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# 1989 Mazda RX-7 Factory Service Manual

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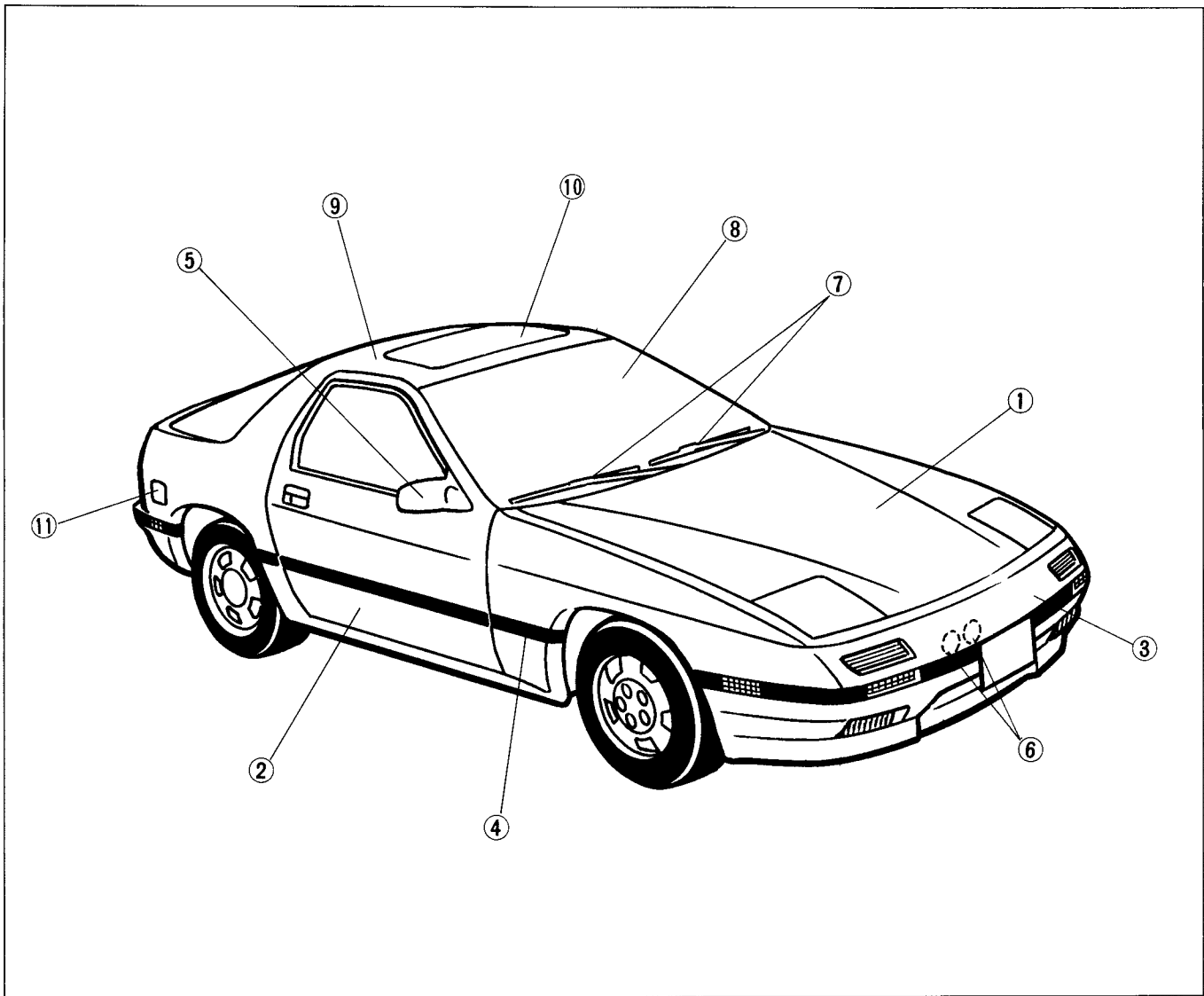
Some parts of the manual may be hard to read or see on the screen, but if you print the pages out it's perfect. Well except for the crookedness ☺.

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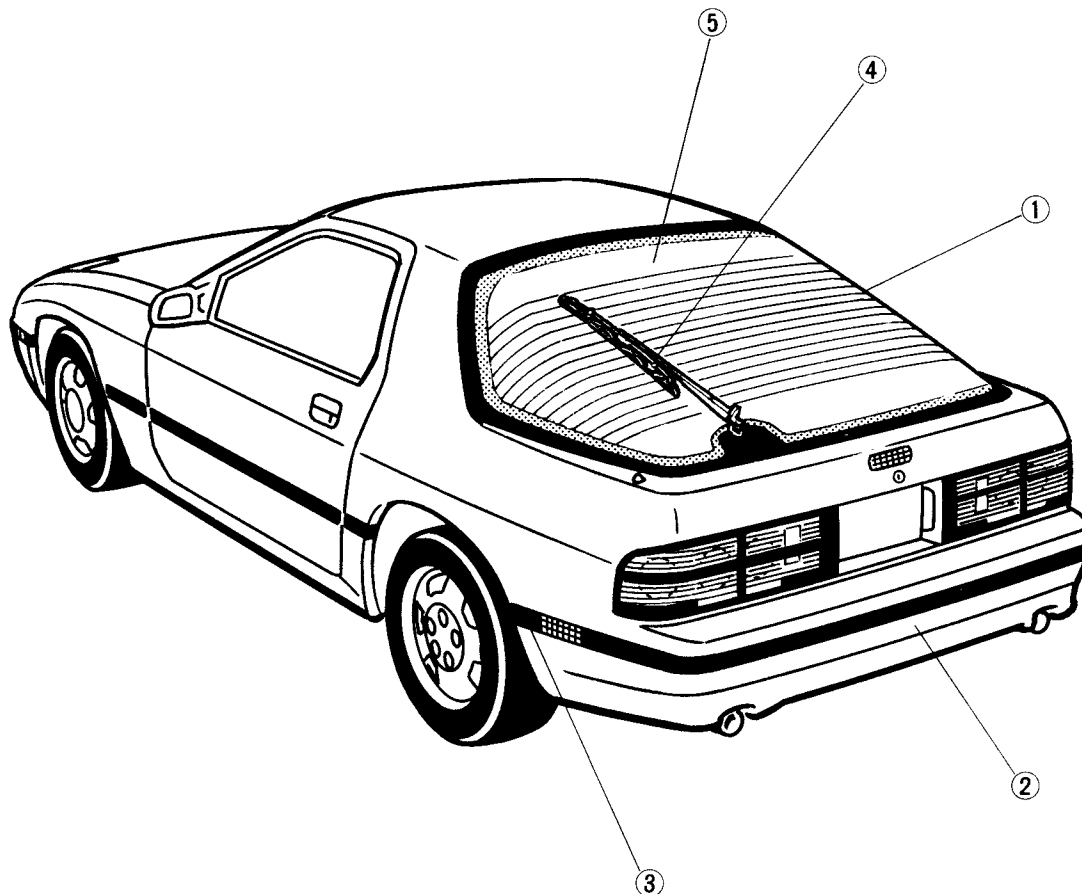
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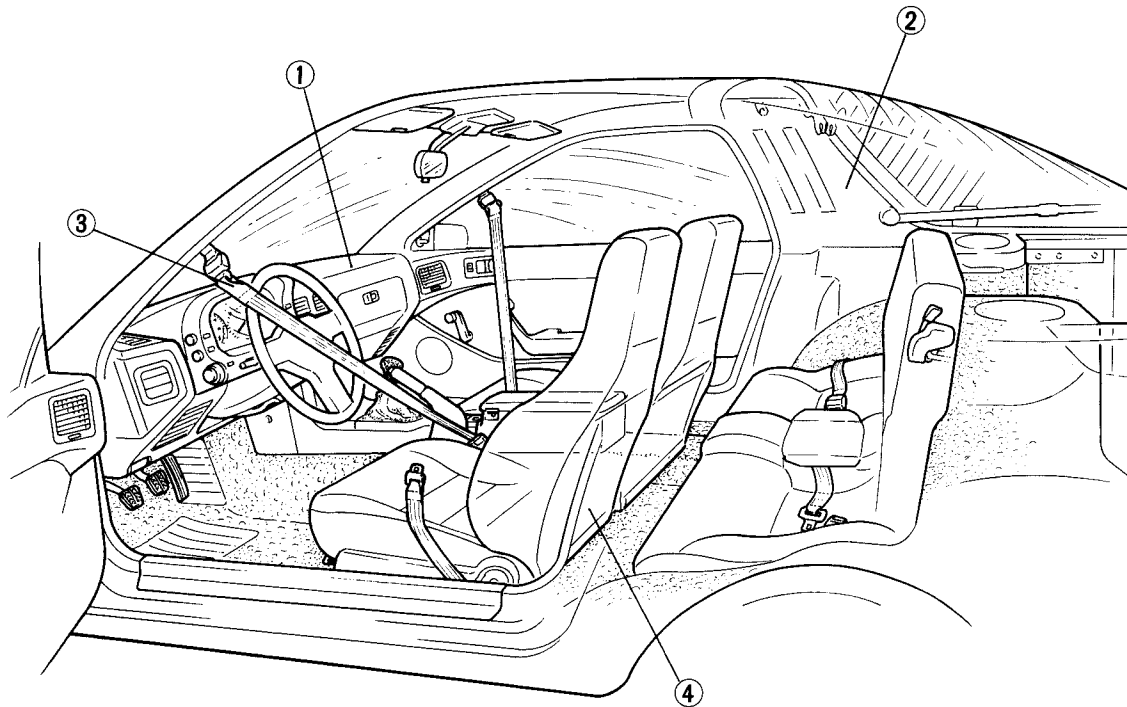
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4. Seat

(Coupe)

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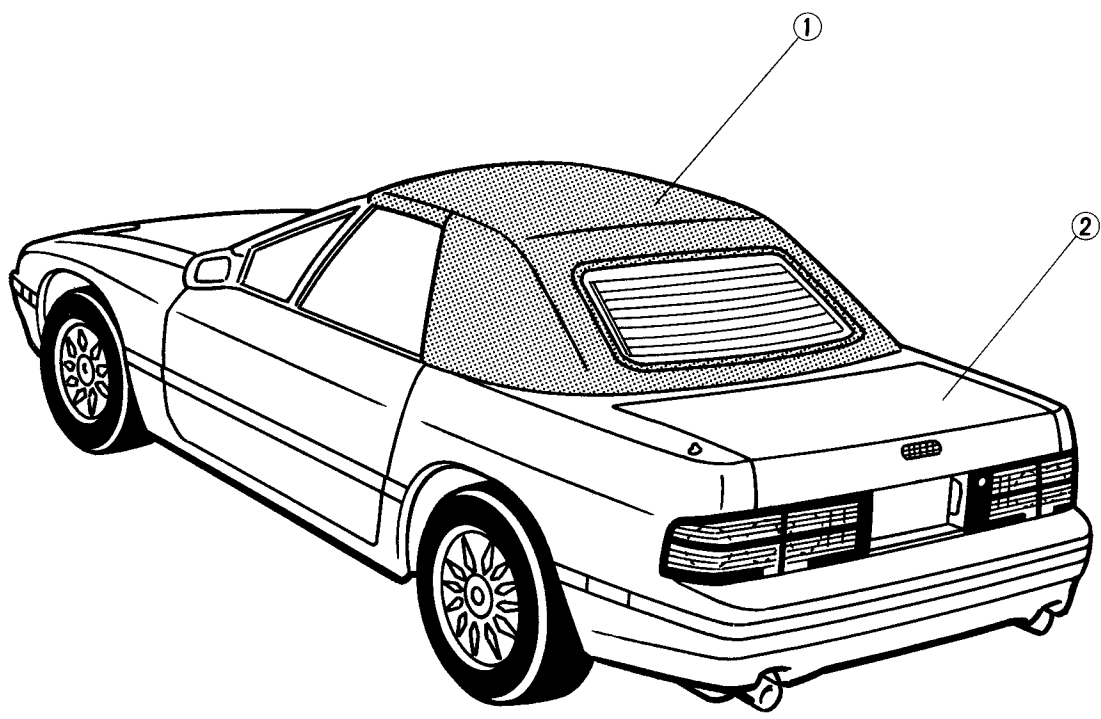
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(Convertible)

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1. Convertible top

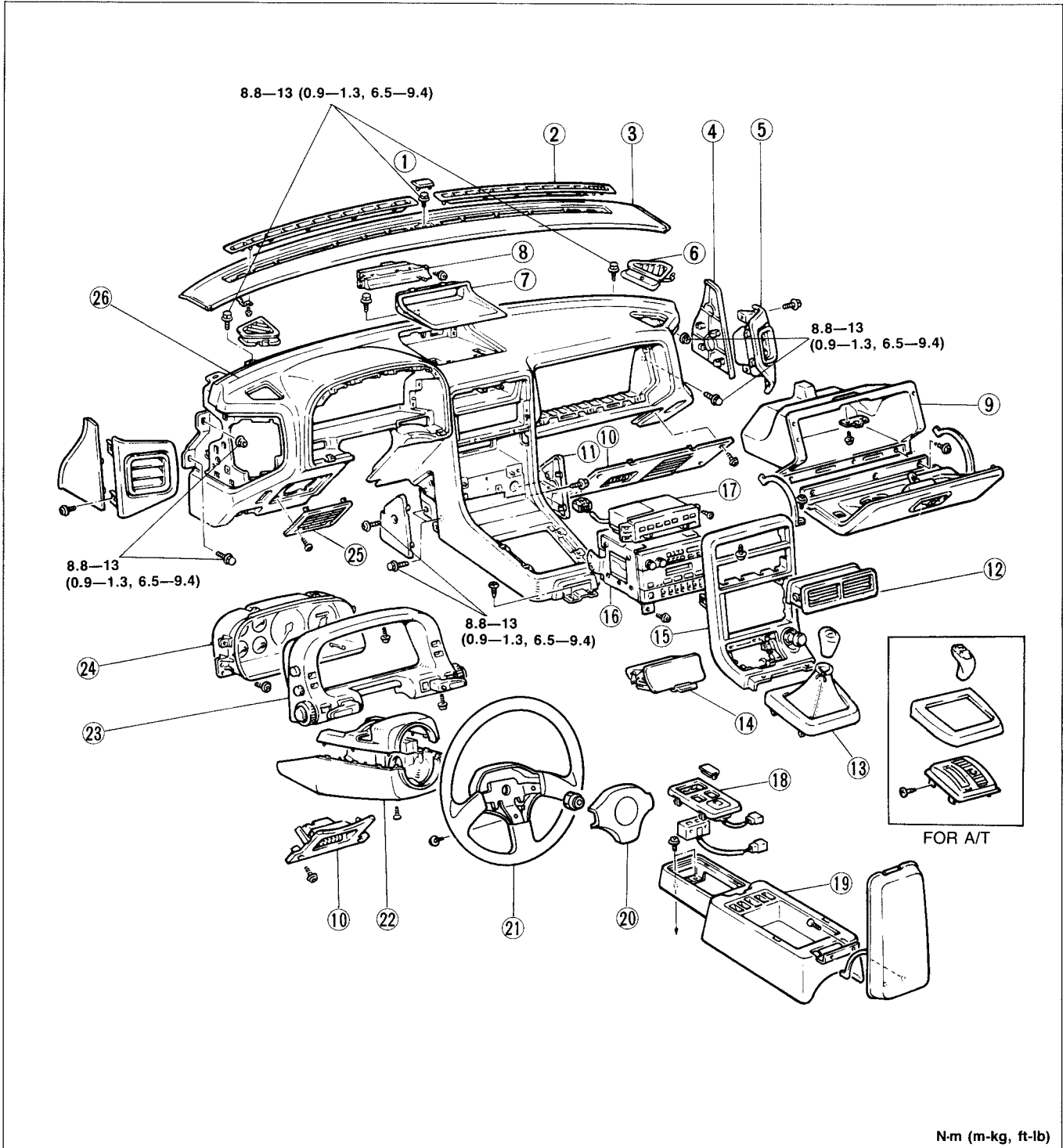
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2. Trunk lid

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## INSTRUMENT PANEL

### STRUCTURAL VIEW



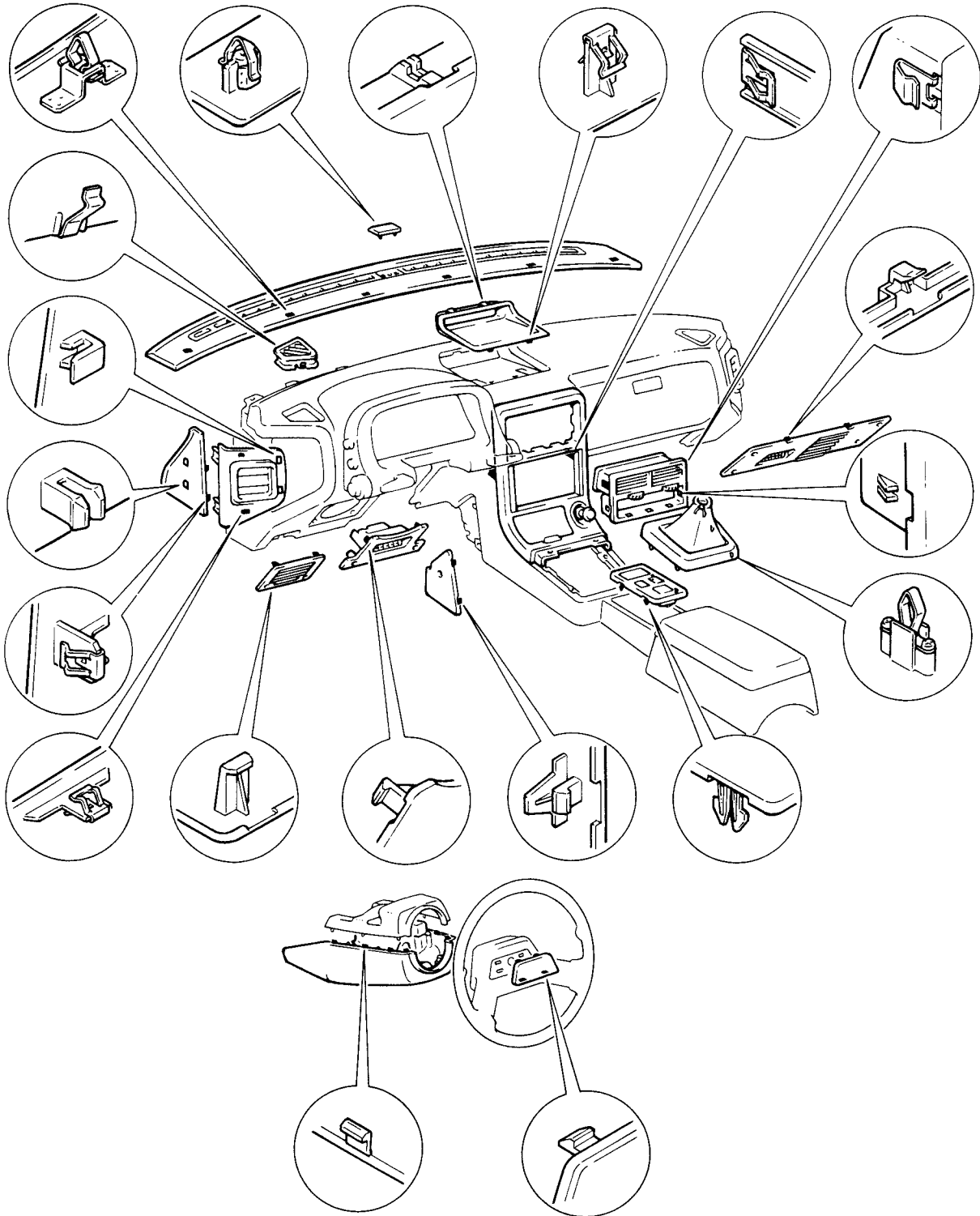
N-m (m-kg, ft-lb)

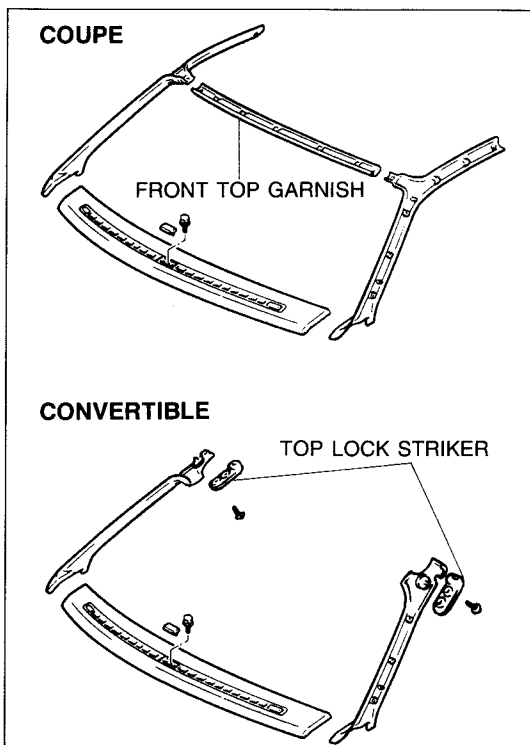
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- |                               |                           |                                    |
|-------------------------------|---------------------------|------------------------------------|
| 1. Center cap                 | 10. Lower panel (R and L) | 19. Rear console                   |
| 2. Defroster grille (R and L) | 11. Side wall (R and L)   | 20. Steering wheel cap             |
| 3. Instrument panel garnish   | 12. Center louver         | 21. Steering wheel                 |
| 4. Side cover (R and L)       | 13. Boot panel            | 22. Column cover (upper and lower) |
| 5. Side panel (R and L)       | 14. Ashtray               | 23. Cluster switch panel           |
| 6. Demister grille (R and L)  | 15. Center panel          | 24. Instrument cluster             |
| 7. Clock bezel                | 16. Audio set             | 25. Speaker grille                 |
| 8. Clock and warning unit     | 17. Logicon switch        | 26. Instrument panel               |
| 9. Glove box                  | 18. Switch panel          |                                    |

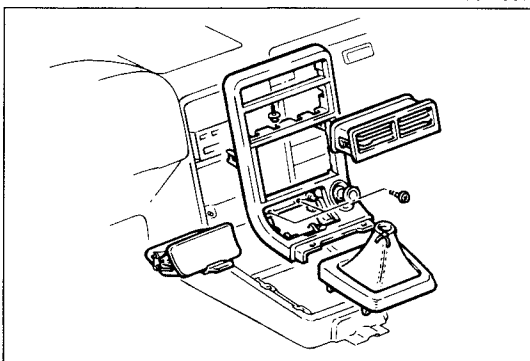


INSTALLATION VIEW

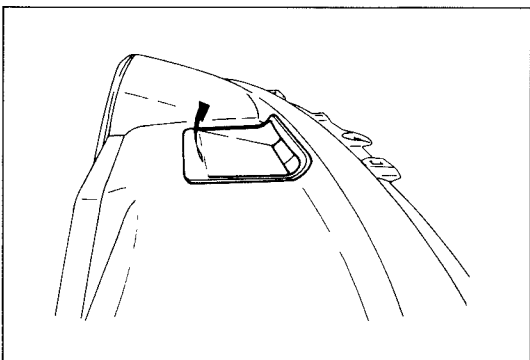




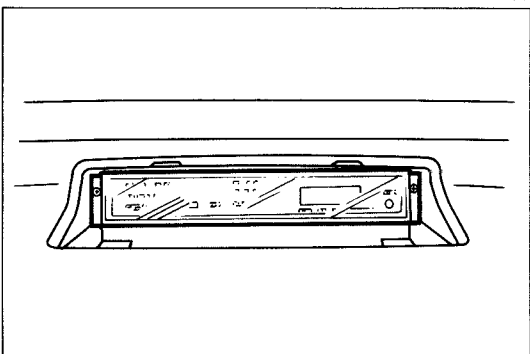
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67U14X-006



67U14X-007

## REMOVAL

### Instrument Panel Garnish

1. Remove the front top garnish (coupe), top lock strikers (convertible), and front pillar trims.
2. Remove the center cap and the screw.
3. Lift up the instrument garnish with defroster grilles attached, and pull out.

### Caution

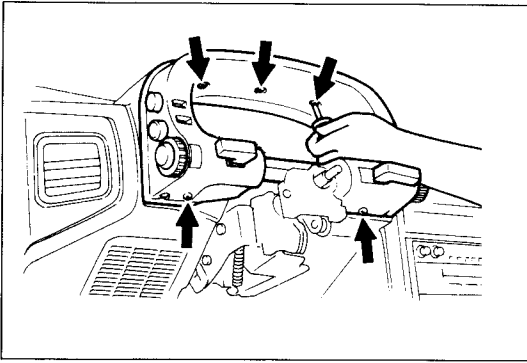
**If the front pillar trims are not removed before the instrument garnish, the front pillar trim may be damaged when the garnish is removed.**

### Center Panel

1. Remove the boot panel, ashtray, and center louver.
2. Remove the center panel attaching screws (4), and then detach the center panel from the instrument panel.
3. Remove the cigarette lighter illumination bulb unit and the cigarette lighter connector.
4. Remove the center panel.

### Clock and Warning Unit

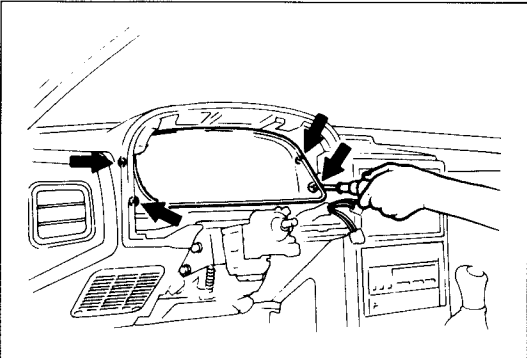
1. Pry the clock bezel upward, then remove it.
2. Remove the clock and warning unit attaching screws.
3. Pull the clock and warning unit forward, and disconnect the connector.



97U0SX-009

## Cluster Switch Panel

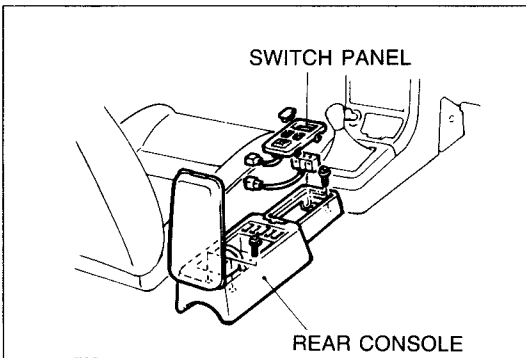
1. Remove the cluster switch panel attaching screws (5).
2. Disconnect the switch connectors and remove the cluster switch panel.



97U0SX-010

## Instrument cluster

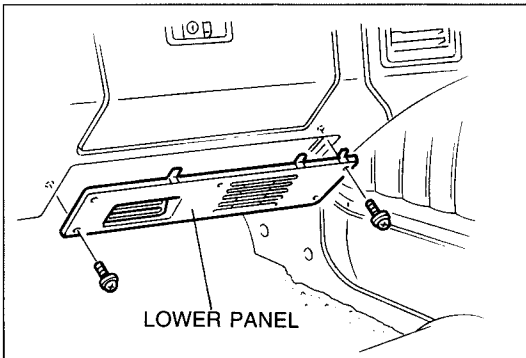
1. Remove the instrument cluster attaching screws (4), and pull out the instrument cluster.
2. Disconnect the instrument cluster connectors and speedometer cable.
3. Remove the instrument cluster.



97U0SX-011

## Rear Console

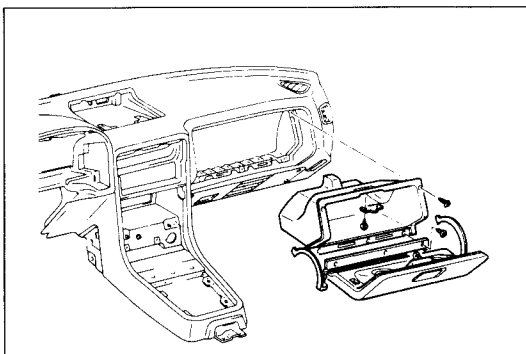
1. Remove the switch panel with a protected screwdriver.
2. Disconnect the AAS (coupe), headrest speaker (convertible), and remote control mirror switch connectors.
3. Remove the rear console attaching screws (4), and then remove the rear console.



77U14X-020

## Lower Panel

1. Remove the lower panel attaching screws (5).
2. Disconnect the front speaker unit connectors.
3. Remove the heater ducts, and then remove the lower panel.

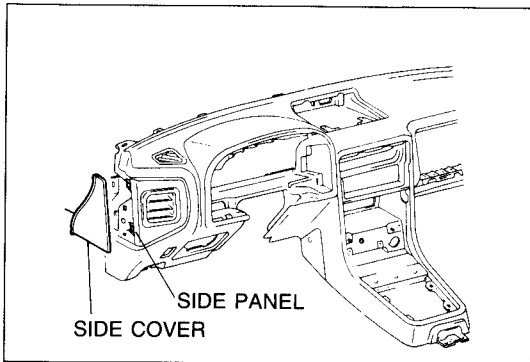


97U0SX-012

## Glove Box

1. Open the glove box, and remove the glove box attaching screws (7).
2. Remove the glove box light bulb and glove box.
3. Remove the side wall attaching screw (1), and the side wall with a protected screwdriver.

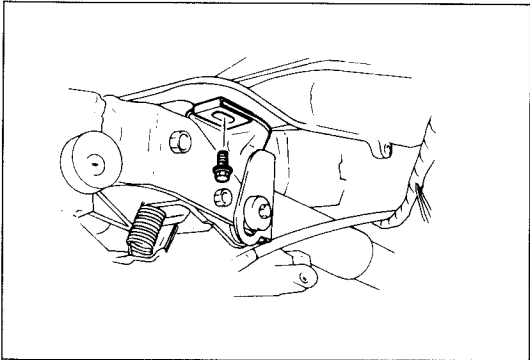
# S INSTRUMENT PANEL



97U0SX-013

## Side Cover

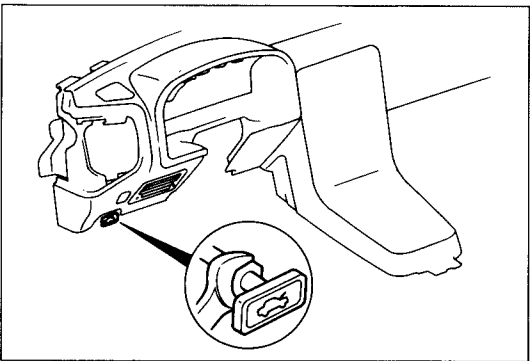
1. Remove the side cover with a protected screwdriver.
2. Remove the side panel attaching screw (1), and remove the side panel.



77U14X-008

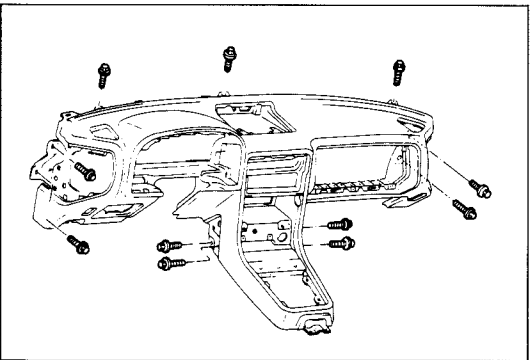
## Instrument Panel

1. Remove the tilt steering shaft bolts (2).



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2. Remove the hood release lever nut, and remove the hood release lever.



97U0SX-014

3. Remove the instrument panel attaching bolts (11).
4. Disconnect the ignition switch connectors and other connectors.
5. Carefully remove the instrument panel.

## INSTALLATION

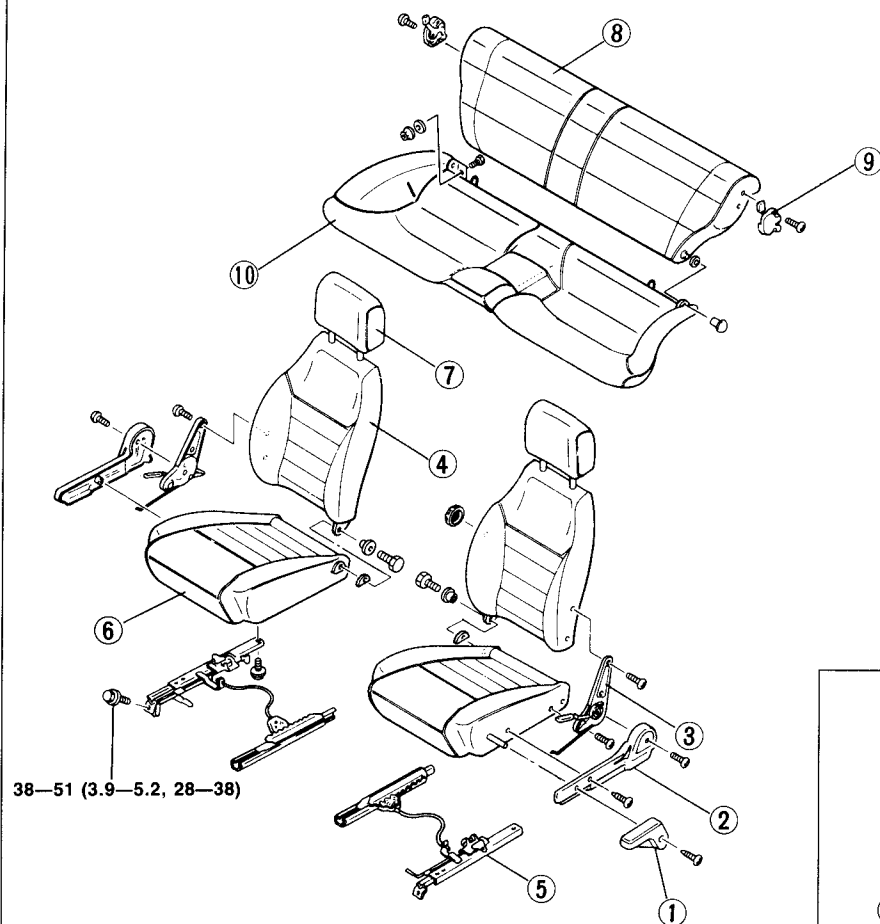
1. Install in the reverse order of removal.

