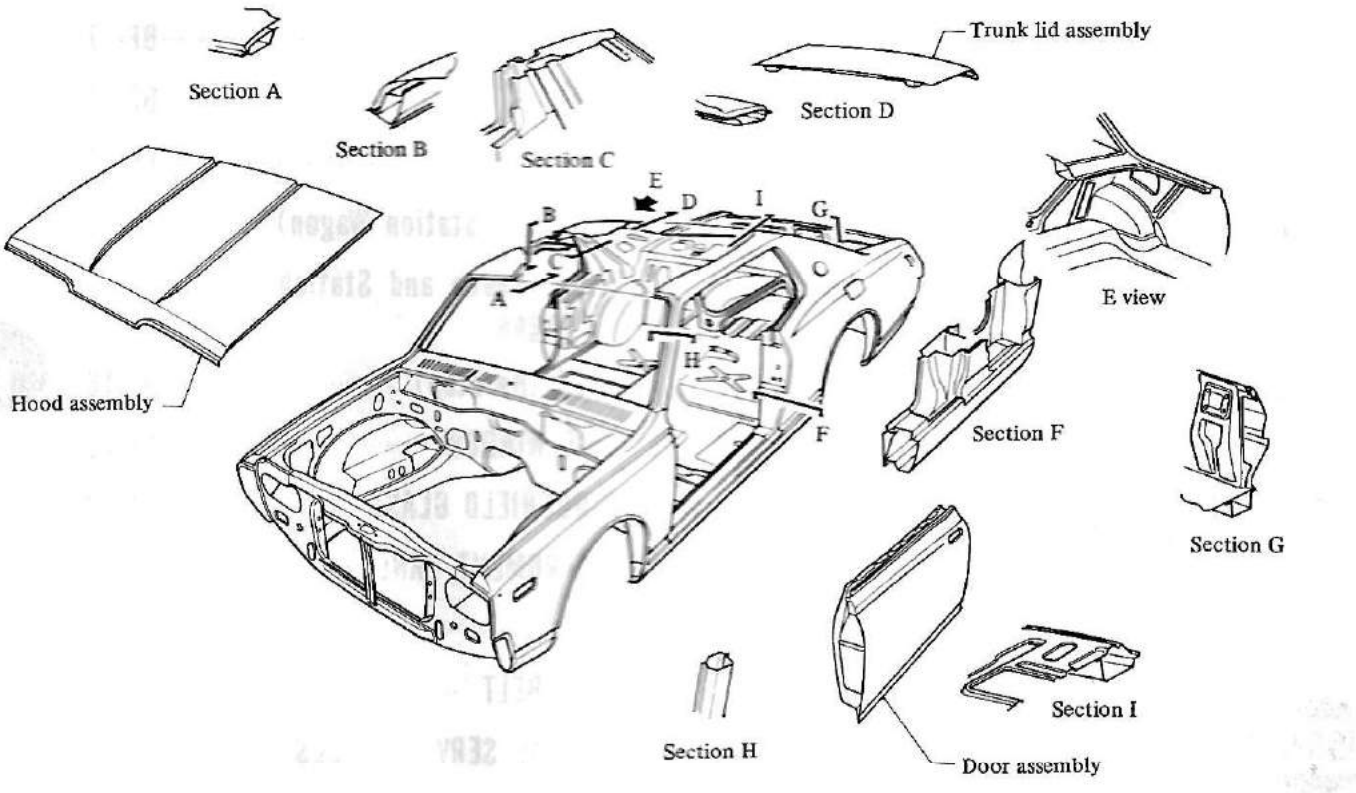


Fig. BF-2 Body construction (Hardtop)

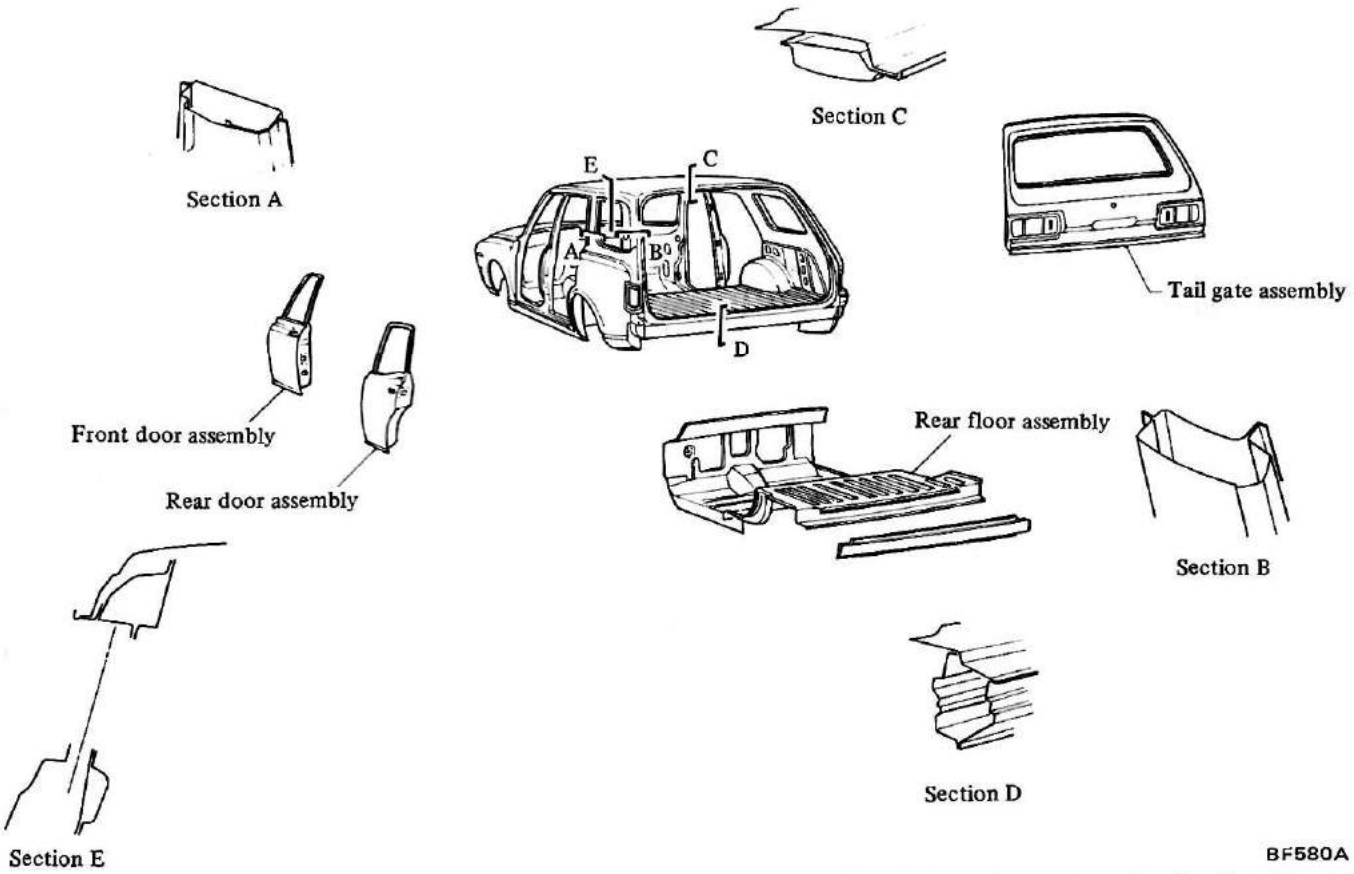
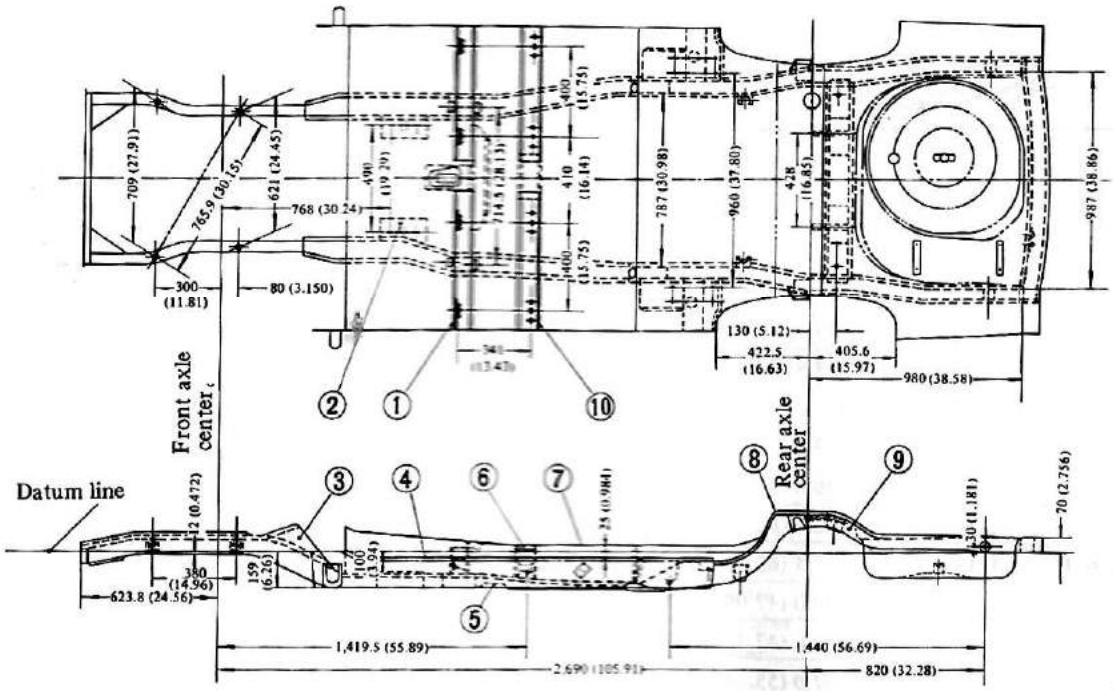


Fig. BF-3 Body construction (Station Wagon)

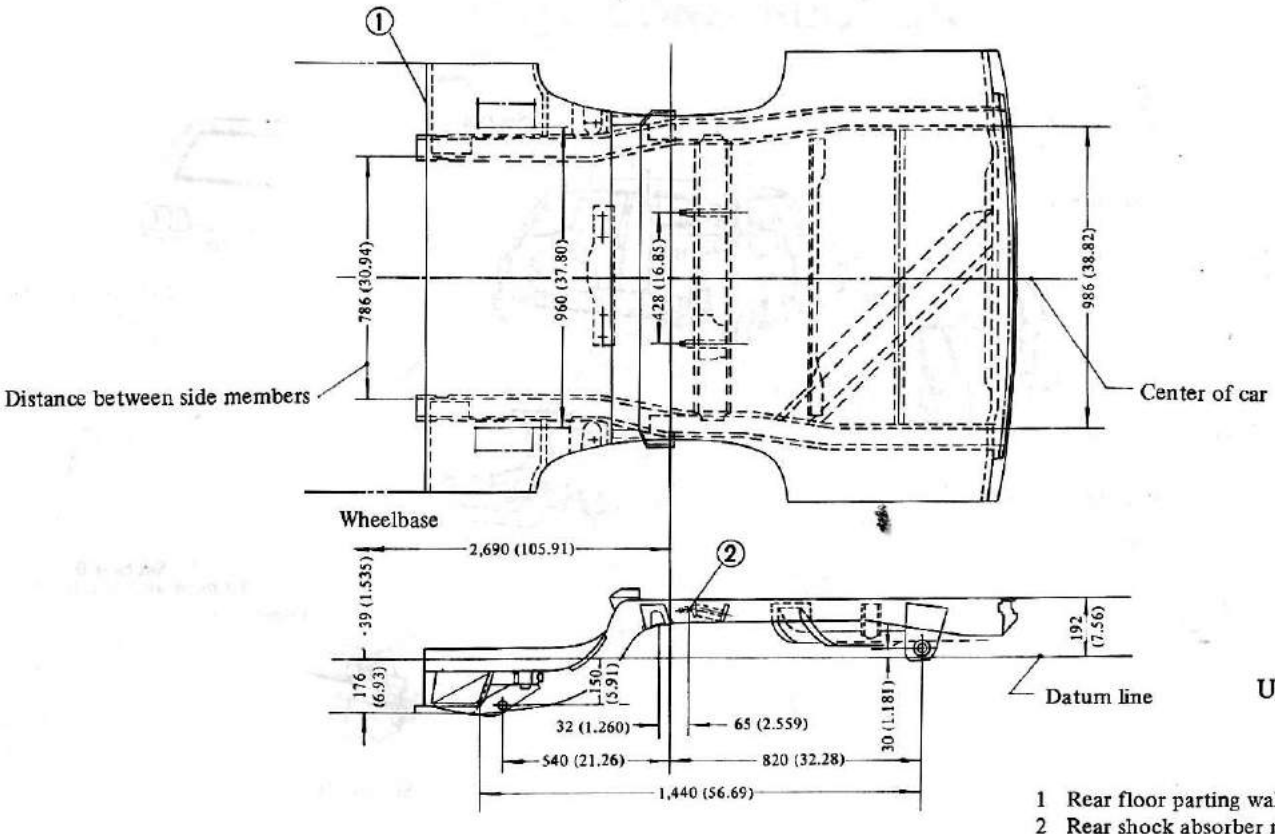
BODY ALIGNMENT



Unit: mm (in)

1 2nd crossmember
2 Rear engine mounting bracket
3 Front member assembly
4 Sill inner assembly
5 Center side member assembly
6 Center bearing reinforcement assembly
7 Front floor panel
8 Rear floor assembly
9 Rear member assembly
10 Seat mounting member assembly

Fig. BF-4 Underbody alignment (Sedan)



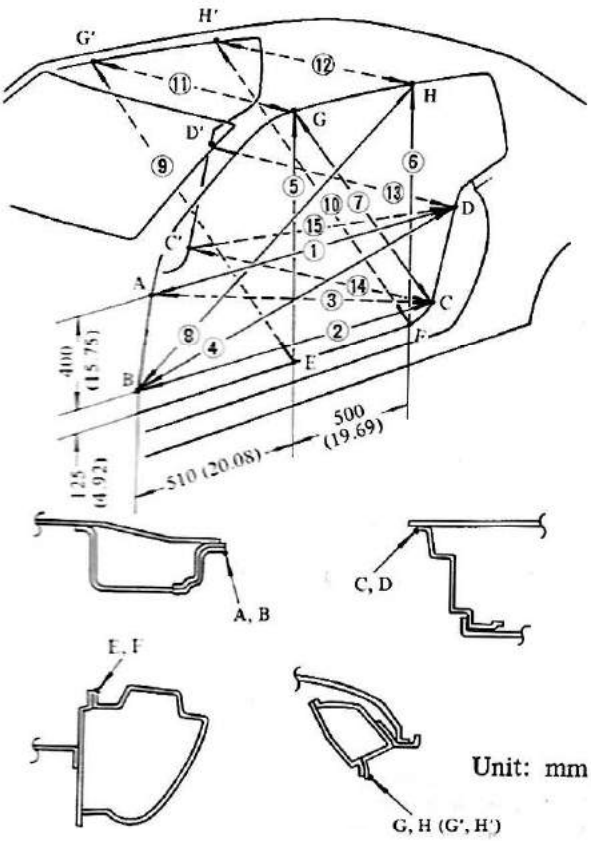
Unit: mm (in)

1 Rear floor parting wall
2 Rear shock absorber mounting point

BF582A

Fig. BF-5 Underbody alignment (Station Wagon)

No.	Measurement position	Length mm (in)
1	A to D	1,094.2 to 1,098.2 (43.08 to 43.24)
2	B to C	1,142.7 to 1,146.7 (44.99 to 45.15)
3	A to C	1,151.1 to 1,155.1 (45.32 to 45.48)
4	B to D	1,225.3 to 1,229.3 (48.24 to 48.40)
5	E to G	929.9 to 933.9 (36.61 to 36.77)
6	F to H	927.5 to 931.5 (36.52 to 36.67)
7	C to G	1,029.1 to 1,033.1 (40.52 to 40.67)
8	B to H	1,292.8 to 1,296.8 (50.90 to 51.06)
9	E to G'	1,592.7 to 1,596.7 (62.70 to 62.86)
10	F to H'	1,591.5 to 1,595.5 (62.66 to 62.81)
11	G to G'	1,196.0 to 1,200.0 (47.09 to 47.24)
12	H to H'	1,196.6 to 1,200.6 (47.11 to 47.27)
13	D to D'	1,403.0 to 1,407.0 (55.24 to 55.39)
14	C to C'	1,463.0 to 1,467.0 (57.60 to 57.76)
15	D to C'	1,487.7 to 1,491.7 (58.57 to 58.73)

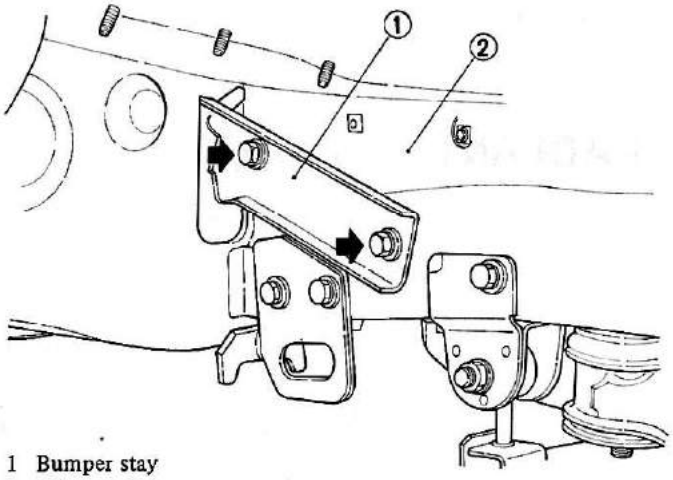


Unit: mm (in)

BF583A

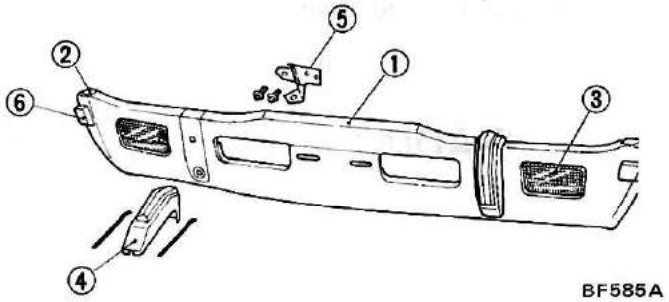
Fig. BF-6 Side body alignment (Hardtop)

BUMPER



1 Bumper stay
2 Side member

BF584A



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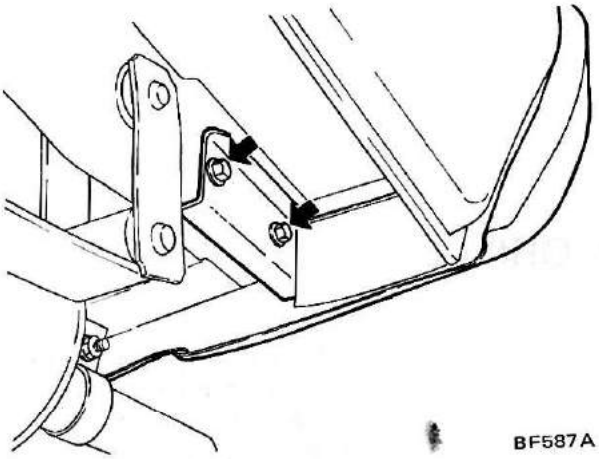
1 Bumper
2 Bumper rubber
3 Front combination lamp
4 Overrider
5 Bumper stay
6 Corner rubber

Fig. BF-7 Front bumper



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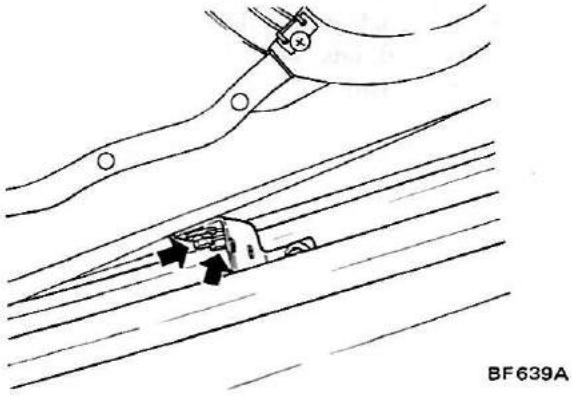
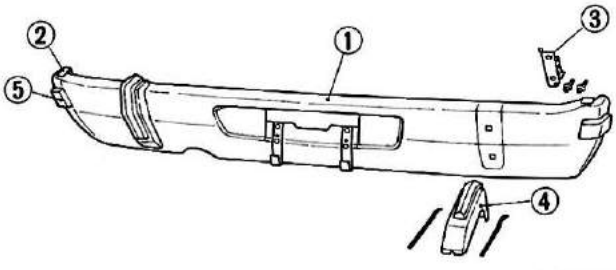


BF639A

[Station Wagon]



BF586A

[Sedan and Hardtop]

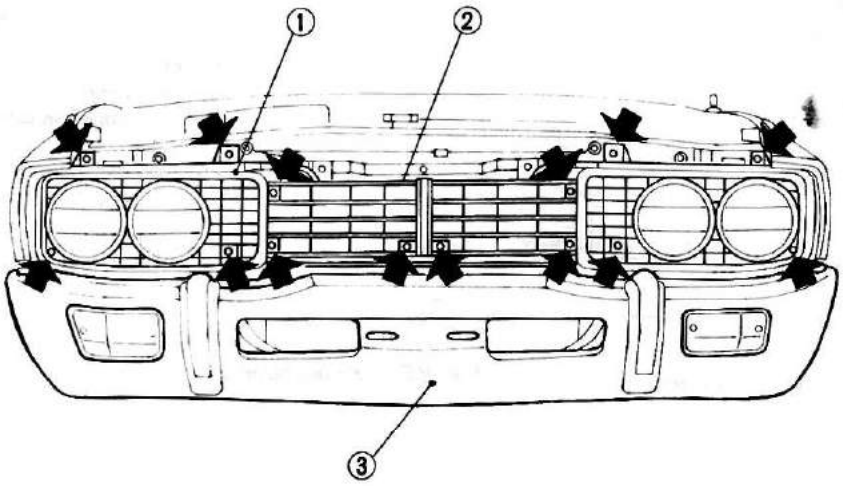
1 Rear bumper
2 Bumper rubber
3 Bumper stay
4 Overrider
5 Corner rubber

Fig. BF-8 Rear bumper

Notes:

a. Use extreme care to avoid damaging painted surfaces of fenders.
b. Make "fore and aft" adjustment to provide proper fit to front end. Also check for even clearance between radiator core support and fender.
c. Prior to removing front bumper, remove front combination lamp harness connector.
d. Prior to removing rear bumper, remove license plate.

RADIATOR GRILLE AND HEADLAMP FINISHER



1 Headlamp finisher
2 Radiator grille
3 Front bumper

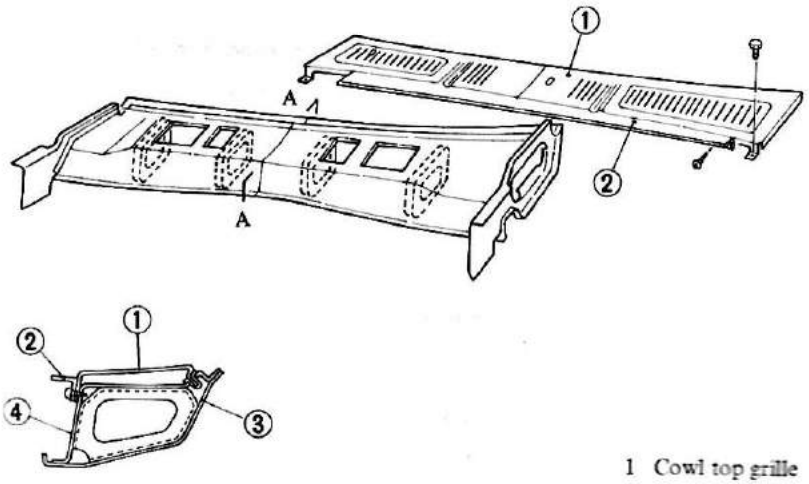
BF588A

Fig. BF-9 Radiator grille and headlamp finisher

Notes:

a. Radiator grille and headlamp finisher are made of plastic, thus never use excessive force on them.
b. Take care to keep any oil away from radiator grille and headlamp finisher.
c. When removing radiator grille and headlamp finisher, front bumper need not be removed.

COWL TOP GRILLE



Section A

BF589A

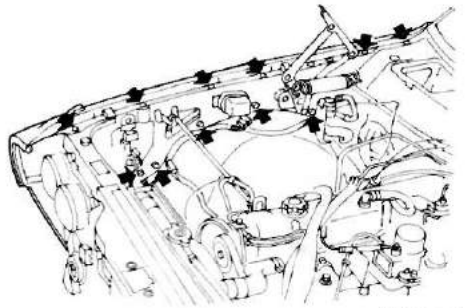
1 Cowl top grille
2 Sealing rubber
3 Dash upper panel
4 Cowl top panel

Fig. BF-10 Cowl top grille

Notes:

a. Prior to removing cowl top grille, remove wiper arms.
b. Take care to avoid damaging fender and painted surfaces while removing cowl top.

FRONT FENDER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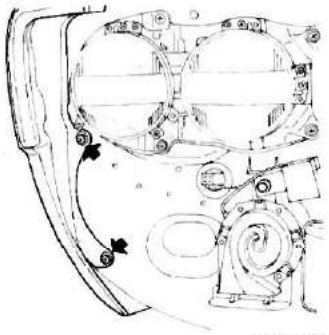
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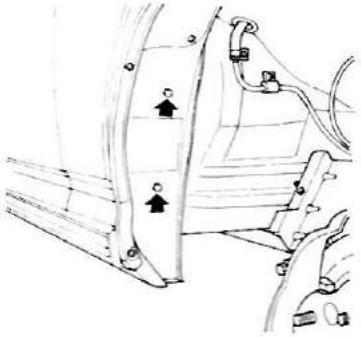
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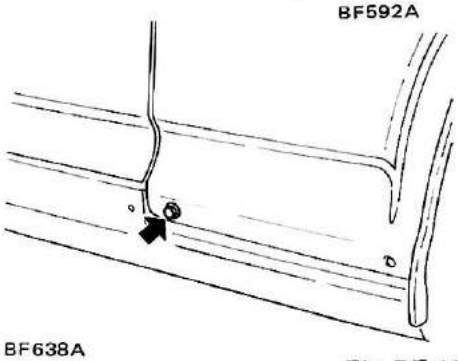

BF638A

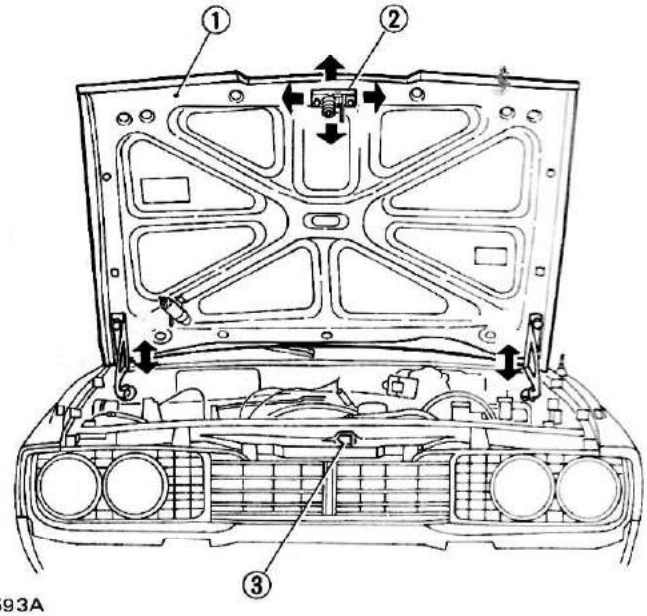
Fig. BF-11 Front fender

REMOVAL AND INSTALLATION

1. Remove cowl top grille, front bumper, radiator grille, headlamp finisher and sill molding.
2. Take out electric fuel pump (Right fender) or power antenna (Left fender).
3. Remove bolts attaching fender to hoodledge and radiator core support.
4. Installation is in reverse order of removal.

Note: When installing fenders, be careful not to damage windshield wiper tube and fuel hose which goes to electric fuel pump.

HOOD



BF593A

1 Hood
2 Hood lock male
3 Hood lock female

Fig. BF-12 Hood

HOOD

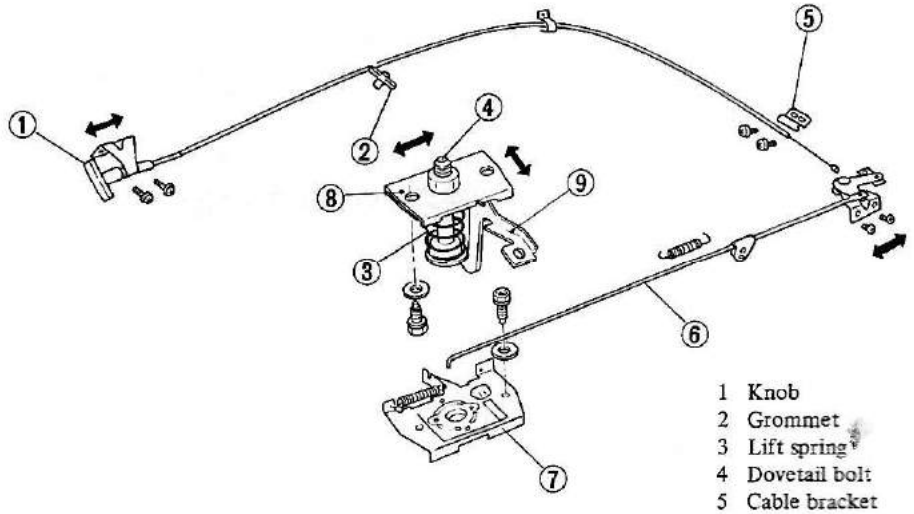
REMOVAL AND INSTALLATION

1. Holding hood on both sides, unscrew bolts securing hinges to hood, and remove hood. This operation requires two men.
2. Install hood in reverse order of removal.

ADJUSTMENT

Adjust bolts securing left and right hinges to hood until clearances between fenders and hood are same. See Figure BF-12. If necessary, make a hood lock adjustment as described later.

HOOD LOCK CONTROL



1 Knob
2 Grommet
3 Lift spring
4 Dovetail bolt
5 Cable bracket
6 Rod
7 Hood lock female
8 Hood lock male
9 Safety catch

Fig. BF-13 Hood lock control

REMOVAL AND INSTALLATION

1. Remove cable bracket installation bolts and cable clip, take off grommet, and draw cable out through passenger compartment.
2. Remove hood lock control rod assembly, hood lock female and male.
3. Installation is in reverse order of removal.