### Tightening torque:

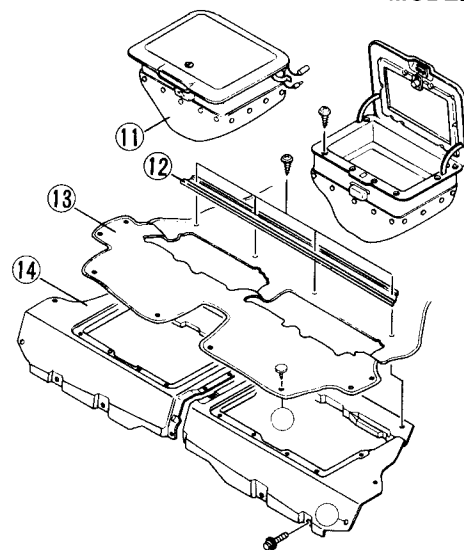
**8.8—13 N·m (0.9—1.3 m·kg, 6.5—9.4 ft·lb)**

**SEAT****REMOVAL AND INSTALLATION**

1. Remove in the order shown in the figure.
2. Install in the reverse order of removal.

**COUPE**

38—51 (3.9—5.2, 28—38)

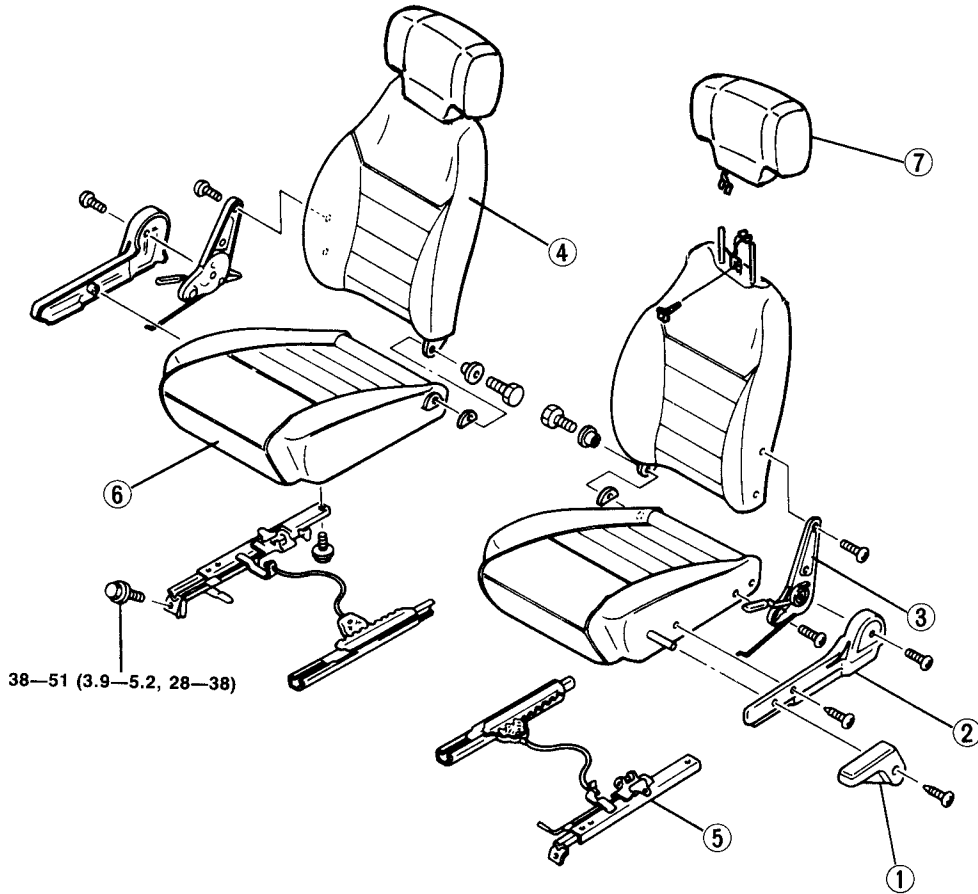
**REAR DECK FOR 2-SEATER MODEL**

N-m (m·kg, ft·lb)

97U0SX-015

- |                      |                       |                     |
|----------------------|-----------------------|---------------------|
| 1. Lever             | 6. Seat cushion       | 11. Storage box     |
| 2. Knuckle cover     | 7. Headrest           | 12. Mat set plate   |
| 3. Reclining knuckle | 8. Rear seat back     | 13. Cargo space mat |
| 4. Seat back         | 9. Seat back lock     | 14. Rear deck       |
| 5. Adjuster          | 10. Rear seat cushion |                     |

## CONVERTIBLE



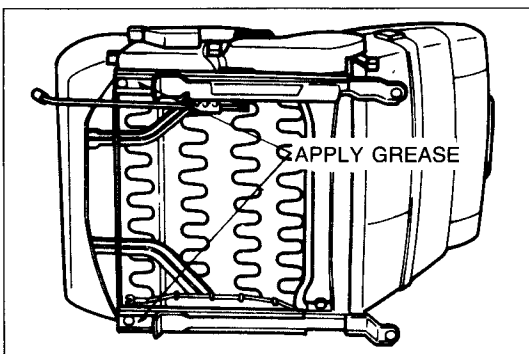
N-m (m-kg, ft-lb)

97U0SX-016

- 1. Lever
- 2. Knuckle cover
- 3. Reclining knuckle

- 4. Seat back
- 5. Adjuster

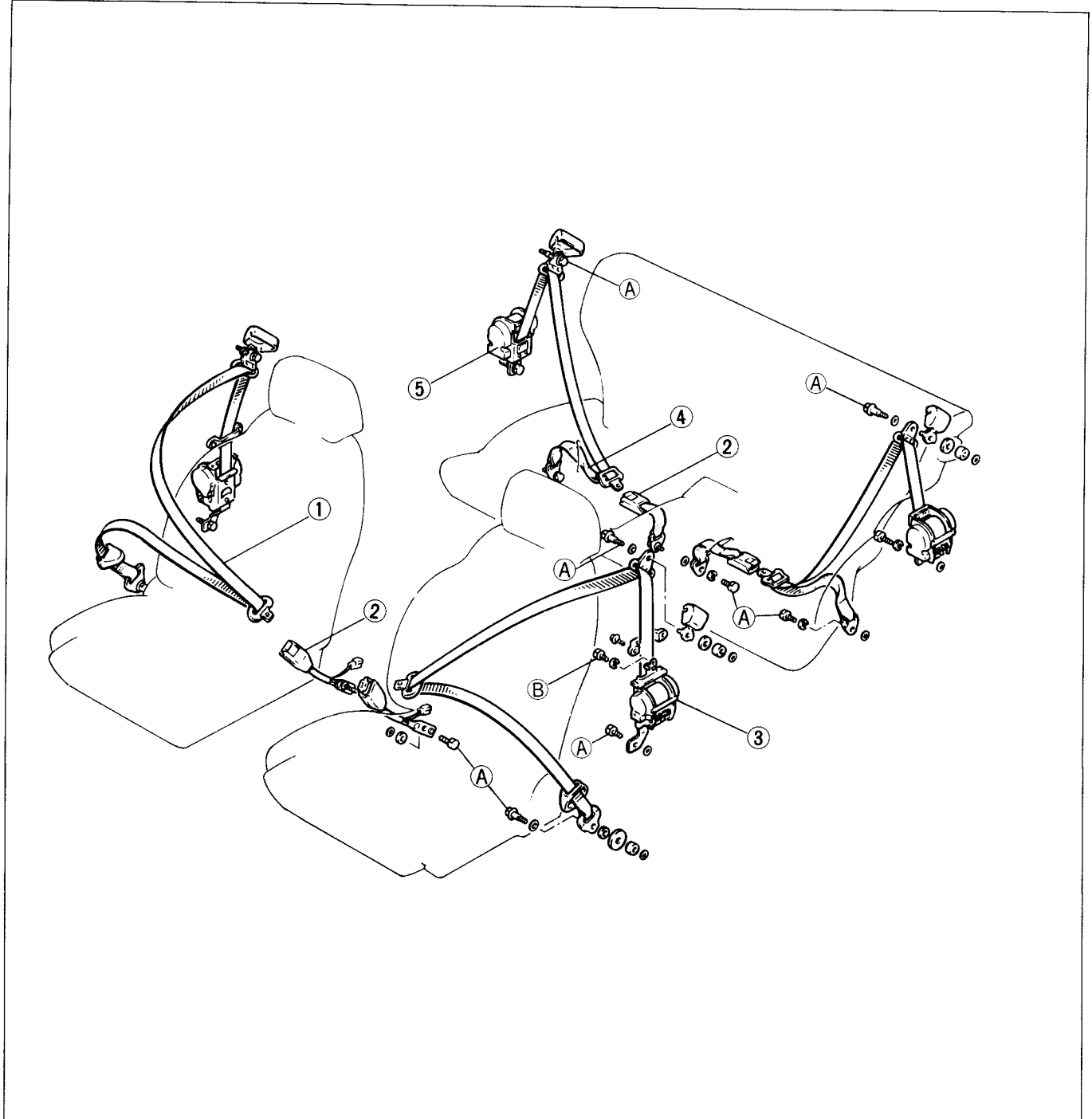
- 6. Seat cushion
- 7. Headrest (with speaker)



67U14X-009

### INSPECTION

- a) Check that the seat adjuster lever and reclining knuckle move smoothly.  
Apply grease to the moving parts.
- b) Check the adjustment lever for wear.
- c) Check the front seat mounting bolts for looseness.

**SEAT BELT****STANDARD SHOULDER BELT**  
Structural View

97U0SX-017

1. Front seat belt
2. Buckle
3. Retractor (E.L.R.)

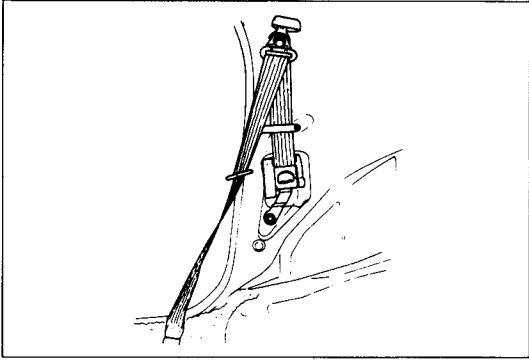
4. Rear seat belt (For Coupe)
5. Rear retractor (E.L.R.)

**Caution**

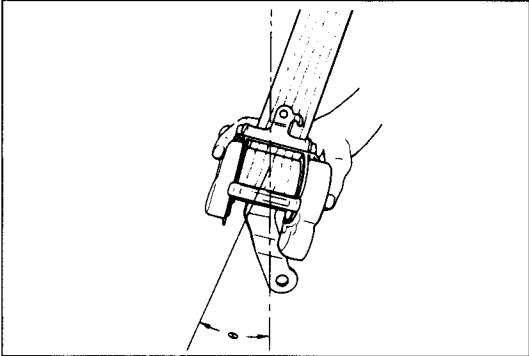
**Do not disassemble the buckles or retractors.**

**Tightening torque:**

- A: 38—78 N·m (3.9—8.0 m·kg, 28—58 ft·lb)**  
**B: 4.9 N·m (50 cm·kg, 43 in·lb)**



97U0SX-018



97U0SX-019

## Inspection

1. Check that the belt can be pulled out smoothly and that it moves smoothly when worn.
2. Check the webbing for scars, tears, wear, and deformation of the fittings.

## Warning

**Do not disassemble the buckle or ELR assembly.**

3. Verify that the retractor locks when quickly pulling the belt.
4. Remove the retractor.
5. Hold the retractor as it is installed.
6. Slowly incline the retractor while pulling out the belt.
7. Verify that the retractor locks at **approx. 30 degrees** inclination.

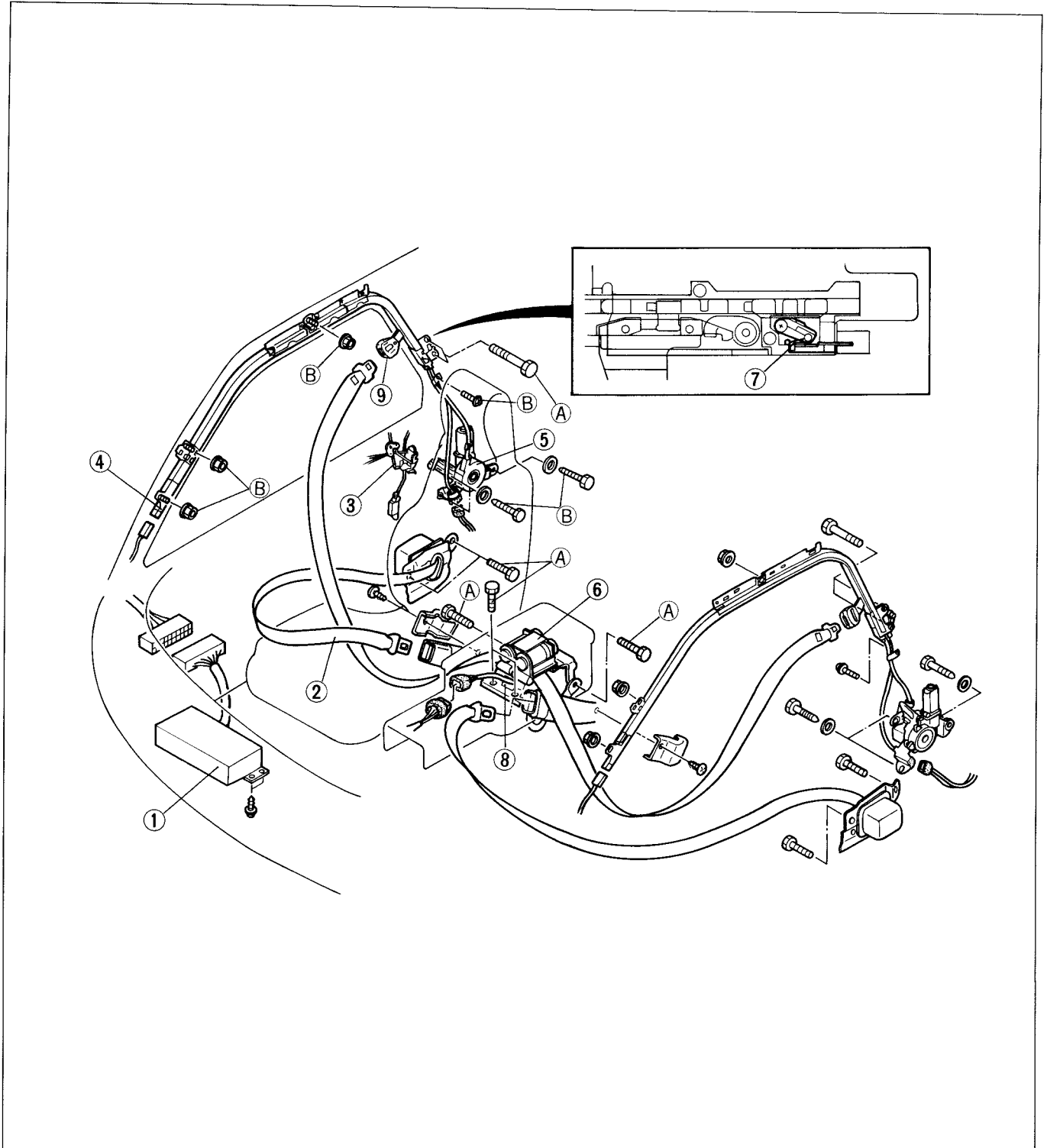
## Caution

**Do not disassemble the ELR assembly.**



## PASSIVE SHOULDER BELT

### Structural View



97U0SX-020

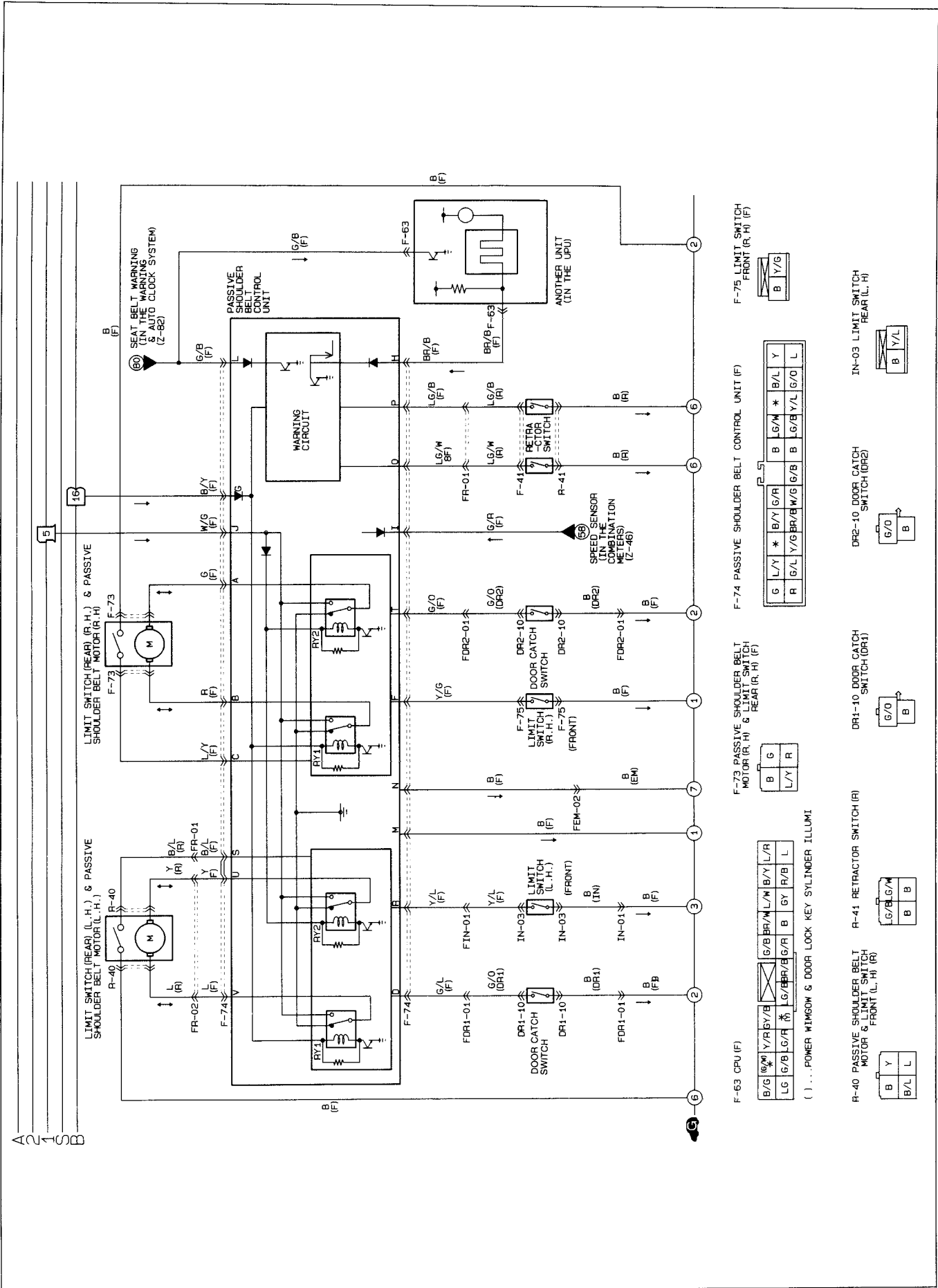
- |  |   |
|--|---|
| 1. Passive shoulder belt control unit        | 6. Passive shoulder belt retractor                                      |
| 2. Lap belt                                  | 7. Limit switch (Rear)  |
| 3. Door catch switch (in door lock assembly) | 8. Passive shoulder belt warning switch<br>(in shoulder belt retractor) |
| 4. Limit switch (Front)                      | 9. Buckle   |
| 5. Passive shoulder belt motor               |   |

#### Tightening torque:

- A: 38—78 N·m (3.9—8.0 m·kg, 28—58 ft·lb)**  
**B: 7.8—11 N·m (80—110 cm·kg, 69—95 in·lb)**

# S SEAT BELT

## Circuit Diagram



F-63 CRU (F)

F-74 PASSIVE SHOULDER BELT CONTROL UNIT (F)

F-75 PASSIVE SHOULDER BELT MOTOR (R, H) & LIMIT SWITCH REAR (R, H) (F)

F-75 LIMIT SWITCH FRONT (R, H) (F)

B	Y/G
---	-----

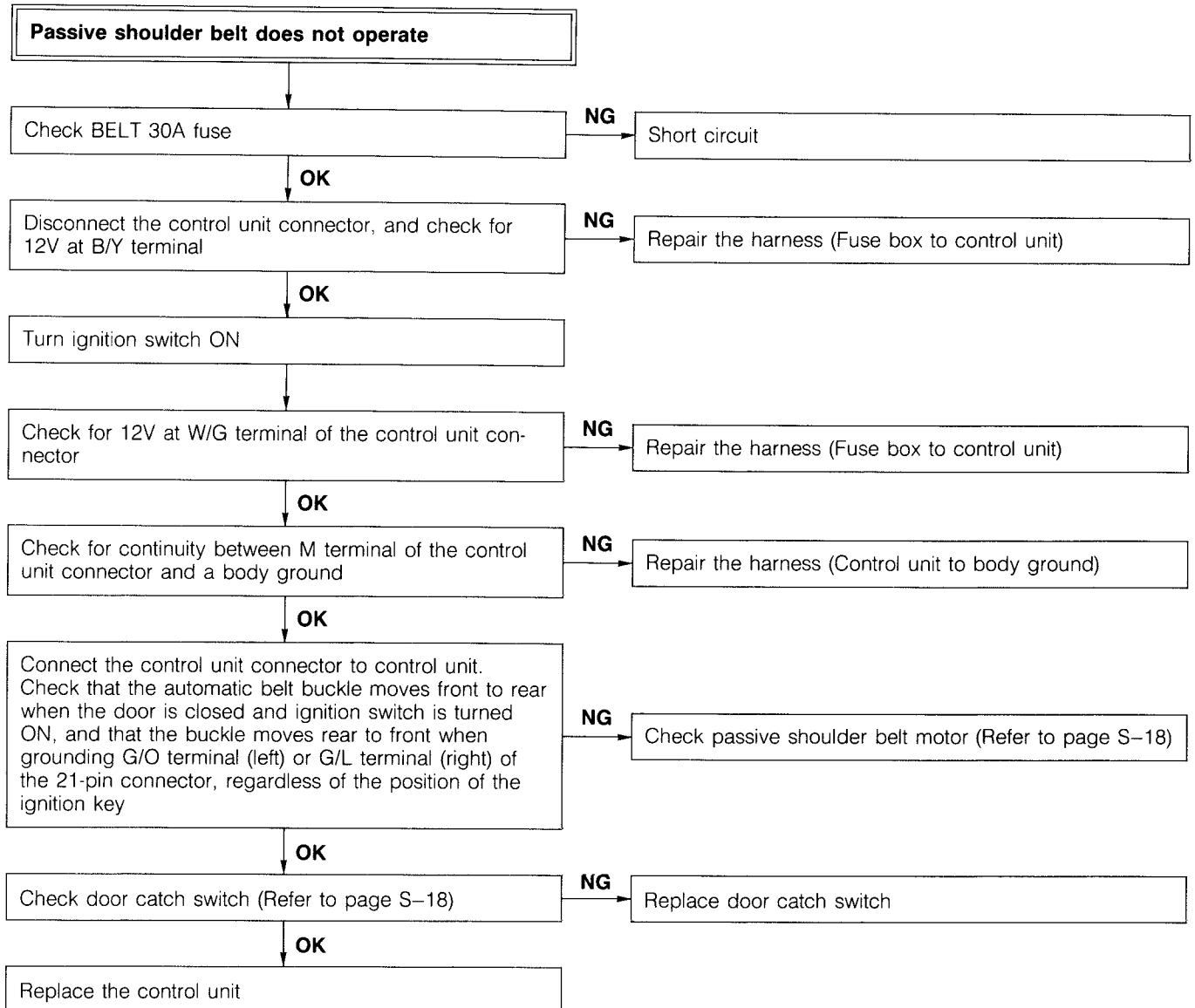
G	L/Y	*	B/Y	G/R	B	G/M	*	B/L	Y
R	G/L	Y/G	BR/W/G	G/B	B	G/B	Y/L	G/O	L

G	R
B	L/Y

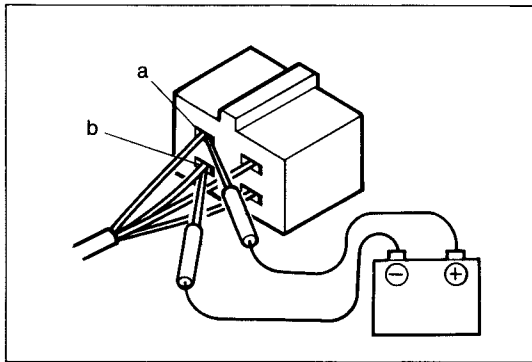
B/G	G/M	Y/R	B/Y	G/B	BR/L/M	B/Y	L/R
L/G	G/B	LG/R	G/R	B	G/Y	R/B	L

- IN-03 LIMIT SWITCH REAR (L, H)
- DR2-10 DOOR CATCH SWITCH (DR2)
- DR1-10 DOOR CATCH SWITCH (DR1)
- R-41 RETRACTOR SWITCH (R)
- R-40 PASSIVE SHOULDER BELT MOTOR & LIMIT SWITCH FRONT (L, H) (R)

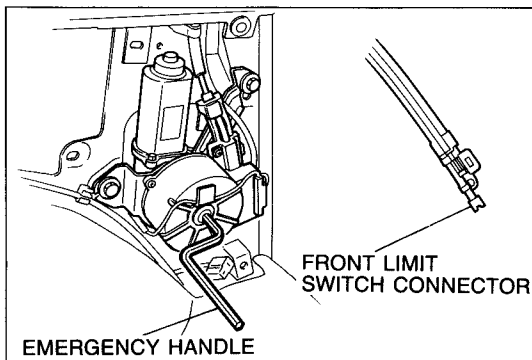
( ) ... POWER WINDOW & DOOR LOCK KEY CYLINDER ILLUMI

**Troubleshooting**

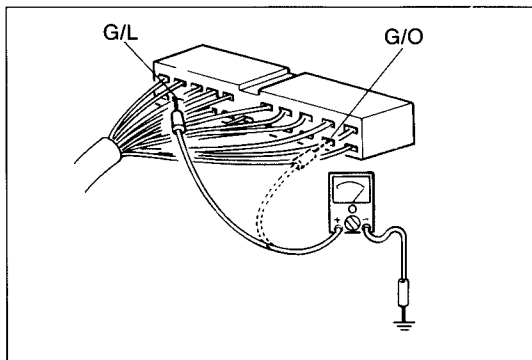
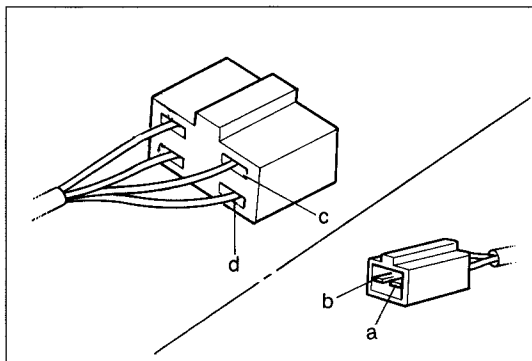
97U0SX-022



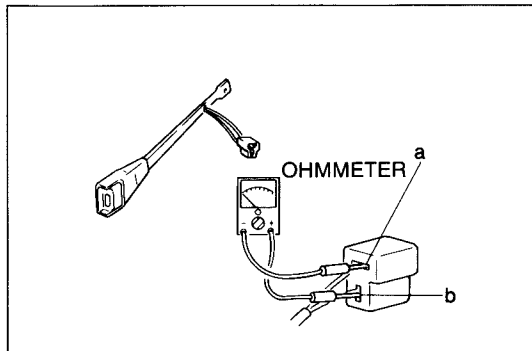
97U0SX-023



97U0SX-024



97U0SX-025



97U0SX-026

## Inspection

### Passive shoulder belt motor

1. Remove the front and center pillar trim and disconnect the passive shoulder belt motor connector.
2. Connect 12V to terminal a and ground terminal b. Verify that the motor rotates in the forward direction (release).
3. Reverse the above connection, and check that the motor rotates in the rearward direction (lock).

### Caution

**Do not operate the motor for an extended period of time.**

### Limit switch

1. Remove the front and center pillar trim and disconnect the passive shoulder belt motor connector, and disconnect the limit switch connector.
2. Check continuity between the limit switch terminals with each condition using the emergency handle.

Limit switch	Front		Rear	
	a	b	c	d
Released (Front)	○—○			
Released and Locked				
Locked (Rear)			○—○	

○—○: Indicates continuity

### Door catch switch

1. Disconnect the passive shoulder belt control unit 21 pin connector.
2. Check continuity between the G/L wire and G/O wire and a body ground with each condition.

Door position	Left		Right	
	G/L	Ground	G/O	Ground
Open	○—○		○—○	
Closed				

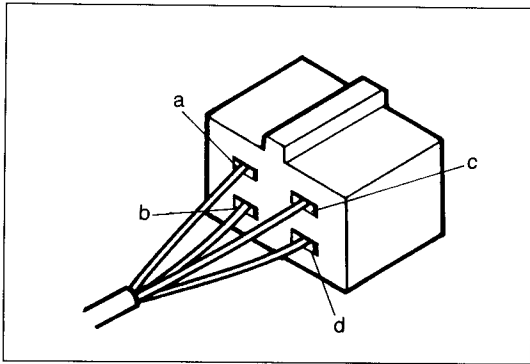
○—○: Indicates continuity

### Buckle switch (Lap belt)

1. Disconnect the buckle switch connector.
2. Check continuity of the switch with an ohmmeter.

Lap belt	Terminal	a	b
Unfastened		○—○	
Fastened			

○—○: Indicates continuity



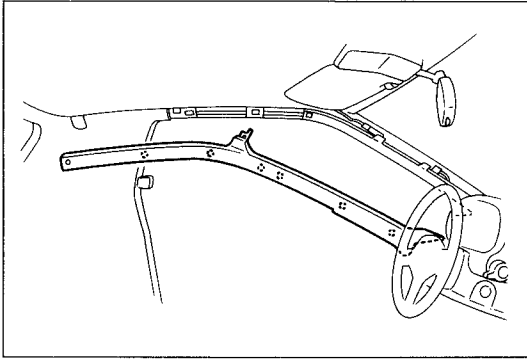
97U0SX-027

### Seat belt warning switch

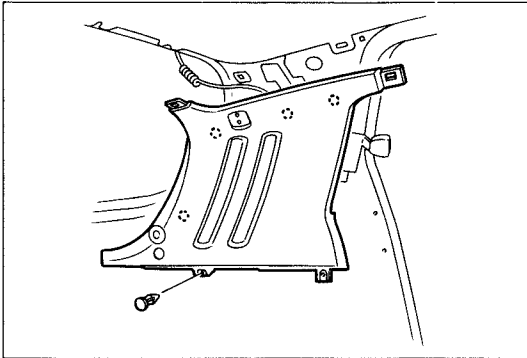
1. Remove the passive shoulder belt retractor connector.
2. Check continuity between the terminals when the passive shoulder belt is at rear the lock position.

Terminal		Left side		Right side	
		a	b	c	d
Locked	Belt fastened	○—○	○—○	○—○	○—○
	Belt unfastened				

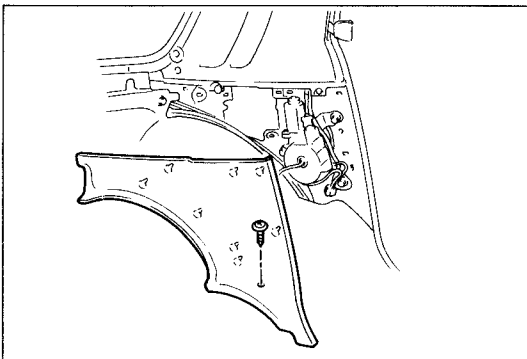
○—○: Indicates continuity



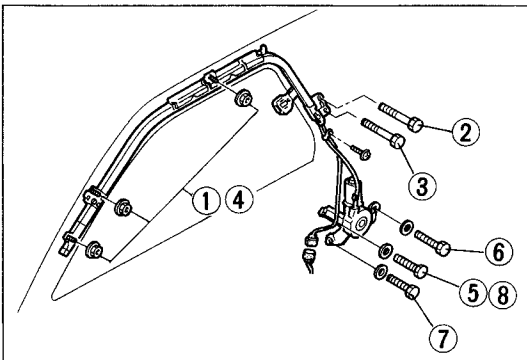
97U0SX-028



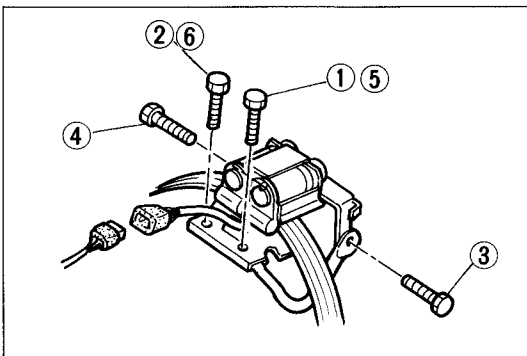
97U0SX-029



97U0SX-030



97U0SX-031



97U0SX-223

## Removal

1. Remove the front pillar trim.
2. Remove the B pillar trim.
3. Remove the quarter trim.
4. Remove the mounting bolts.
5. Remove the passive shoulder belt motor and rail.

## Installation

Install in the reverse order of removal.

### Note

(a) The passive shoulder belt motor and rail install in the order shown in the figure.

- ① ⑤ ..... tighten temporarily
- ② ③ ④ ⑥ ⑦ ⑧ ..... tighten completely

(b) The passive shoulder belt retractor install in the order shown in the figure.

- ① ② ..... tighten temporarily
- ③ ④ ⑤ ⑥ ..... tighten completely

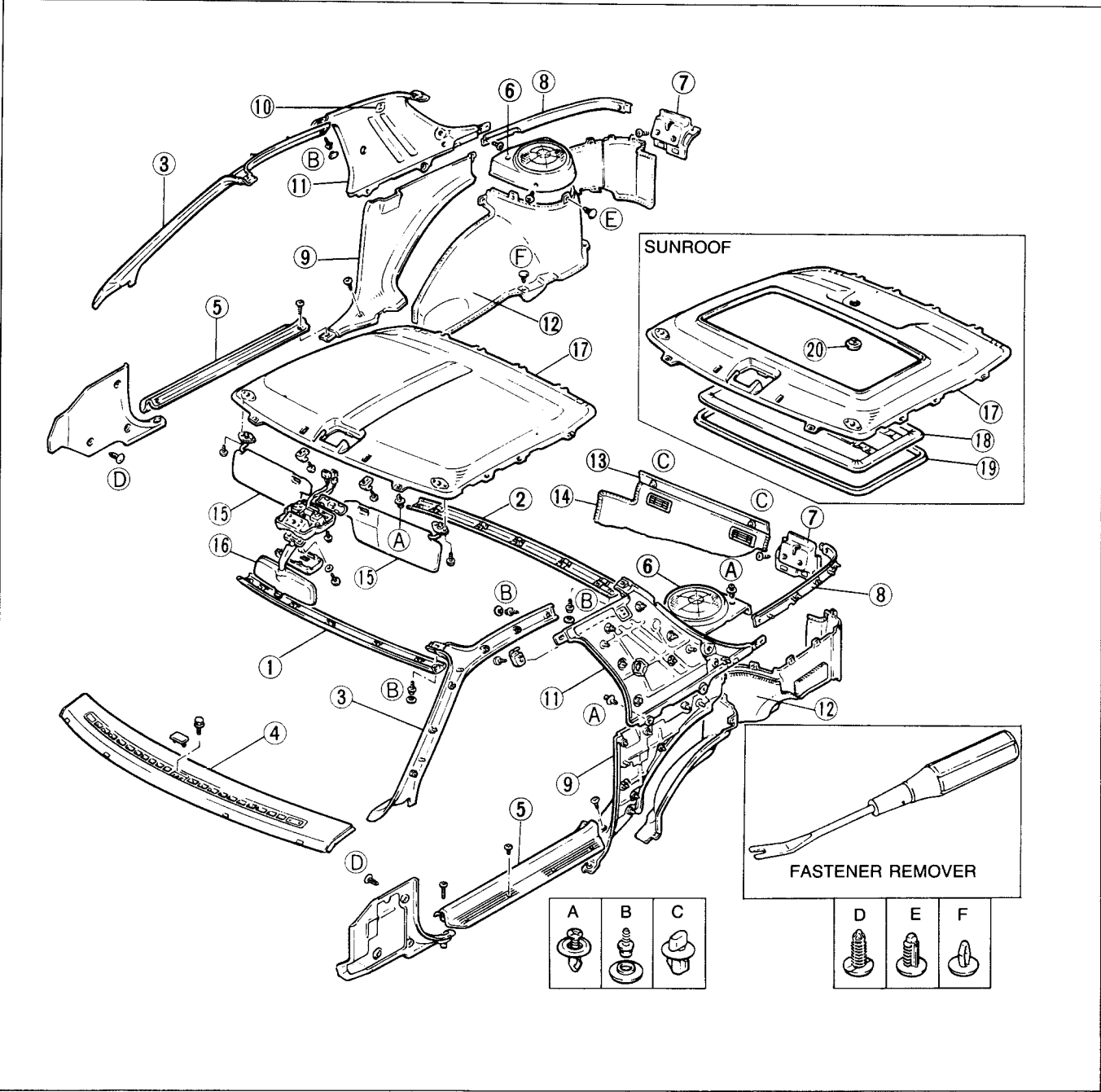
### Caution

Before the new rail is installed, disconnect the negative battery cable surely. If not remove the battery cable, the shoulder belt does not operate. In this case, disconnect the battery cable and reconnect the cable. The system operates properly.

**HEADLINER, GARNISH, AND TRIM**

**REMOVAL AND INSTALLATION**

Remove and install as shown in the figure.



97U0SX-032

- |                                |                                     |                        |
|--------------------------------|-------------------------------------|------------------------|
| 1. Front top garnish           | 8. Upper trunk side trim (R and L)  | 13. Upper end trim     |
| 2. Rear top garnish            | 9. Quarter trim (R and L)           | 14. Lower end trim     |
| 3. Front pillar trim (R and L) | 10. Coat hanger (R and L)           | 15. Sunvisor (R and L) |
| 4. Instrument panel garnish    | 11. B pillar trim (R and L)         | 16. Rearview mirror    |
| 5. Scuff plate (R and L)       | 12. Lower trunk side trim (R and L) | 17. Headliner          |
| 6. Speaker grille (R and L)    |                                     | 18. Inner trim         |
| 7. Lock cover (R and L)        |                                     | 19. Seaming welt       |
|                                |                                     | 20. Motor hole cover   |

**Note**

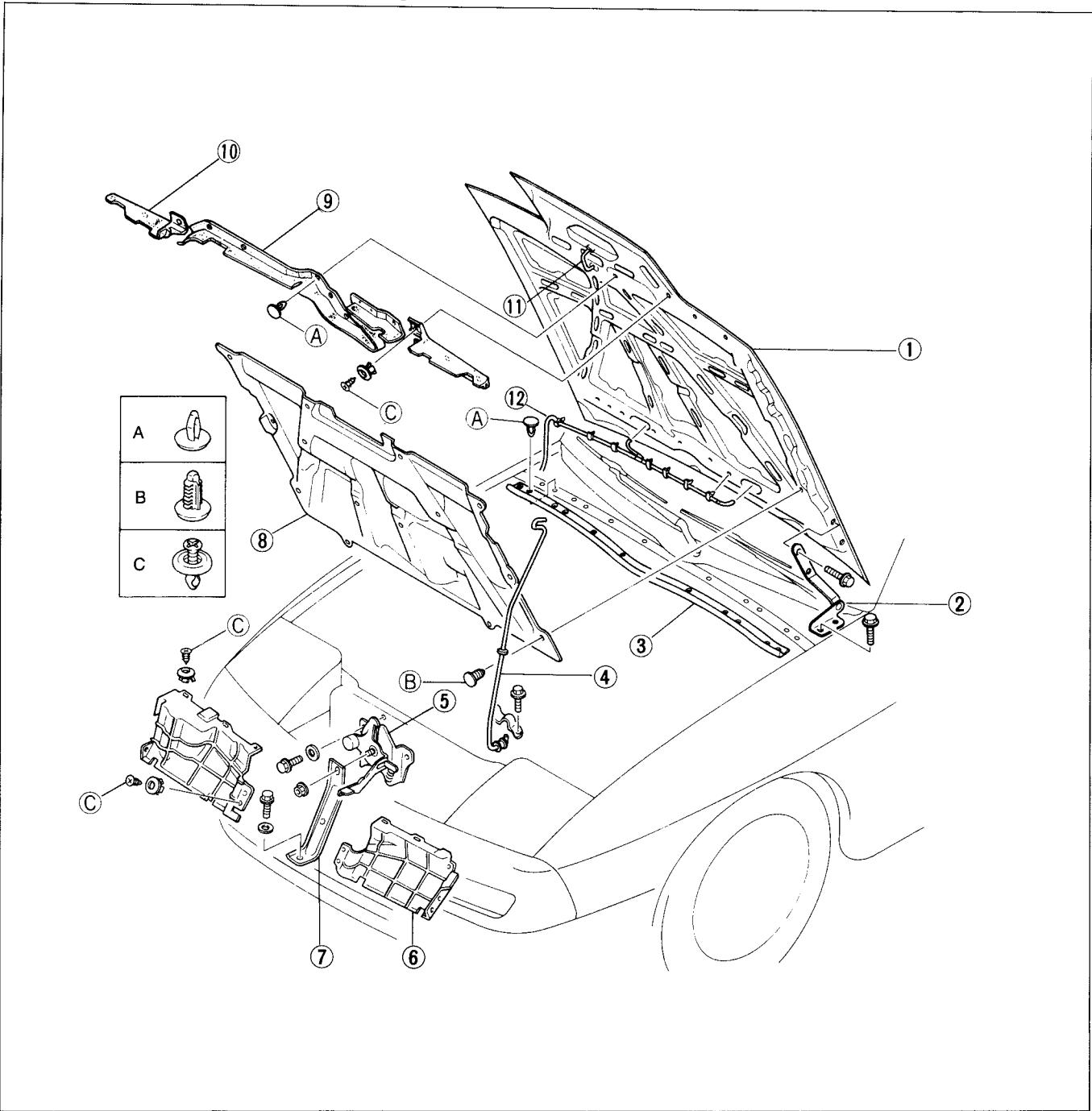
Use a fastener remover like the one shown in the figure to remove the "D", "E", and "F" type fasteners.