ADJUSTMENT

1. To align hood lock, move hood lock male in directions of arrow in Figure BF-13.
2. Shorten length of dovetail to eliminate hood rattle, lengthening it as necessary if hood lock operates sluggishly.
3. Tighten dovetail bolt lock nut.

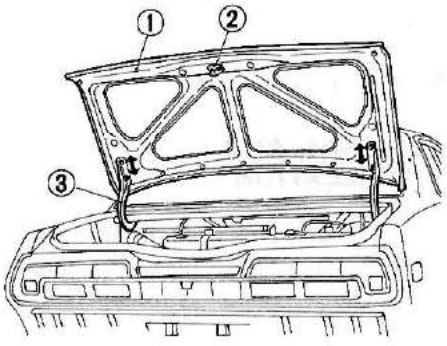
Tightening torque:
Dovetail bolt lock nut:
3.6 to 4.8 kg-m
(26 to 35 ft-lb)

4. Make sure that safety catch snaps in locking position and that female guide operates smoothly.
5. Make hood lock control adjustment in directions of arrow mark in Figure BF-13.

Notes:
a. **The play of each jointed point should be 1 mm (0.0394 in).**
b. **Make sure that control wire slackens as little as possible.**

TRUNK LID

TRUNK LID



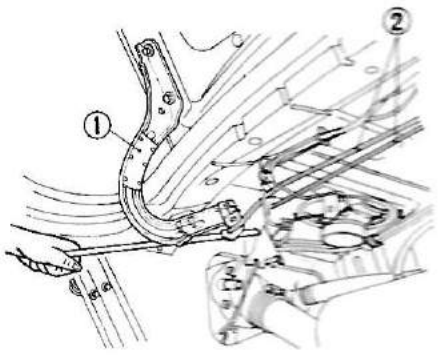
1 Trunk lid
2 Striker
3 Trunk lid hinge

Fig. BF-14 Trunk lid

Notes:
a. **Be careful not to damage surfaces of fenders.**
b. **Adjust trunk lid fore and aft and/or up and down to maintain uniform clearance between trunk lid and rear fenders.**

TORSION BAR

REMOVAL AND INSTALLATION

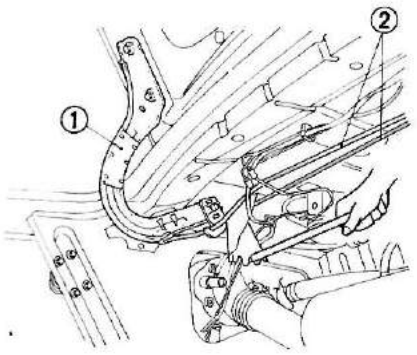


1 Trunk lid hinge
2 Torsion bar

Fig. BF-15 Removing torsion bar

ADJUSTMENT

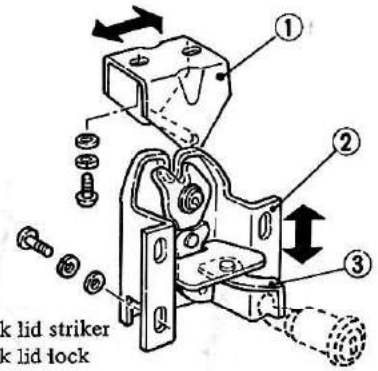
Using a pipe, free torsion bar from trunk lid hinge; move hook as required until correct adjustment is reached.



1 Trunk lid hinge
2 Torsion bar

Fig. BF-16 Adjusting torsion bar

LOCK AND STRIKER



1 Trunk lid striker
2 Trunk lid lock
3 Key lever

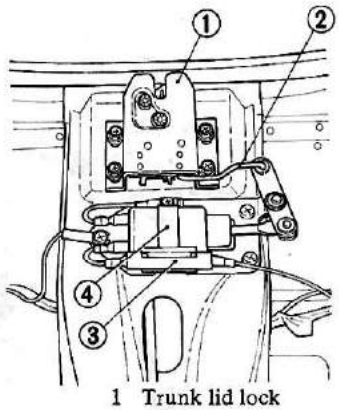
BF598A

Fig. BF-17 Lock and striker

ADJUSTMENT

Adjust trunk lid lock up and down, and trunk lid striker right and left.

TRUNK LID OPENER (OPTION)



1 Trunk lid lock
2 Connecting rod
3 Circuit breaker
4 Trunk opener solenoid

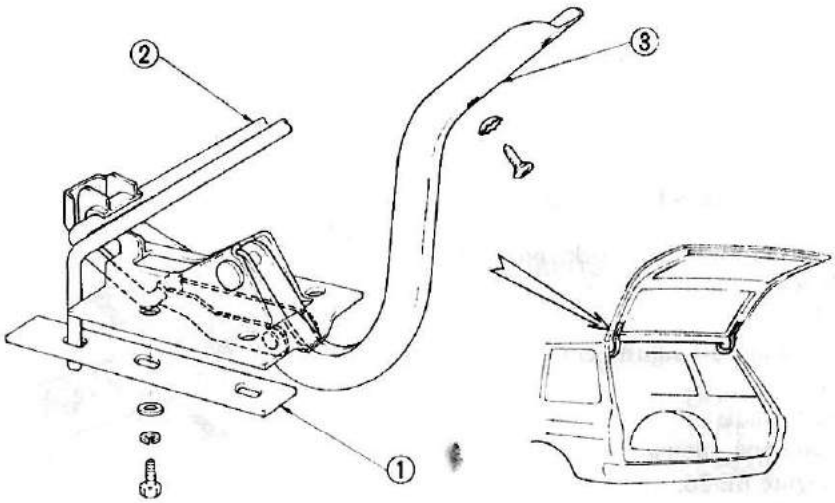
BF599A

Fig. BF-18 Trunk lid opener

Notes:

a. Refer to Section BE for electrical details.
b. Position of trunk opener need not be adjusted.
c. Trunk opener attaching screws are grounded. Be sure to tighten attaching screws securely.

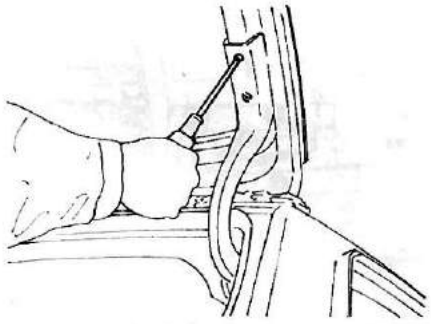
TAILGATE (Station Wagon)



1 Tortion bar hook
2 Tortion bar
3 Tail gate hinge

BF285

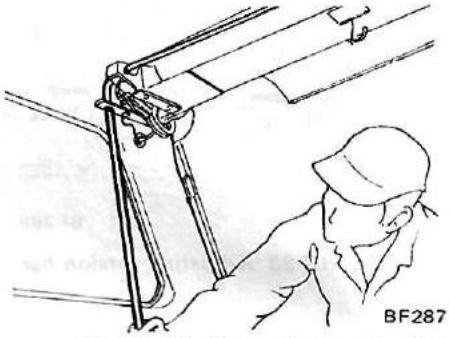
Fig. BF-19 Tailgate



BF286

Fig. BF-20 Removing tailgate

2. Remove torsion bar cover.



BF287

Fig. BF-21 Removing torsion bar

3. Holding torsion bar spring with a pipe, remove torsion bar hook by unscrewing bolts securing it to inner roof panel.

TAILGATE

REMOVAL AND INSTALLATION

1. With tailgate fully opened, remove gate from gate hinge.

Notes:

a. Place rags between roof and upper end of tailgate to avoid damaging painted surfaces.
b. Mark location of hinge on tailgate so that original adjustment can be restored.

Notes:

a. Use care not to damage head lining when removing torsion bar hook.
b. Use a pipe of 11.5 to 13 mm (0.433 to 0.512 in) in inside diameter and 600 mm (23.6 in) in length to hold torsion bar.

4. Take out hinge complete with torsion bar.

HINGE AND TORSION BAR

ADJUSTMENT

1. Remove tailgate hinge cover.
2. Adjust hinge and tailgate by moving them in arrow directions. Tighten nuts after correct adjustment is reached.

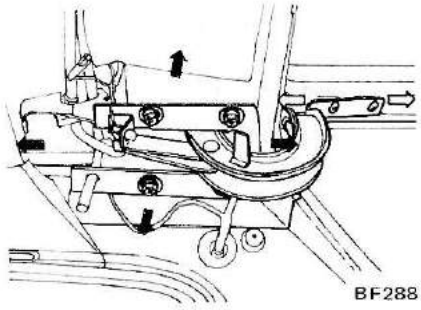


Fig. BF-22 Adjusting tailgate hinge

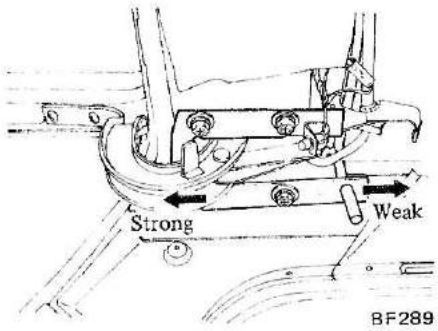
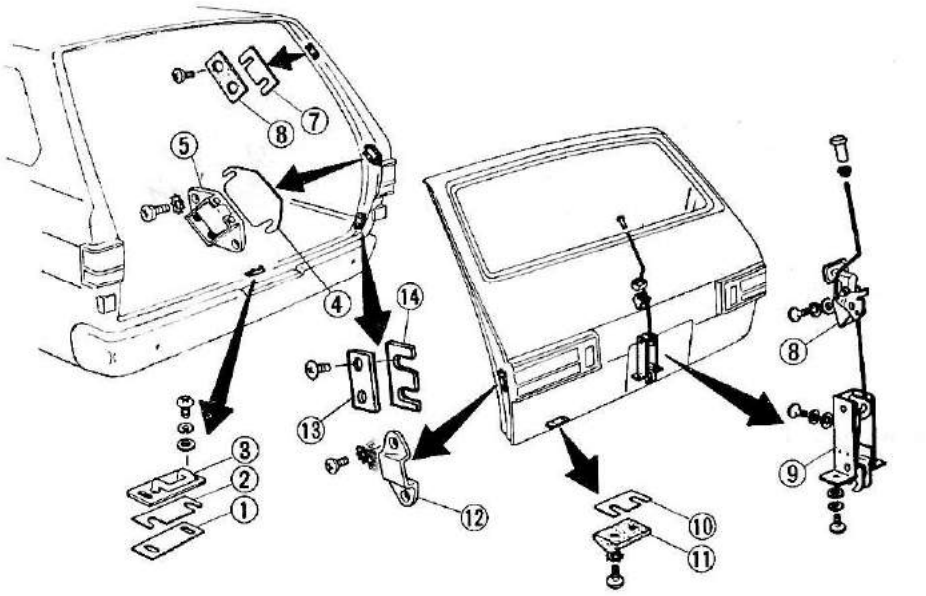


Fig. BF-23 Adjusting torsion bar

3. Spring adjustment can be made through the use of slotted holes in torsion bar hook.

Adjustment.... ±5 mm (0.1969 in)

TAILGATE LOCK



1 Friction plate
2 Adjusting shim
3 Tailgate striker
4 Striker spacer
5 Tailgate striker assembly
6 Upper bumper rubber
7 Upper bumper rubber spacer
8 Tailgate lock remote control
9 Tailgate lock assembly
10 Bumper rubber spacer
11 Bumper rubber
12 Tailgate side striker
13 Lower bumper rubber
14 Lower bumper rubber spacer

Fig. BF-24 Tailgate lock

ADJUSTMENT

To adjust tailgate lock, proceed as follows.

Striker ...
Fore and aft adjustment. See Figure BF-25.

Inside handle ...
Up and down adjustment. See Figure BE-26.

Key cylinder push rod ...
In and out adjustment. See Figures BF-27 and BF-28.

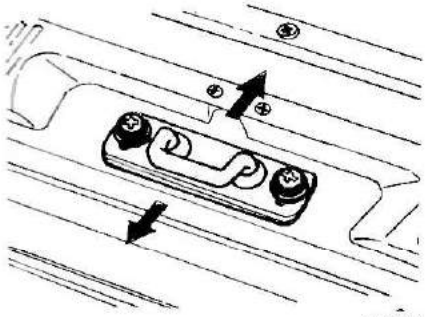


Fig. BF-25 Adjusting striker

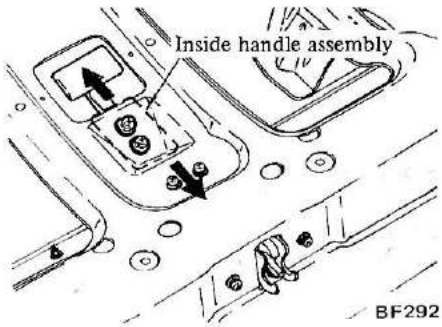


Fig. BF-26 Adjusting inside handle

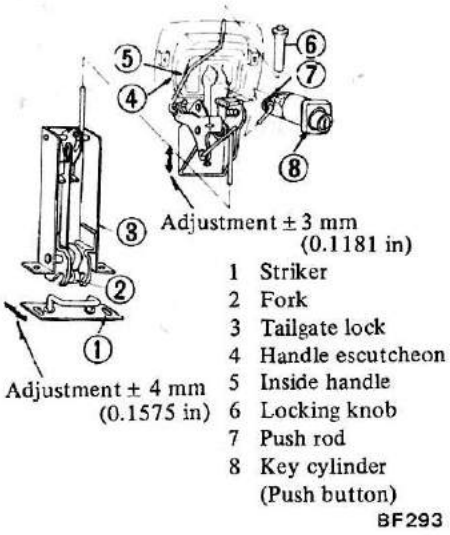


Fig. BF-27 Tailgate lock construction

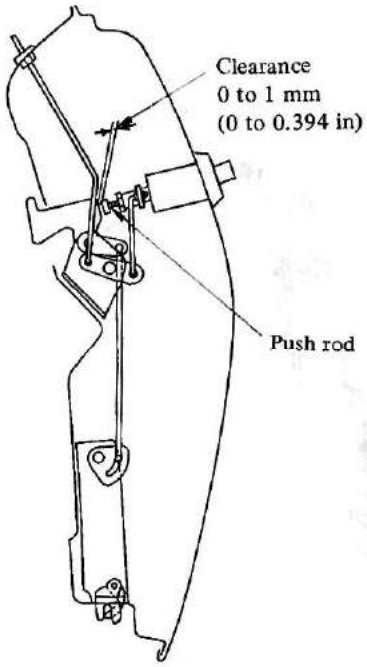


Fig. BF-28 Adjusting push rod

DOOR (Sedan and Station Wagon)

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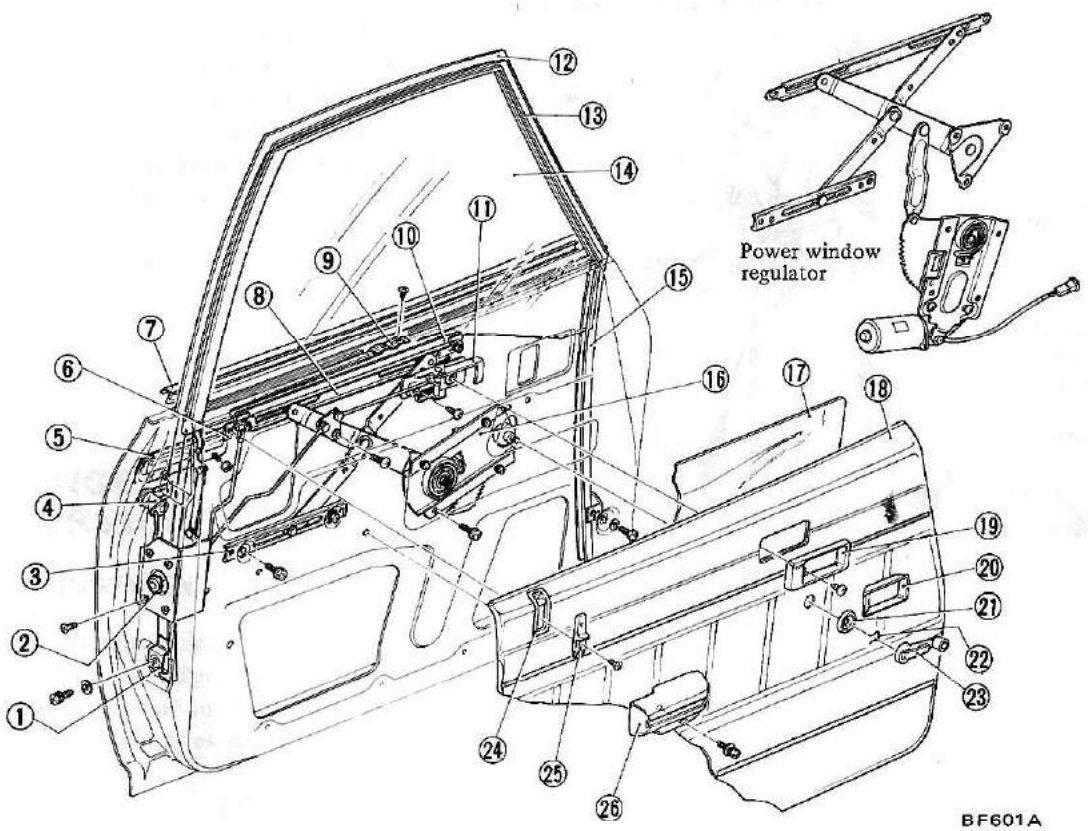
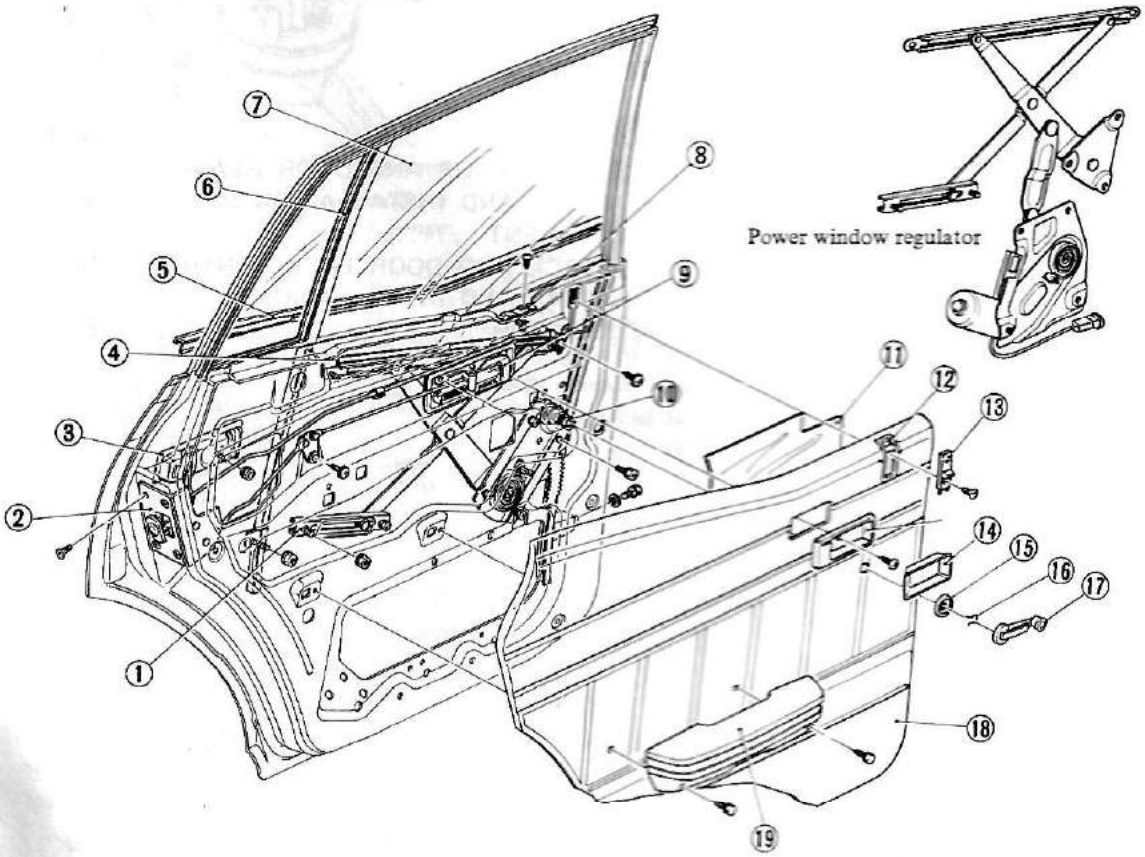


1 Rear lower sash
2 Door lock
3 Regulator channel (panel side)
4 Key cylinder
5 Outside handle
6 Tapping plate
7 Outside molding
8 Regulator channel (glass side)
9 Glass guide
10 Bottom channel
11 Inside handle
12 Door sash
13 Glass run rubber
14 Door glass
15 Front lower sash
16 Regulator assembly
17 Sealing screen
18 Door finisher
19 Inside handle escutcheon
20 Escutcheon cover
21 Seating washer
22 Handle retainer
23 Regulator handle
24 Door lock knob escutcheon
25 Door lock knob
26 Arm rest

Fig. BF-29 Front door (Sedan and Station Wagon)



1 Guide channel
2 Door lock
3 Outside handle
4 Guide channel
5 Outside molding
6 Rear door part sash
7 Door glass
8 Glass guide
9 Inside handle
10 Regulator
11 Sealing screen
12 Lock knob escutcheon
13 Lock knob
14 Inside handle escutcheon cover
15 Seating washer
16 Retainer
17 Regulator handle
18 Door finisher
19 Arm rest

Fig. BF-30 Rear door (Sedan and Station Wagon)

DOOR

REMOVAL AND INSTALLATION (Models equipped with manual windows)

1. Open door fully and support it with a stand or jack.

Note: Place a rag between door and stand or jack to protect door panel from scarring.

2. Remove door side installation bolts from hinges and remove door from hinges.
3. Install door in reverse order of removal.

Tightening torque:
Hinge to door panel attaching bolts:
1.6 to 2.2 kg-m
(11.6 to 16.0 ft-lb)

Notes:
a. **Before installing door, be sure to apply grease to hinge link.**
b. **If door squeaks when it is opened or closed, oil hinge pin top.**

REMOVAL AND INSTALLATION (Models equipped with power operated windows)

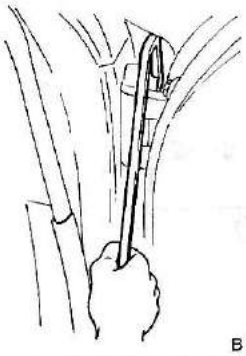
1. Remove armrest, inside handle escutcheon cover, inside handle escutcheon, belt grip, door finisher and sealing screen, then disconnect wiring connectors at power window motor, power window switch and step lamp (employed in rear window only). Further, remove clips and grommet from door panel to work wiring harness outside door.
2. Remove door, following steps 1 and 2 for door with manually-operated window.
3. Install door in reverse order of removal.

Tightening torque:
Hinge to door panel attaching bolts:
1.6 to 2.2 kg-m
(11.6 to 16.0 ft-lb)

Notes:
a. **When installing, fasten wiring harness with clips, being careful not to allow it to bind in regulator gear.**
b. **Be sure to seal sealing screen after all operations have been completed.**
c. **Before installing door, be sure to apply grease to hinge link.**
d. **If door squeaks when it is opened or closed, oil hinge pin top.**

ADJUSTMENT

1. Door hinges can be adjusted up and down or fore and aft to provide proper door fit to body opening.
Use Door Adjusting Wrench KV99100100 (front door only).



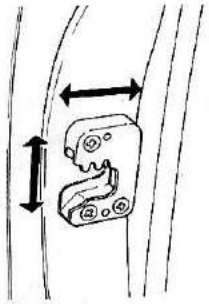
BF603A

Fig. BF-31 Adjusting door

Adjusting range:
Fore and aft:
4 mm (0.157 in)
Up and down:
4 mm (0.157 in)
Tightening torque:
Hinge to body attaching bolts:
1.6 to 2.2 kg-m
(11.6 to 16.0 ft-lb)

2. Door "in and out" adjustment as well as door lock adjustment are accomplished by changing location of door lock striker on body pillar.

Tightening torque:
Door lock striker installation bolts:
0.8 to1.1 kg-m
(5.8 to 8.0 ft-lb)



BF604A

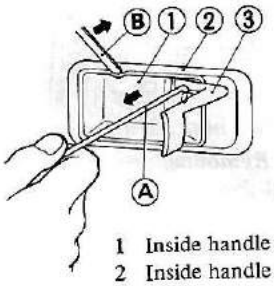
Fig. BF-32 Adjusting door lock striker

Note: Do not attempt to use door lock to accomplish any adjustment.

DOOR REGULATOR AND DOOR GLASS

REMOVAL AND INSTALLATION

1. Remove armrest, regulator handle (manual regulator type only), belt grip, inside handle escutcheon cover, inside handle escutcheon, door finisher and sealing screen.



1 Inside handle escutcheon cover
2 Inside handle escutcheon
3 Inside handle

BF605A

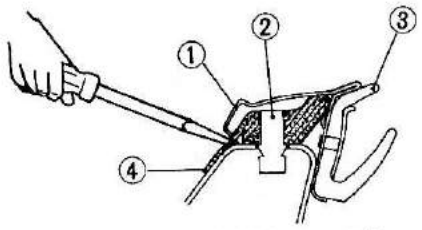
Fig. BF-33 Removing inside handle escutcheon

To facilitate removal of inside handle escutcheon cover, attach a tool (like Ⓐ shown in Figure BF-33) to notch in cover and, with inside handle pulled back, pull it in direction shown by arrow.

Never remove escutcheon cover in manner Ⓑ, or escutcheon or cover will be scratched.

2. Remove outside molding and glass guide.

To remove outside molding, place a screwdriver between door panel and outside molding and pry it off. To prevent scratching panel with screwdriver, attach gum tape to panel beforehand.



BF606A

1 Outside molding
2 Clip
3 Weatherstrip
4 Gum tape

Fig. BF-34 Removing outside molding

3. Loosen front and rear sash attaching screws.
4. Back off nuts securing glass guide to glass side guide channel in place.
5. Take out door window glass.

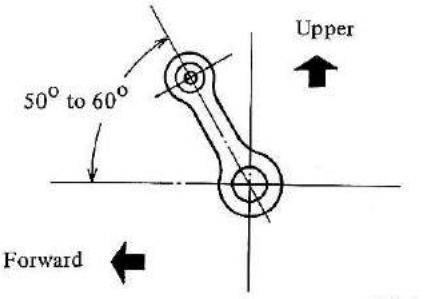
BF607A

Fig. BF-35 Removing door window glass

6. Remove bolts securing main arm base (power window type only), regulator base plate and panel side guide channel.
7. Draw window regulator out through opening of inside door panel.
8. Installation is in reverse order of removal.

Notes:

a. **Check balance spring, gear and power window motor for damage. (Power window type only)**
b. **When installing or removing window regulator, be careful not to damage breather tube. (Power window type only)**
c. **Set regulator handle at angle of fully raised window glass.**

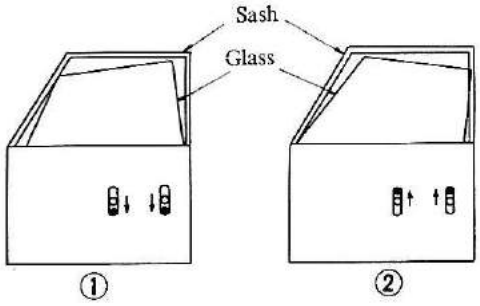


BF608A

Fig. BF-36 Regulator handle set angle

ADJUSTMENT

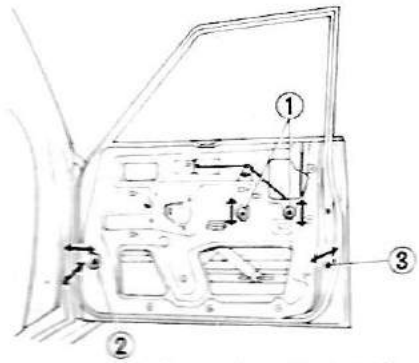
Front door



BF609A

Fig. BF-37 Adjustment by panel side guide channel

1. To correct a condition where glass is cocked in guide channel, as in ① in Figure BF-37, raise panel side guide channel as required.
2. To adjust a condition as in ② in Figure BF-37, lower panel side guide channel as necessary.

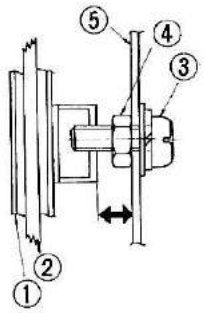


1 Panel side guide channel adjusting screw
2 Front sash adjusting screw
3 Rear sash adjusting screw

BF610A

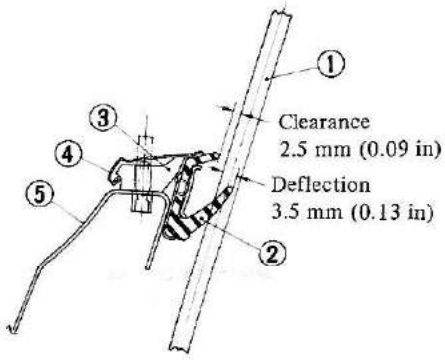
Fig. BF-38 Adjustment of window glass

3. To adjust front glass "in or out", move front sash backward.
4. Turn adjust screw at lower end of front sash in or out until distance "↔" is adjusted to provide correct glass fit to door.