# S HOOD AND HOOD LOCK

## HOOD AND HOOD LOCK

### REMOVAL AND INSTALLATION

Remove and install as shown in the figure.



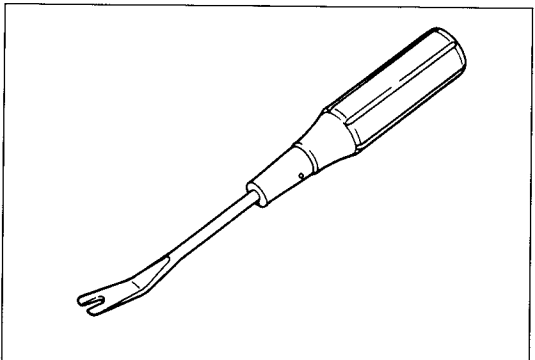
97U0SX-033

- |                     |                               |                                   |
|---------------------|-------------------------------|-----------------------------------|
| 1. Hood panel       | 5. Hood lock                  | 9. Front seal rubber              |
| 2. Hinge (R and L)  | 6. Upper duct cover (R and L) | 10. Headlight protector (R and L) |
| 3. Cowl seal rubber | 7. Lock brace                 | 11. Striker                       |
| 4. Hood stay        | 8. Insulator                  | 12. Windshield washer hose        |

#### Caution

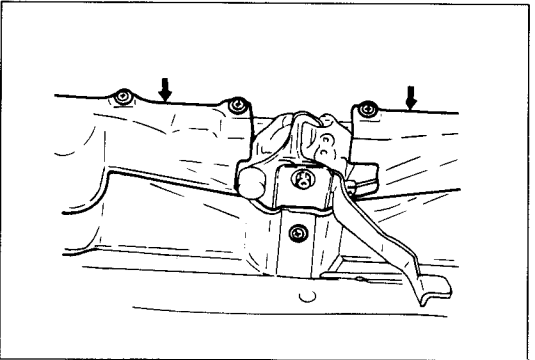
- a) Do not replace steel hoods with aluminum hoods without replacing the hood hinges, as aluminum hoods need electrically insulated hinges to prevent electrolytic corrosion.
- b) Two types of hood locks are used; one for aluminum hoods and one for steel hoods. The strengths of the locks are different due to the weight of the hoods. Use only the proper lock for the respective hood.





67U14X-017

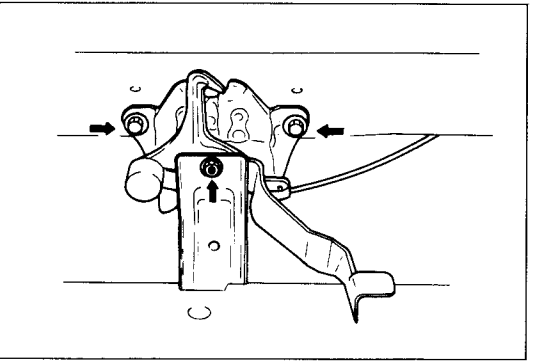
**Note**  
Use a fastener remover like the one shown in the figure to remove the "A" and "B" type fasteners.



97U0SX-034

### ADJUSTMENT Hood Lock

1. Remove the upper duct cover.



67U14X-019

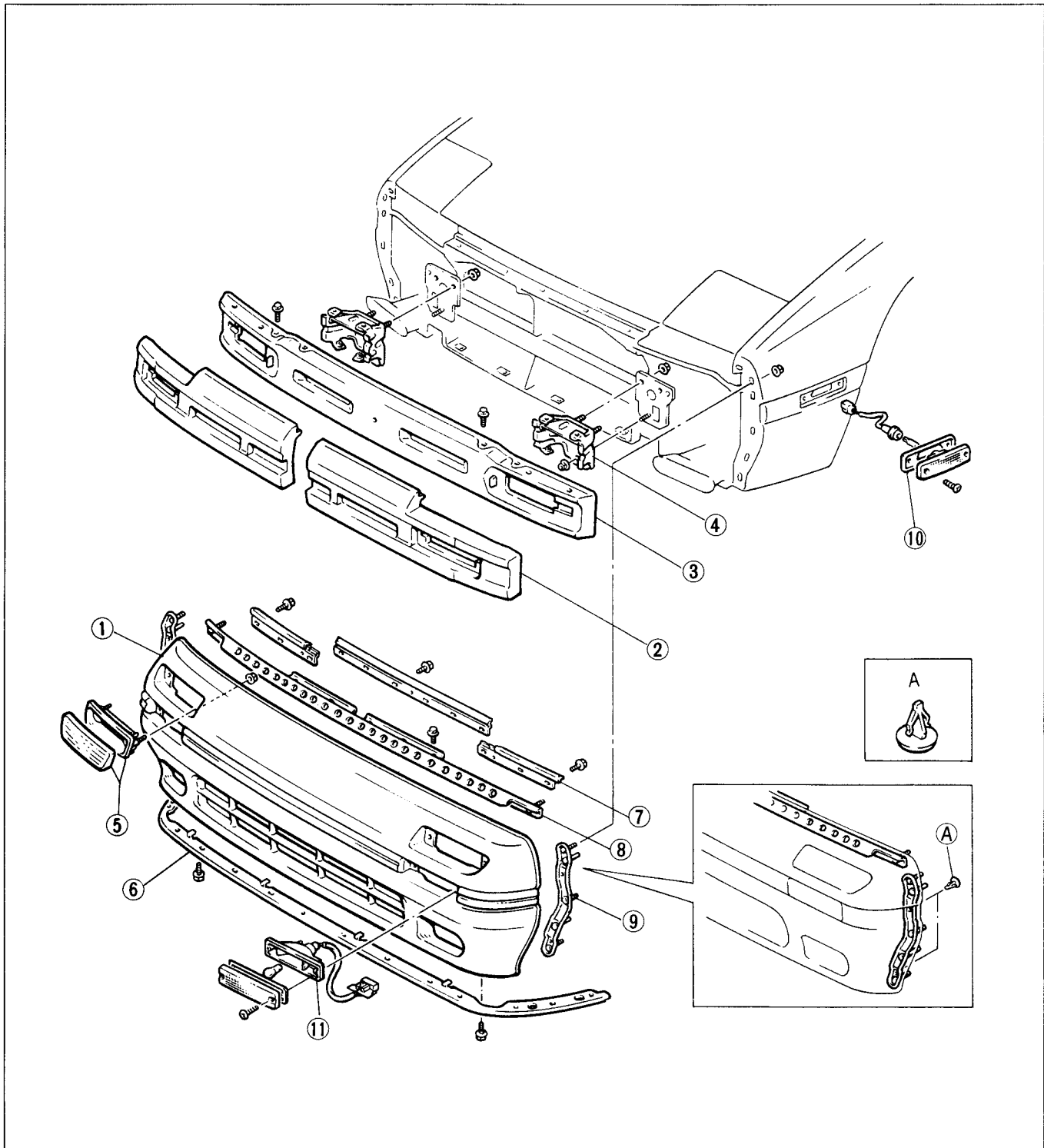
2. Loosen the lock attaching bolts and nuts to adjust the hood lock.

# S FRONT BUMPER

## FRONT BUMPER

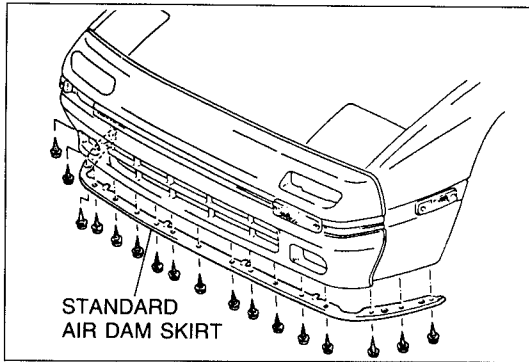
### REMOVAL AND INSTALLATION

Remove and install as shown in the figure.

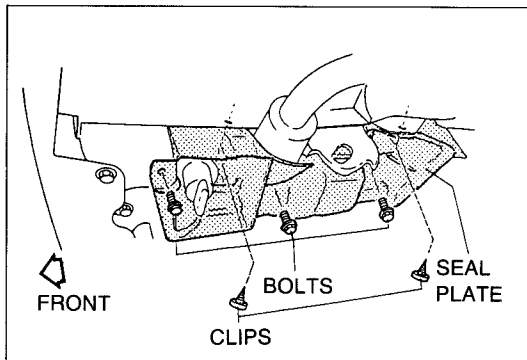


97U0SX-035

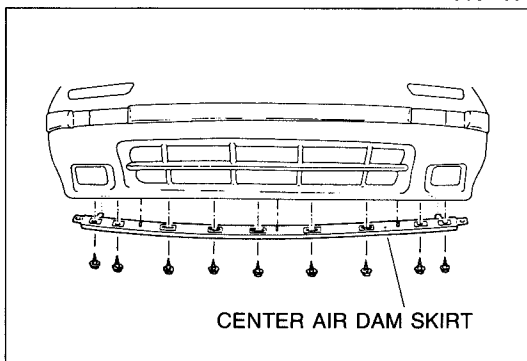
- |  |   |
|--|---|
| 1. Fascia                              | 8. Retainer   |
| 2. Energy-absorbing foam (R and L)     | 9. Side set plate (R and L)   |
| 3. Bumper reinforcement                | 10. Front-side marker light<br>Bulb: 3.8 W (194)                                |
| 4. Bumper stay (R and L)               | 11. Front combination light<br>Bulb: Turn signal/Parking light<br>27/8 W (1157) |
| 5. Passing port window cover (R and L) |   |
| 6. Front airdam skirt                  |   |
| 7. Upper set plate (3)                 |   |



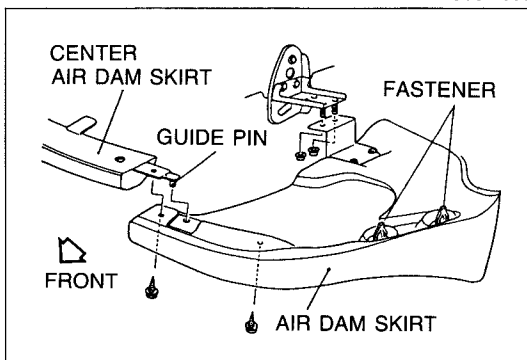
97U0SX-036



97U0SX-037



97U0SX-038



97U0SX-039

## FRONT AIR DAM SKIRT

### Installation

1. Jack up the front of the vehicle and support it with safety stands.
2. Remove the standard air dam skirt.

### Note

**Do not reuse the seventeen (17) screws attaching the air dam skirt.**

3. Remove the seal plate from the right and left sides as the figure shows.

### Note

**Keep the seal plate, bolts, and clips because they are reused.**

4. Install the center air dam skirt using the screws supplied in the kit.

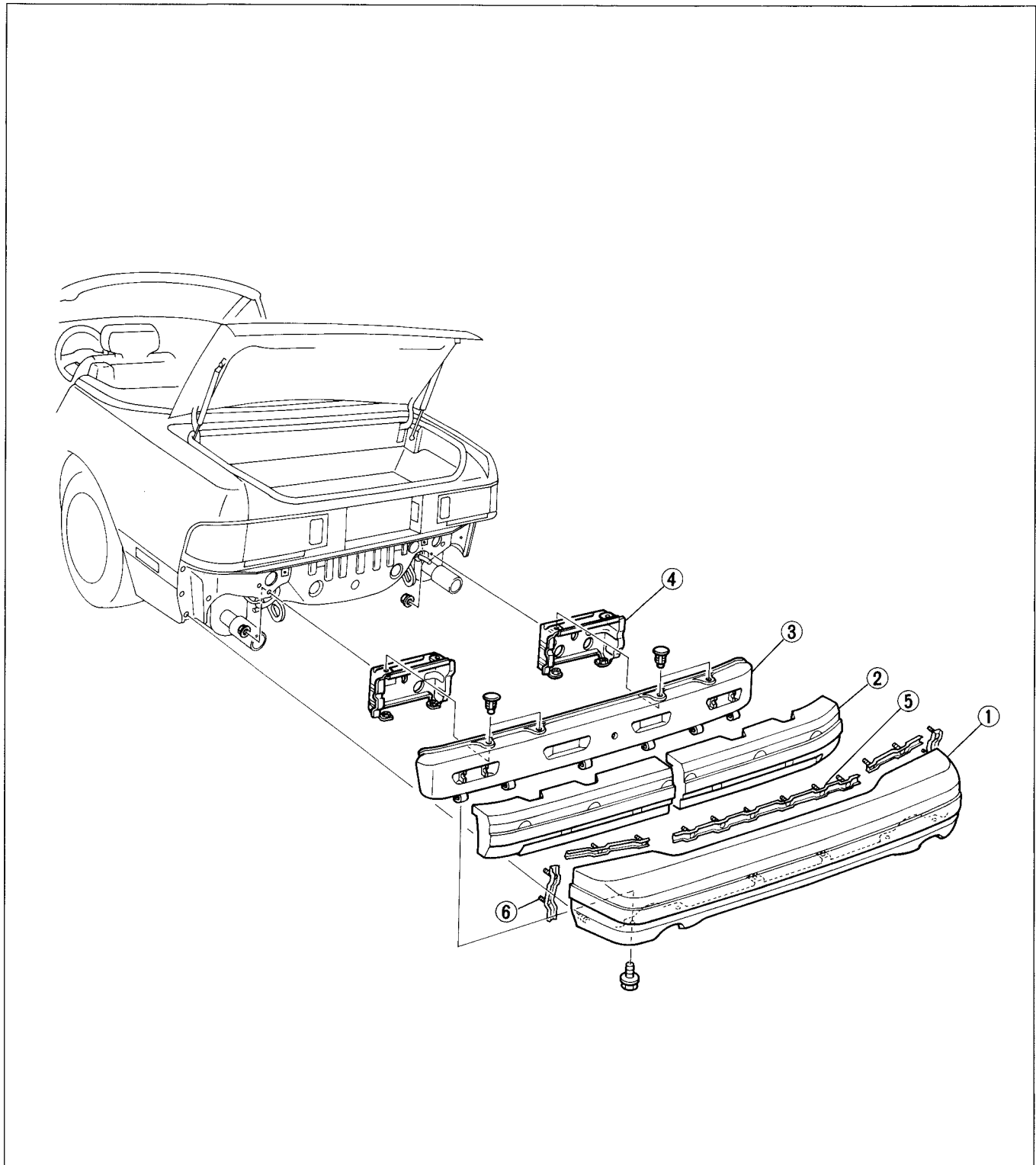
5. Install the right and left air dam skirts.
6. Attach the seal plates which was removed previously.

# S REAR BUMPER

## REAR BUMPER

### REMOVAL AND INSTALLATION

Remove and install as shown in the figure.



97U0SX-040

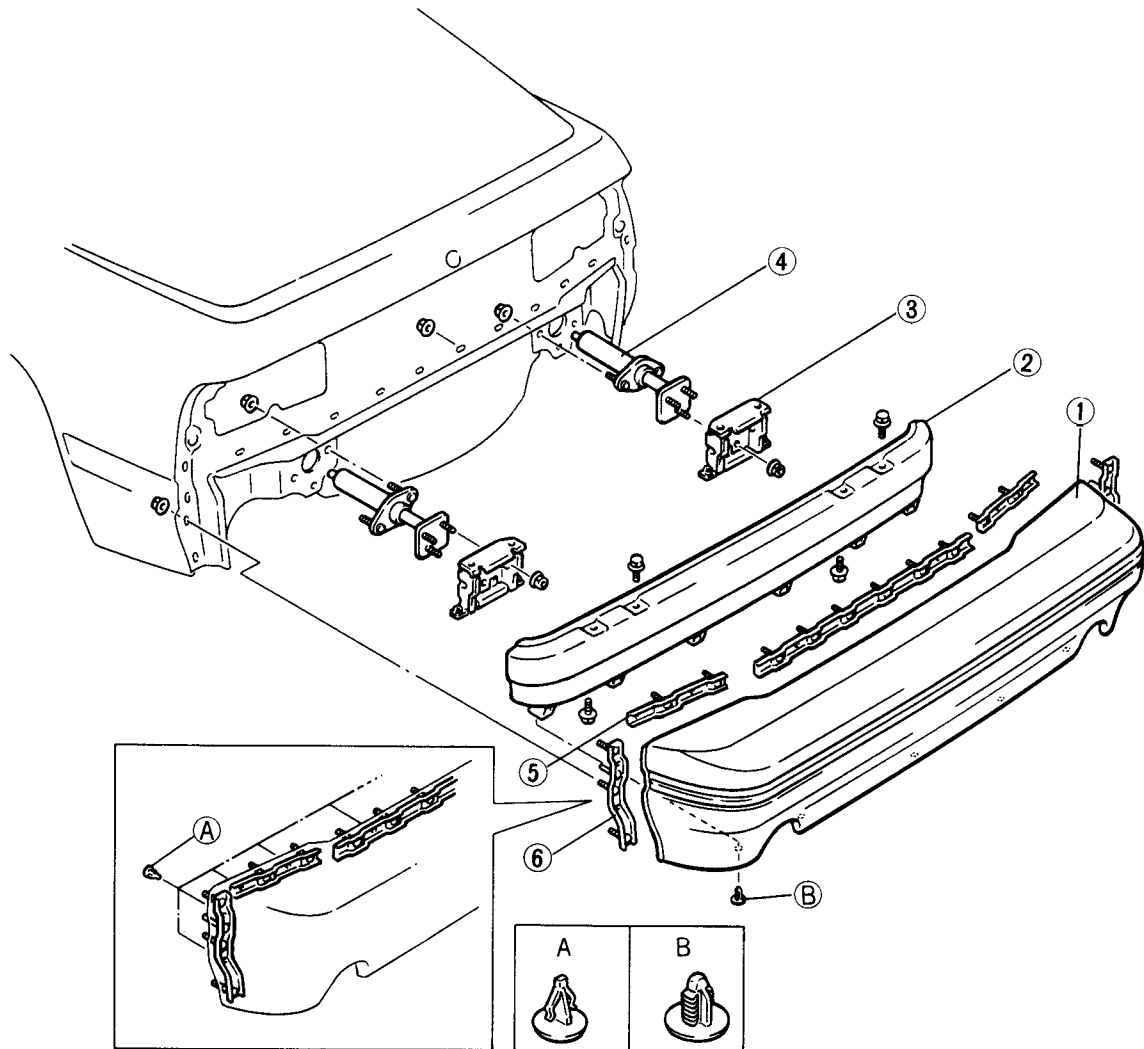
1. Fascia
2. Energy-absorbing foam (R and L)
3. Bumper reinforcement

4. Bumper stay (R and L)
5. Upper set plate (3)
6. Side set plate (R and L)

#### Note

Use a fastener remover like the one shown in the figure to remove the "A" and "B" type fasteners.

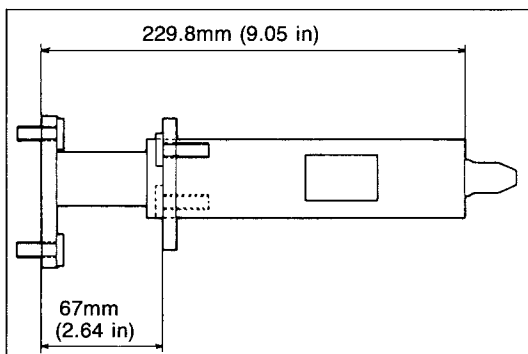
(CANADA)



97U0SX-041

- 1. Fascia
- 2. Bumper reinforcement
- 3. Bumper stay (R and L)

- 4. Shock absorber (R and L)
- 5. Upper set plate (3)
- 6. Side set plate (R and L)



97U0SX-042

### INSPECTION OF SHOCK ABSORBER

- 1. Check that lengths are within specification.
- 2. Check for any oil or gas leakage.

### Warning

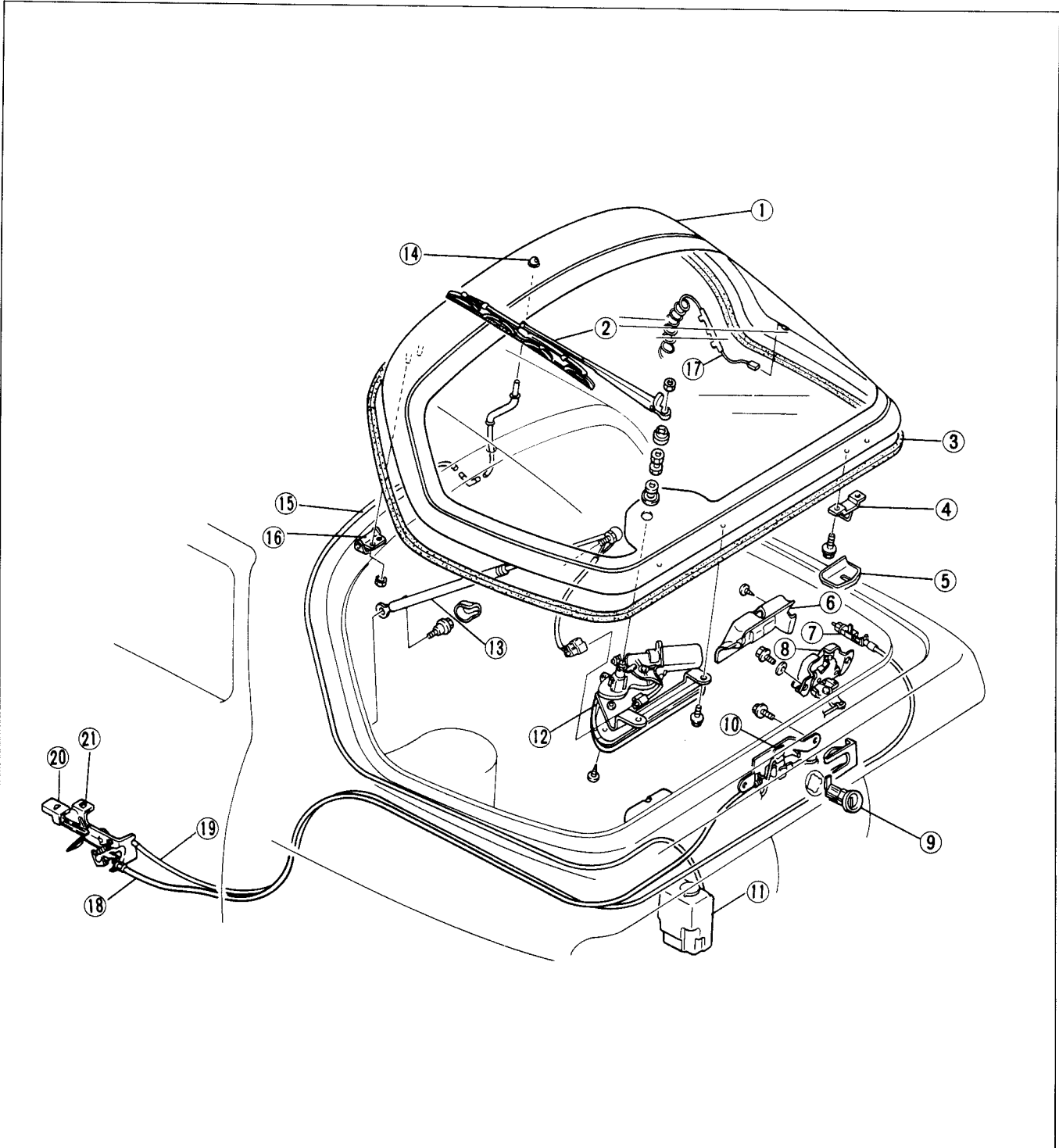
**Do not disassemble the shock absorbers or expose them to fire.**

# S REAR HATCH, REAR WIPER, AND FUEL-LID OPENER

## REAR HATCH, REAR WIPER, AND FUEL-LID OPENER

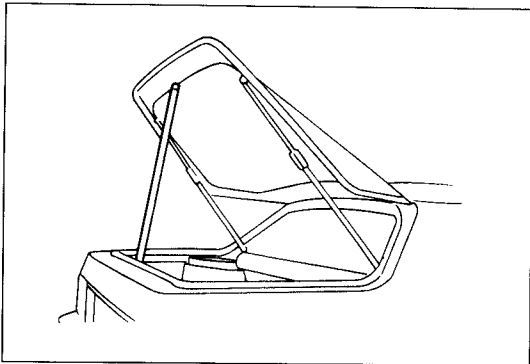
### REMOVAL AND INSTALLATION

Remove and install as shown in the figure.

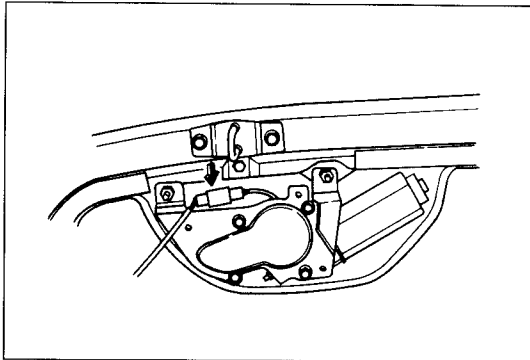


97U0SX-043

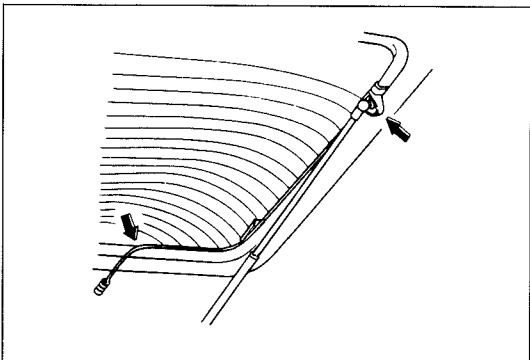
- |                         |                           |                                |
|-------------------------|---------------------------|--------------------------------|
| 1. Rear hatch           | 8. Lock (R and L)         | 15. Washer hose                |
| 2. Wiper arm and blade  | 9. Key cylinder           | 16. Rear hatch hinge (R and L) |
| 3. Weatherstrip         | 10. Opener unit           | 17. Defroster wiring           |
| 4. Striker (R and L)    | 11. Washer tank           | 18. Release wire (Rear hatch)  |
| 5. Striker cover        | 12. Wiper motor assembly  | 19. Release wire (Fuel-lid)    |
| 6. Lock cover           | 13. Damper stay (R and L) | 20. Release lever (Rear hatch) |
| 7. Fuel-lid opener unit | 14. Washer nozzle         | 21. Release lever (Fuel-lid)   |



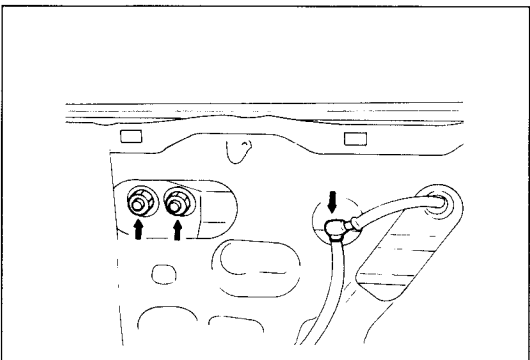
97U0SX-044



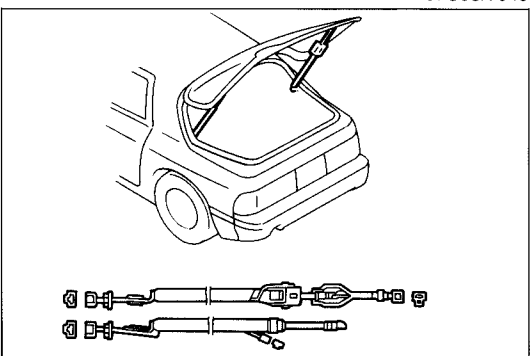
67U14X-025



67U14X-026



97U0SX-045



97U0SX-046

## Removal Note

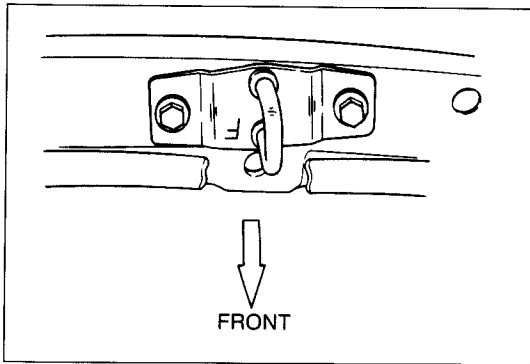
### Rear glass hatch

1. Disconnect the negative battery cable.
2. Open the rear hatch.
3. Support the rear hatch with a rod.
4. Disconnect the rear wiper motor connector.
5. Remove the rear defroster wiring from the rear hatch (R and L).
6. Disconnect the damper stays (R and L).
7. Close the rear hatch.
8. Remove the rear top garnish and headliner. (Refer to page S-21).
9. Disconnect the rear washer hose.
10. Remove the rear hatch hinge nuts (R and L).
11. Remove the rear hatch.

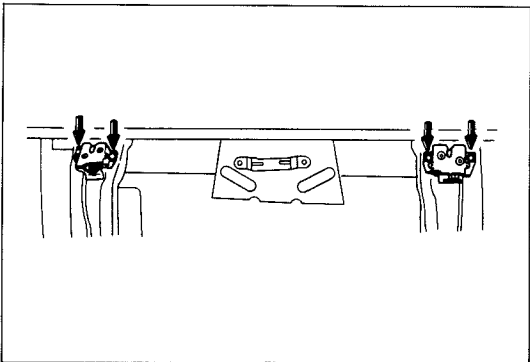
## Warning

- a) Do not disassemble the damper stay because it is filled with pressurized-gas and oil.
- b) Before discarding a damper stay that is being replaced, drill a 2 or 3mm (0.079 or 0.118 in) hole at the lower end of the cylinder and allow the high-pressure gas to escape. Be careful when venting it, because the gas and oil will escape with great force.

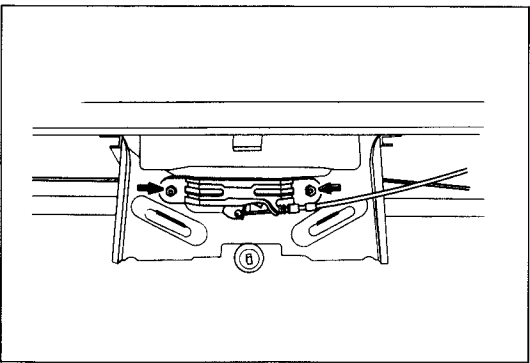
# S REAR HATCH, REAR WIPER, AND FUEL-LID OPENER



97U0SX-047



67U14X-030



67U14X-031

## ADJUSTMENT

### Rear Hatch Striker

The strikers can be adjusted forward or rearward by loosening the attaching bolts.

### Note

The strikers are directional with an "F" mark on them, indicating the front of the vehicle.

## Lock

1. To adjust the rear hatch locks, loosen the hatch lock attaching bolts and move the lock as required to align the rear hatch strikers.
2. To adjust the unlocking timing of the rear hatch locks, loosen the attaching bolts of the opener unit and move the opener unit to the right or left so that the two locks unlock simultaneously.



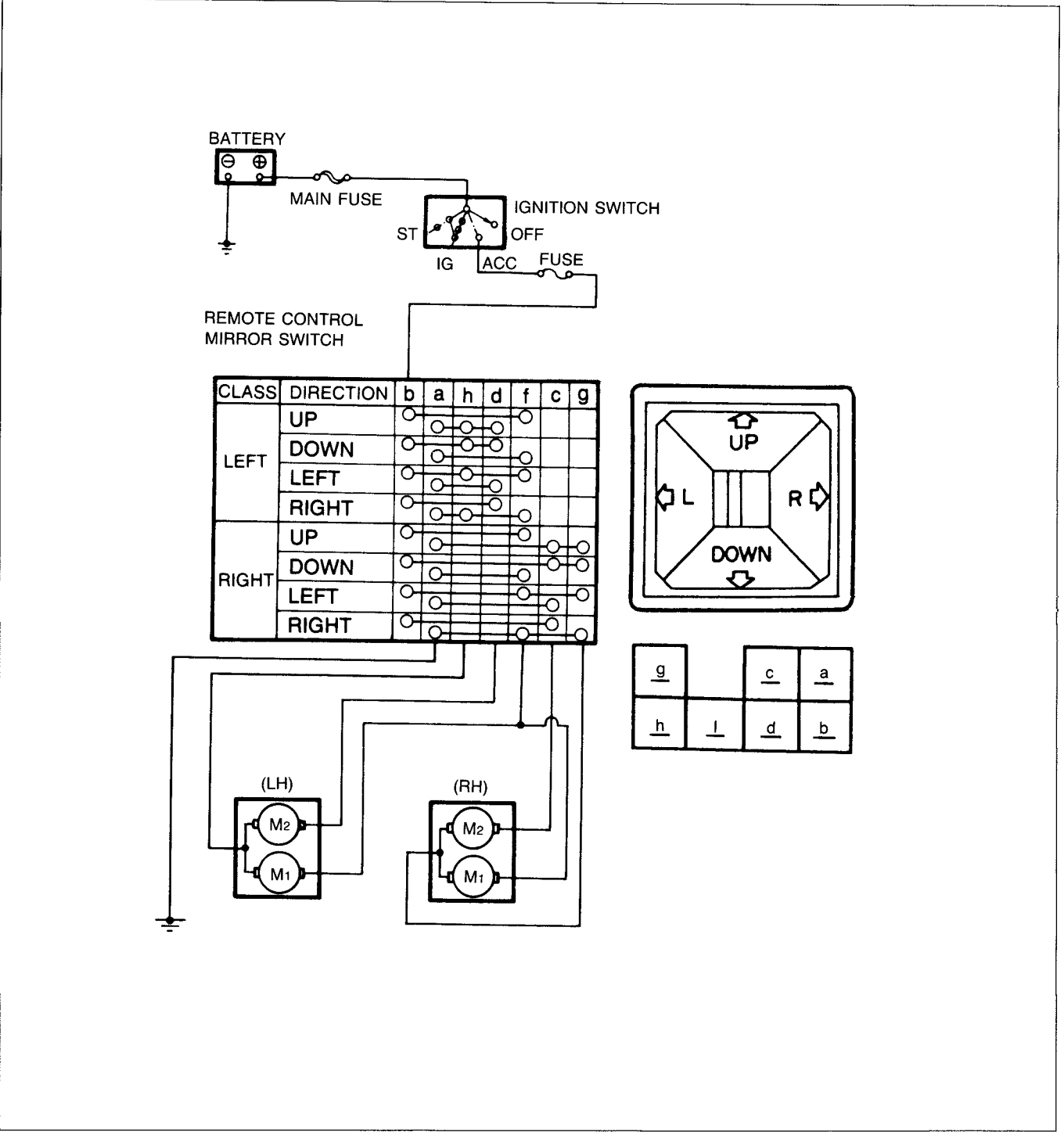
# REMOTE CONTROL MIRRORS

## TROUBLESHOOTING GUIDE

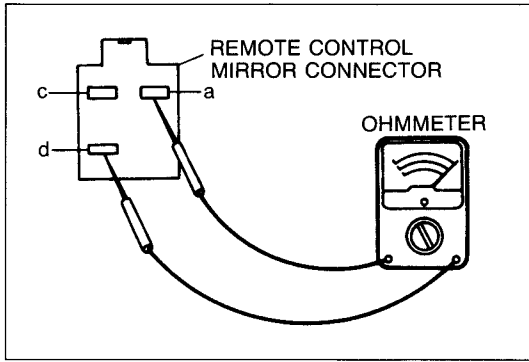
Problem	Possible Cause	Remedy	Page
<b>Remote control mirrors do not work</b>	CIGAR fuse blown Defective remote control mirror switch Defective wiring	Replace fuse and check Check or repair Repair	S-31 S-32
<b>Only one side mirror does not work</b>	Defective remote control mirror switch Defective remote control mirror Defective wiring or ground	Check or repair Check or repair Repair	S-32 S-32

97U0SX-048

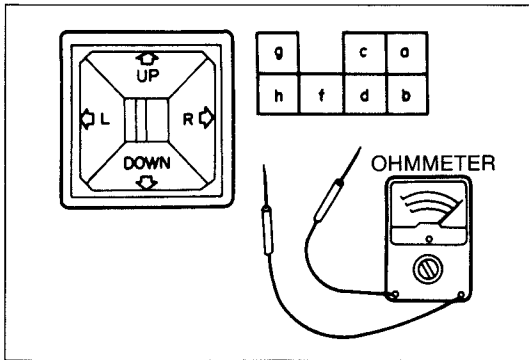
### Circuit Diagram



# S REMOTE CONTROL MIRRORS



97U0SX-050



97U0SX-051

## INSPECTION

### Remote Control Mirror

Connect an ohmmeter to the terminals of the mirror connector and check for continuity.

Terminal	Continuity
c — a	Yes
c — d	Yes
a — d	Yes

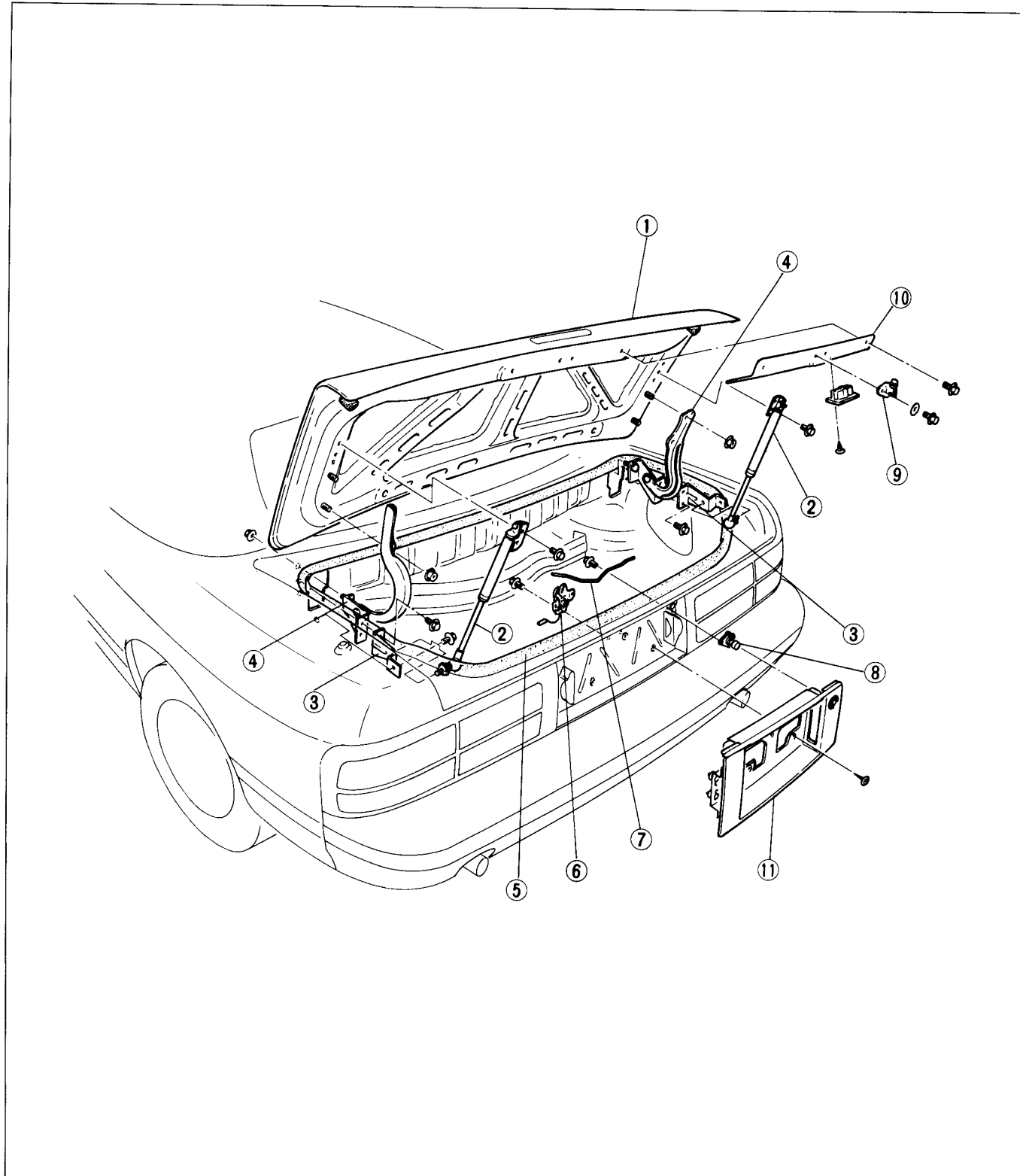
### Remote Control Mirror Switch

Use an ohmmeter to check the continuity of the terminals of the switch.

If continuity is not as specified, replace the switch.

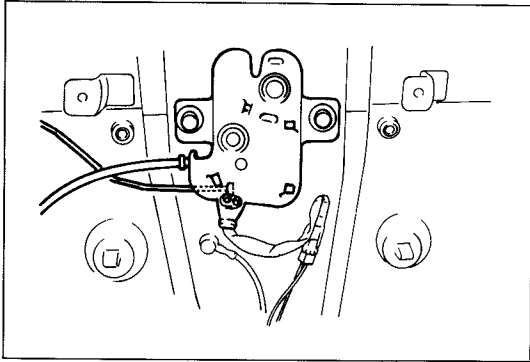
CLASS	DIRECTION	b	a	h	d	f	c	g
LEFT	UP	○	○	○	○	○		
	DOWN	○	○	○	○		○	
	LEFT	○	○	○	○		○	
	RIGHT	○	○	○	○		○	
RIGHT	UP	○	○			○	○	○
	DOWN	○	○			○	○	○
	LEFT	○	○			○	○	○
	RIGHT	○	○			○	○	○

○—○: Indicates continuity

**TRUNK LID****STRUCTURAL VIEW**

97U0SX-052

- |                                  |                           |
|----------------------------------|---------------------------|
| 1. Trunk lid                     | 7. Opening rod            |
| 2. Damper stay (R and L)         | 8. Trunk lid key cylinder |
| 3. Damper stay bracket (R and L) | 9. Trunk lid striker      |
| 4. Trunk lid hinge (R and L)     | 10. Lock reinforcement    |
| 5. Weatherstrip                  | 11. Rear finisher         |
| 6. Trunk lid opener              |                           |

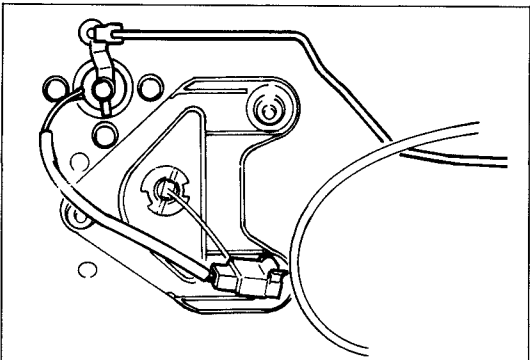


87U14X-007

## REMOVAL

### Removal of Trunk Lid Opener

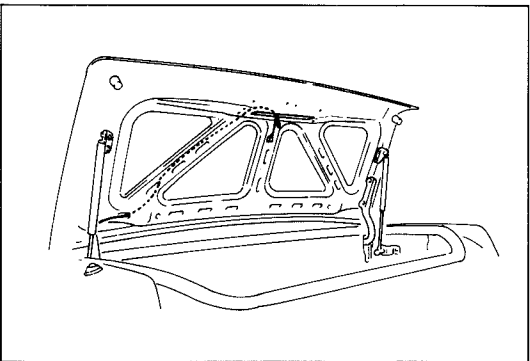
1. Disconnect the trunk lid opener switch connector.
2. Remove the bolts, then remove the trunk lid opener.
3. Remove the opening rod and the release wire.



87U14X-008

### Removal of Trunk Lid Key Cylinder

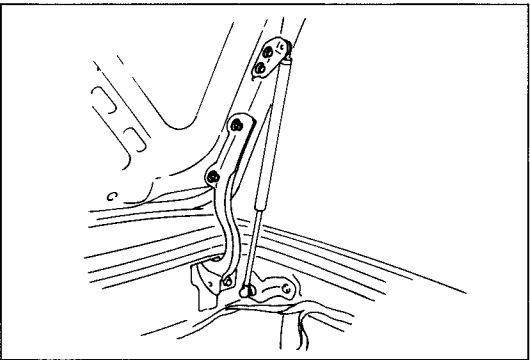
1. Disconnect the trunk lid key cylinder switch connector.
2. Remove the opening rod.
3. Remove the bolts, then remove the trunk lid key cylinder.



97U0SX-053

### Removal of Wire Harness

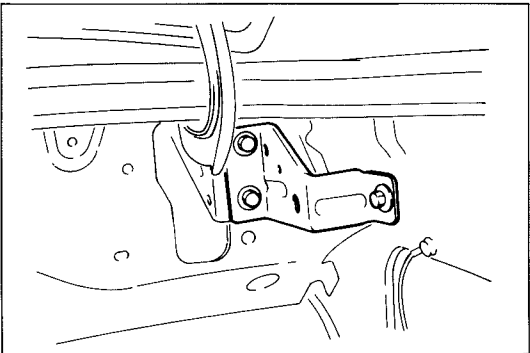
1. Remove the bolts, and remove the lock striker and lock reinforcement.
2. Disconnect the connectors of the trunk room lamp and the high-mount stoplight.
3. Remove the wire harness.



97U0SX-054

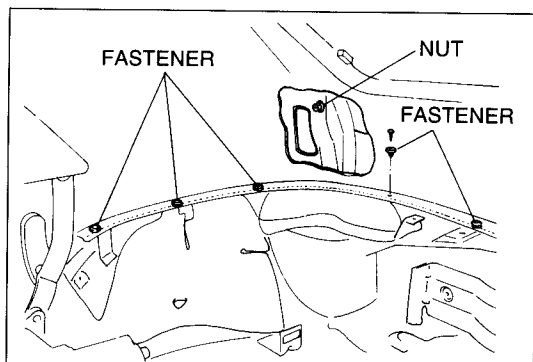
### Removal of Trunk Lid

1. Remove the damper stay installation bolts (R and L).
2. Remove the trunk lid installation nuts (R and L), then remove the trunk lid.



87U14X-011

3. Remove the damper stay bracket installation bolts, then remove the damper stay bracket.



97U0SX-055

4. Remove the scuff plate and the quarter trim attaching screws, then remove the quarter trim.
5. Remove the headliner attaching fasteners (5) shown in the figure.
6. Remove the trunk lid hinge installation nut, then remove the trunk lid hinge.

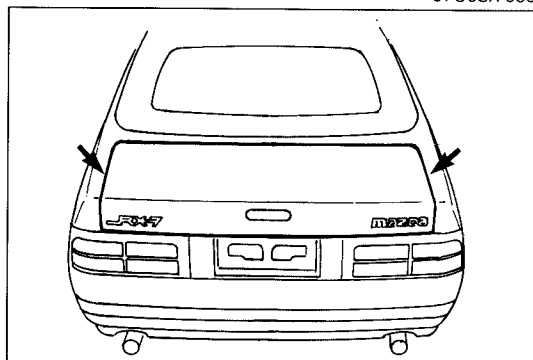
## INSTALLATION

Install in the reverse order of removal.

## ADJUSTMENT

### Trunk Lid

Align the trunk lid as shown in the figure.



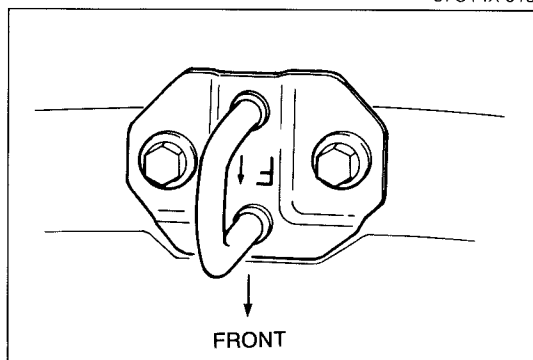
87U14X-013

### Trunk Lid Striker

The striker can be adjusted forward or rearward by loosening the attaching bolts.

#### Note

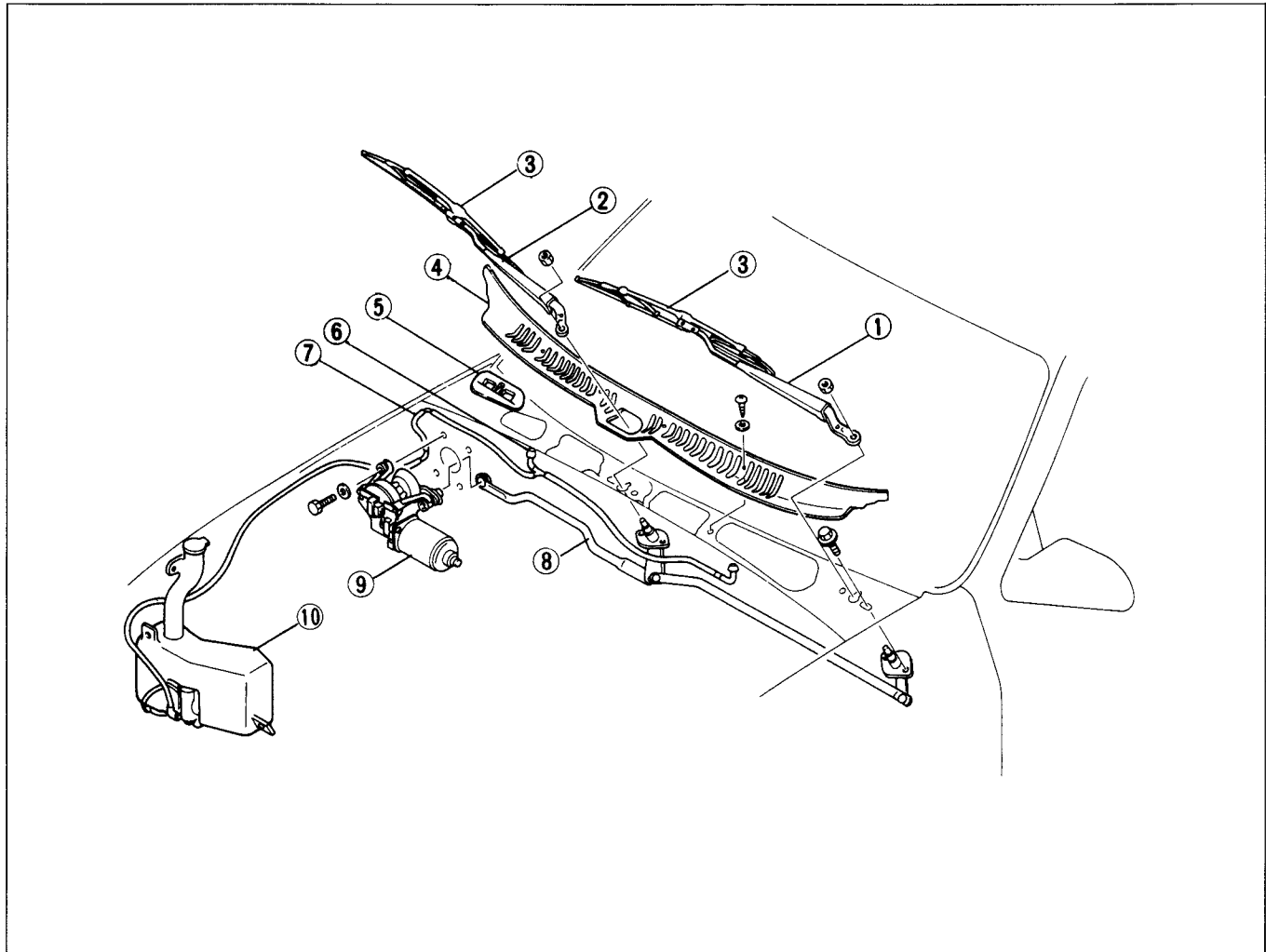
The strikers are directional, having an "F" mark on them, indicating installation toward the front of the vehicle.



97U0SX-056

## WINDSHIELD WIPER

### STRUCTURAL VIEW



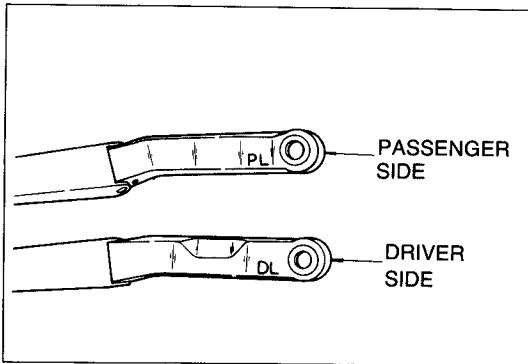
97U0SX-057

- |                                 |                       |                   |
|---------------------------------|-----------------------|-------------------|
| 1. Wiper arm (driver's side)    | 5. Service hole cover | 9. Motor assembly |
| 2. Wiper arm (passenger's side) | 6. Washer nozzles     | 10. Washer tank   |
| 3. Wiper blades                 | 7. Washer hoses       |                   |
| 4. Cowl grille                  | 8. Link assembly      |                   |

### TROUBLESHOOTING GUIDE

Problem	Possible Cause	Remedy	Page
<b>Wipers do not work</b>	WIPER fuse blown Defective wiper motor Defective wiper switch Defective wiring or ground	Replace fuse and check Check Check Repair	S-40 S-40 T-26
<b>Washers do not work</b>	WIPER fuse blown Defective washer motor Defective wiper and washer switch Defective wiring	Replace fuse and check Check or replace Check Repair	S-40 S-40 T-25
<b>Rear wiper does not work</b>	R. WIPER fuse blown Defective rear wiper motor Defective rear wiper switch Defective wiring or ground	Replace fuse and check Check Check Repair	S-40 S-40 T-26
<b>Rear window washer does not work</b>	Defective washer motor Defective washer switch Defective wiring	Check or replace Check Repair	S-41 T-26

97U0SX-058



67U14X-033

## REMOVAL

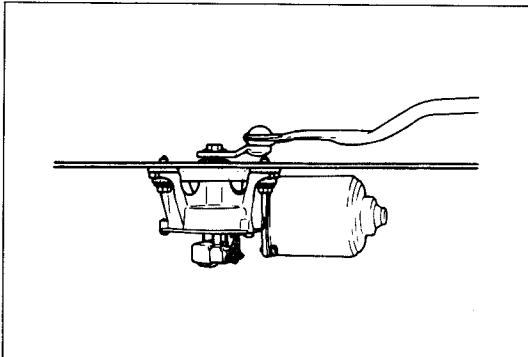
1. Disconnect the negative battery cable.
2. Remove the wiper arms.

### Note

The two wiper arms are identified by the marks on arms.

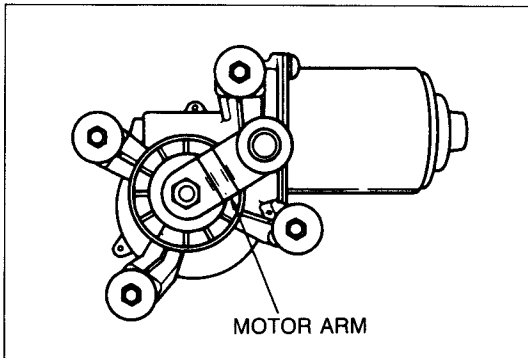
Mark "DL": for driver's side

Mark "PL": for passenger's side



67U14X-034

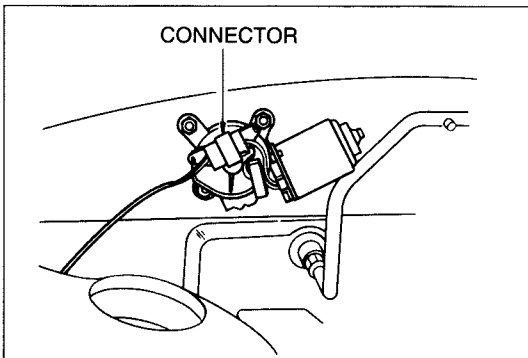
3. Remove the cowl grille.
4. Disconnect the wiper link at the motor side.



67U14X-035

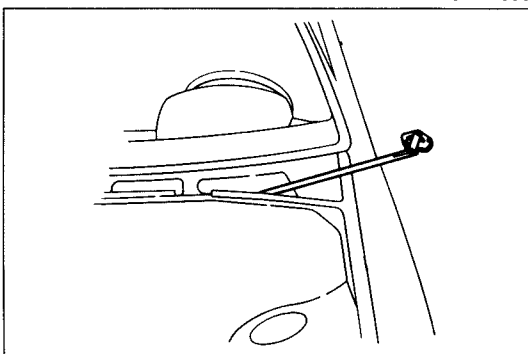
### Caution

Do not remove the motor arm unless it is necessary, as the motor arm position to the motor shaft decides the automatic stop position (lowest position of the wiper arm).



67U14X-036

5. Disconnect the wiring connector.
6. Remove the wiper motor.



97U0SX-059

7. Remove the wiper link unit attaching bolts.
8. Take the wiper link unit out from the left side (driver's side) service hole.

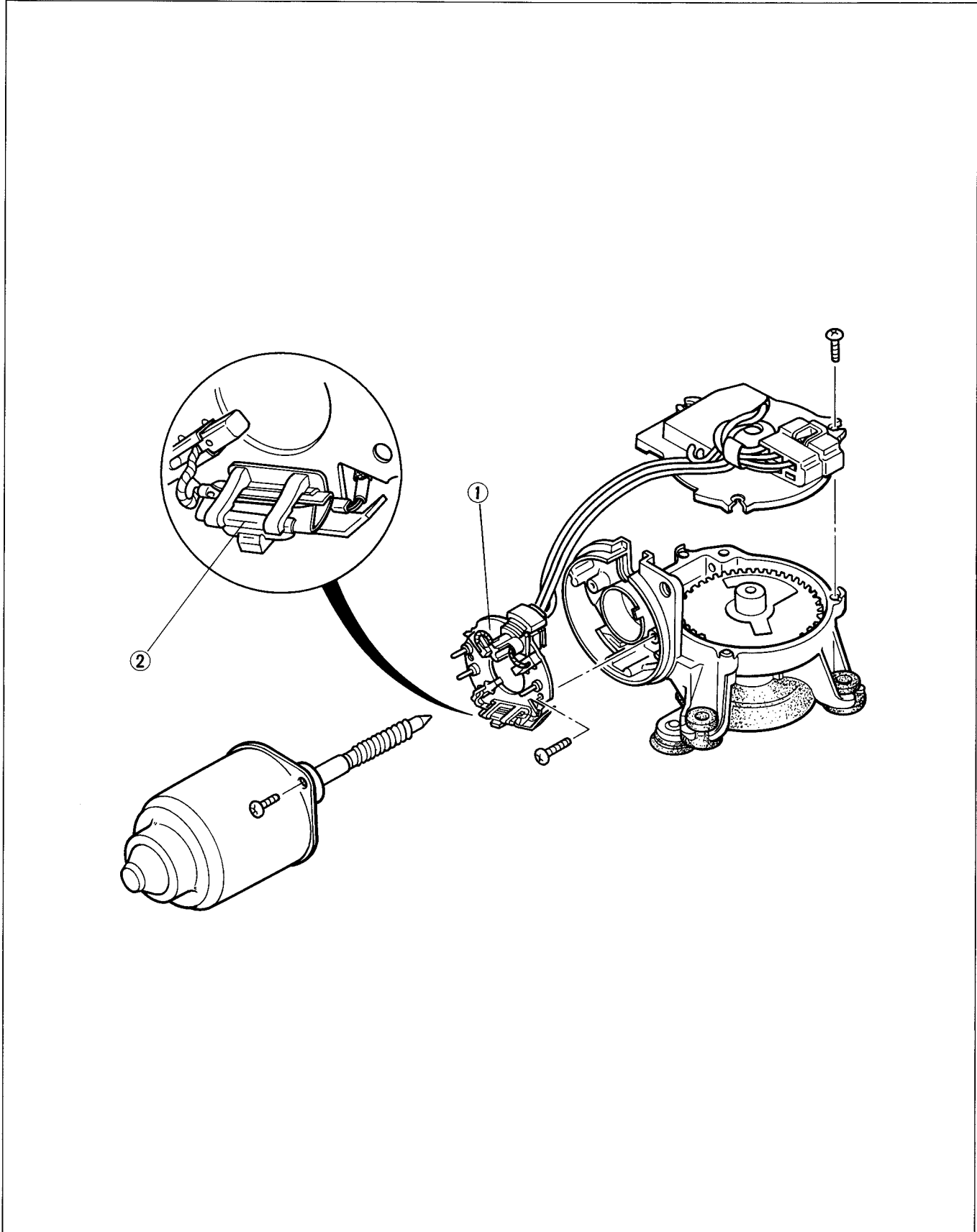
## INSTALLATION

Install in the reverse order of removal.

# S WINDSHIELD WIPER

## DISASSEMBLY AND ASSEMBLY Brush Plate Holder and Circuit Breaker

Remove and install as shown in the figure.



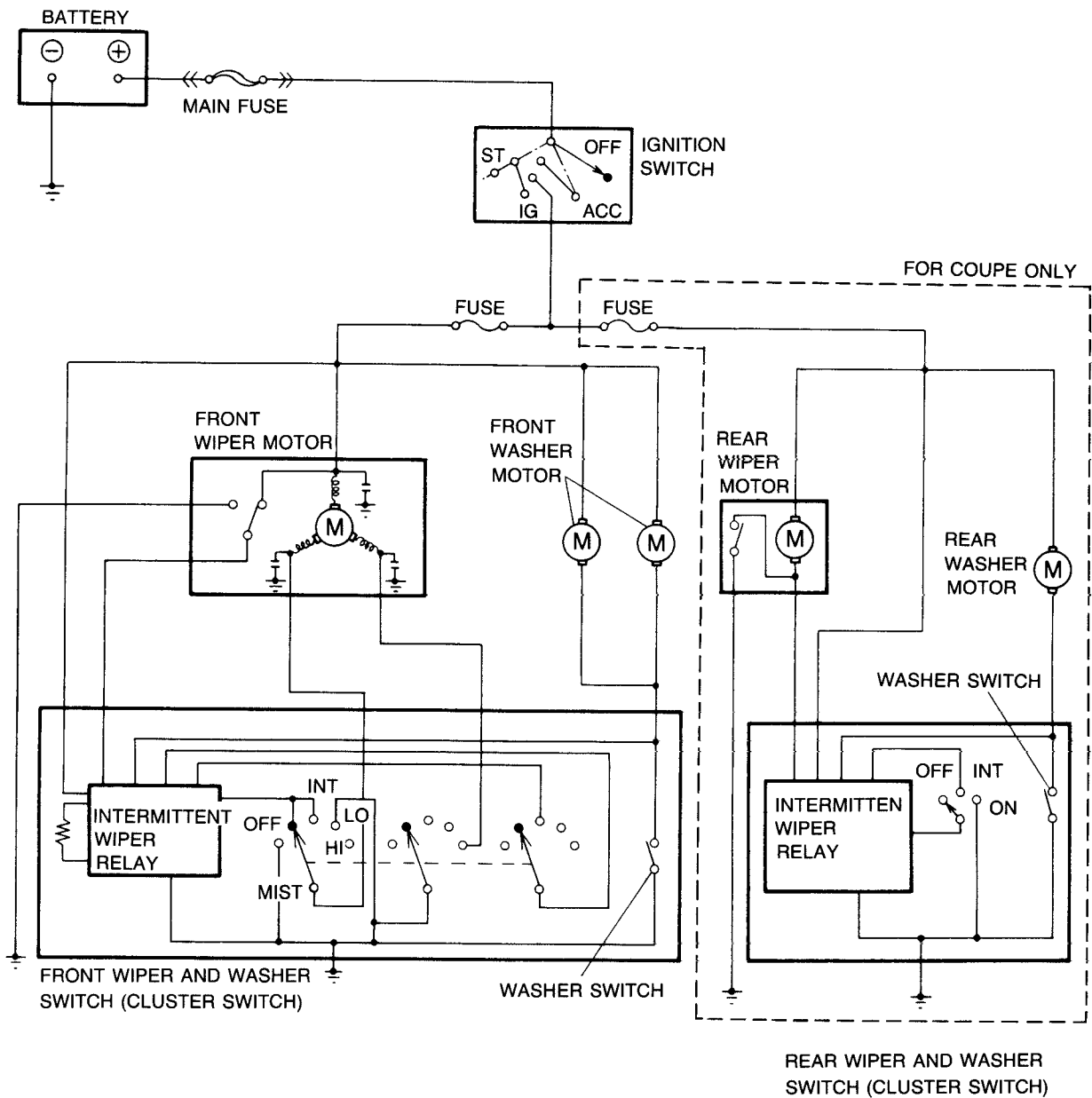
97U0SX-060

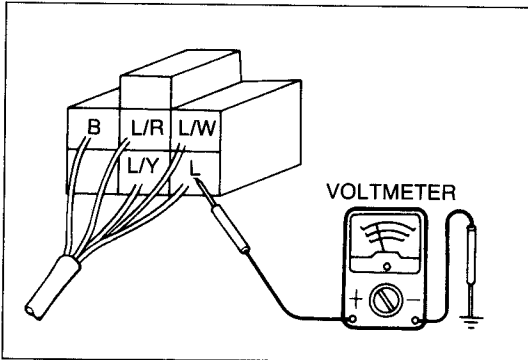
1. Brush plate holder

2. Circuit breaker

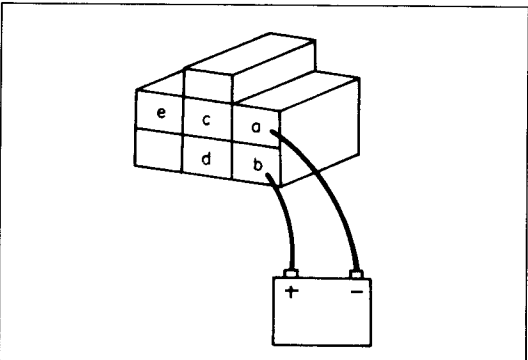


## CIRCUIT DIAGRAM

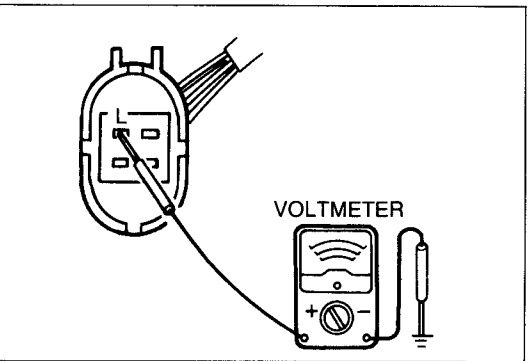




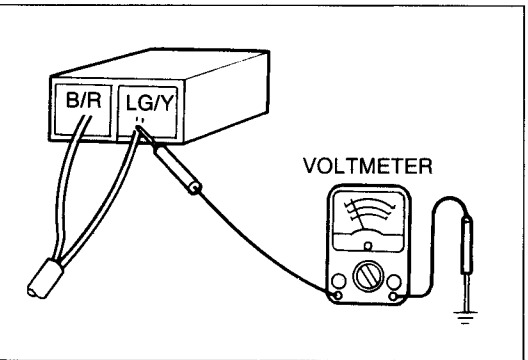
97U0SX-061



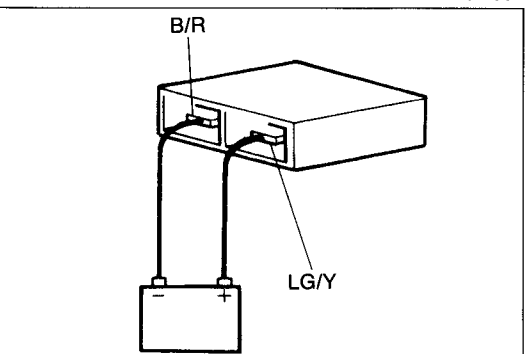
97U0SX-062



97U0SX-063



97U0SX-064



97U0SX-065

## INSPECTION

### Windshield Wiper Motor

#### Checking circuit

1. Disconnect the connector from the wiper motor.
2. Using a voltmeter, measure the voltage between the (L) terminal wire (harness side) and a body ground with the ignition switch ON.
3. If there is no voltage, check the fuse and the wiring harness.
4. Using an ohmmeter, check for continuity between (B) terminal wire (harness side) and a body ground.

#### Checking wiper motor

1. Connect the positive lead from a battery to (b) terminal wire of the motor connector.
2. Connect the negative lead to (a) terminal wire (motor side) of the motor connector.
3. Check that the motor turns at low speed.
4. Connect the negative lead to (c) (motor side) of the motor connector.
5. Check that the motor turns at high speed.

### FRONT WIPER & WASHER SWITCH (Refer to page T-25 and 26)

#### Front Window Washer

##### Checking washer motor

1. Using a voltmeter, measure the voltage between the (L) terminal wire and body ground with the ignition switch ON.
2. If there is no voltage, check the fuse and the wiring harness.
3. If the (L) terminal voltage is normal, apply 12V to (a) terminal of washer motor and ground (b) terminal.
4. If the washer motor does not operate, replace the washer motor.

#### Rear Wiper Motor

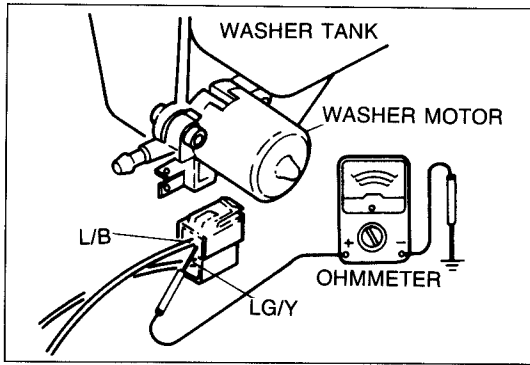
##### Checking circuit

1. Using a voltmeter, measure the voltage between the (LG/Y) terminal wire and body ground with the ignition switch ON.
2. If there is no voltage, check the fuse or repair the wiring harness.

##### Checking wiper motor

1. Connect the positive lead from a battery to (LG/Y) terminal wire of the motor connector.
2. Connect the negative lead to (B/R) terminal wire of the motor connector.
3. Check that the motor turns.

### REAR WIPER & WASHER SWITCH (Refer to page T-25)



97U0SX-066

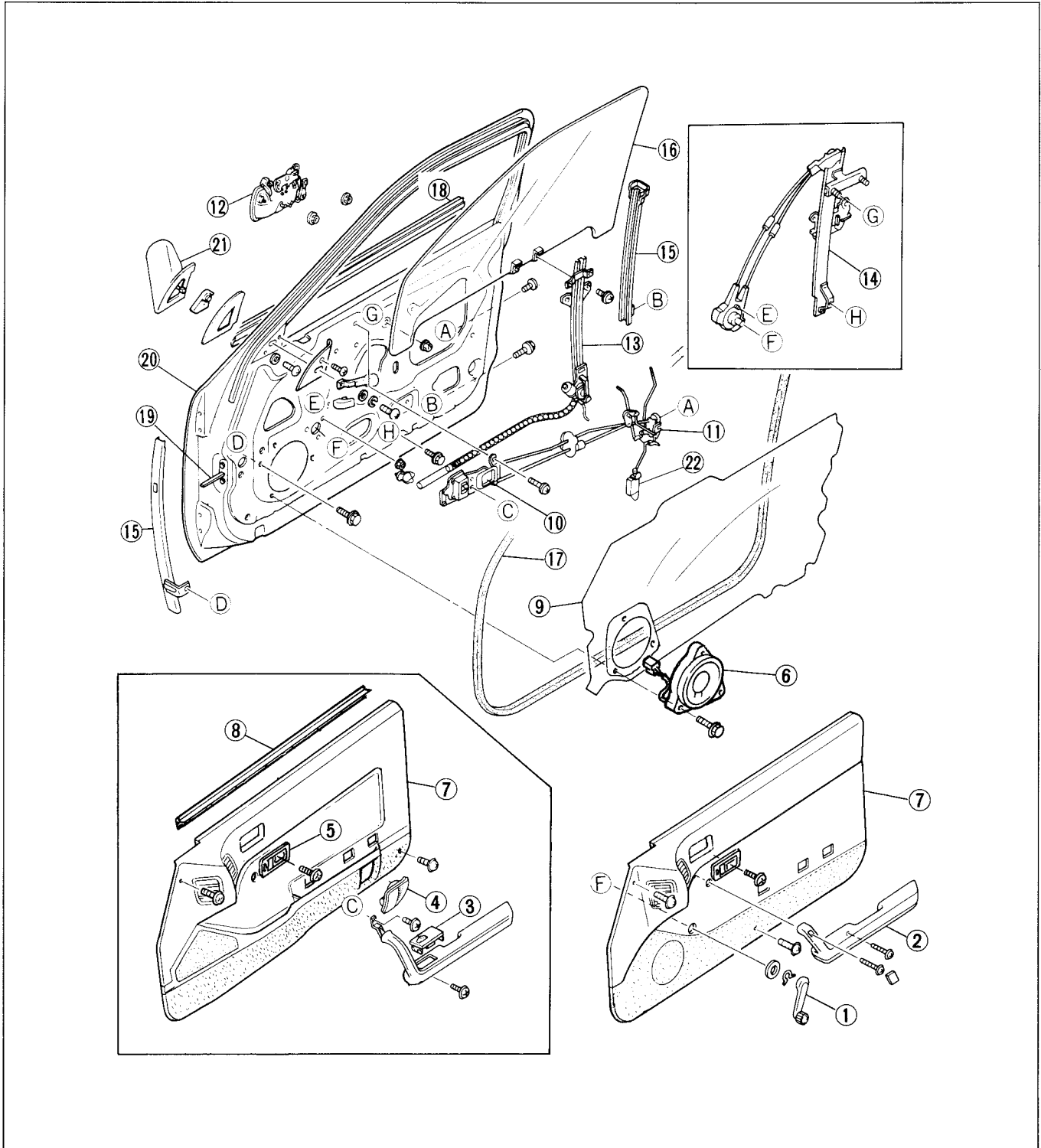
### Rear Washer

#### Checking rear washer motor

1. Using a voltmeter, measure the voltage between the (LG/Y) terminal wire and a body ground with the ignition switch ON.
2. If there is no voltage, check the fuse or repair the wiring harness.
3. If the (LG/Y) terminal wire voltage is normal, connect the (L/B) terminal wire to a body ground.
4. If the washer motor does not operate, replace the washer motor.