1 Front lower
2 Door glass
3 Adjust screw
4 Lock nut
5 Door inside panel

BF304



1 Door glass
2 Weatherstrip
3 Beading clip
4 Outside molding
5 Outer panel

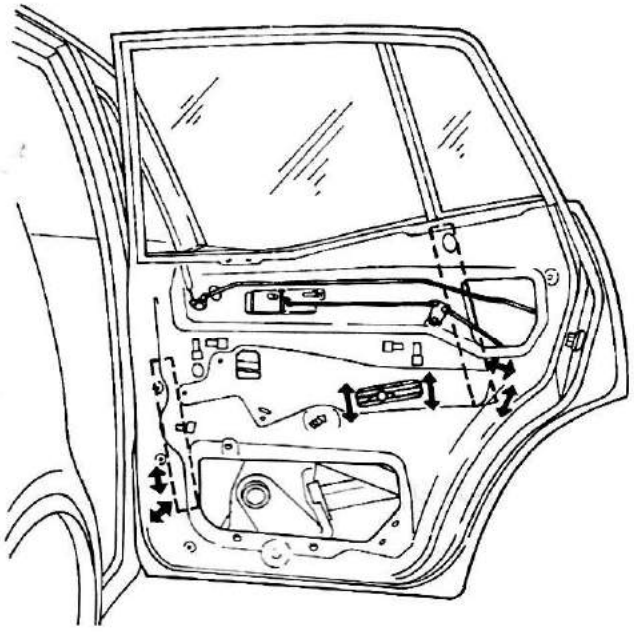
Fig. BF-39 Adjustment by front lower sash

5. Adjust angle of rear sash as required. See Figure BF-38.

Note: **Be careful in adjusting by door sash, since this affects force with which window regulator is cranked.**

Rear door

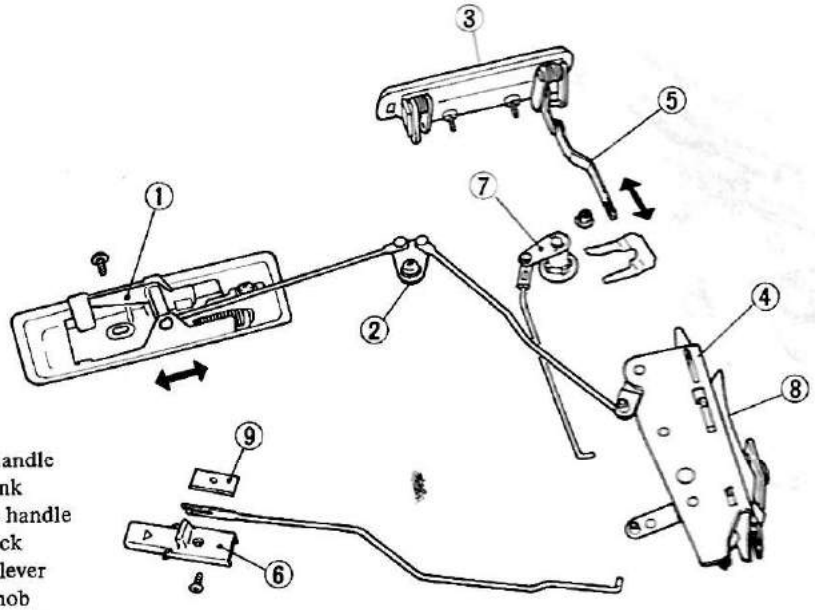
After glass parallelism has been properly adjusted, make in and out and fore and aft adjustments with rear door partition sash, then adjust rear door sash to glass.



BF611A

Fig. BF-40 Adjusting rear door window glass

DOOR LOCK AND DOOR LOCK CONTROL



1 Inside handle
2 Bell crank
3 Outside handle
4 Door lock
5 Handle lever
6 Lock knob
7 Key cylinder
8 Seating rubber
9 Tapping plate

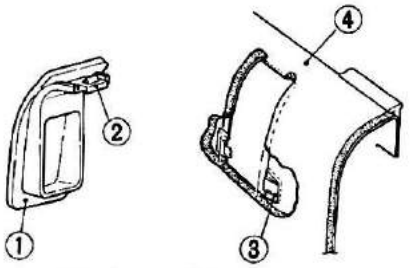
BF612A

Fig. BF-41 Door lock and door lock control

REMOVAL AND INSTALLATION

1. Remove armrest, regulator handle (manual window type only), belt grip, inside handle escutcheon cover, inside handle escutcheon, door finisher and sealing screen.
2. Disconnect connection between outside lock lever and outside handle lever.
3. Disconnect nylon clip fixing key rod to door lock lever.
4. Remove inside handle and door lock as an assembly.
5. Installation is in reverse order of removal.

a. Installation of lock knob escutcheon.



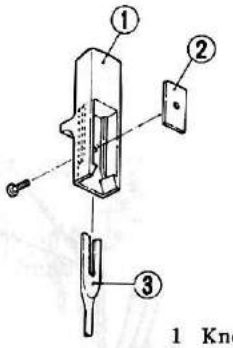
1 Lock knob escutcheon
2 Clip "A"
3 Clip "B"
4 Door finisher

BF613A

Fig. BF-42 Lock knob escutcheon

(1) Fix clip "A" to lock knob escutcheon.
(2) Secure clip "B" to door finisher.
(3) Fit upper (clip A) side of escutcheon into door finisher first, and then depress escutcheon.

b. Installation of lock knob.



1 Knob
2 Tapping plate
3 Knob rod

BF614A

Fig. BF-43 Lock knob

(1) Snugly secure tapping plate to knob, and install over knob rod.
(2) Put knob in at knob escutcheon and secure door finisher in place.

(3) With knob locked, set upper face of lock knob 2 mm (0.079 in) below upper face of escutcheon and tighten screws securely.

c. Install assembly of seating rubber and lock unit on door panel.

ADJUSTMENT

Adjustment of outside handle

A nut is used to secure connecting handle link to outside lever.

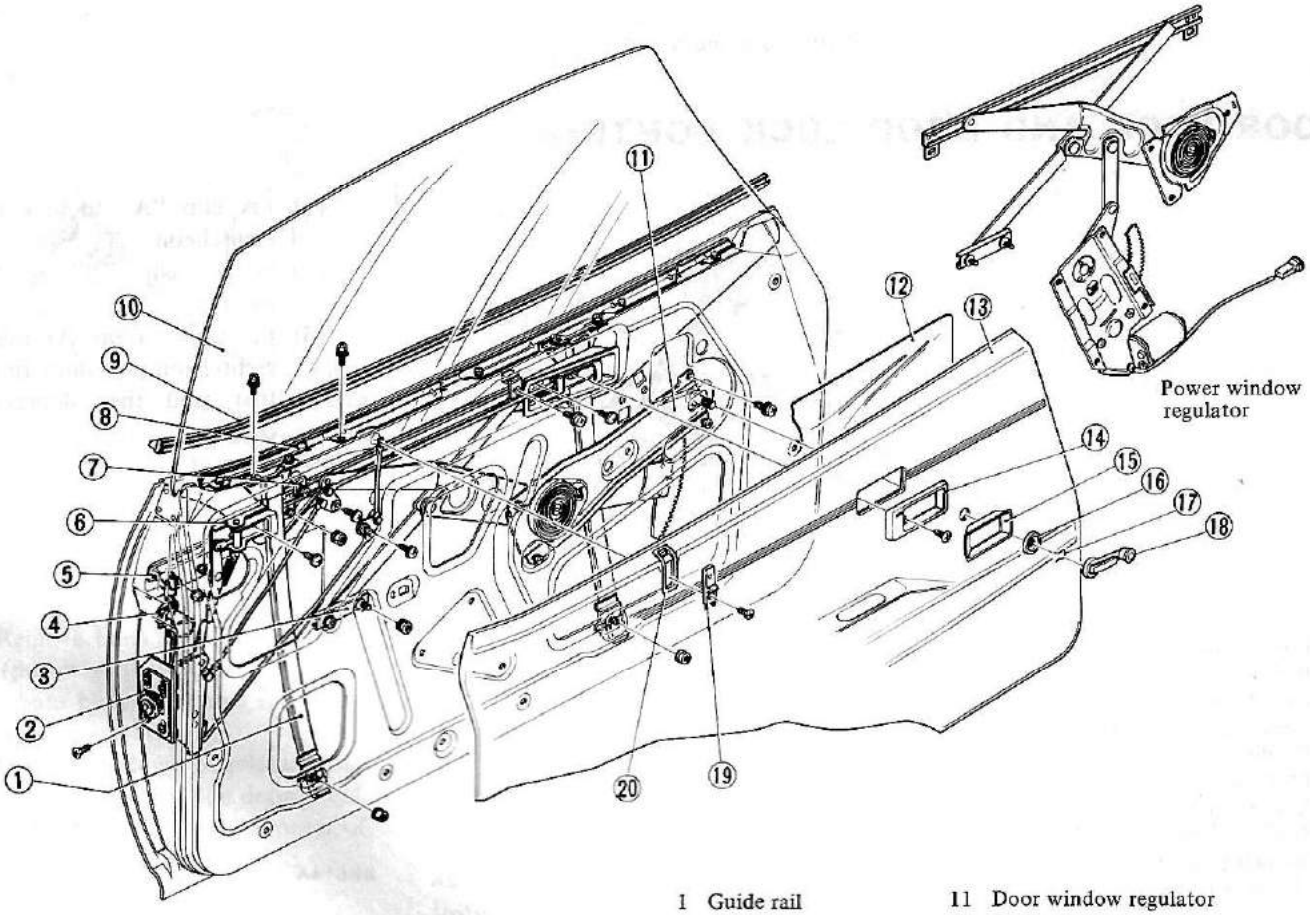
To adjust, loosen nut, place outside handle and door lock side lever in "free" position, and then tighten nut securely.

Adjustment of inside handle

Inside handle can be adjusted by shifting it in fore and aft direction on inside door panel. This will eliminate play in remote control rod.

Note: Do not force inside lever or it might be pulled out and bent.

DOOR (Hardtop)



1 Guide rail
2 Door lock
3 Roller guide
4 Key cylinder
5 Outside handle
6 Passenger handle
7 Upper stopper
8 Inner seal
9 Outside molding
10 Door glass
11 Door window regulator
12 Sealing screen
13 Door finisher
14 Inside handle escutcheon
15 Inside handle escutcheon cover
16 Seating washer
17 Retainer
18 Regulator handle
19 Lock knob
20 Lock knob escutcheon

BF615A

Fig. BF-44 Front door (Hardtop)

DOOR

REMOVAL AND INSTALLATION

Follow same basic procedures as for front doors of Sedan.

Even if manual regulator type window is equipped, harness connectors inside door on driver's side must be disconnected in same manner as in power window of Sedan.

To remove step lamp harness on front passenger side, remove grommet on front pillar side. Harness connector can then be disconnected from pillar side.

ADJUSTMENT

1. Place rags between door glass and door panel, and between side glass and side panel at rear of fender, to insure positive retention of door glass.
2. Door lock adjustment can be made at striker plate.
3. Vertical adjustment can be made at door hinge.

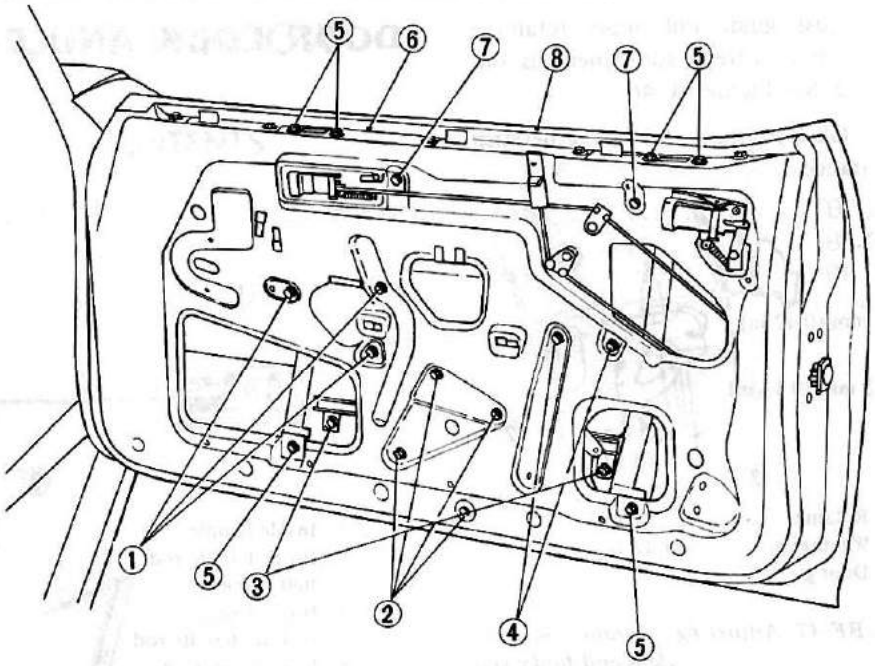
Notes:

a. **Use Door Adjusting Wrench KV99100100.**

Tightening torque:
Hinge to body attaching bolts:
1.6 to 2.2 kg-m
(11.6 to 16.0 ft-lb)

b. **Door should be adjusted laterally and vertically as well as fore and aft at this stage of assembly.**

c. **After striker plate has been adjusted, check operation of door lock and door closing.**



BF616A

1 Main arm bracket retaining bolt
2 Regulator base plate retaining bolt
3 Glass side guide channel nut
4 Panel side guide channel retaining nut
5 Guide rail retaining bolt
6 Inner seal
7 Upper stopper retaining bolt
8 Outside molding

Fig. BF-45 Removing door regulator and door glass

DOOR REGULATOR AND DOOR GLASS

REMOVAL AND INSTALLATION

1. Remove regulator handle, inside handle escutcheon, and screws securing armrest. Also remove door finisher sealing screen.
2. Lower glass fully, and remove flanged nut securing glass side guide channel.
3. Remove upper stopper, outside molding and inside seal.
4. Remove glass from glass side guide channel. Remove bolts securing guide rail, and remove glass and guide rail as an assembly through upper opening.
5. Remove main arm bracket (if power window is equipped) and bolts securing regulator plate. Remove flanged nut securing panel side guide channel.
6. Remove regulator through access hole.
7. Installation is in reverse order of removal.

Notes:

a. **Check for damaged balance spring or gear, and for operation of motor. Replace if necessary.**

b. **Be careful not to damage breather tube.**

c. **To facilitate installation of main arm bracket, engage pawl of bracket with opening in panel in same manner as for regulator base plate.**

d. **Apply grease to sliding surfaces of guide rail and roller when installing.**

e. **Fasten wiring harness with clips, being careful not to allow it to bind in regulator gears.**

ADJUSTMENT

1. Glass parallelism

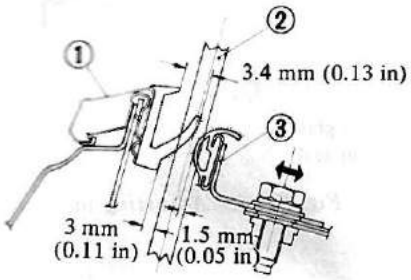
Glass parallelism is properly adjusted by moving guide channel adjusting bolt on panel side up and down.

2. Glass height

To adjust glass height, move upper stopper retaining bolt up and down.

Note: On power window type doors, always make this adjustment first.

3. Glass in or out adjustment at door belt line



BF617A

1 Outside molding
2 Door glass
3 Inner seal

Fig. BF-46 Adjusting clearance between glass and outside weatherstrip

Adjust guide rail upper retaining bolt until correct adjustment is obtained. See Figure BF-46.

4. Glass-to-body side weatherstrip clearance

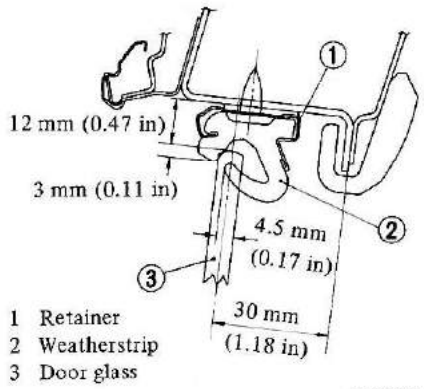


Fig. BF-47 Adjusting clearance between glass and body side weatherstrip

Adjust lower guide rail retaining bolt until correct adjustment is obtained. See Figure BF-47.

5. Fore and aft clearance

Fore and aft clearance adjustment is made with front and rear guide rail mounting bolts.