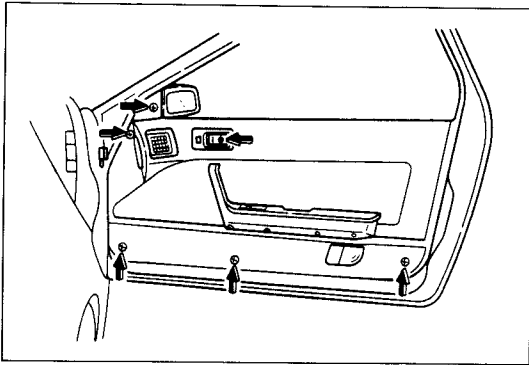
## DOOR

### STRUCTURAL VIEW (COUPE)



97U0SX-067

- |                                      |                             |                          |
|--------------------------------------|-----------------------------|--------------------------|
| 1. Regulator handle<br>(manual type) | 8. Weatherstrip (inner)     | 16. Glass                |
| 2. Arm rest                          | 9. Door screen              | 17. Weatherstrip         |
| 3. Power window switch               | 10. Inner handle            | 18. Weatherstrip (outer) |
| 4. Courtesy lamp lens                | 11. Door lock assembly      | 19. Door checker         |
| 5. Inner handle cover                | 12. Outer handle            | 20. Door                 |
| 6. Door woofer speaker               | 13. Regulator (power type)  | 21. Door mirror          |
| 7. Door trim                         | 14. Regulator (manual type) | 22. Door lock actuator   |
|                                      | 15. Glass guide             |                          |



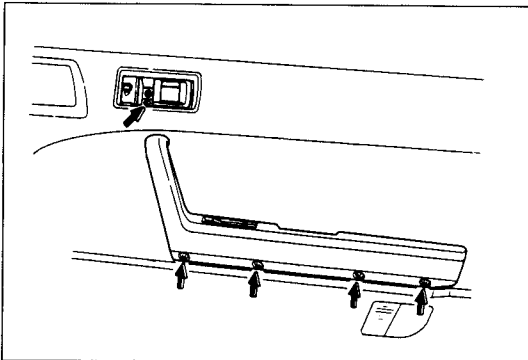
97U0SX-068

**REMOVAL****Door Glass and Regulator (Power Window Type)**

1. Remove the door mirror.
2. Remove the inner handle cover.
3. Remove the door trim attaching screws.

**Note**

**For manual regulator type, remove the regulator handle.**



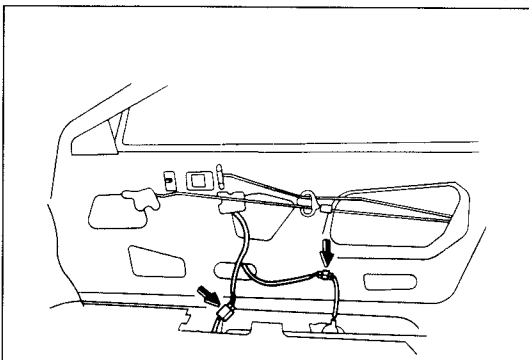
67U14X-040

4. Remove the arm rest attaching screws (5).

**Note**

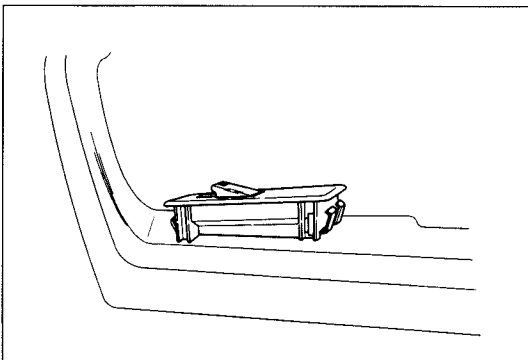
**The arm rest cannot be removed even after the screws are removed, as the arm rest is fastened to the door trim.**

5. Pull the lower portion of the door trim out, and then lift upward.



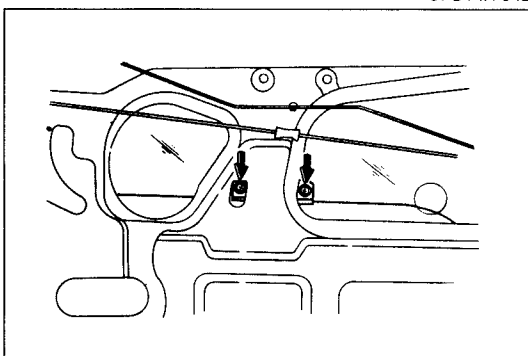
97U0SX-069

6. Detach the door trim from the door.
7. Disconnect the connectors of the courtesy lamp and the power window switch.
8. Remove the door screen.



67U14X-042

9. Remove the outer weatherstrip.
10. Remove the power window switch from the door trim.
11. Connect the power window switch connector.



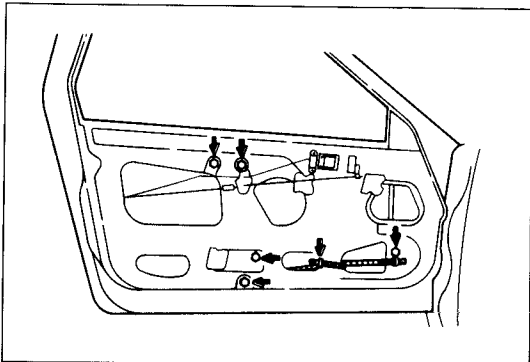
67U14X-043

12. Position the glass attaching bolts at the service holes by operating the power window switch.
13. Disconnect the negative battery cable.

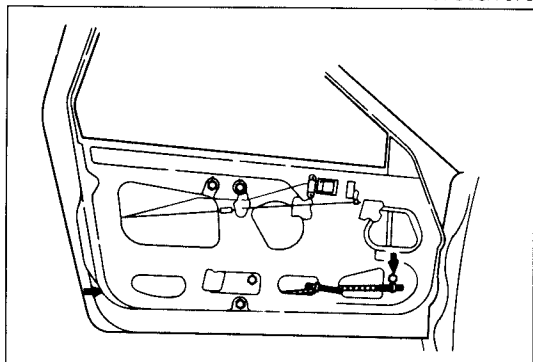
**Note**

**For manual regulator type, use the regulator handle to move the glass.**

14. Remove the glass attaching bolts, and then remove the glass.



97U0SX-070



67U14X-045

15. Disconnect the power window switch connector.
16. Loosen the ball hose holding bands.
17. Remove the window regulator attaching bolts, and then remove the window regulator.

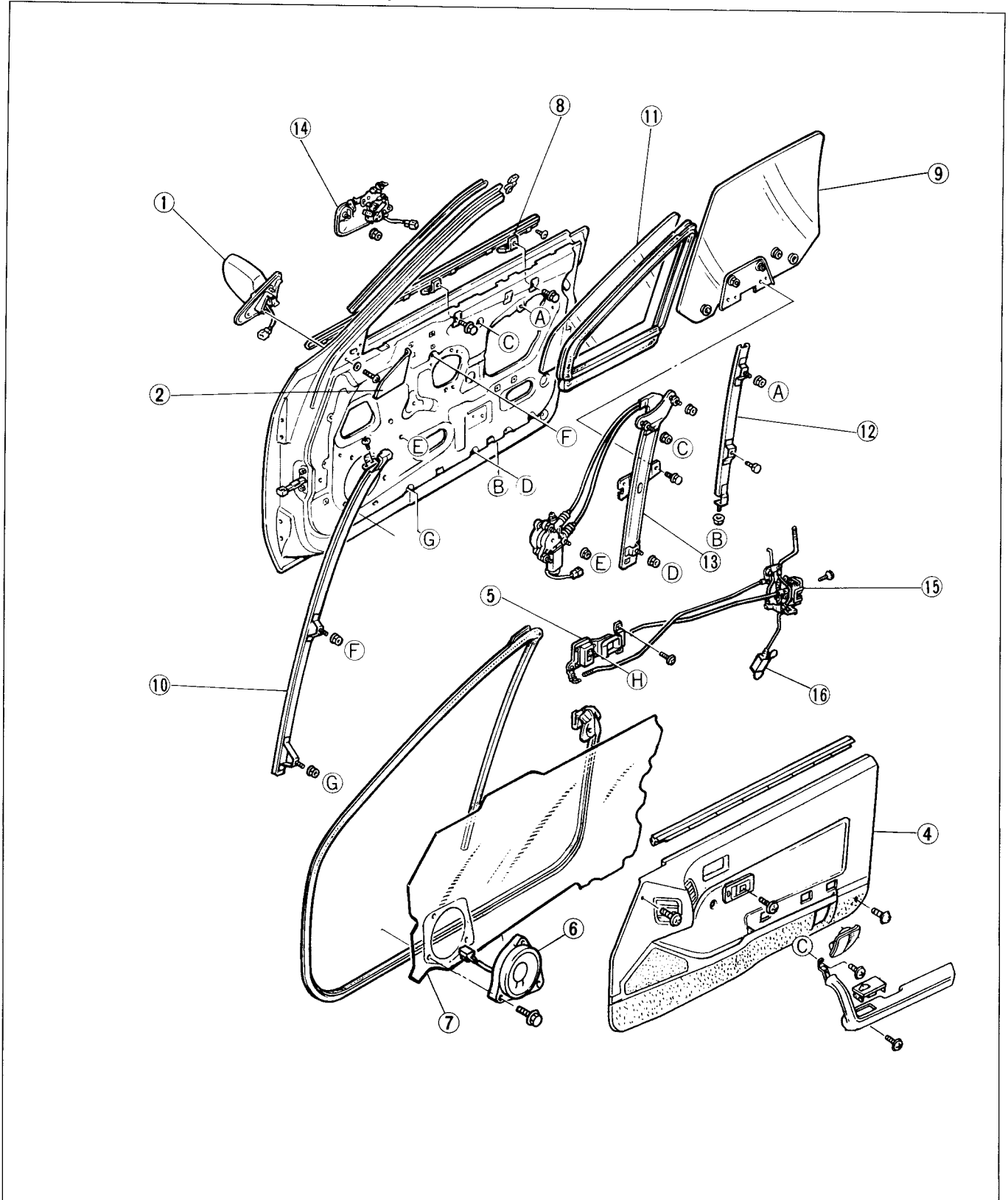
## INSTALLATION

Install in the reverse order of removal.

## ADJUSTMENT

Adjust the positions of the regulator and glass guides by loosening the attaching bolt so that the glass runs smoothly, and then retighten.

## STRUCTURAL VIEW (CONVERTIBLE)

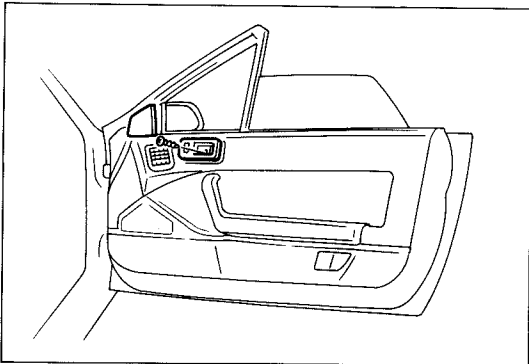


97U0SX-242

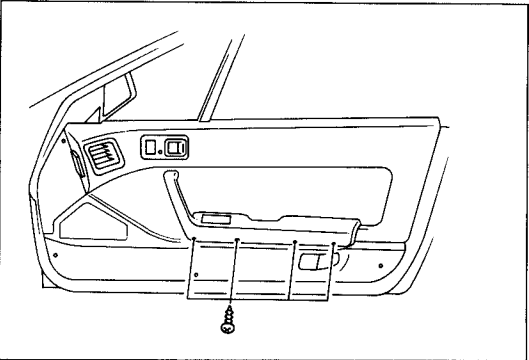
1. Door mirror
2. Sail inner garnish
3. Inner handle cover
4. Door trim
5. Inner handle

6. Door woofer speaker
7. Door screen
8. Upper stopper
9. Door glass
10. Division channel

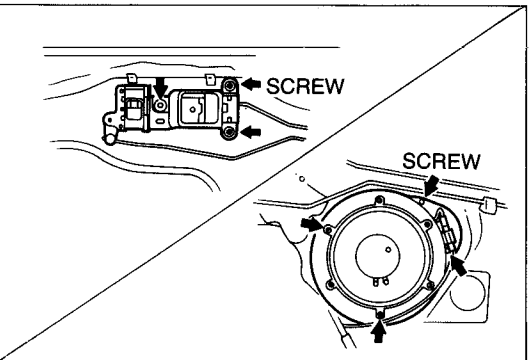
11. Quarter glass
12. Subguide
13. Regulator
14. Outer handle
15. Door lock
16. Door lock actuator



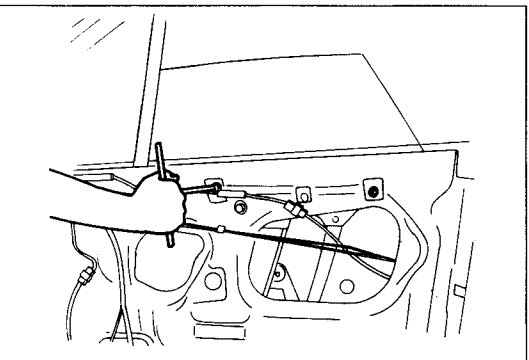
87U14X-019



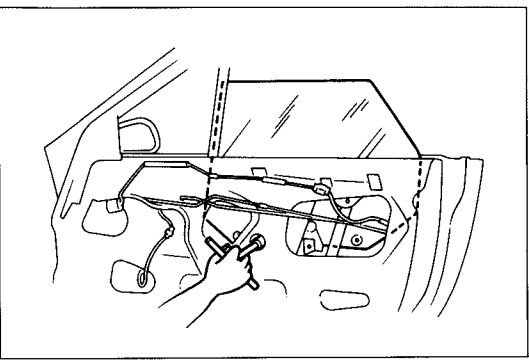
97U0SX-071



97U0SX-072



97U0SX-073



87U14X-023

## REMOVAL

### Removal of Door Trim

1. Remove the sail inner garnish.
2. Remove the screws and remove the inner handle cover.

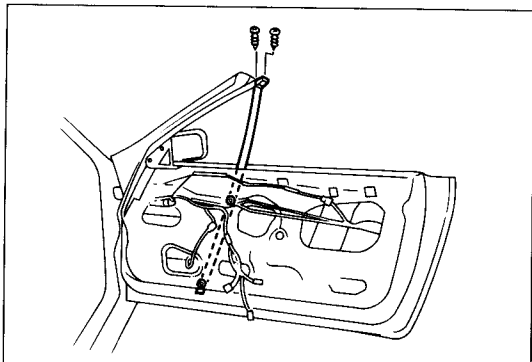
3. Remove the screws and fasteners, then remove the door trim.
4. Disconnect the power window switch and courtesy lamp connectors.

### Removal of Door Glass

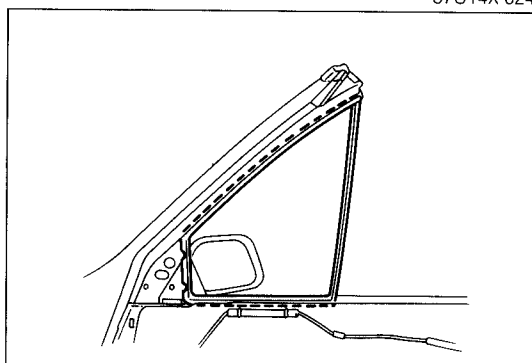
5. Connect the power window switch, then raise the door glass 230mm (9.06 in) from the fully open position.
6. Disconnect the negative battery cable and power window switch connector.
7. Remove the inner handle.
8. Disconnect the speaker connector, then remove the speaker.
9. Remove the nuts, then remove the upper stoppers.
10. Remove the weatherstrip.

11. Remove the glass attaching bolts.
12. Remove the door glass upward.

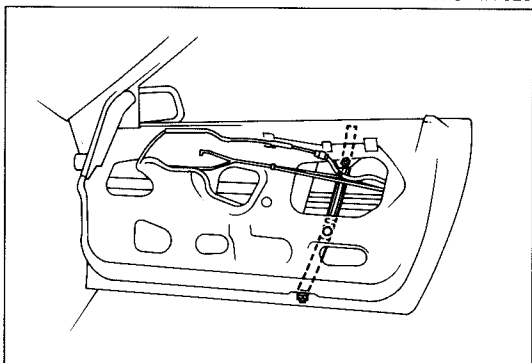




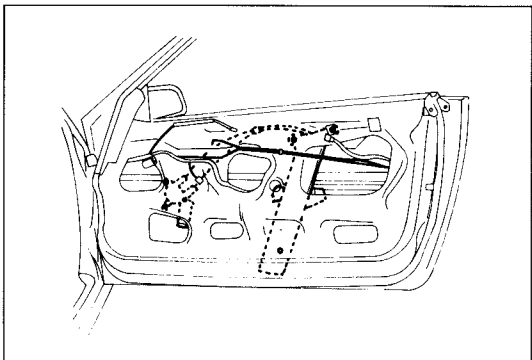
87U14X-024



87U14X-025



87U14X-026



97U0SX-074

### Removal of Quarter Glass

13. Remove the division channel installation screws and bolts, then remove the division channel.

14. Detach the weatherstrip of the quarter glass from the corner bracket.

15. Remove the quarter glass backward.

### Removal of Subguide

16. Remove the subguide installation nuts, then remove the subguide.

### Removal of Regulator

17. Disconnect the power window motor connector.

18. Remove the bolts and nuts, then remove the regulator.

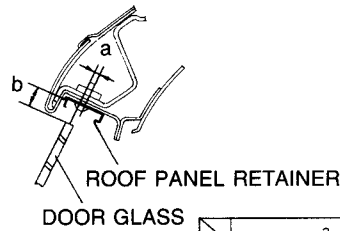
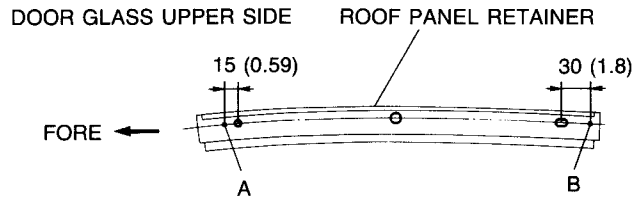
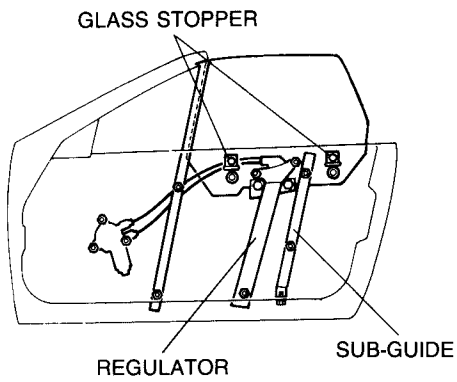
### INSTALLATION

Install in the reverse order of removal.

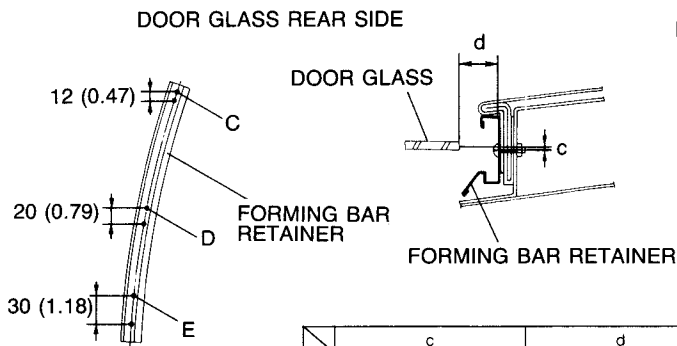
## ADJUSTMENT

### Adjustment of Door Glass

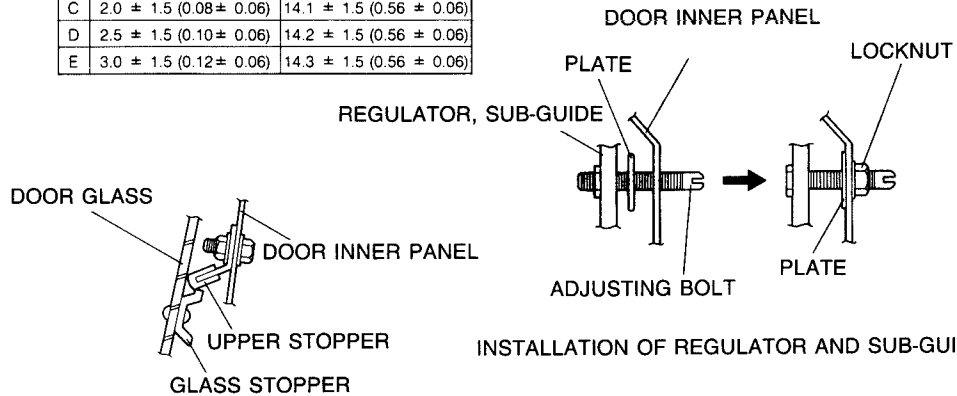
Close the door glass completely, and then adjust as described below.



	a	b
A	$7.5 \pm 1.5 (0.25 \pm 0.06)$	$12.9 \pm 1.5 (0.51 \pm 0.06)$
B	$7.5 \pm 1.5 (0.25 \pm 0.06)$	$12.7 \pm 1.5 (0.50 \pm 0.06)$



	c	d
C	$2.0 \pm 1.5 (0.08 \pm 0.06)$	$14.1 \pm 1.5 (0.56 \pm 0.06)$
D	$2.5 \pm 1.5 (0.10 \pm 0.06)$	$14.2 \pm 1.5 (0.56 \pm 0.06)$
E	$3.0 \pm 1.5 (0.12 \pm 0.06)$	$14.3 \pm 1.5 (0.56 \pm 0.06)$



INSTALLATION OF GLASS STOPPER

mm (in)

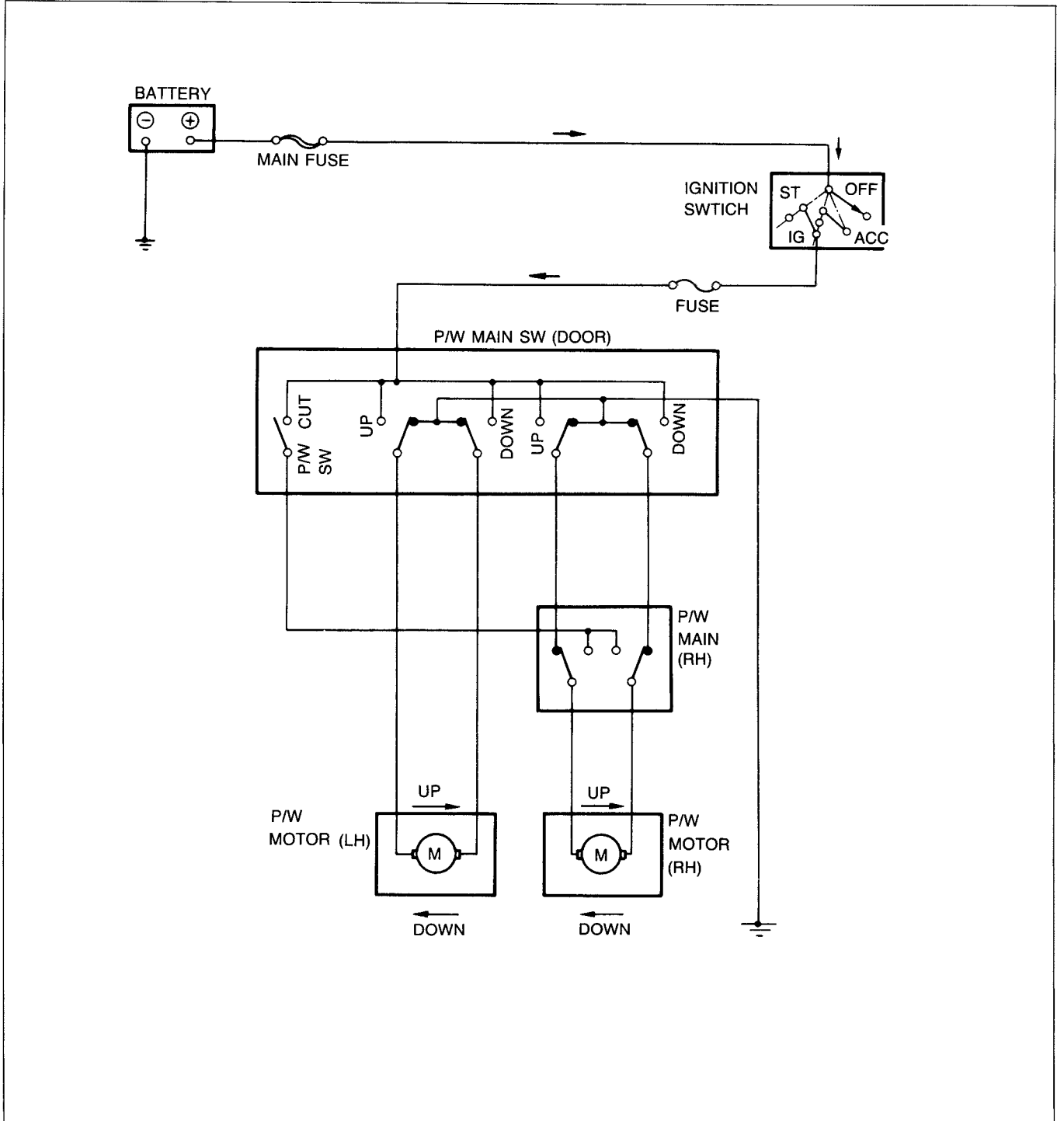
# POWER WINDOW

## TROUBLESHOOTING GUIDE

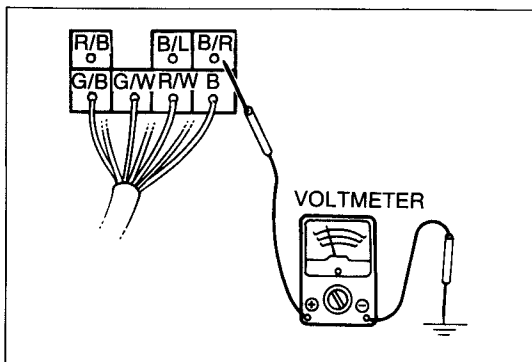
Problem	Possible Cause	Remedy	Page
<b>Power window system does not work</b>	POWER WINDOW fuse blown	Replace and check	S-49
	Defective power window switch	Check or replace	S-50
	Defective wiring or ground	Repair	
<b>Only one side window does not work</b>	Defective power window switch	Check	S-50
	Defective power window motor	Check or replace	S-50
	Defective wiring	Repair	

97U0SX-075

## CIRCUIT DIAGRAM



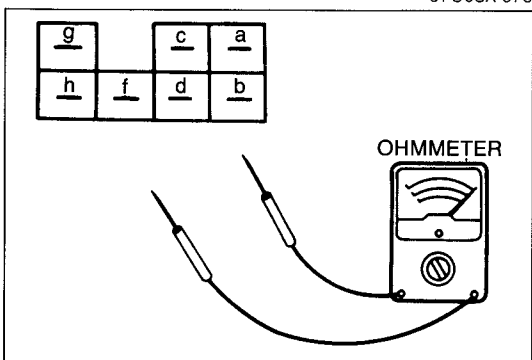
67U15X-076



97U0SX-076

## INSPECTION Power Window Switch Checking circuit

1. Disconnect the connector from the power window switch.
2. Using a voltmeter, measure the voltage between the (B/R) terminal and a body ground with the ignition switch ON.
3. If there is no voltage, check the fuse or repair the wiring harness.
4. Using an ohmmeter, check the ground connection between the (B) terminal and a body ground.



97U0SX-077

## Checking switches (Driver's side)

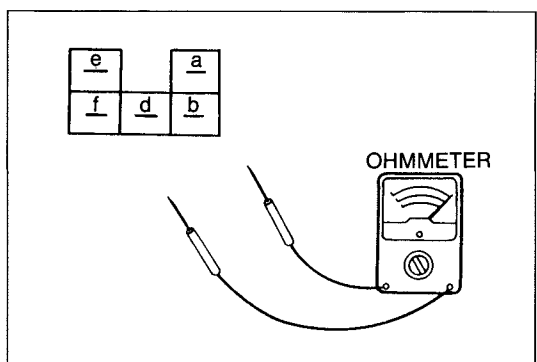
Use an ohmmeter to check for continuity of the terminals. When checking the switches, switch the power window cut switch to ON.

If continuity is not as specified, replace the power window switch.

○—○: Indicates continuity

Position		Terminal	a	b	c	d	f	g	h
Left switch	UP		○—○	○—○	○—○	○—○	○—○	○—○	○—○
	OFF		○—○	○—○	○—○	○—○	○—○	○—○	○—○
	DOWN		○—○	○—○	○—○	○—○	○—○	○—○	○—○
Right switch	UP		○—○	○—○	○—○	○—○	○—○	○—○	○—○
	OFF		○—○	○—○	○—○	○—○	○—○	○—○	○—○
	DOWN		○—○	○—○	○—○	○—○	○—○	○—○	○—○

97U0SX-078



97U0SX-079

## Checking switches (Passenger's side)

Use an ohmmeter to check for continuity of the terminals. If continuity is not as specified, replace the power window switch.

○—○: Indicates continuity

Position		Terminal	a	b	d	e	f
Passenger's side	UP		○—○	○—○	○—○	○—○	
	OFF		○—○		○—○	○—○	○—○
	DOWN			○—○	○—○	○—○	○—○

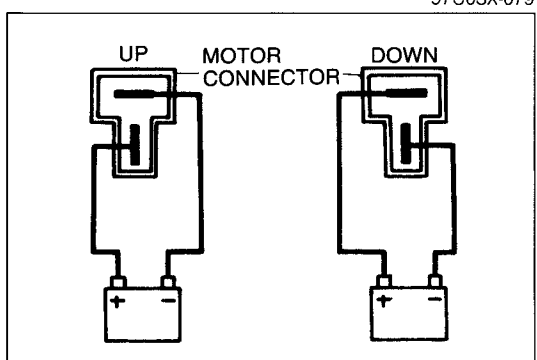
## Power Window Motor

### Checking motor

1. Disconnect the connector of the power window motor. Then check that the window raises and lowers when battery voltage is applied directly to the motor connector, as shown in the figure.
2. Replace the motor if operation is not normal.

### Caution

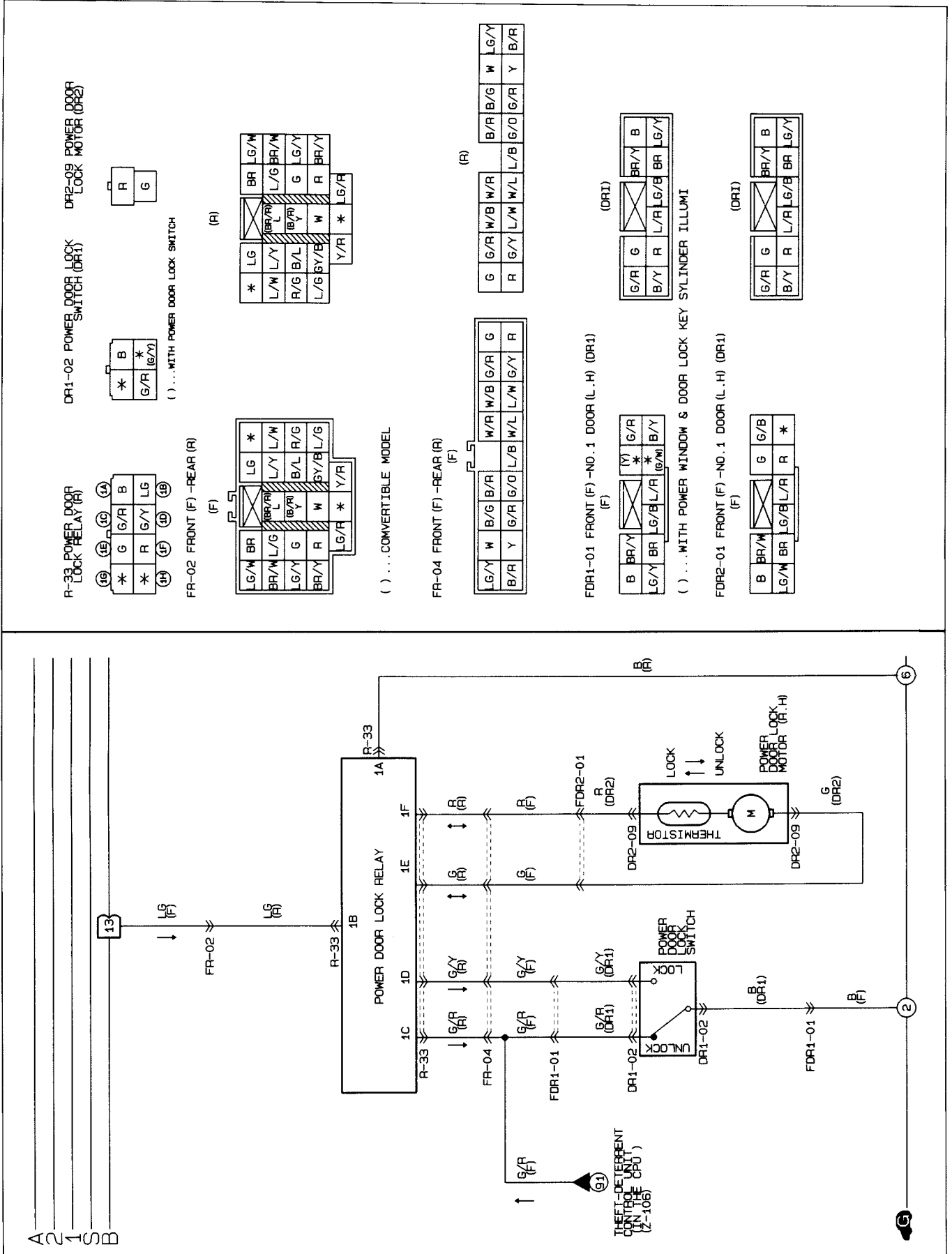
- a) Do not short-circuit the wiring to the body.
- b) Do not put your hand inside the door while checking.



97U0SX-080

**POWER DOOR LOCK**

**CIRCUIT DIAGRAM**



# S POWER DOOR LOCK

## TROUBLESHOOTING

Power door lock inoperative

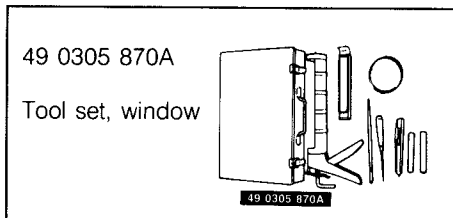
No.	Procedure	Result	Action if incorrect															
1	Check fuse.	Fuse OK	Repair harness before replacing fuse															
2	Check voltage <table border="1" style="margin: 10px auto;"> <tr><th colspan="2">R-33 connector</th></tr> <tr><td>Ground</td><td>LG</td></tr> </table>	R-33 connector		Ground	LG	12V	Repair harness. (Fuse - Door lock relay)											
R-33 connector																		
Ground	LG																	
3	Check voltage <table border="1" style="margin: 10px auto;"> <tr><th colspan="2">R-33 connector</th></tr> <tr><td>Ground</td><td>B</td></tr> </table>	R-33 connector		Ground	B	0V	Repair harness (Ground circuit)											
R-33 connector																		
Ground	B																	
4	Remove R-33 connector Check door lock switch continuity <table border="1" style="margin: 10px auto;"> <tr><th rowspan="2">Condition</th><th colspan="3">R-33 connector</th></tr> <tr><th>B</th><th>G/Y</th><th>G/R</th></tr> <tr><td>Lock</td><td>○</td><td>○</td><td></td></tr> <tr><td>Unlock</td><td>○</td><td></td><td>○</td></tr> </table>	Condition	R-33 connector			B	G/Y	G/R	Lock	○	○		Unlock	○		○	○ — ○ indicates continuity	Repair harness (Door lock switch - Door lock relay) or replace door lock switch
Condition	R-33 connector																	
	B	G/Y	G/R															
Lock	○	○																
Unlock	○		○															
5	Check motor operation by applying voltage to motor <table border="1" style="margin: 10px auto;"> <tr><th colspan="2">DR-17 connector</th></tr> <tr><td>12V</td><td>0V</td></tr> <tr><td>G</td><td>R</td></tr> <tr><td>R</td><td>G</td></tr> </table>	DR-17 connector		12V	0V	G	R	R	G	→ Lock → Unlock	Repair harness (Motor - Relay) or replace motor							
DR-17 connector																		
12V	0V																	
G	R																	
R	G																	

97U0SX-082

Replace door lock relay

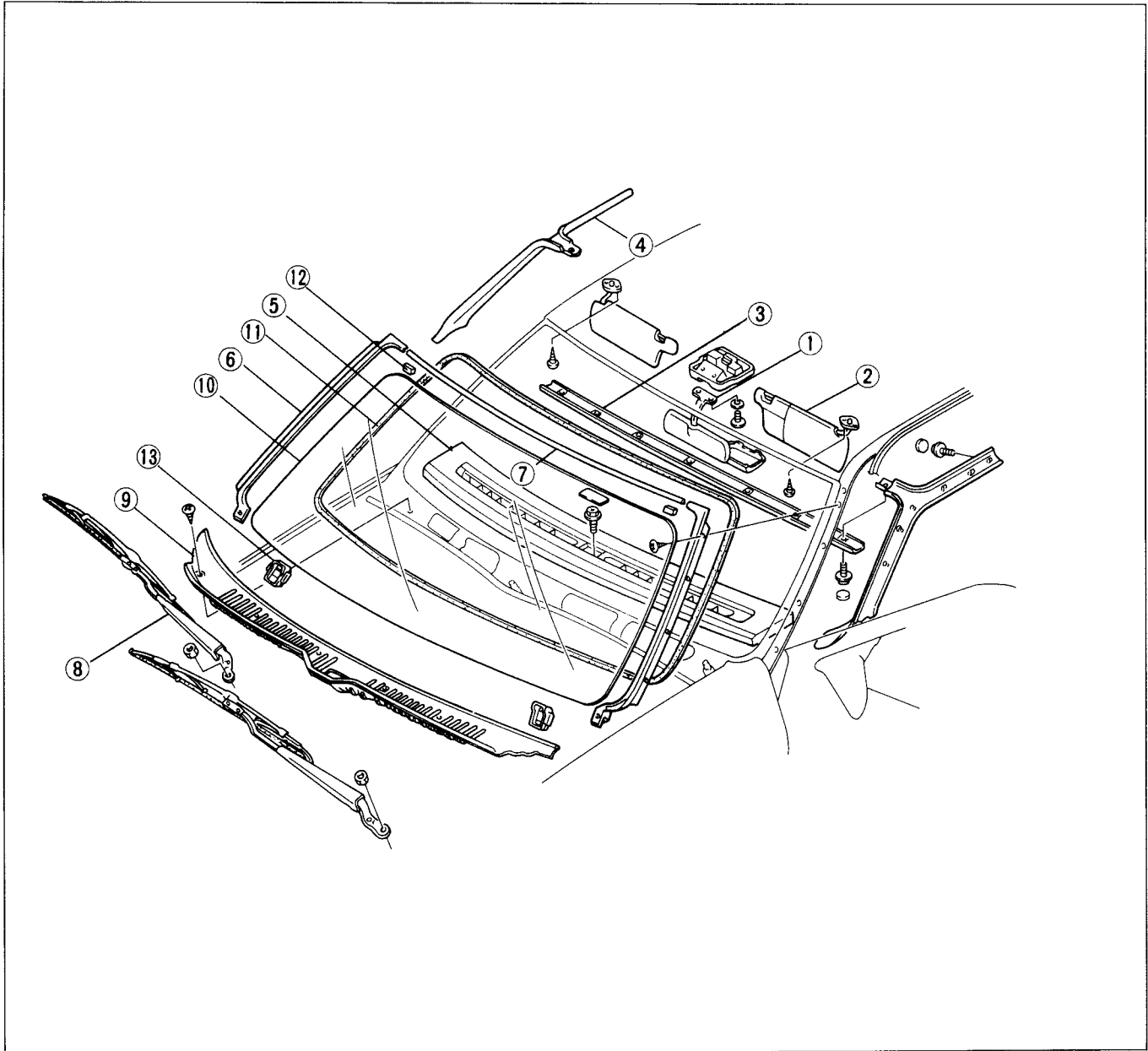
# WINDSHIELD

## PREPARATION SST



97U0SX-083

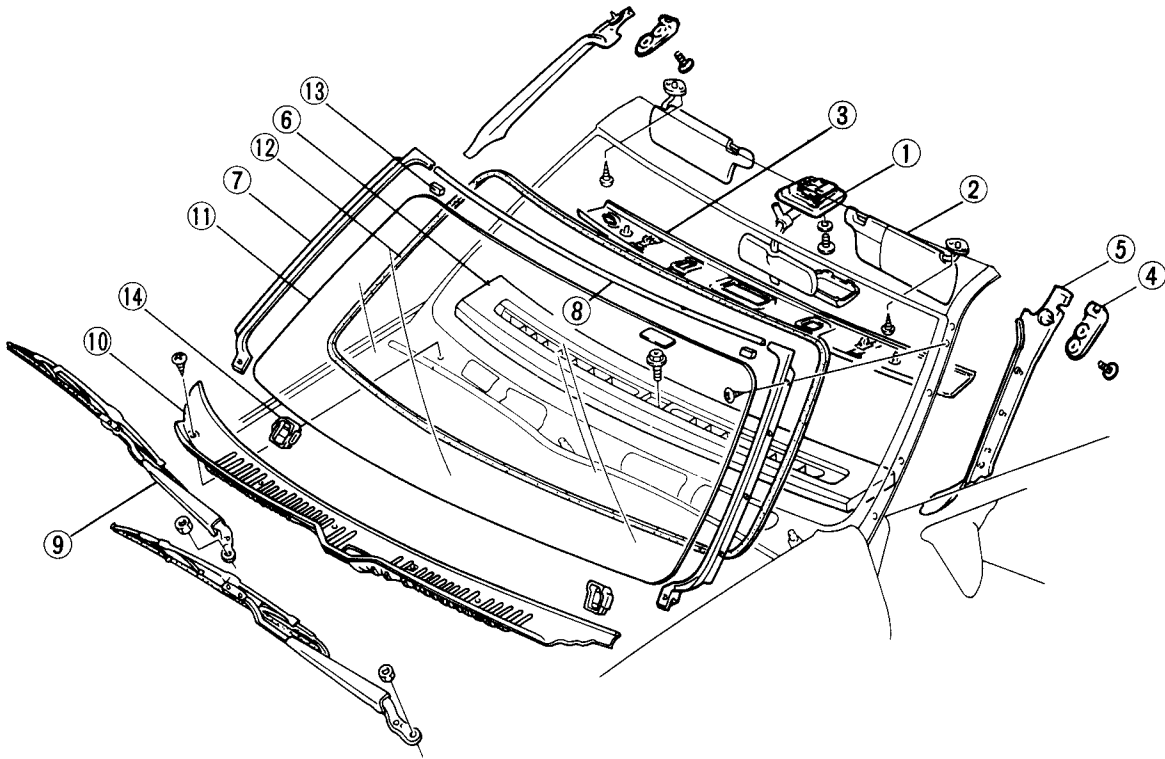
## STRUCTURAL VIEW



97U0SX-084

- |                      |                             |                  |
|----------------------|-----------------------------|------------------|
| 1. Rearview mirror   | 5. Instrument panel garnish | 9. Cowl grille   |
| 2. Sunvisor          | 6. Front pillar garnish     | 10. Windshield   |
| 3. Front top garnish | 7. Upper molding            | 11. Dam          |
| 4. Front pillar trim | 8. Wiper arms               | 12. Upper spacer |
|                      |                             | 13. Lower spacer |

## CONVERTIBLE



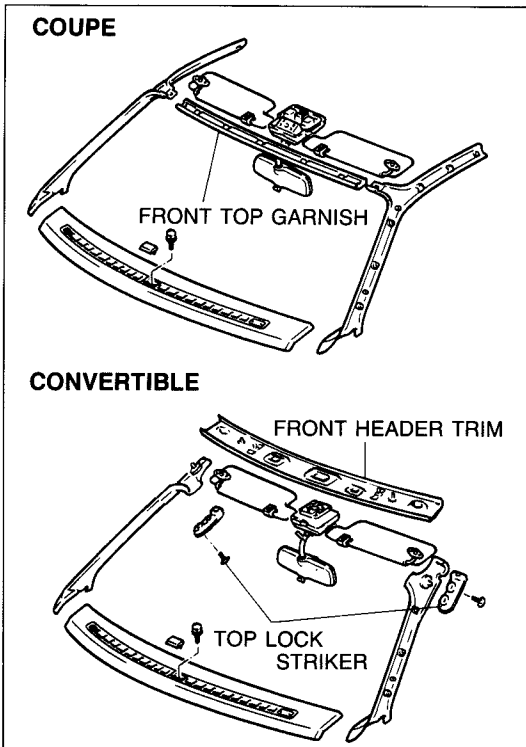
97U0SX-085

- 1. Rearview mirror
- 2. Sunvisor
- 3. Front header trim
- 4. Top lock striker
- 5. Front pillar trim

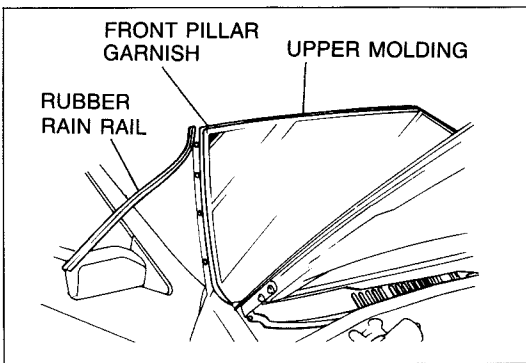
- 6. Instrument panel garnish
- 7. Front pillar garnish
- 8. Upper molding
- 9. Wiper arm
- 10. Cowl grille

- 11. Windshield
- 12. Dam
- 13. Upper spacer
- 14. Lower spacer

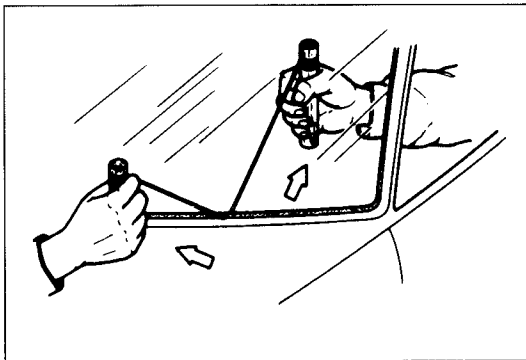




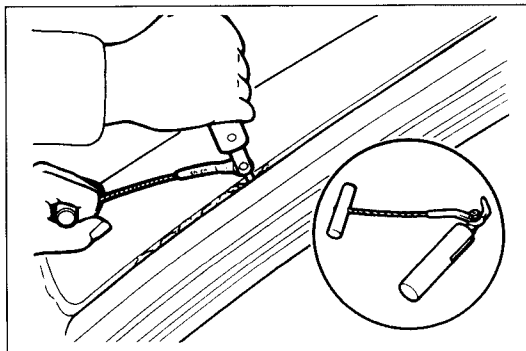
97U0SX-086



97U0SX-087



97U0SX-088



87U14X-152

## REMOVAL

1. Remove the rearview mirror, sunvisors, and top lock strikers (convertible).
2. Remove the front top garnish (coupe), front header trim (convertible), front pillar trim, and instrument panel garnish.

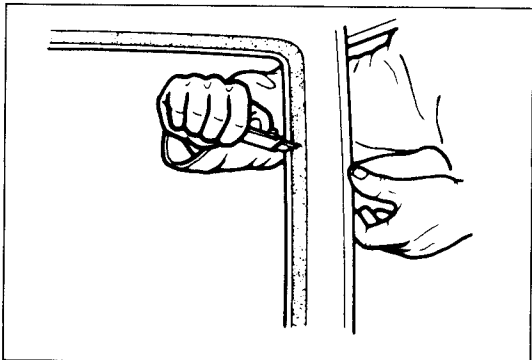
3. Remove the front pillar garnish and upper molding.
4. Remove the wiper arms and cowl grille.

5. Make a hole in the sealant with the awl.
6. Pass the end of a piece of the piano wire through the hole, and attach a bar to each end.
7. Two people should hold the bars, one inside and one outside the vehicle, and then "saw" the sealant from around the glass.
8. Remove the glass from the body.

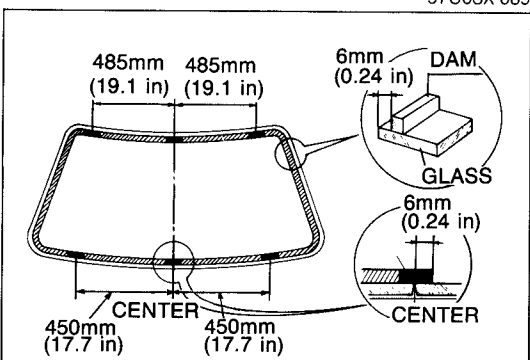
### Note

- a) Cut along the border between the glass and the sealant.
- b) If too much heat develops, the piano wire may break, so cool it occasionally or do not work on one place too long.
- c) If the glass is not to be reused, a tool like that shown in the figure is faster than piano wire.

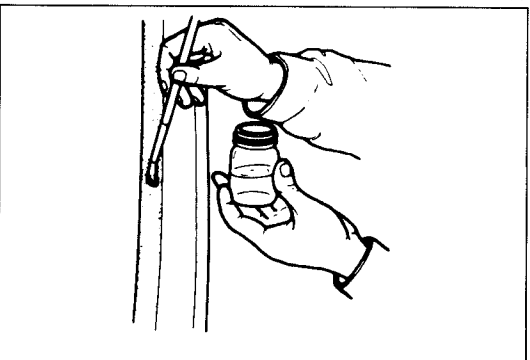
Insert the blade in the sealant, pull on the bars, and cut the sealant.



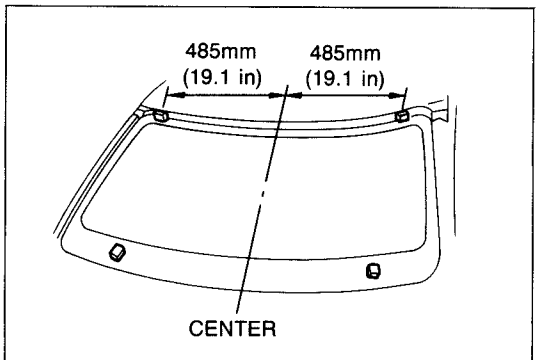
97U0SX-089



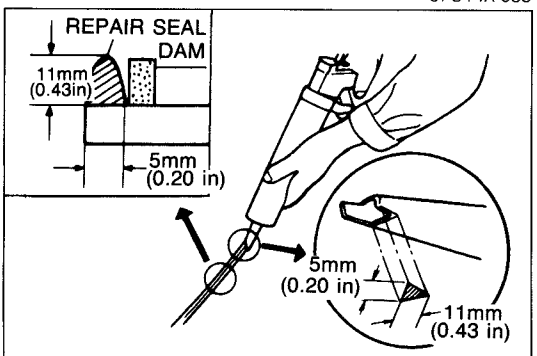
97U0SX-090



97U0SX-091



67U14X-088



97U0SX-092

## INSTALLATION

1. Use the razor knife to trim the sealant on the body. Leave a layer of about **1 or 2mm (0.04 to 0.08 in)** thick.

### Note

**If some of the sealant flakes off, use new sealant to patch it.**

2. Carefully clean and remove any grease from a **5 cm (1.9 in)** wide area around the perimeter of the glass and the remaining bond on the body.
3. Attach the dam around the glass, about **5mm (0.2 in)** from the edge.

### Note

**Be sure the dam is straight and set securely.**

4. Use the brush to apply a coat of primer to the adhesion surfaces around the glass and the body where the glass will adhere, and allow it to dry for **10 minutes or more**.

### Note

**Be sure no dust, moisture, or grease gets on the primed surface, and do not touch them.**

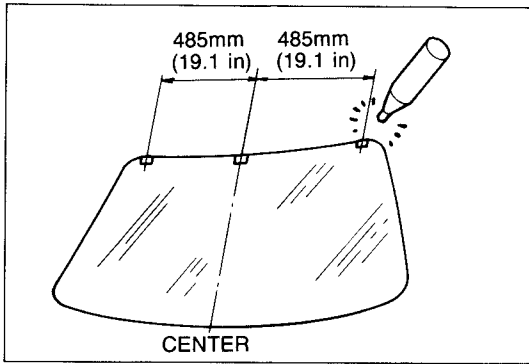
5. Attach the spacers where shown in the figure, using adhesive for the upper spacers and inserting the lower spacers.

6. After the primer dries, apply a bead of repair seal to a height of **11mm (0.43 in)** around the glass, using the sealant gun.

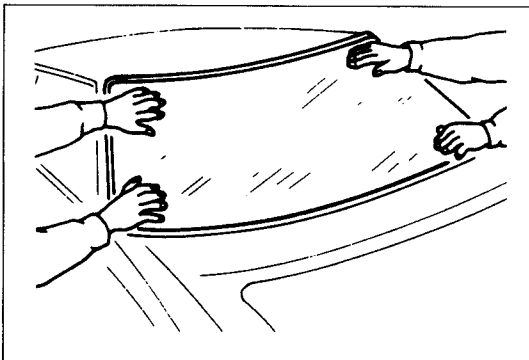
### Note

**a) With the repair seal cartridge prepared as shown in the figure, use a piece of wire to break through the seal film, and then apply the seal.**

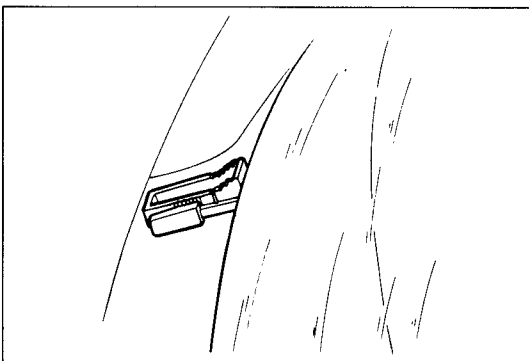
**b) If necessary, smooth the repair seal to correct any irregularities.**



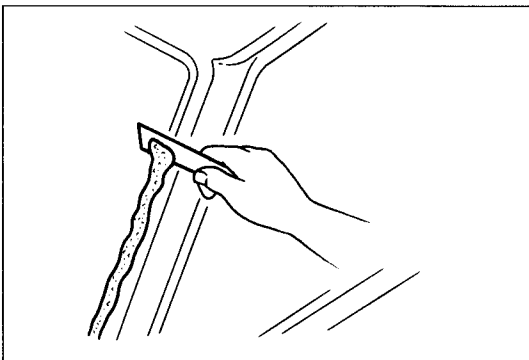
67U14X-090



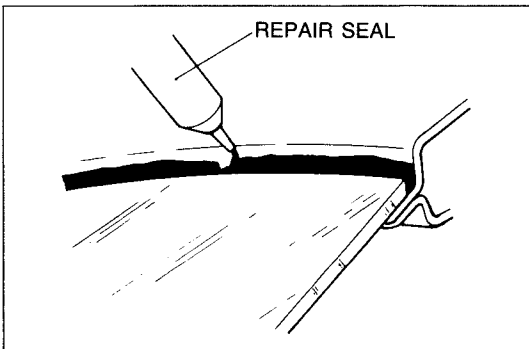
67U14X-091



97U0SX-093



97U0SX-094



97U0SX-095

7. Make three alignment marks on the upper edge of the glass as shown in the figure.

8. Mount the glass onto the body so that the marks on the glass align with the upper spacers.

9. Raise the glass up until the upper edge of the glass is stopped by the upper spacers.

10. Affix the glass by pushing the lower spacers against the lower edge of the glass.

11. Leave the doors and the windows open until the repair seal becomes somewhat hardened.

### Repair seal hardening time

Temperature	Surface	Base
5°C (41°F)	Approx. 90 min	12 hours
20°C (68°F)	Approx. 60 min	4 hours
35°C (95°F)	Approx. 10 min	2 hours

12. Remove excess or add repair seal where necessary.

13. Install the front pillar garnish and upper molding.

14. Check for water leakage. If leaks are found, remove the molding and fill the leaking area with the **repair seal** (B001 77 739).

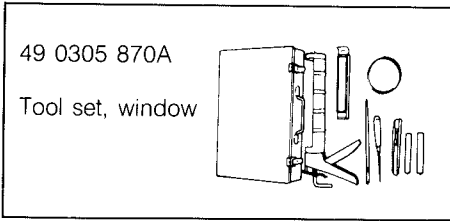
15. Install the instrument garnish, front pillar trims, front top garnish (coupe), front header trim (convertible), sunvisors, rear-view mirror, and top lock strikers (convertible).

# S REAR HATCH GLASS AND REAR SPOILER

## REAR HATCH GLASS AND REAR SPOILER

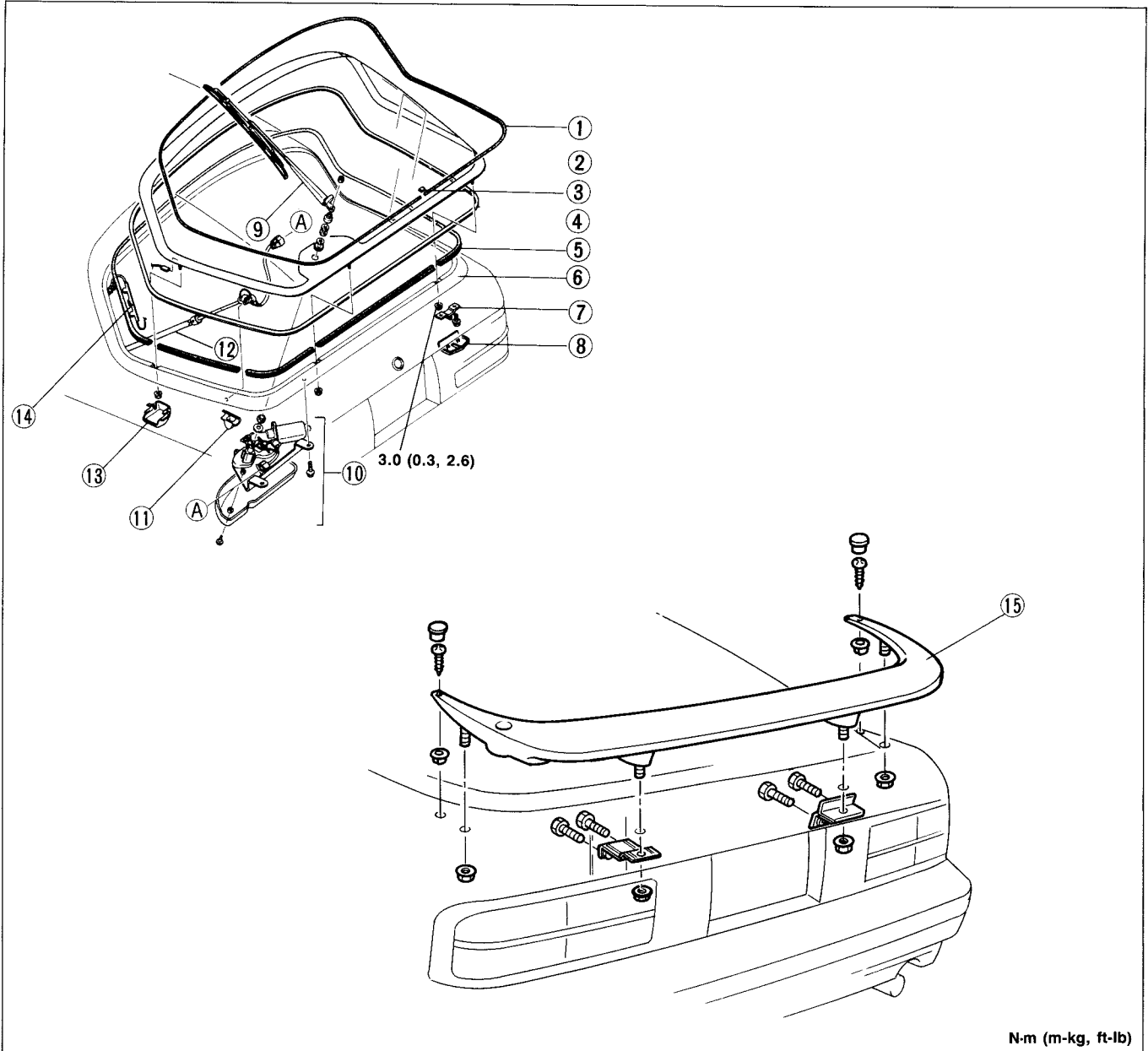
### PREPARATION

#### SST



97U0SX-096

### STRUCTURAL VIEW

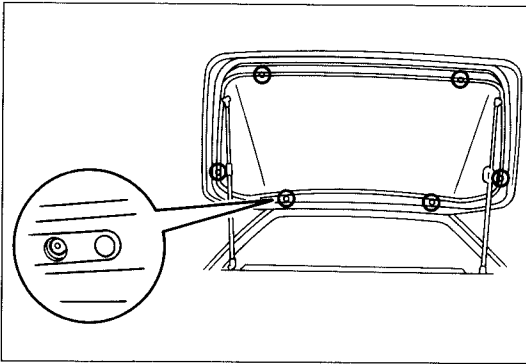


97U0SX-097

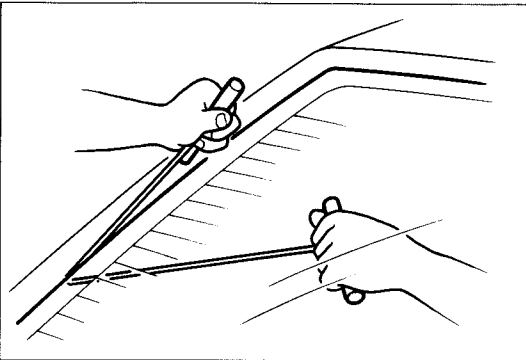
1. Molding
2. Rear hatch glass
3. Molding joint
4. Dam
5. Seaming welt

6. Rear hatch sash
7. Striker (R and L)
8. Striker cover (R and L)
9. Wiper arm and blade
10. Wiper motor assembly

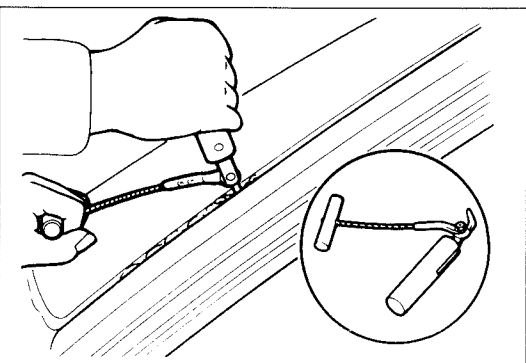
11. Stay connector cover
12. Damper stay (R and L)
13. Wiring connector cover
14. Defroster wiring (R and L)
15. Rear spoiler



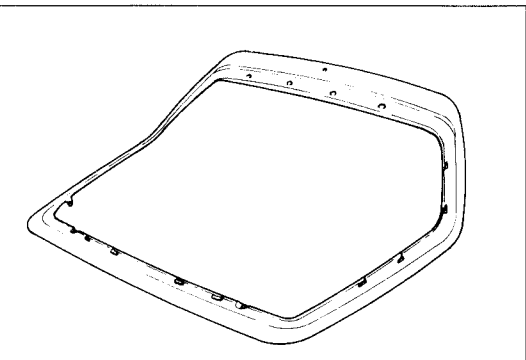
97U0SX-098



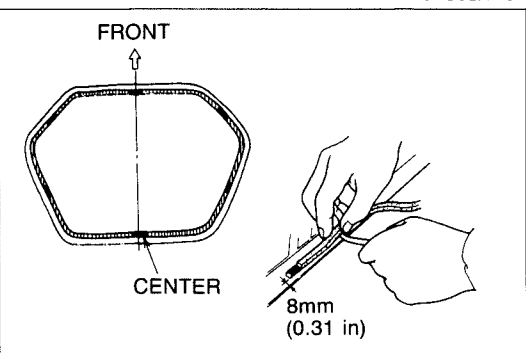
97U0SX-099



97U0SX-100



97U0SX-101



97U0SX-102

## REMOVAL

1. Remove the wiper arm and blade.
2. Remove the wiper motor assembly.
3. Remove the defroster wiring and covers.
4. Remove the seaming welt.
5. Remove the damper stays and covers.
6. Remove the molding and molding joint.
7. Remove the attaching nuts (6) of the glass.
8. Make a hole in the sealant using the awl.
9. Pass the end of a piece of the piano wire through the hole, and attach a bar to each end.
10. Two people should hold the bars, one inside and one outside the vehicle, and "saw" the sealant from around the glass.
11. Remove the glass from the sash.

## Note

- a) Cut along the border between the glass and the sealant.
- b) If too much heat develops, the piano wire may break, so cool it occasionally or do not work on one place too long.
- c) If the glass is not to be reused, a tool like that shown in the figure is faster than piano wire.

Insert the blade in the sealant, pull the bars, and cut the sealant.

## INSTALLATION

1. Remove the rear hatch sash from the body.
2. Use the razor knife to trim the sealant on the sash. Leave a layer about **1 or 2mm (0.04 to 0.08 in)** thick.

## Note

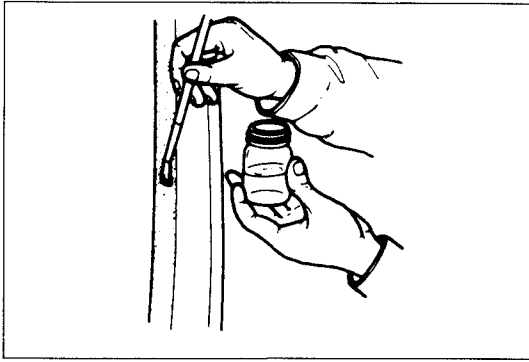
**If some of the sealant flakes off, use new sealant to patch it.**

3. Carefully clean and remove any grease from a **5 cm (1.97 in)** wide area around the perimeter of the glass and the remaining bond on the sash.
4. Attach the dam around the glass about **8mm (0.31 in)** from the edge.

## Note

**Be sure the dam is straight and set securely.**

# S REAR HATCH GLASS AND REAR SPOILER

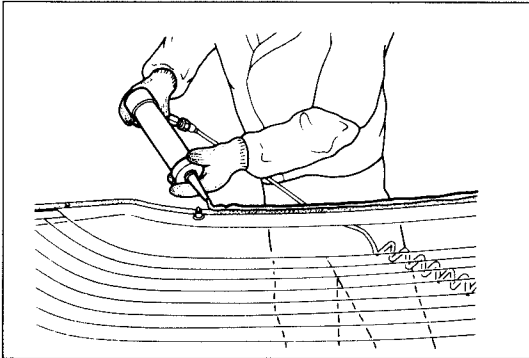


97U0SX-103

5. Use the brush to apply a coat of primer to the adhesion surfaces around the glass and on the sash where the glass will adhere, and allow it to dry for **10 minutes or more**.

**Note**

**Be sure no dust, moisture, or grease gets on the primed surfaces, and do not touch them.**

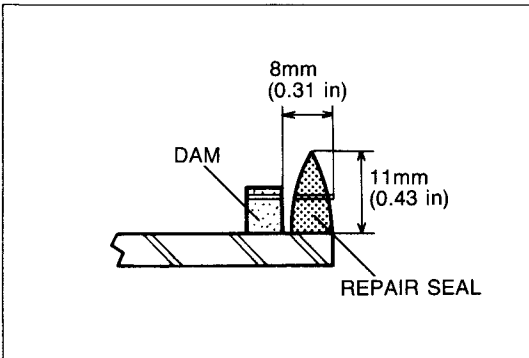


97U0SX-104

6. After the primer dries, apply a bead of repair seal to a height of **11mm (0.43 in)** around the glass using a sealant gun.

**Note**

**If necessary, smooth the repair seal to correct any irregularities.**

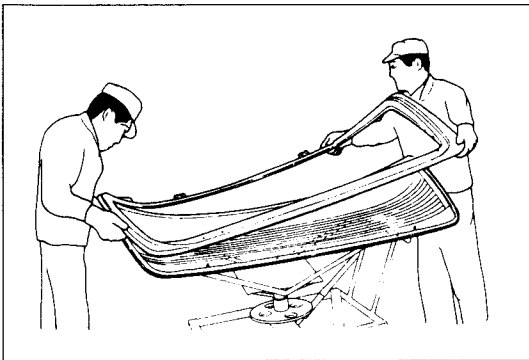


67U14X-105

7. Install the sash onto the glass.

**Note**

**The correct position of the sash on the glass is determined by the stud bolts on the glass.**



67U14X-106

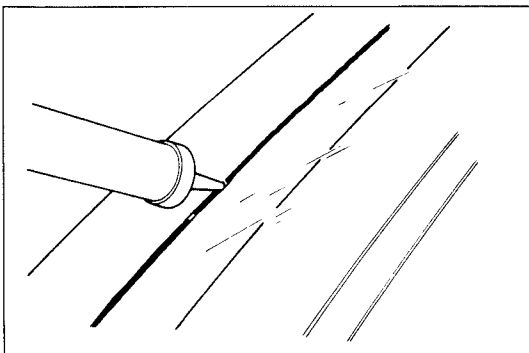
8. Tighten the stud bolt nuts.

**Tightening torque: 3 N·m (30 cm·kg, 26 in·lb)**

9. Allow the glass and sash to set until the repair seal becomes somewhat hardened.

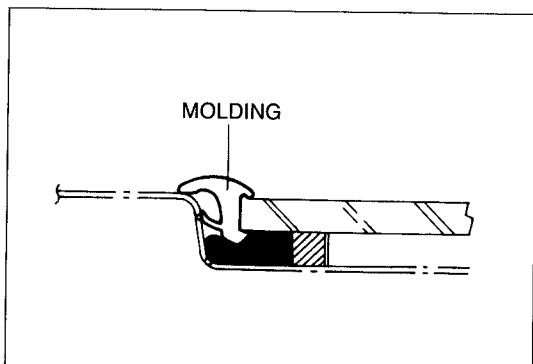
**Repair seal hardening time**

Temperature	Surface	Base
5°C (41°F)	Approx. 90 min	12 hours
20°C (68°F)	Approx. 60 min	4 hours
35°C (95°F)	Approx. 10 min	2 hours

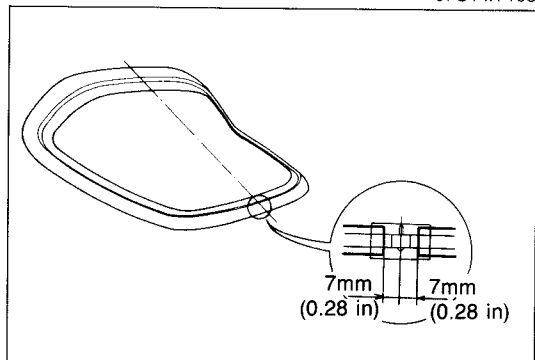


97U0SX-105

10. Remove the excess or add repair seal where necessary.



67U14X-108



97U0SX-106

11. Install the molding, starting at the rear center of the rear hatch.

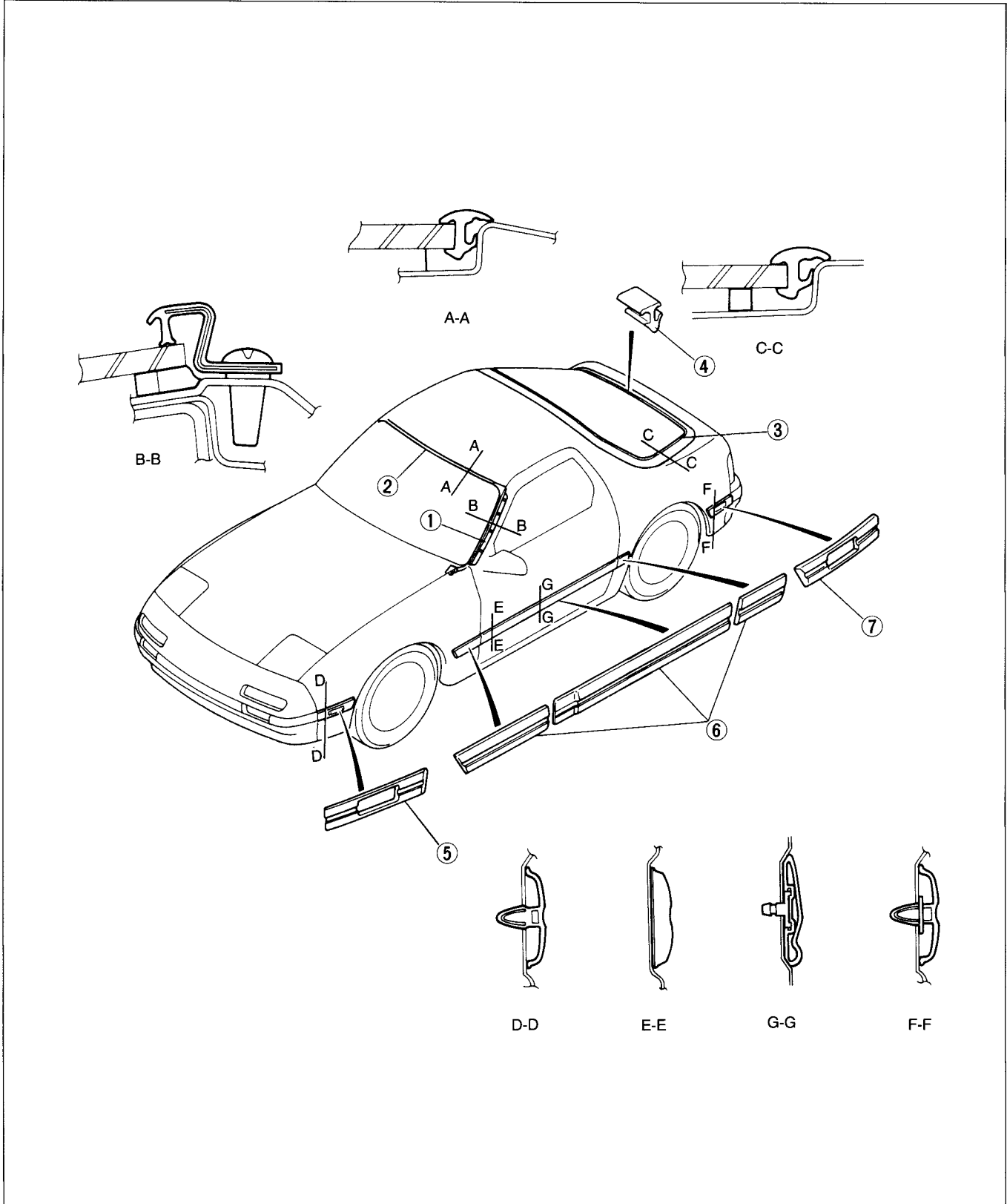
### Note

**Cut off the extra length of molding, as in the figure.**

12. Install the molding joint.
13. Install the seaming welt.
14. Install the rear hatch onto the body.
15. Install the damper stays and covers.
16. Install the defroster wiring and covers.
17. Install the wiper motor assembly.
18. Install the wiper arm and blade.
19. Check for water leakage.