6. Inside seal

Adjust inner seal retaining bolt until specified dimension is obtained. See Figure BF-48.

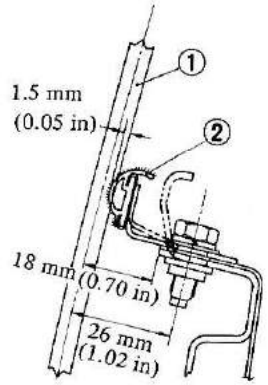


Fig. BF-48 Adjusting inside seal

7. Regulator handle set angle

Follow same procedure as in Sedan. See Figure BF-36.

DOOR LOCK AND DOOR LOCK CONTROL

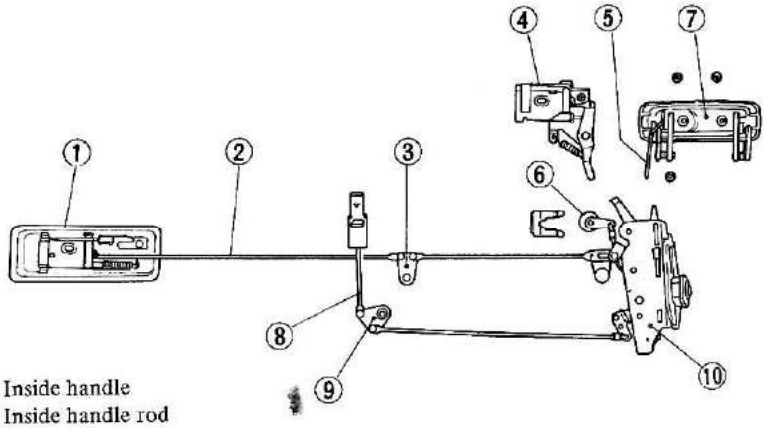


Fig. BF-49 Door lock and door lock control

REMOVAL AND INSTALLATION

1. Lower glass all the way down.
2. Disconnect inside handle rod at bellcrank.
3. Disconnect locking knob rod at bellcrank.
4. Disconnect rod which connects door lock to bellcrank at both ends.
5. Lower glass as far as it will go.
6. Disconnect rod connecting key cylinder and door lock at door lock.
7. Remove nut retaining outside handle rod to door lock assembly.
8. Take out attaching screw at bellcrank.
9. Remove door lock assembly.
10. Installation is in reverse order of removal.

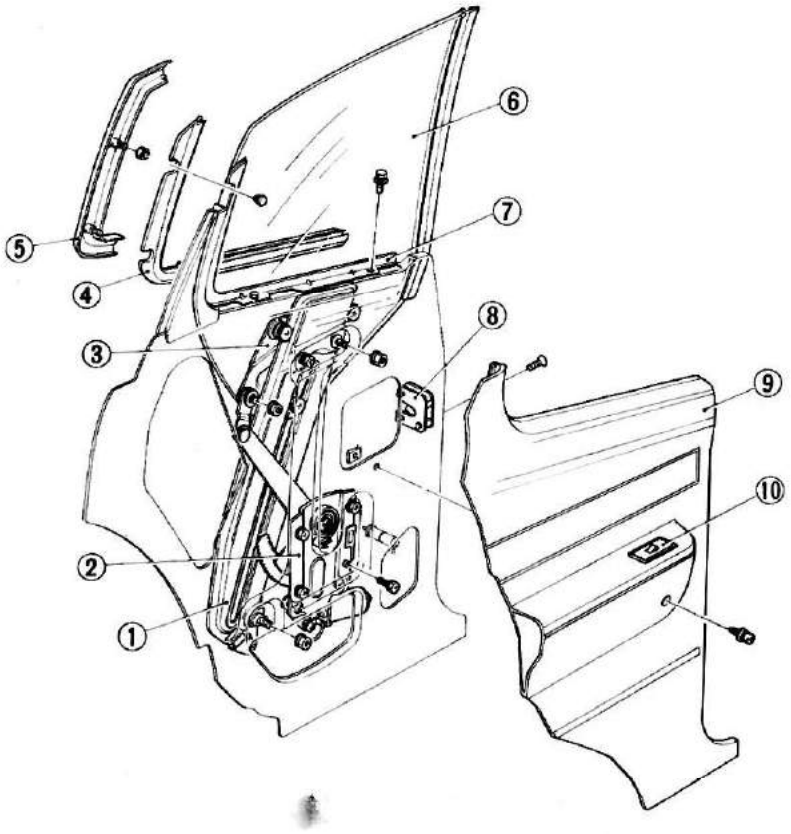
ADJUSTMENT

Follow same procedure as in Sedan.

SIDE WINDOW

CONTENTS

SIDE WINDOW (Hardtop)



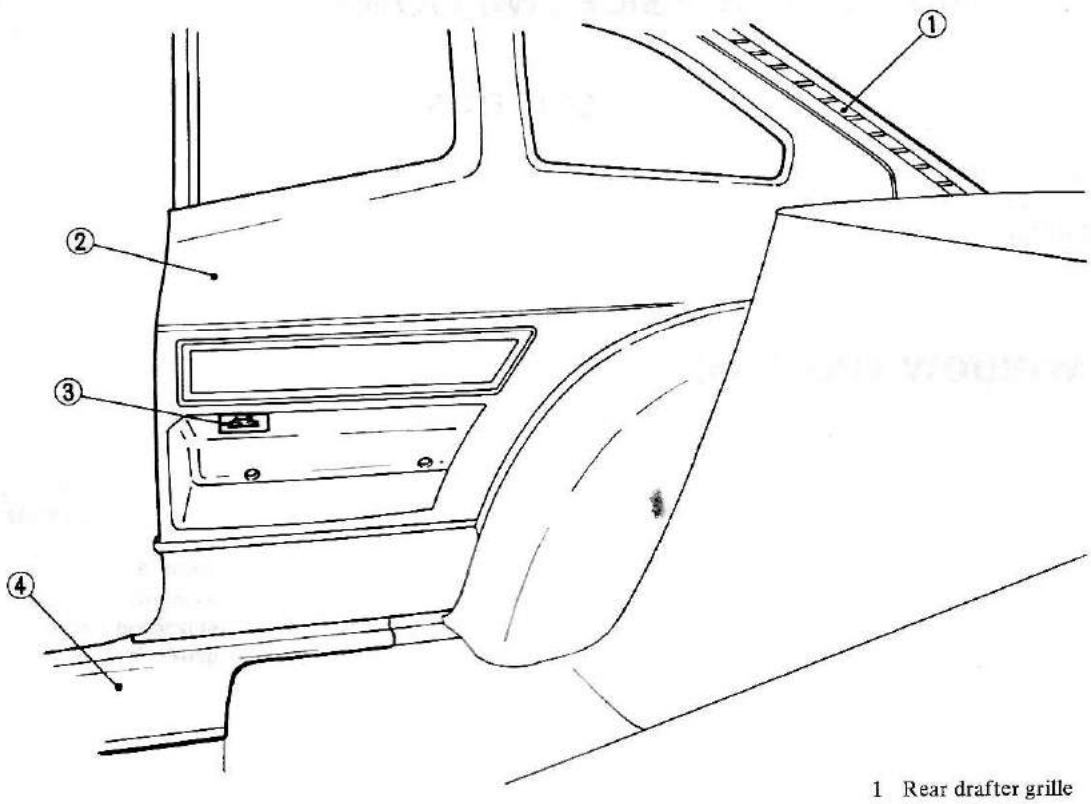
1 Guide plate
2 Regulator
3 Guide roller
4 Rear side molding
5 Outer molding
6 Side window glass
7 Rear side inner seal
8 Door lock striker
9 Rear side finisher
10 Power window switch

BF621A

Fig. BF-50 Side window

REMOVAL AND INSTALLATION

1. Remove rear seat cushion and rear seat back.
2. Lower glass half way down.
3. Remove kicking plate.
4. Remove rear drafter grille.

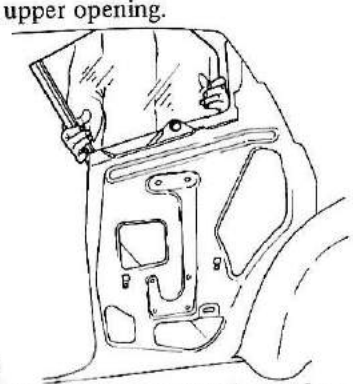


BF622A

1 Rear drafter grille
2 Rear side trim
3 Rear side window switch
4 Kicking plate

Fig. BF-51 Rear side trim

5. Remove screw at armrest.
6. Remove rear side finisher; disconnect side window switch terminal.
7. Peel off rear outside molding.
8. Remove sealing screen, being careful not to damage it.
9. Remove nuts securing guide plate, and detach guide plate.
10. Remove outside molding and inside seal.
11. Remove glass from regulator linkage. Fully raise glass, and remove from guide plate, then take it out through upper opening.



BF623A

Fig. BF-52 Removing side window

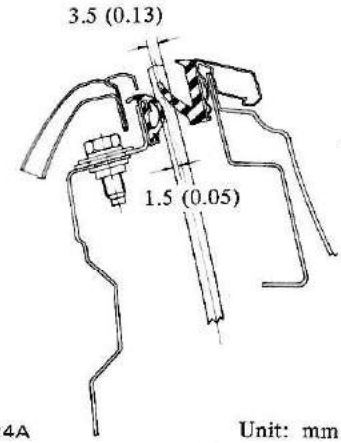
12. Remove flanged bolts securing regulator base plate.
13. Remove regulator through access hole.
14. Installation is in reverse order of removal.

Notes:

a. Check for damaged balance spring or gear, and inspect operation of motor. Replace if necessary.
b. Be careful not to damage breather tube.
c. Apply recommended grease to all friction surfaces.

ADJUSTMENT

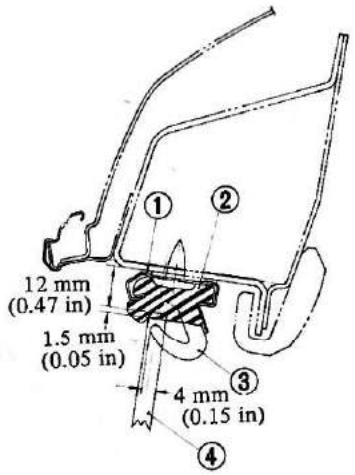
1. Outside molding-to-glass contact adjustment can be made with upper guide plate retaining bolts.



BF624A Unit: mm (in)

Fig. BF-53 Adjusting molding-to-glass contact

2. Weatherstrip-to-glass contact adjustment can be made with lower guide plate retaining bolts. When adjusting, also check for contact between front glass and weatherstrip at rear side of front end. If necessary, adjust with upper bolt to obtain proper front glass-to-weatherstrip contact.

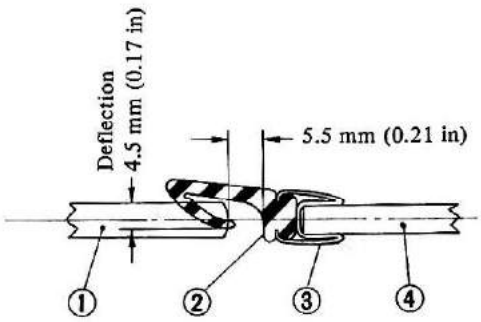


1 Body side weatherstrip rear retainer
2 Solid rubber for upper stopper
3 Body side weatherstrip

BF625A

Fig. BF-54 Adjusting weatherstrip-to-glass contact

3. Fore and aft and glass tilt adjustments are made by utilizing elliptic hole in panel at guide plate.



1 Front door glass
2 Rear door glass weatherstrip
3 Side window glass

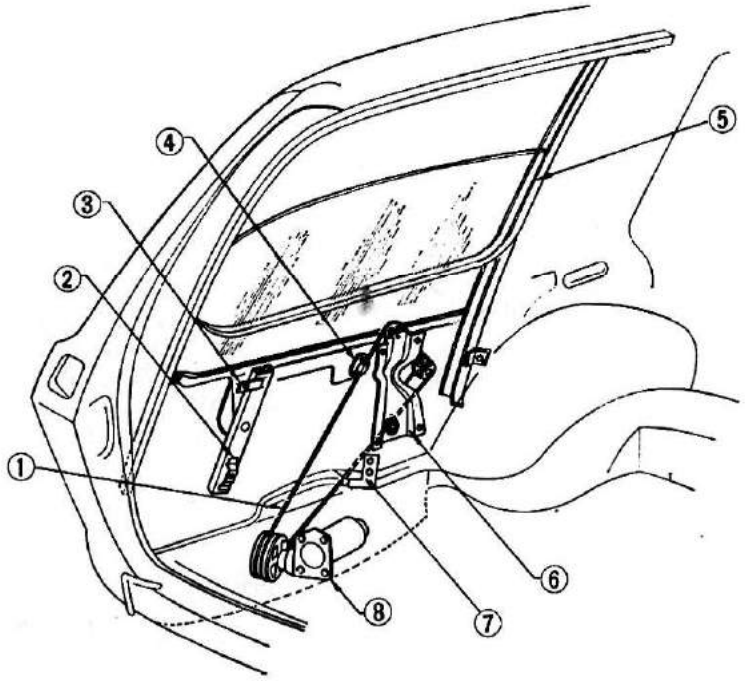
BF626A

Fig. BF-55 Adjusting side window glass-to-door glass clearance

4. The lowest glass positioning adjustment is made by utilizing elliptic hole at lower stopper. Adjustment is correct if tip end of rear side glass weatherstrip is same in height as upper end of outside molding weatherstrip.

Note: Upper stopper adjustment is not necessary, since it is incorporated in body side weatherstrip.

SIDE WINDOW (Station Wagon)



1 Regulator wire
2 Guide channel
3 Glass bottom channel
4 Wire clamp holder
5 Rear side window sash
6 Tension pulley
7 Stopper
8 Motor

BF627A

Fig. BF-56 Power side window

SIDE WINDOW GLASS

Removal and installation

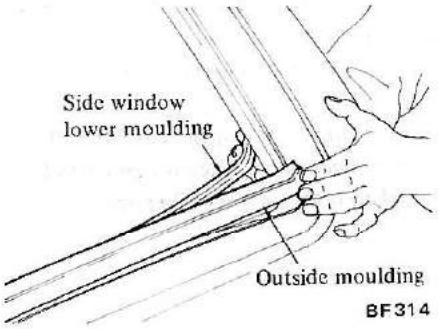


Fig. BF-57 Removing molding

1. Remove outside and side window moldings.
2. Remove guide channel and stopper. Glass can then be taken out easily.

Note: Do not let glass fall.

3. Installation is reverse order of removal.

Adjustment

Adjust guide channel so that glass moves up and down smoothly.

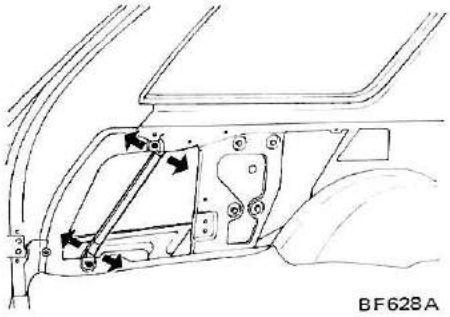


Fig. BF-58 Adjusting side window glass

TENSION PULLEY

Removal

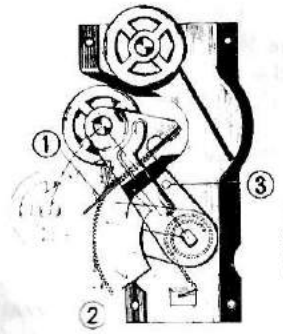


Fig. BF-59 Tension pulley

1. Remove hook from tension pulley. Line up hole in pulley arm with that in base (stopper pin holes). Reaching through access hole, secure arm and base with stopper pin [5 to 6 mm (0.1969 to 0.2362 in) in diameter].
2. Remove tension pulley.