## MOLDING

### STRUCTURAL VIEW

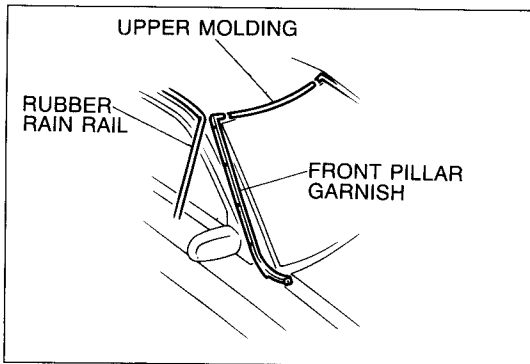


97U0SX-107

- 1. Front pillar garnish
- 2. Upper molding
- 3. Rear hatch molding
- 4. Molding joint

- 5. Front protector molding
- 6. Side protector molding
- 7. Rear protector molding



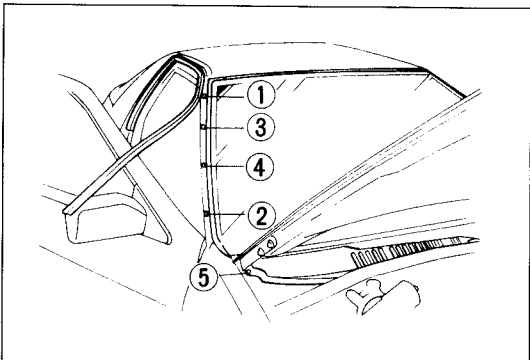


67U14X-111

### FRONT PILLAR GARNISH

#### Removal

1. Remove the front half of the rubber rain rail.
2. Remove the right side front pillar garnish.
3. Remove the upper molding.
4. Remove the left side front pillar garnish.



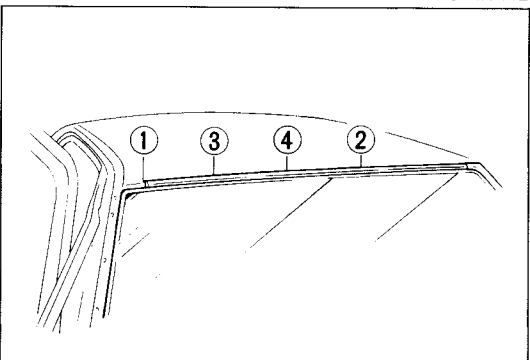
67U14X-112

#### Installation

Install in the reverse order of removal.

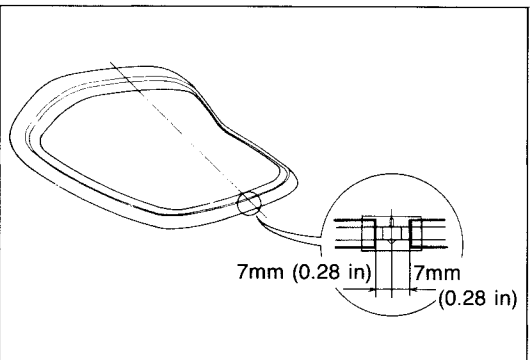
#### Note

a) Tighten the attaching screws in the order shown in the figure.



67U14X-113

b) Push in the upper molding in the order shown in the figure.



97U0SX-108

### REAR HATCH MOLDING

#### Removal

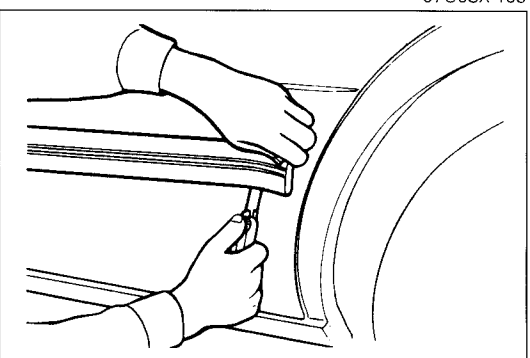
1. Remove the molding joint.
2. Remove the rear hatch molding, starting at one end.

#### Installation

Install in the reverse order of removal.

#### Note

Cut away the extra length of molding as in the figure.



67U14X-115

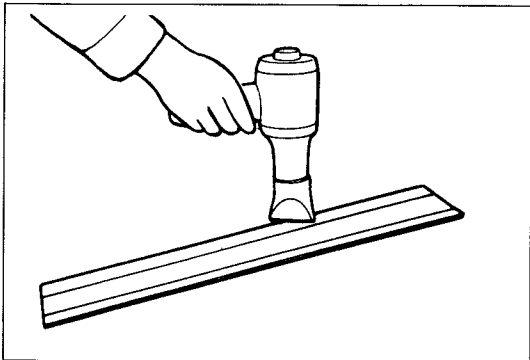
### SIDE PROTECTOR MOLDING (STICK-ON TYPE)

#### Removal

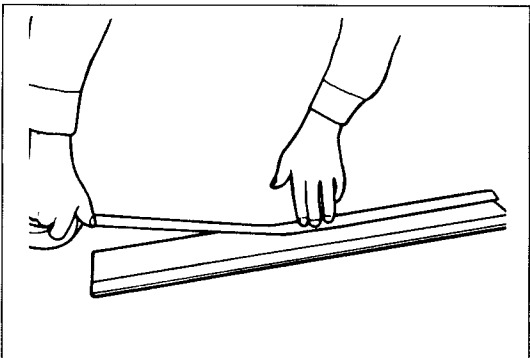
1. Being careful not to scratch the body, use a knife to cut away the molding from the body.
2. Cut away any adhesive remaining on the body or the molding.

#### Note

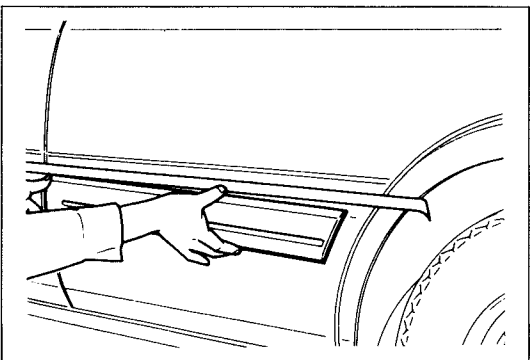
Remove as much adhesive as possible without damaging the surface.



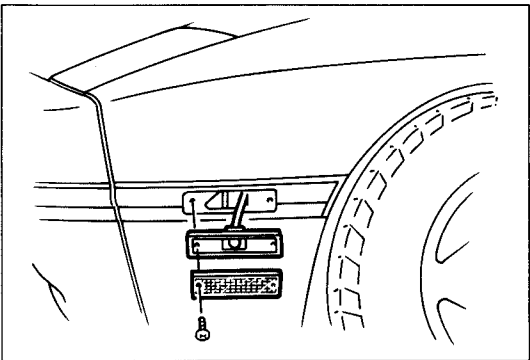
67U14X-116



67U14X-117



67U14X-118



97U0SX-109

3. If the "hot melt" (adhesive) is hard to remove, use a blow dryer to soften it.

## Installation

1. Remove any grease from the body and molding surfaces.
2. Use masking tape to mark the installation location on the body.
3. Attach two-sided molding tape to the molding adhesion surface.

4. Align the molding on the body and attach it securely.

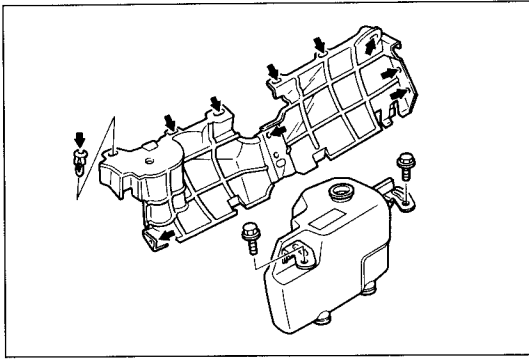
## Note

The adhesion strength is decreased below 20°C (68°F), so it is best to warm the body surface beforehand, if necessary.

## FRONT AND REAR PROTECTOR MOLDINGS (SNAP-IN TYPE)

### Removal and Installation

1. Remove the light.
2. Remove the molding by compressing the installation fasteners with pliers and pulling the molding outward.

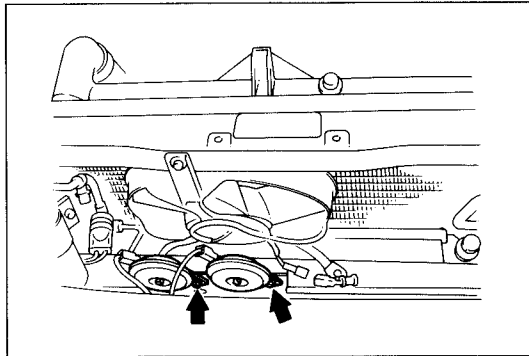


97U0SX-110

## HORN

### REMOVAL

1. Remove the coolant reservoir tank.
2. Remove the upper duct cover from the shroud upper plate.

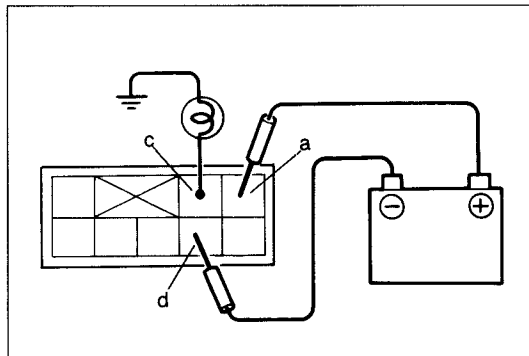


97U0SX-111

3. Remove the horn.

### INSTALLATION

Install in the reverse order of removal.



97U0SX-112

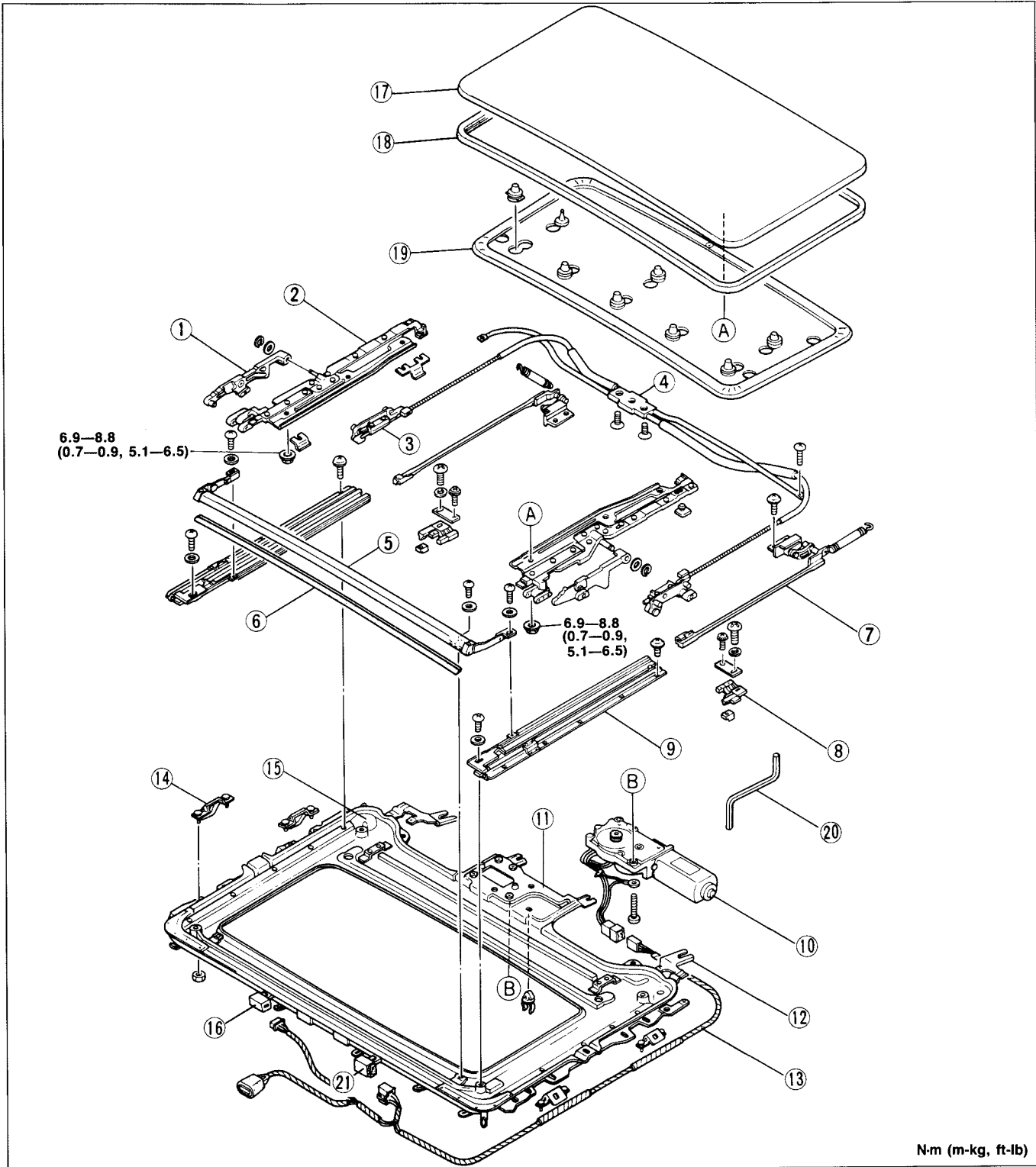
### INSPECTION

#### Horn Relay (in CPU)

1. Apply 12V to the A terminal of the CPU (B connector 8 PIN) and connect the C terminal to the ground.
2. Confirm that the test lamp come on when connecting between the B terminal and the ground.

## SLIDING SUNROOF

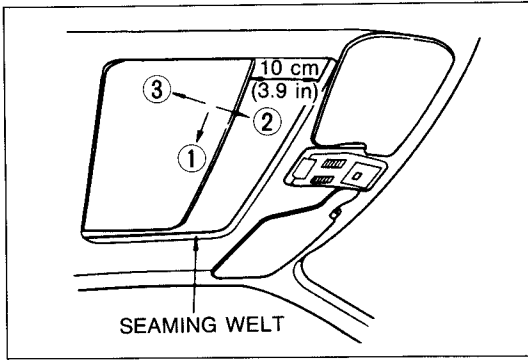
### STRUCTURAL VIEW



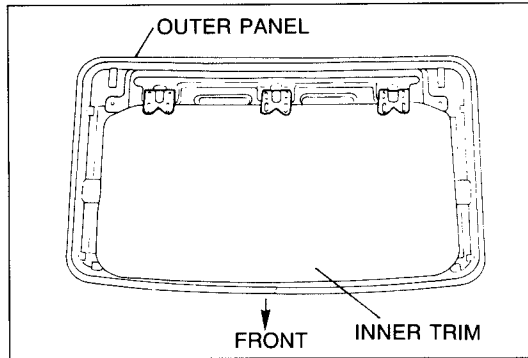
N-m (m-kg, ft-lb)

97U0SX-113

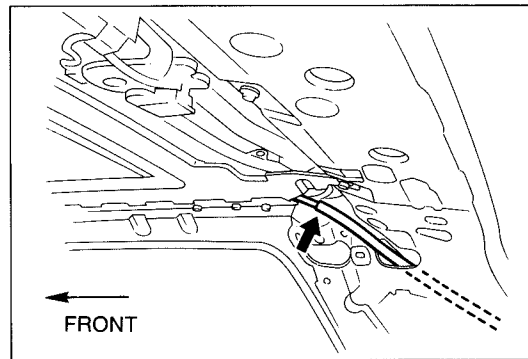
- |                     |                      |                      |
|---------------------|----------------------|----------------------|
| 1. Lifter           | 8. Cable holder      | 15. Frame assembly   |
| 2. Lower panel      | 9. Guide rail        | 16. Relay No.1       |
| 3. Slider           | 10. Motor assembly   | 17. Outer panel      |
| 4. Drive unit       | 11. Motor bracket    | 18. Weatherstrip     |
| 5. Wind deflector   | 12. Rear header      | 19. Inner trim       |
| 6. Seal             | 13. Harness assembly | 20. Emergency handle |
| 7. Shutter assembly | 14. Set bracket      | 21. Relay No.2       |



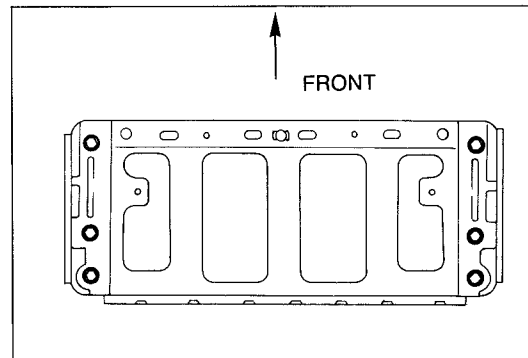
97U0SX-114



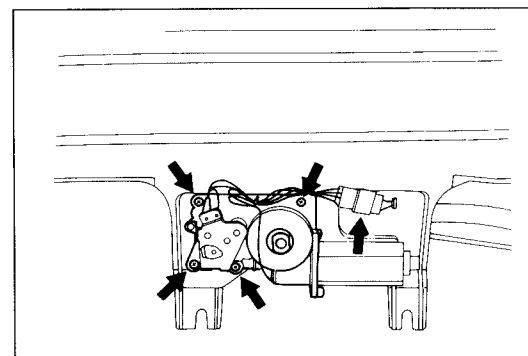
67U14X-057



97U0SX-115



97U0SX-116



97U0SX-117

## REMOVAL

1. Open the outer panel about **100mm (3.9 in)**.
2. Remove the headliner opening seaming welt.
3. Remove the inner trim;
  - (1) Pull down the front.
  - (2) Pull the trim forward.
  - (3) Remove the trim, lifting it up about out of the vehicle.

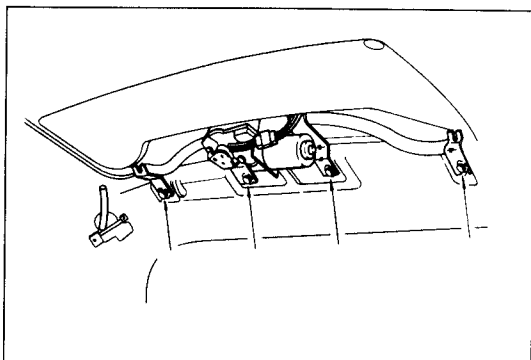
## Note

**The inner trim rear is inserted into the outer panel as shown in the figure.**

4. Remove the front pillar trim, the quarter pillar trim and rear top garnish.
5. Remove the headliner.
6. Disconnect the drain hoses.

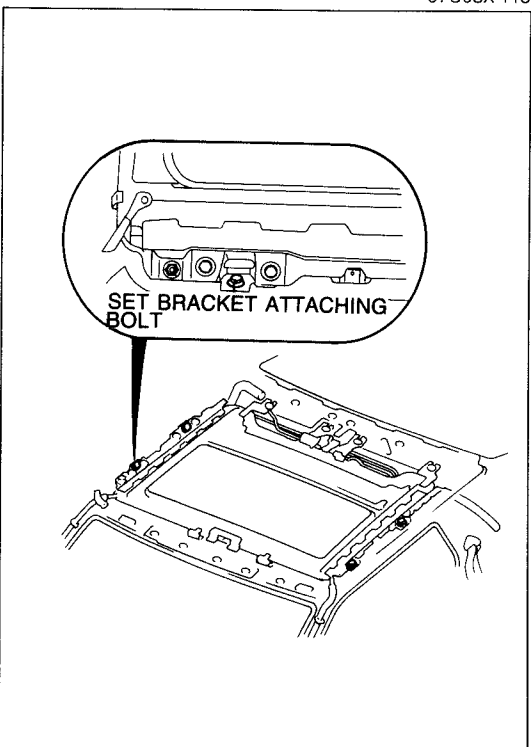
7. Close the sunroof with the emergency handle.
8. Disconnect the wire connectors.
9. Remove the outer panel by removing the outer panel fixing nuts (6).

10. Remove the motor bracket attaching bolts.



97U0SX-118

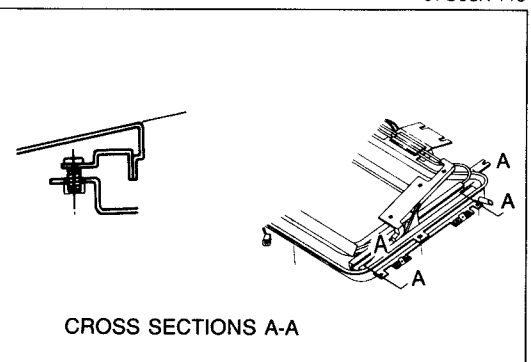
11. Remove the rear header attaching bolts.



97U0SX-119

12. Remove the set bracket attaching bolts.

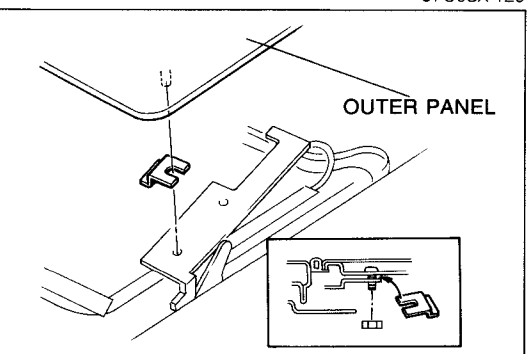
13. Supporting the lower unit, remove the height adjusting nuts (4) and take the lower unit down.



97U0SX-120

## INSTALLATION

1. Attach the lower unit to the roof using the height adjusting nut (4) temporarily.

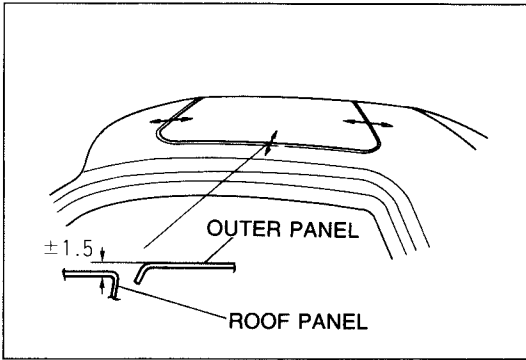


97U0SX-121

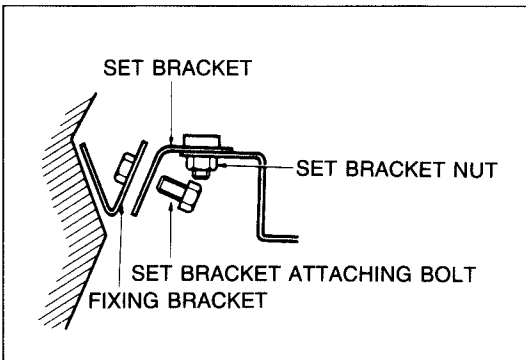
2. Install the outer panel with the front shims (2) and the rear shims (2) between the lower panel and the outer panel.

### Tightening torque:

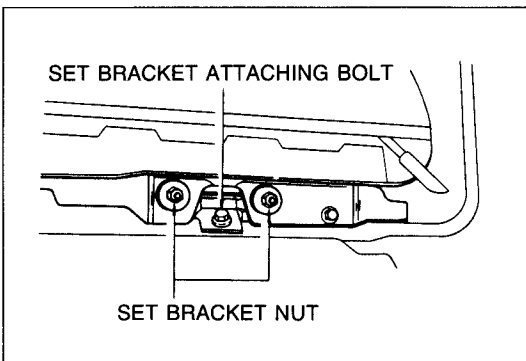
**6.9—8.8 N·m (0.7—0.9 m·kg, 5.1—6.5 ft·lb)**



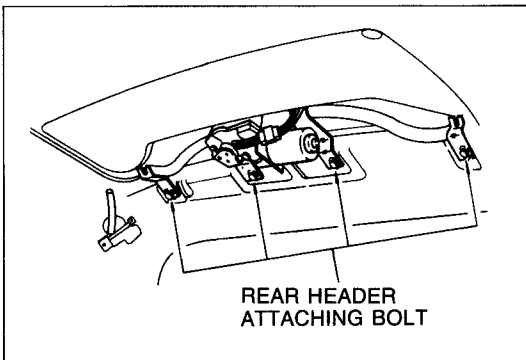
97U0SX-122



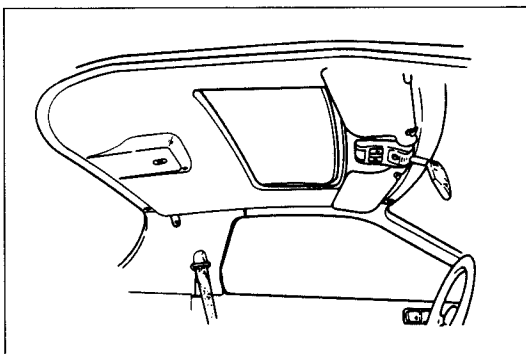
67U14X-065



97U0SX-123



97U0SX-124



97U0SX-125

3. Adjust the sunroof height using the height adjusting nuts.

**Height difference around circumference:  
1.5mm (0.06 in) max.**

4. Loosen the set bracket nuts.

5. Adjust the set bracket positions so that the holes of the set bracket agree with those of the fixing brackets of the body.

6. Attach the set brackets to the fixing brackets using the set bracket attaching bolts.

**Tightening torque:  
7.8—11 N·m (0.8—1.1 m·kg, 5.8—8.0 ft·lb)**

7. Tighten the set bracket nuts.

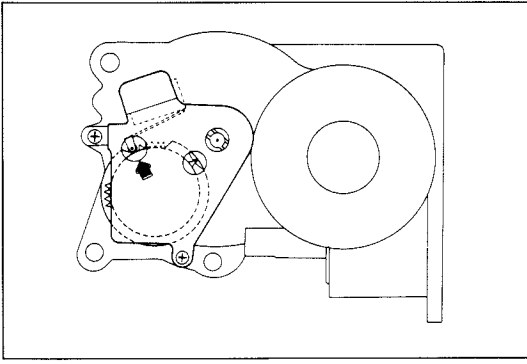
8. Tighten the rear header attaching bolts.

**Tightening torque:  
7.8—11 N·m (0.8—1.1 m·kg, 5.8—8.0 ft·lb)**

9. Tighten the motor bracket attaching bolts.

10. Install the remaining parts. Refer to the removal procedures.

# S SLIDING SUNROOF



67U14X-069

## REPLACEMENT OF MOTOR ASSEMBLY

1. Tilt up the sunroof.
2. Remove the motor assembly.
3. Set the timing gear of the new motor assembly in the tilt-up position, as shown in the figure.
4. Install the new motor assembly.

### Note

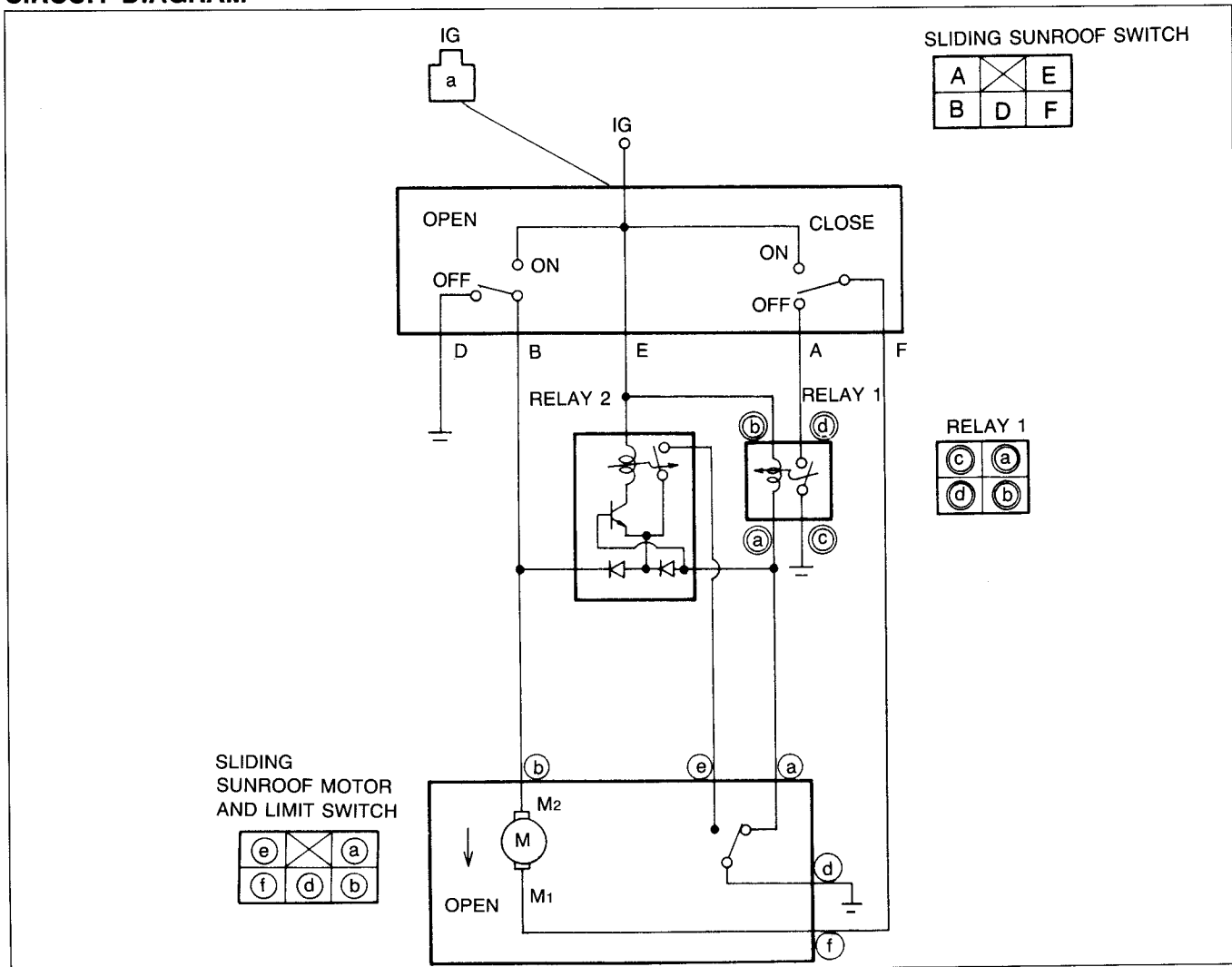
The position of the timing gear can be checked through the check hole of the motor assembly. If the position of the timing gear is not in the tilt-up position, adjust the gear position using the emergency handle.

## TROUBLESHOOTING GUIDE

Problem	Possible cause	Remedy	page
Sunroof system does not work	SUNROOF fuse blown Defective sunroof switch	Replace fuse and check Check and repair	S-70 S-71
Sunroof does not tilt	Defective limit switch	Check and repair	S-71

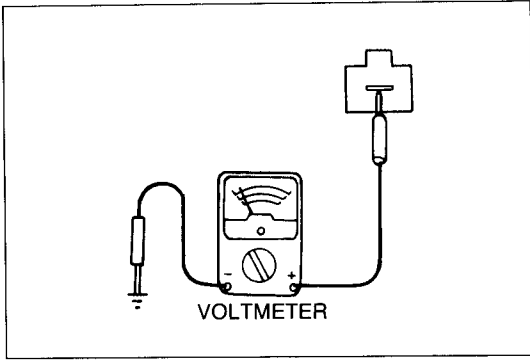
97U0SX-126

## CIRCUIT DIAGRAM



97U0SX-127





97U0SX-128

## INSPECTION Sliding Sunroof Switch Checking circuit

1. Disconnect the connector from the sliding sunroof switch.
2. Turn the ignition switch to ON.
3. Using a voltmeter, measure the voltage.

.....12V

4. If there is no voltage, check the fuse or repair the wiring harness.

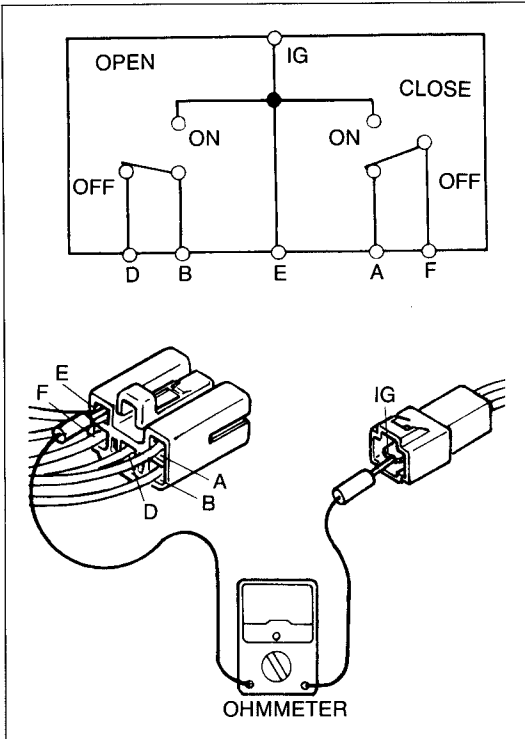
## Checking sliding sunroof switch

1. Disconnect the connector from the sliding sunroof switch
2. Using an ohmmeter, check for continuity at the terminals.

○—○: Indicates continuity

	IG	A	B	D	E	F
OFF	○		○—○	○	○	
Open	○	○	○	○	○	○
Close	○		○—○	○	○	○

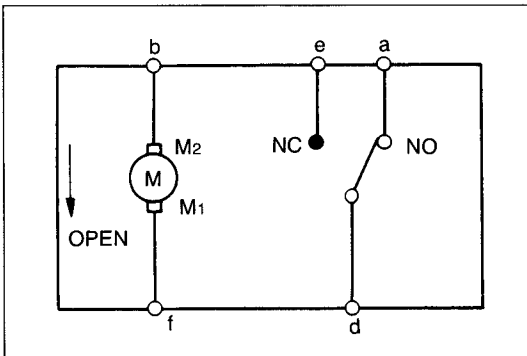
3. If there is no continuity, replace the sliding sunroof switch.



97U0SX-129

## Sliding Sunroof Motor and Limit Switch

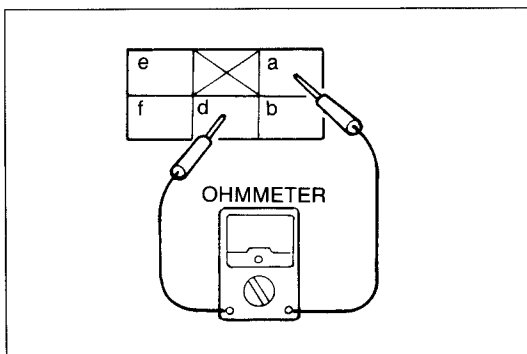
1. Disconnect the connector from the sliding sunroof motor.
2. Using an ohmmeter, check for continuity at the connector as follows.