Installation

1. Align stopper pin hole in tension pulley; insert stopper pin through the hole.
2. Install tension pulley.
3. Place wire on two pulley rollers; remove stopper pin.

WIRE REPLACEMENT

Removal

1. Remove motor from motor cover.
2. Strip drum cover.
3. Loosen two bolts at wire holder; pull out wire.
4. Connect motor blue terminal to battery positive terminal (+). At the same time, connect motor blue-red terminal to battery negative terminal (–). After removing all slack in balance spring, free outer end of spring from motor bracket.

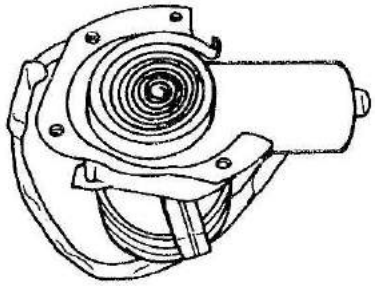


Fig. BF-60 Removing wire

Installation

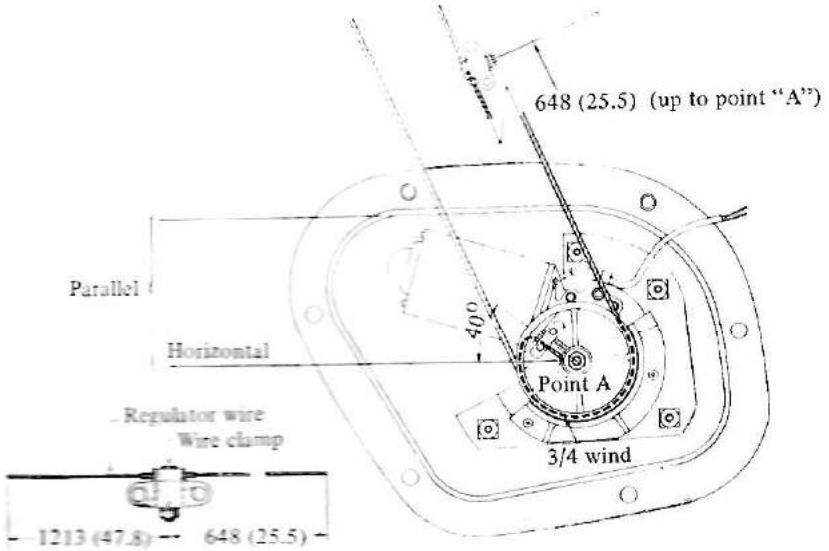


Fig. BF-61 Wire installation

1. With outer end of spring disconnected, turn motor until drum is in a position where glass is fully closed. See Figure BF-61.
2. Turn motor so that spring is wound up one full turn; hook outer end of spring against motor bracket.
3. Connect short wire (left-hand wound, 3/4 turn) to right side of clamp and long wire (right-hand wound, 1 3/4 turns) to left side as shown. Install drum cover.

WINDSHIELD GLASS

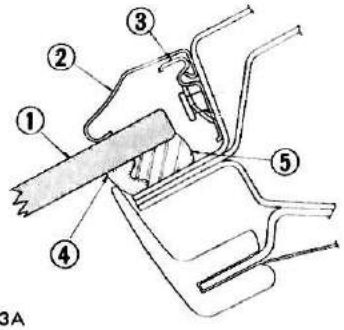
CONTENTS

FRONT WINDSHIELD GLASS

DESCRIPTION

A pre-mixed, one-part sealant to cement windshield glass to window 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.



1 Windshield glass
2 Windshield moulding
3 Fastener
4 Dam
5 Sealant

Fig. BF-62 Sectional view of front adhesive caulked windshield glass

Notes:

a. **Do not use sealant if it is more than six-months old.**
b. **Open cartridge only at the time of use.**
c. **Keep primer and sealant in a cool, dry place. Ideally, sealant should be stored in a refrigerator.**
d. **Keep heat or open flames away as primer is flammable.**

REMOVAL

1. Protect hood, front fenders, instrument panel and front seats with covers.
2. Remove windshield wipers, front pillar garnish and instrument panel assembly. (Front windshield glass). Remove rear corner finisher and rear parcel shelf finisher. (Rear window glass).
3. Using a putty knife or similar tool, pry moldings out of position, starting at center and moving toward the ends. See Figure BF-63.

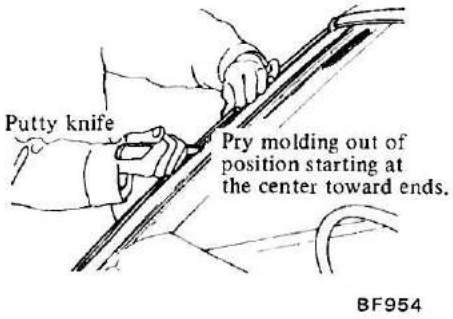


Fig. BF-63 Removing molding

4. Reaching from inside car, strip dam from around window glass. See Figure BF-64.

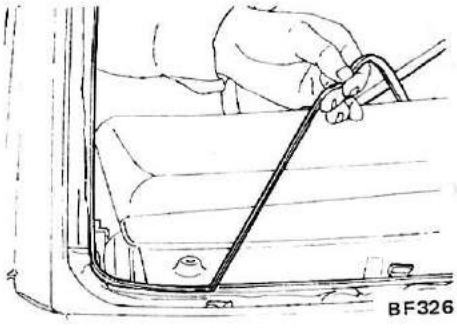
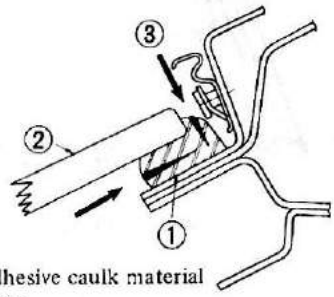


Fig. BF-64 Stripping dam

5. With aid of sharp cutting knife, cut off caulking material along edge of entire window opening. See Figure BF-65.



1 Adhesive caulk material
2 Glass
3 Cut with a knife

Fig. BF-65 Cutting off adhesive caulking

6. The following procedure may also be used in removing rear windshield.
(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. See Figure BF-66.

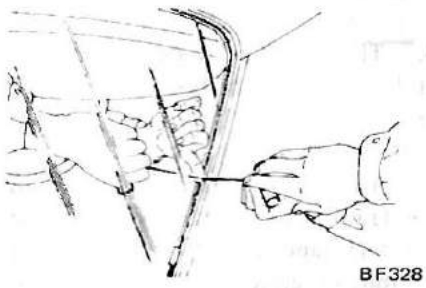


Fig. BF-66 Cutting sealant

7. From inside car, push glass up and out of window opening.
8. Using a razor blade or sharp scraper, remove caulking material along entire edge of window opening, leaving it about 1 to 2 mm (0.039 to 0.079 in) thick.

INSTALLATION

1. Check for missing molding retainers.
2. Clean body side contacting face with non-lead gasoline.

Note: Do not allow oil, grease or water to get on clean surfaces through dirty hands or fouled tools.

3. Install four spacers on front window opening. See Figures BF-67 and BF-68.

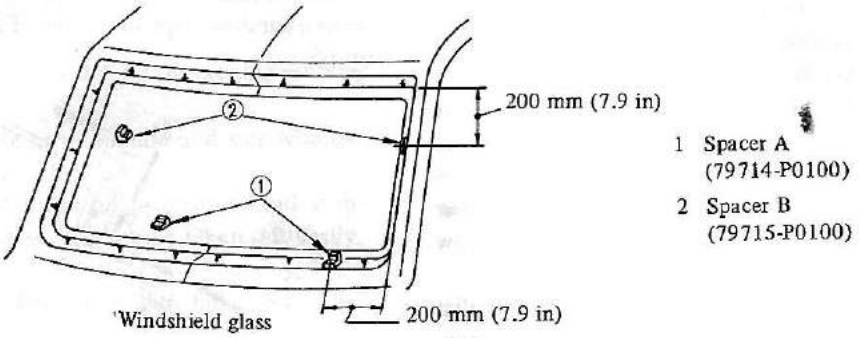


Fig. BF-67 Location of spacers

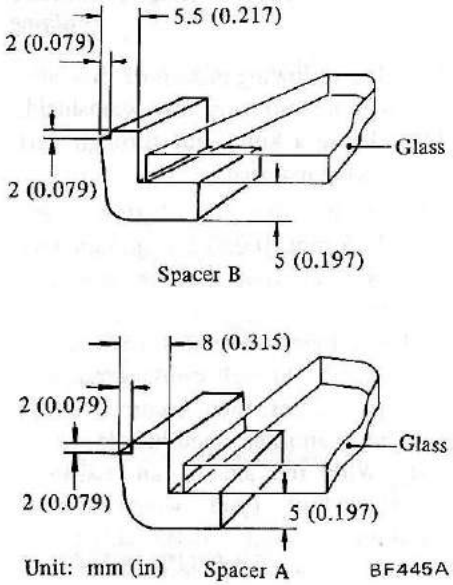


Fig. BF-68 Installing glass on spacer

4. There are two water drain holes at bottom edge of body opening. In applying caulking material, use care not to plug these two holes.
5. To set glass in proper position in window opening, paste two pieces of masking tape at the center top and bottom of glass and panel for alignment. See Figure BF-69.

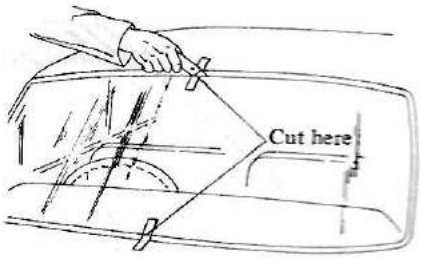


Fig. BF-69 Aligning glass in window opening

6. Clean glass surface where the sealant will be applied and dam with non-lead gasoline as shown in Figure BF-70.

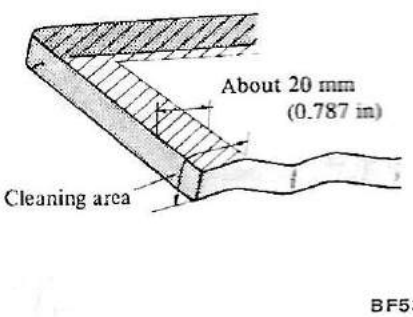


Fig. BF-70 Cleaning area of glass

7. Install dam to inside of windshield glass 8 mm (0.315 in) inboard from edge of glass and cut off excess amount at its ends. See Figure BF-71.

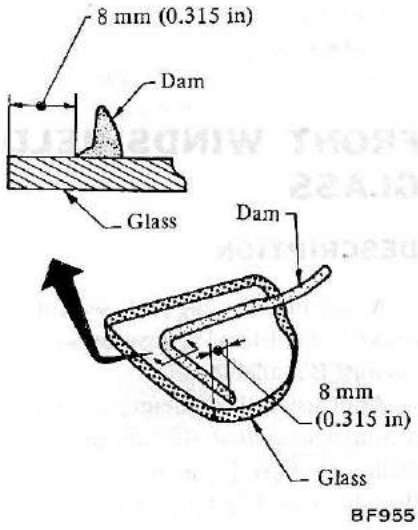


Fig. BF-71 Installing dam

8. With sponge furnished with the primer, apply a light coat of primer to original caulking material left on window opening flanges.

Notes:

a. **It is not necessary to apply primer to old sealant when replacing glass that has at one time been repaired with silicone sealant.**
   Identification of old adhesive material can be accomplished as follows:
   1) **Cut a small piece of excess sealant from glass or window opening flanges.**
   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.**
      (1) Polysulfide burns with a clear flame with a very small amount of white smoke or no smoke and its odor is very objectionable (heavy sulfur dioxide).
      (2) Silicone glows with little or no flame and emits white smoke and very little odor.
      Burnt residue is white ash.
b. **Allow primer to dry for 10 to 15 minutes before proceeding to the next step.**

9. Insert cartridge in Caulking Hand Gun ST08810000 and place smooth, continuous bead on glass 10 mm (0.394 in) above glass surfaces. See Figure BF-72.

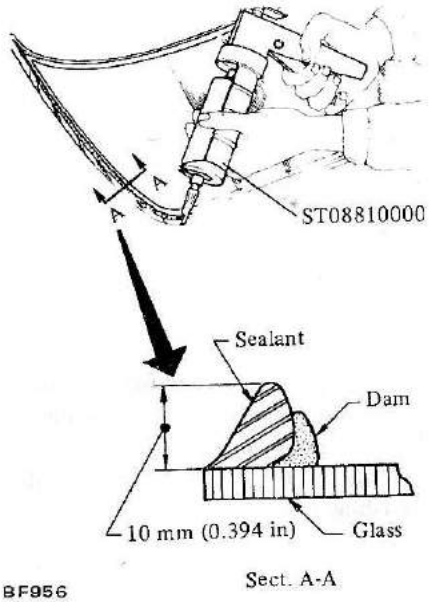


Fig. BF-72 Applying adhesive caulking

Notes:

a. Cut off nozzle end of cartridge as shown in Figure BF-73.

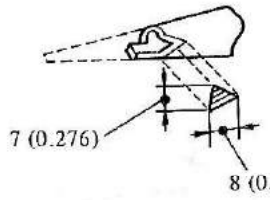


Fig. BF-73 Cutting nozzle of cartridge

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

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

10. Support windshield glass with Sucker ST08800000.

11. Position windshield glass in opening and align the masking tape previously applied to make sure that glass is properly placed on spacers located at glass opening flange. See Figure BF-74.

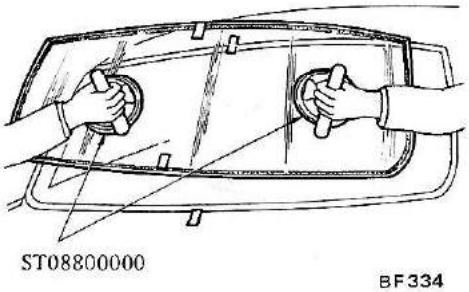


Fig. BF-74 Installing glass

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

13. Wipe excess caulking material off T studs, edges of glass, and body.

14. Remove protective covers.

15. 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.

16. Install all previously removed parts.

Notes:

a. After installing, attach caution label to glass surface.

Fig. BF-75 Caution label

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.

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

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

Unit: days

Temperature °C (°F) \ Relative humidity %	90	50	25
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 re-installing glass in the following manner:

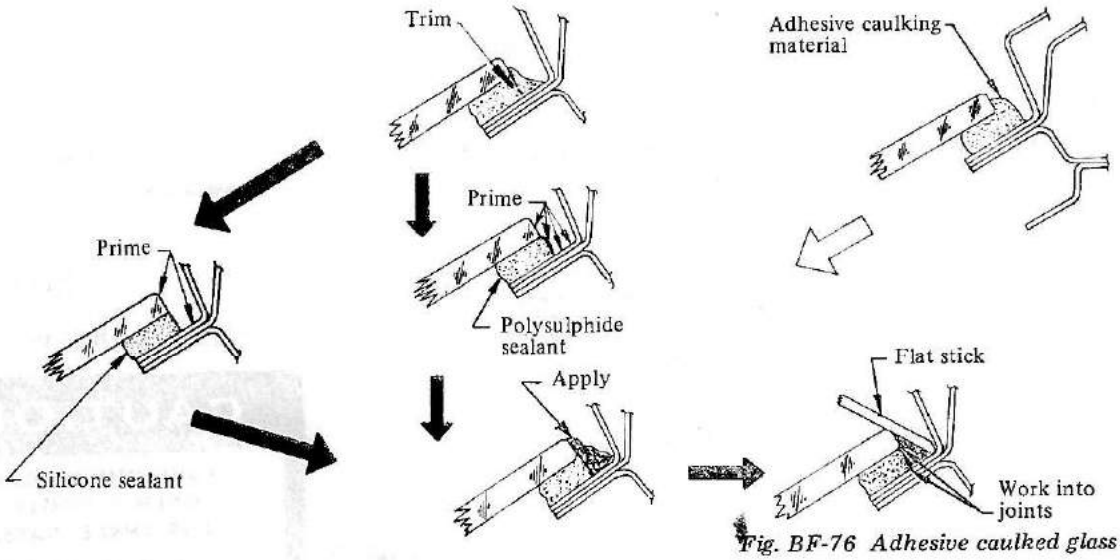


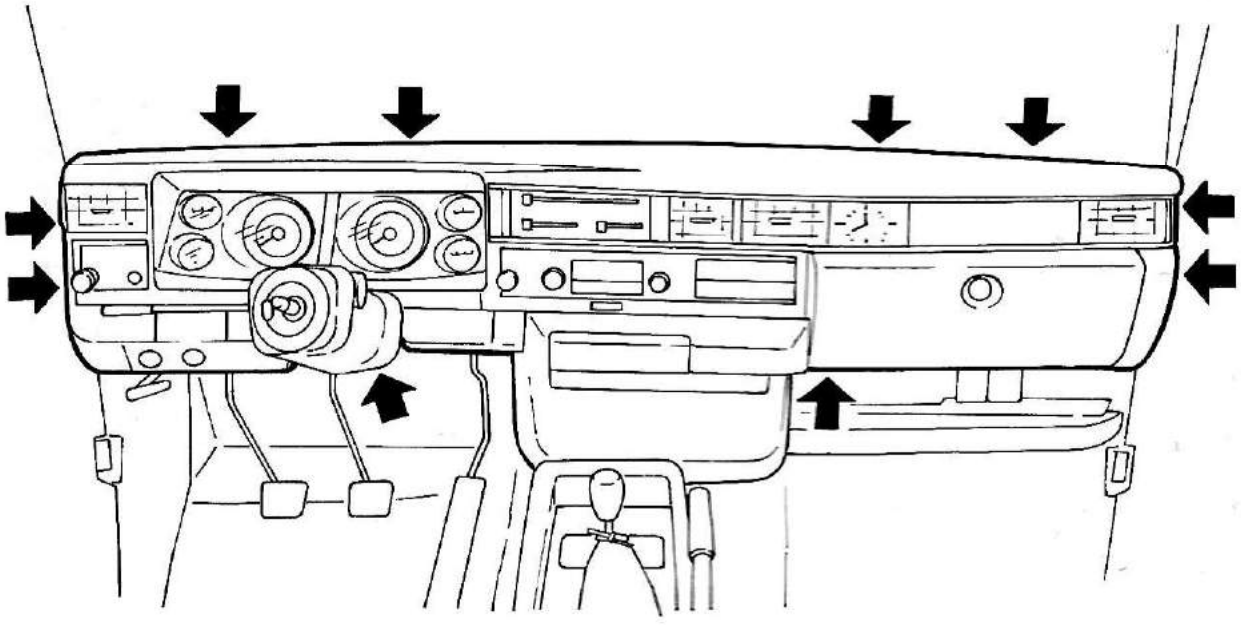
Fig. BF-76 Adhesive caulked glass leak correction

Note: Do not apply primer to old silicone sealant.

1. To stop leaks, first remove moldings in area of leak. It may be necessary to remove garnish molding or finishing lace to isolate cause of problem.
2. Mark location of leak.

Note: If water is leaking between caulking material and body or between glass and caulking material, determine extent of leak by pushing glass outwards.
Apply water to leak area while pushing on glass.
Mark extent of leak point.

INSTRUMENT PANEL



BF629A

Fig. BF-77 Instrument panel

REMOVAL AND INSTALLATION

1. Disconnect battery ground cable.
2. Remove garnish.
3. Remove bolts securing instrument panel to upper dash panel.
4. Remove shell cover.
5. Remove nut securing instrument panel to pedal bracket.

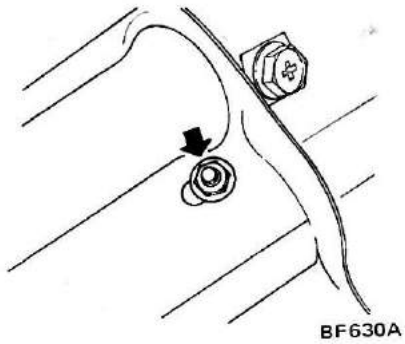


Fig. BF-78 Removing instrument panel

6. Remove bolts attaching package tray to instrument panel.

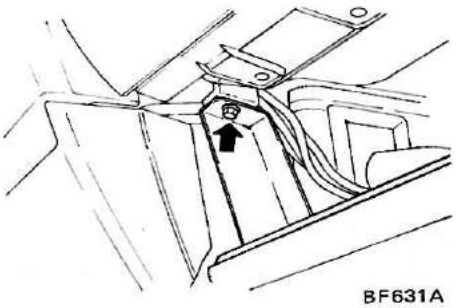
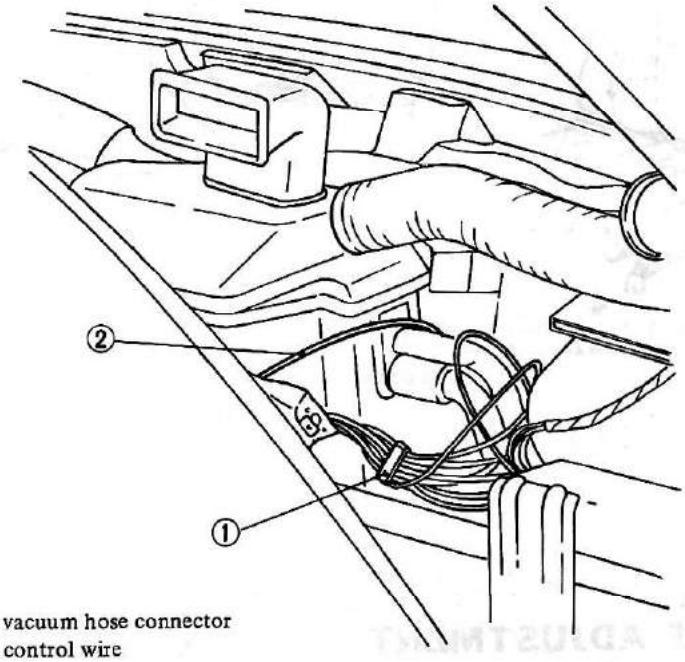


Fig. BF-79 Removing instrument panel

7. Remove speedometer cable at speedometer.
8. Remove instrument side finisher.
9. Remove bolts attaching instrument panel to dash side bracket.
10. Disconnect air conditioner vacuum hose connector.
11. Remove air conditioner control wire.



1 Air con. vacuum hose connector
2 Air con. control wire

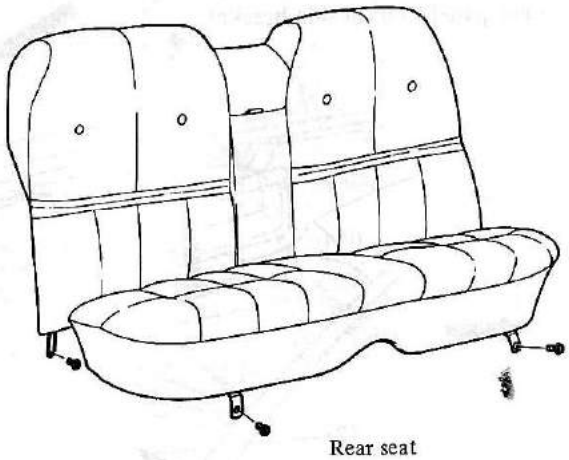
Fig. BF-80 Removing instrument panel

12. Disconnect connectors to instrument harness.
13. Install instrument panel in reverse order of removal.

SEAT

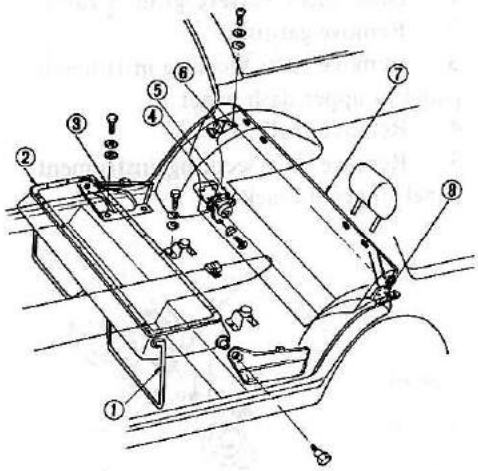
BF633A

Front seat



BF634A

Rear seat



Second seat (Station Wagon) BF345

1 Stay
2 Seat cushion
3 Cushion bracket
4 Seat back hinge
5 Spacer
6 Seat back striker
7 Seat back
8 Seat back lock

Fig. BF-81 Seat

HIGHT ADJUSTMENT

Separate seat

Place washer(s) between slide and lifter.

Bench seat

Place washer(s) between slide and frame.

Note: Select bolts of suitable length according to washer thickness.

SEAT BELT

On cars which are not subject to E.C.E. regulation number 14, BS AU48 (England) or A.D.R. 5A (Australia), install seat belts as shown in Figure BF-82, BF-83 or BF-84, as applicable.

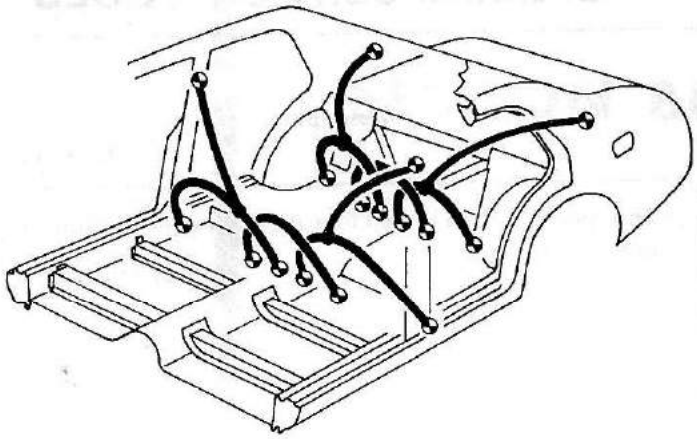
MAINTENANCE OF SEAT BELT

To clean seat belt, brush it with neutral detergent, wipe it off with cloth, and then dry it in the shade. Do not use other chemicals or try bleaching or redyeing.

If an accident strains seat belt, it should be replaced.

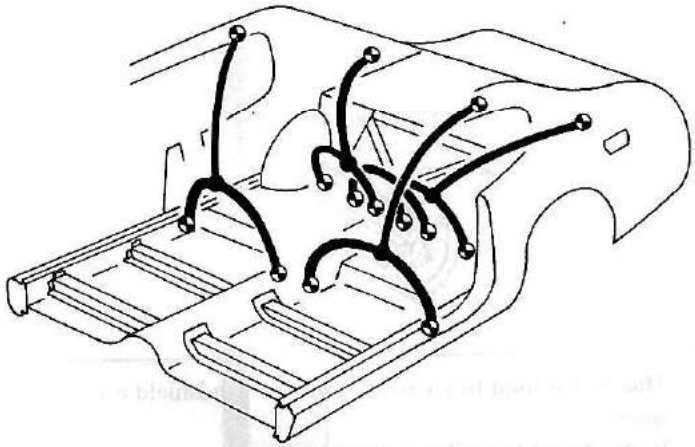
Be sure to check webbing and all metal components for damage or deterioration. Replace if any damage or deterioration is detected.

If a component part (buckle, etc.) of a lap belt or shoulder belt assembly is faulty, the entire assembly must be replaced.



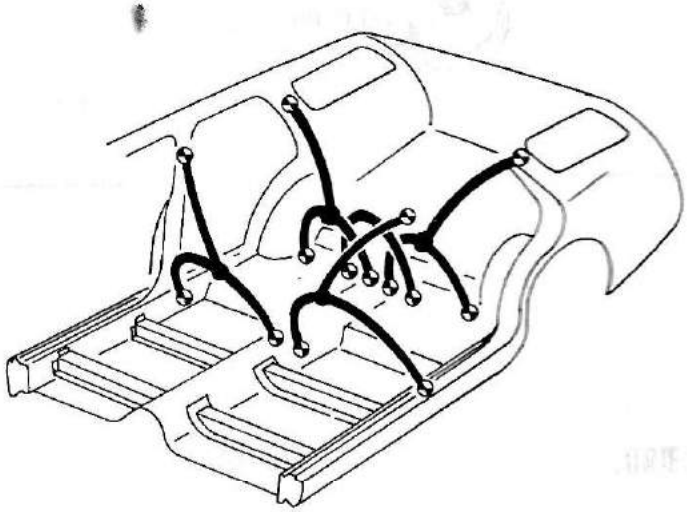
BF635A

Fig. BF-82 Seat belt anchorage points (Sedan)



BF636A

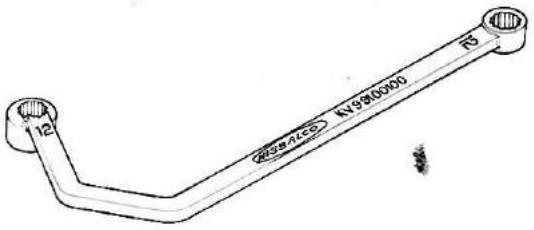
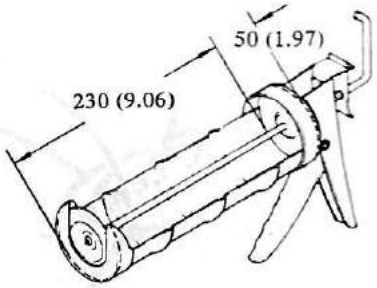
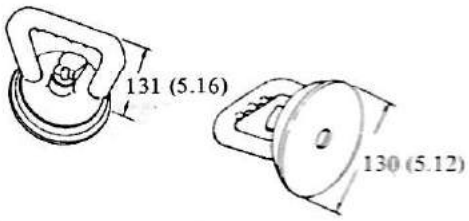
Fig. BF-83 Seat belt anchorage points (Hardtop)



BF637A

Fig. BF-84 Seat belt anchorage points (Station Wagon)

SPECIAL SERVICE TOOLS

No.	Tool number & tool name	Description Unit: mm (in)	For use model	Reference page or Figure No.
1.	KV99100100	This special wrench is used to make front door adjustment without dismounting fender.  SE386	330 F10	Page BF-13 Fig. BF-31
2.	ST08810000 Caulking hand gun	For pushing out the bottom of windshield glass sealer cartridge.  SE231	All models	Fig. BF-72
3.	ST08800000 Sucker	This tool is used to secure and set the windshield glass panel on the spacer. It also serves to facilitate proper adhesion of glass panel to body by insuring uniform pressure after setting.  SE345	All models	Fig. BF-74