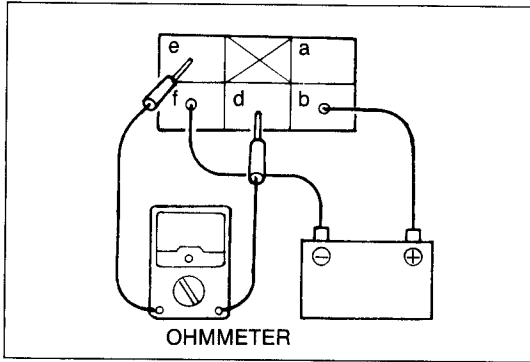
67U15X-099

## When closed

3. Check for continuity between (a) terminal and (d) terminal



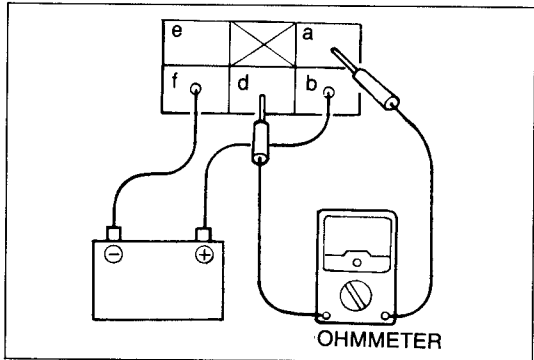
67U15X-100



67U15X-101

### When tilted up

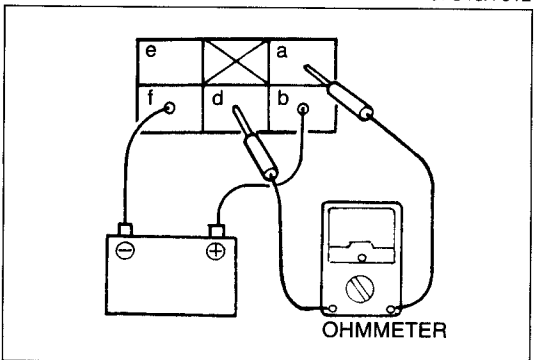
4. Check for continuity between (d) terminal and (e) terminal.



67U15X-012

### When closed

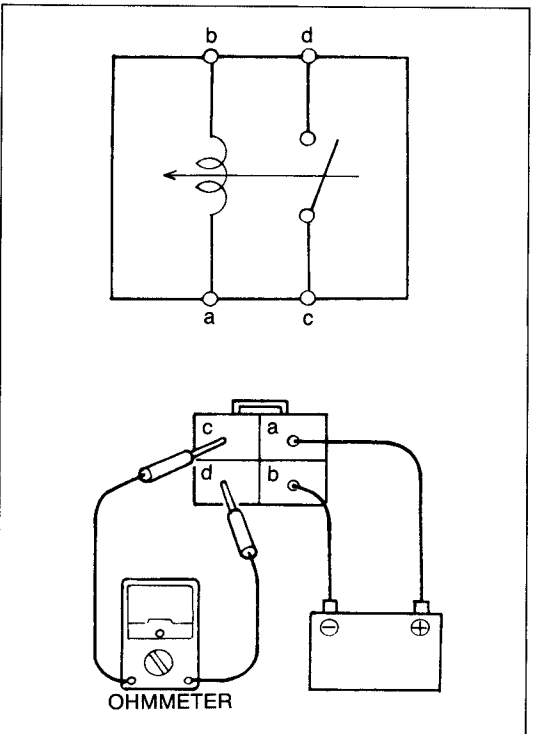
5. Check for continuity between (a) terminal and (d) terminal.



67U15X-103

### When open

Check for continuity between (a) terminal and (d) terminal.



67U15X-104

### Relay 1

#### Checking relay 1

1. Disconnect the connector from relay 1.
2. Using an ohmmeter, check for continuity at the terminals.

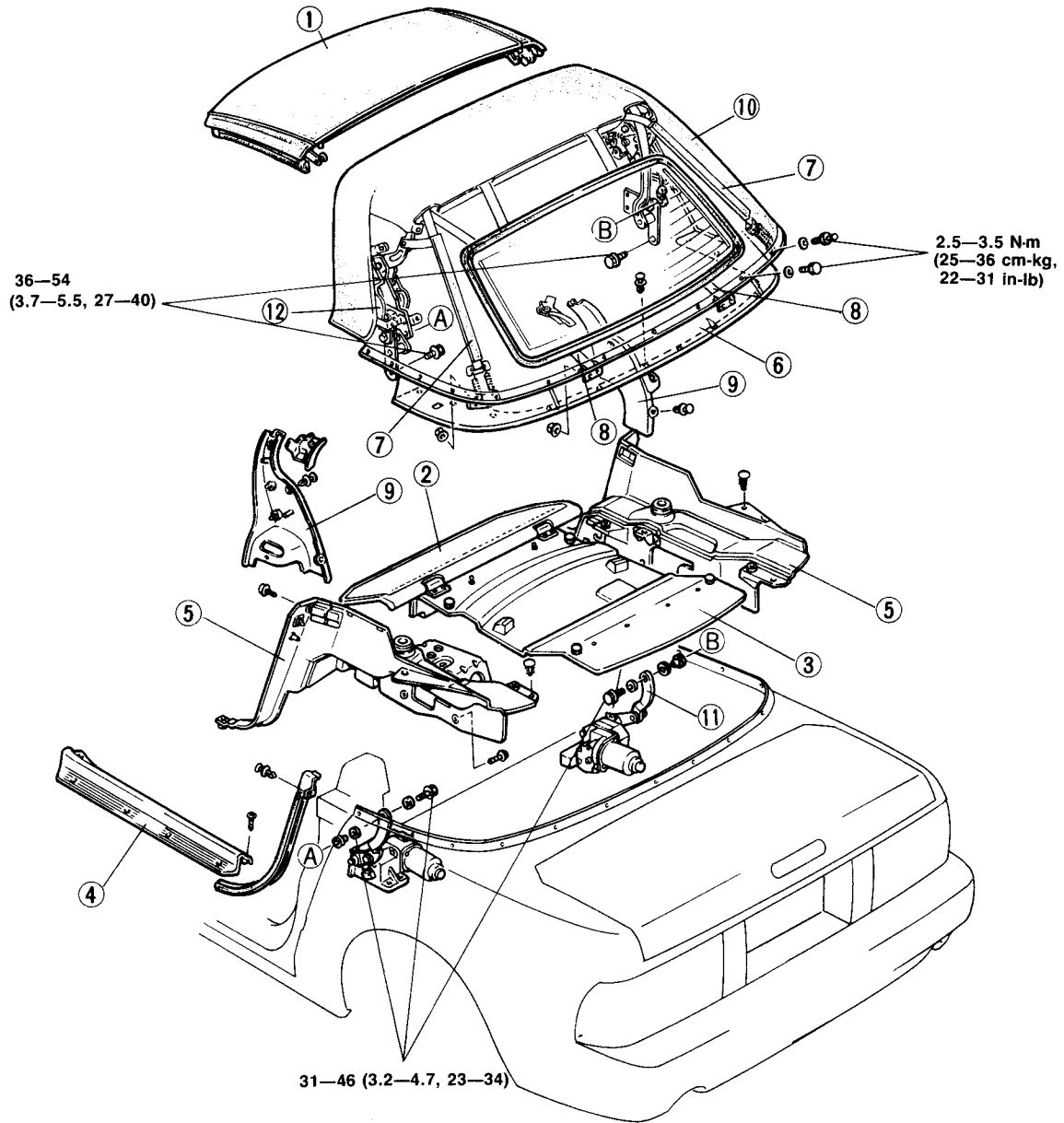
○—○: Indicates continuity

Battery		Continuity			
(+)	(-)	a	b	c	d
a	b			○—○	○—○

3. If there is no continuity, replace the relay.

CONVERTIBLE TOP

STRUCTURAL VIEW



N·m (m·kg, ft·lb)

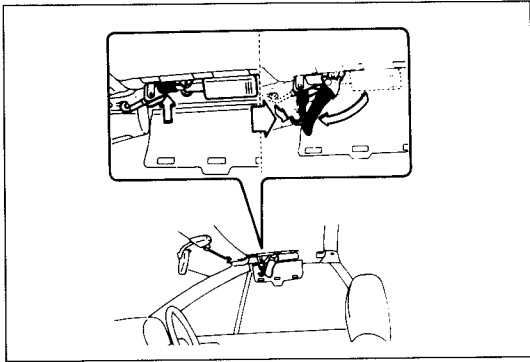
97U0SX-130

- 1. Roof panel
- 2. Windblocker
- 3. Spare tire cover
- 4. Scuff plate

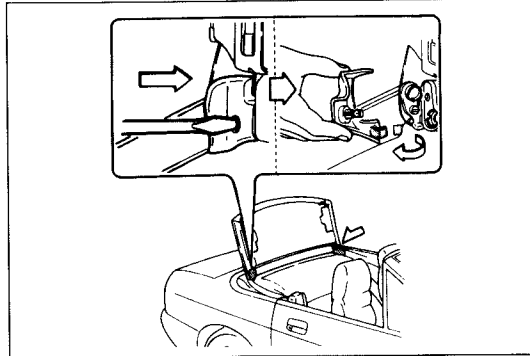
- 5. Quarter trim
- 6. Headliner
- 7. Corner belt A
- 8. Rear window belt C

- 9. Link cover
- 10. Top fabric
- 11. Motor link
- 12. Forming bar assy

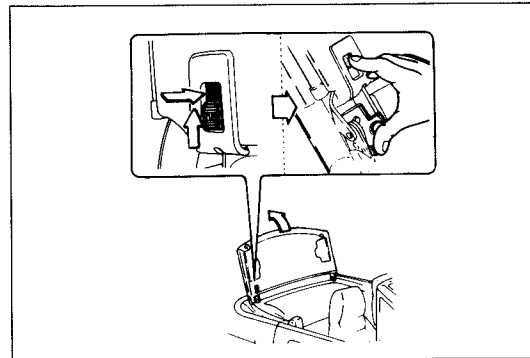
# S CONVERTIBLE TOP



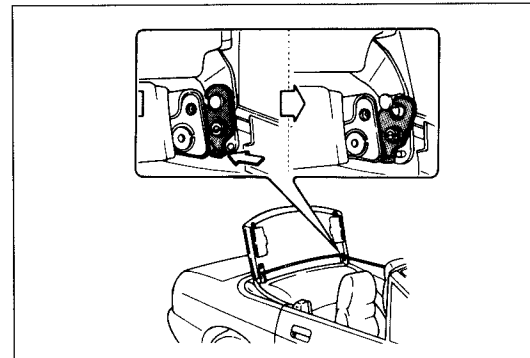
97U0SX-131



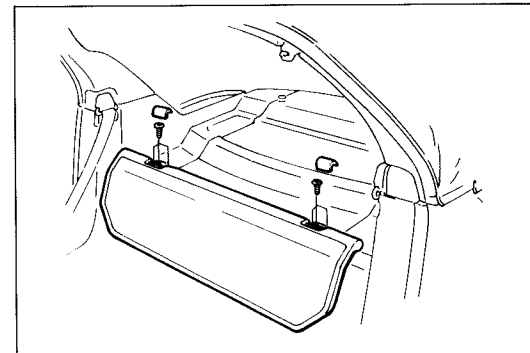
87U14X-040



97U0SX-132



97U0SX-133



87U14X-042

## REMOVAL Roof Panel

1. Pull the sunvisors down.
2. Push the unlock tab and release the right and left top lock levers.

### Note

**Perform this operation with two people.**

3. Remove the right and left hinge covers with a screwdriver.

### Note

**Lower the convertible top fully.**

4. Push in on the hinge lock on the driver's side and slide it upward.

### Note

**Perform the next step with two people.**

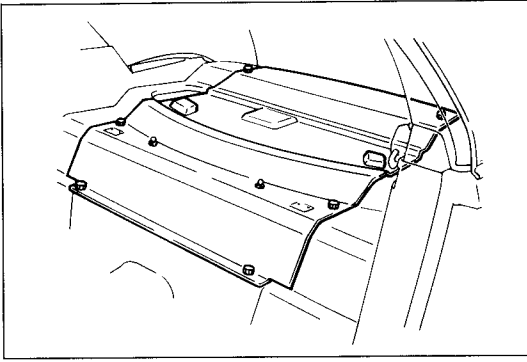
5. Push the hinge release levers and release the right and left hinges latch. Left off the roof panel.

## Windblocker

Remove the screws and remove the windblocker from the spare tire cover.

### Note

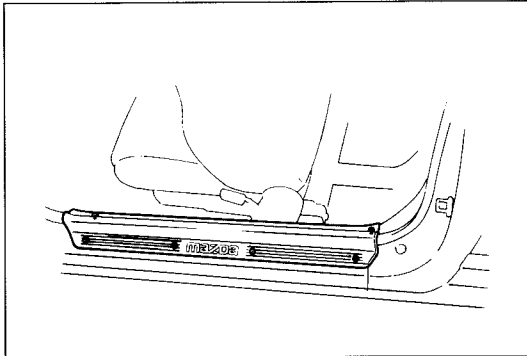
**Raise the convertible top completely.**



87U14X-043

### Spare Tire Cover

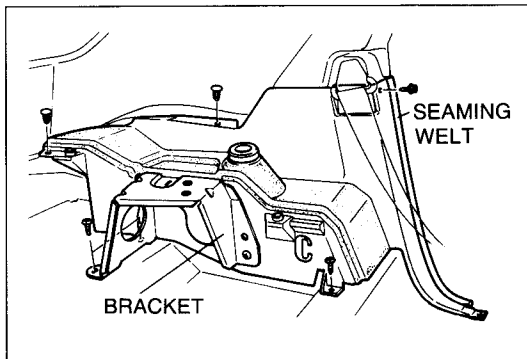
Remove the fasteners; then remove the spare tire cover and spare tire.



87U14X-044

### Scuff Plate

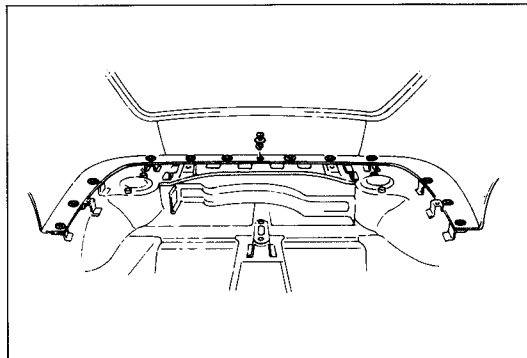
Remove the fasteners and remove the scuff plate.



77A14X-036

### Quarter trim

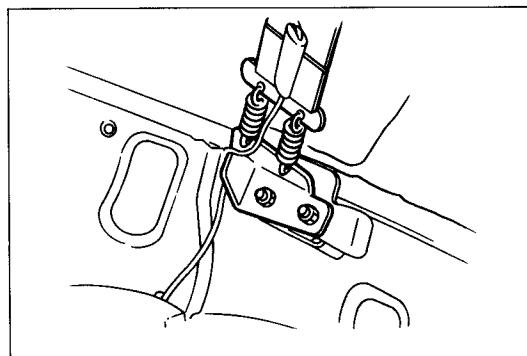
1. Remove the bolts and the bracket.
2. Remove the fastener and the seaming welt.
3. Remove the screws and fasteners, then the quarter trim.



87U14X-046

### Headliner

Remove the fasteners, then the headliner from the body.

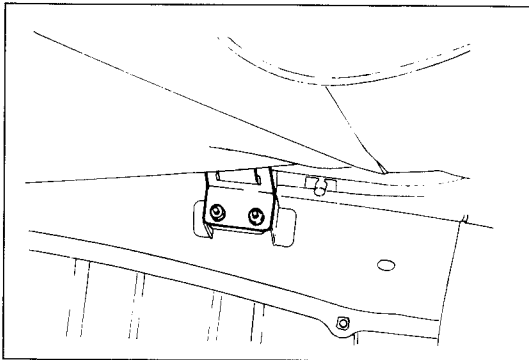


87U14X-047

### Corner Belt A

Turn up the headliner; then remove corner belt A from the body.

# S CONVERTIBLE TOP



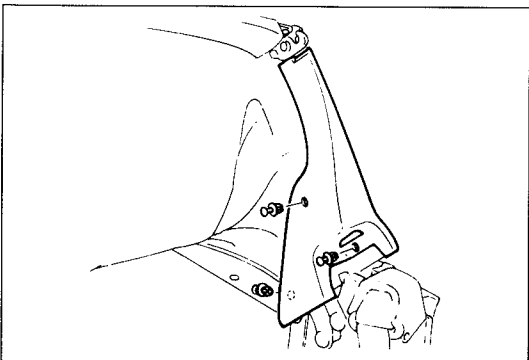
97U0SX-134

## Rear Window Belt B

Turn up the headliner; then remove rear window belt B from the body.

## Defog Harness Connectors

Remove the defog harness connectors at the body side.



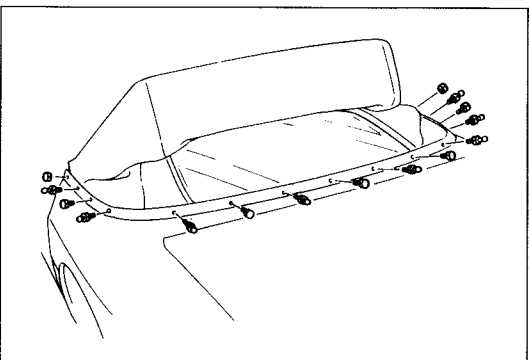
87U14X-049

## Link Cover

Remove the fasteners, then the link cover from forming bar A.

### Note

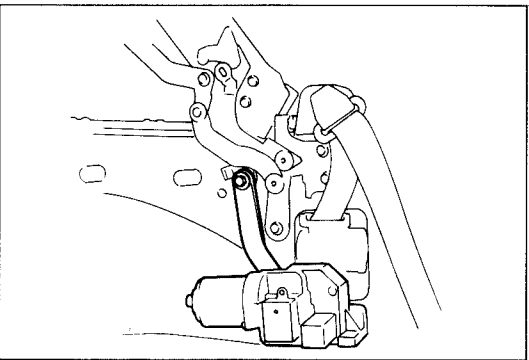
**Lower the convertible top half-way.**



97U0SX-135

## Top fabric

Remove the hooks, fasteners, bolts, and nuts, then the top fabric from the body.



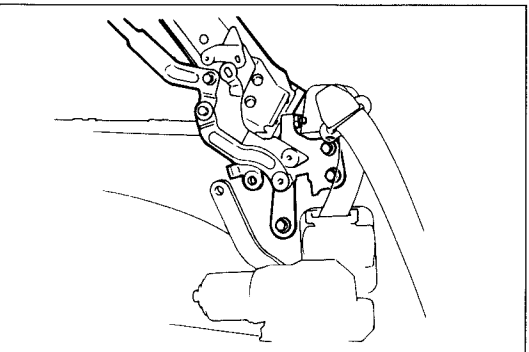
87U14X-051

## Motor Link

Remove the bolt, then the motor link to forming bar A from the body.

### Caution

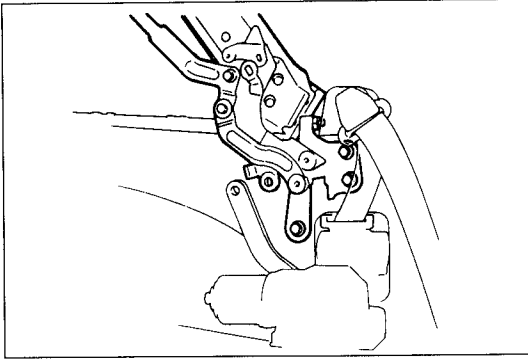
**Support the top by hand to prevent it from dropping.**



97U0SX-136

## Convertible Top

Remove the bolts, then the forming bar assembly from the body. Remove the convertible top.



97U0SX-137

## INSTALLATION Convertible Top

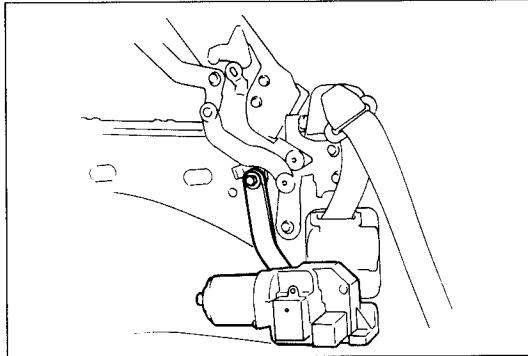
Install the forming bar assembly to the body with the fasteners.

### Tightening torque:

**36—54 N·m (3.7—5.5 m·kg, 27—40 ft·lb)**

### Note

**Perform this operation with two people.**



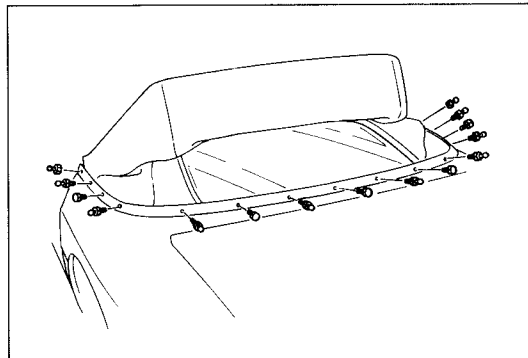
97U0SX-138

## Motor Link

Install the motor link to the forming bar assembly with the bolt.

### Tightening torque:

**31—46 N·m (3.2—4.7 m·kg, 23—34 ft·lb)**



97U0SX-139

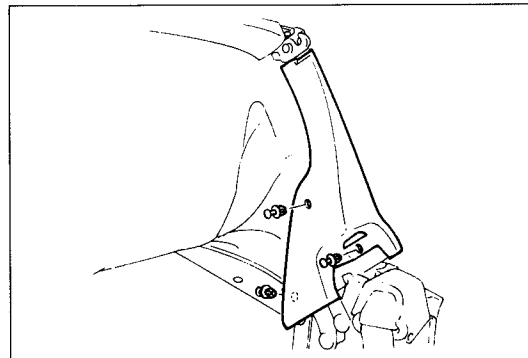
## Top Fabric

Install the top fabric to the body with the hooks, bolts, and nuts.

### Tightening torque:

**Hook, bolt: 2.5—3.5 N·m  
(25—36 cm·kg, 22—31 in·lb)**

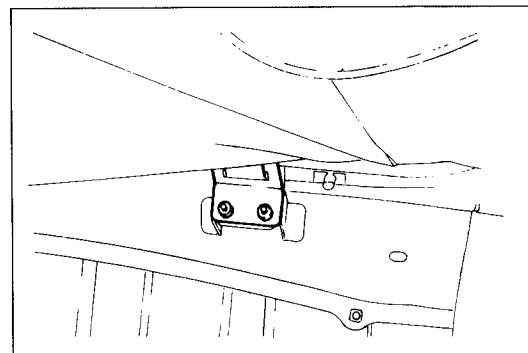
**Nut : 4.2—6.2 N·m  
(43—63 cm·kg, 37—55 in·lb)**



97U0SX-190

## Link Cover

Install the link cover to forming bar A with the clips.



97U0SX-140

## Defog Harness Connector

### Note

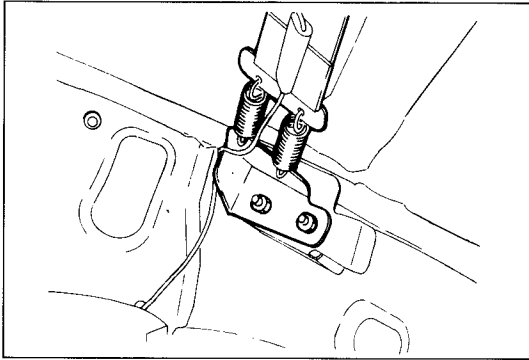
**Raise the convertible top completely.**

## Rear Window Belt B

Install rear window belt B to the body with the nuts.

### Tightening torque:

**6.9—9.8 N·m (0.7—1.0 m·kg, 5.1—7.2 ft·lb)**



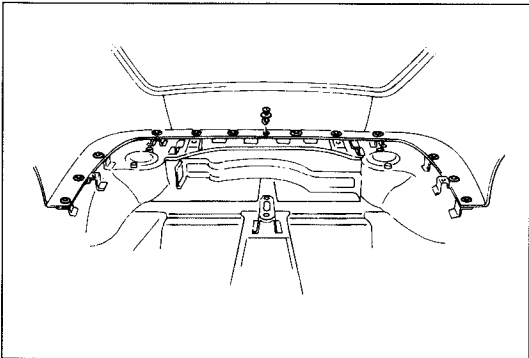
97U0SX-141

## Corner Belt A

Install corner belt A to the body with the nuts.

### Tightening torque:

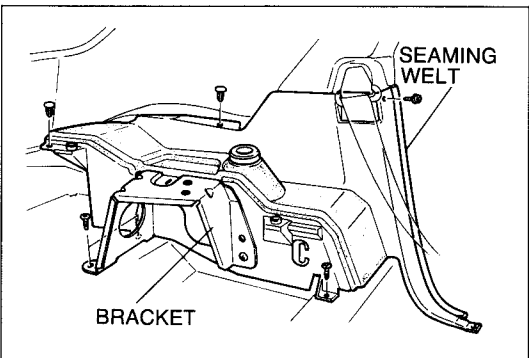
6.9—9.8 Nm (0.7—1.0 m·kg, 5.1—7.2 ft·lb)



87U14X-059

## Headliner

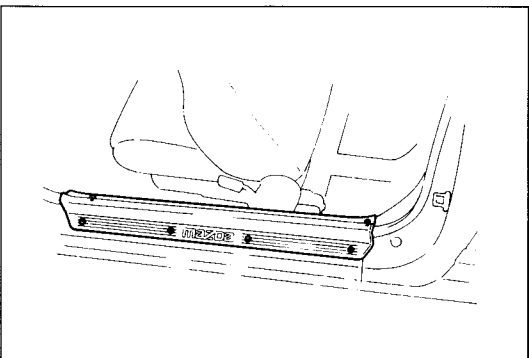
Install the headliner to the body with the fasteners.



97U0SX-142

## Quarter Trim

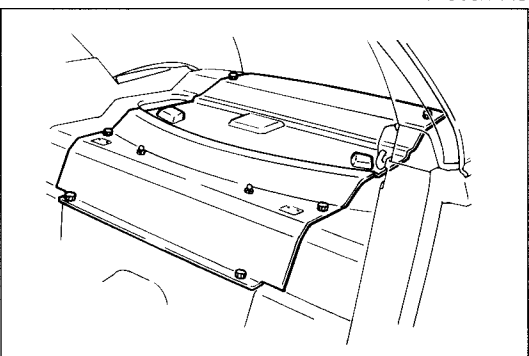
1. Slide the quarter trim over the seat belt, then mount the it to the body with the clips, screws, and fasteners.
2. Install the bracket to the body with the bolts.
3. Install the seaming welt with the fastener.



97U0SX-143

## Scuff Plate

Insert the scuff plate to the quarter trim, then mount it to the body with the screws.

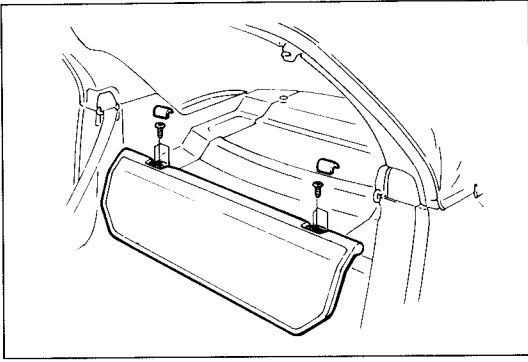


87U14X-062

## Spare Tire Cover

1. Install the spare tire.
2. Install the spare tire cover with the fasteners.

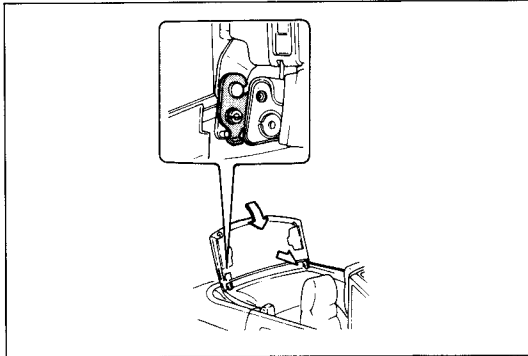




87U14X-063

## Windblocker

Install the windblocker to the spare tire cover with the screws.



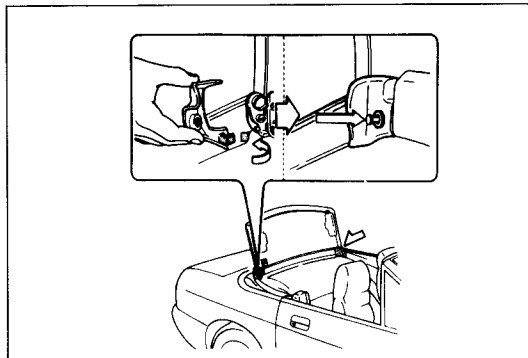
87U14X-064

## Roof Panel

1. Insert the roof panel squarely into the hinges.
2. Set the hinge lock in the LOCK position.

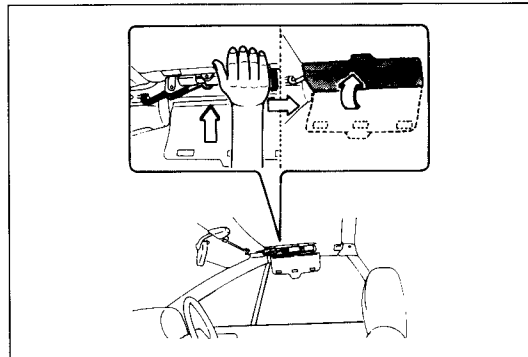
### Note

**Make sure a click is heard when setting the hinge lock in the LOCK position.**



87U14X-065

3. Install the left and right hinge covers.



97U0SX-144

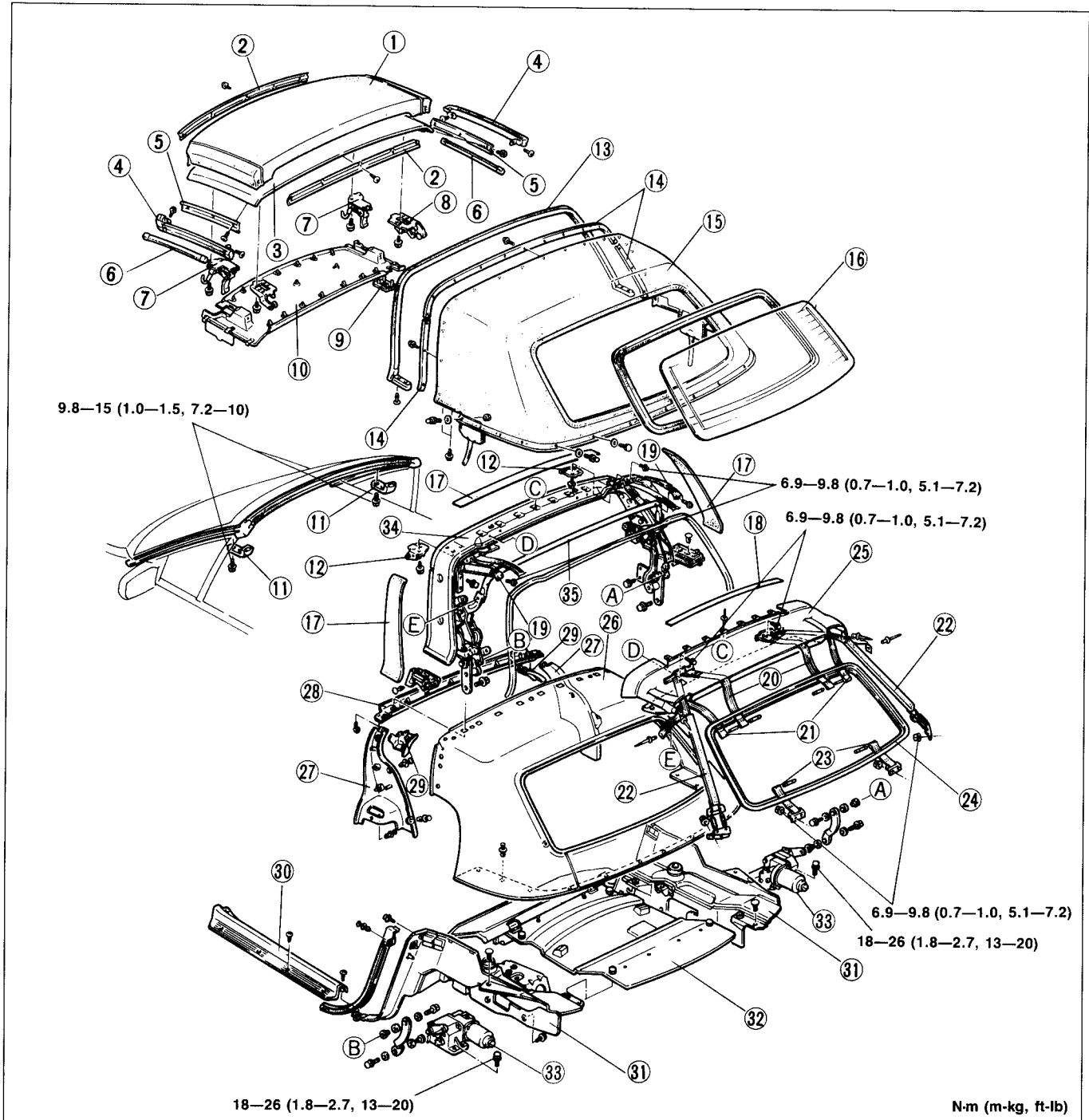
4. Set the top lock levers in the LOCK position.
5. Raise the sunvisors to the normal position.

### Note

**Never leave the roof panel unlocked.**

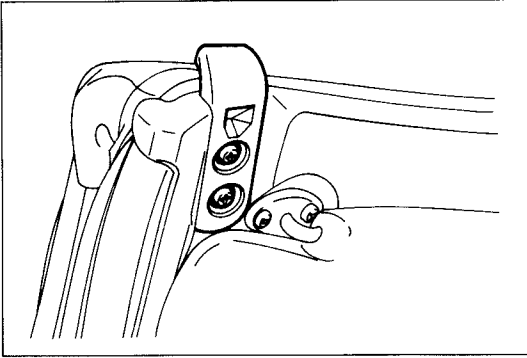
# S CONVERTIBLE TOP

## COMPONENTS OF CONVERTIBLE TOP Structural view



97U0SX-145

- |                               |                              |                      |
|-------------------------------|------------------------------|----------------------|
| 1. Roof panel fabric covering | 13. Forming bar weatherstrip | 25. Insulator        |
| 2. Set plate                  | 14. Forming bar retainer     | 26. Headliner        |
| 3. Roof panel                 | 15. Top fabric               | 27. Link cover       |
| 4. Weatherstrip               | 16. Rear window glass        | 28. Forming bar trim |
| 5. Retainer                   | 17. Spacer pad               | 29. Hinge cover      |
| 6. Seaming welt               | 18. Form plate               | 30. Scuff plate      |
| 7. Top lock                   | 19. Corner belt B            | 31. Quarter trim     |
| 8. Hinge lock                 | 20. Rear window belt A       | 32. Spare tire cover |
| 9. Hinge lock cover           | 21. Rear window belt B       | 33. Motor            |
| 10. Top trim                  | 22. Corner belt A            | 34. Forming bar A    |
| 11. Top lock striker          | 23. Rear window belt C       | 35. Forming bar B    |
| 12. Hinge lock                | 24. Rear window frame        |                      |



97U0SX-146

## REMOVAL

Refer to components of convertible top (page S-80).

## INSTALLATION

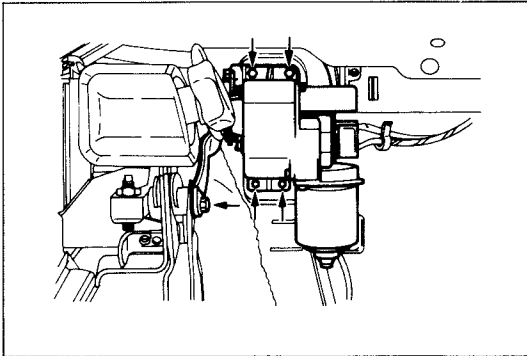
**Forming Bar Assembly (Refer to page S-77)**

**Top lock striker**

Install the top lock striker with the screws.

**Tightening torque:**

**9.8—15 N·m (1.0—1.5 m·kg, 7.2—11 ft·lb)**



97U0SX-147

## Motor

1. Install the motor link to the forming bar assembly with the bolts.
2. Connect the harness connector.

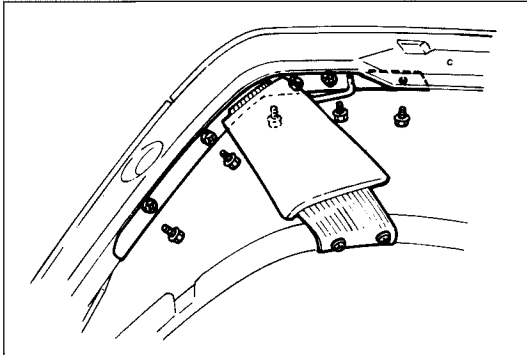
**Tightening torque:**

**Bolt to install the motor:**

**18—26 N·m (1.8—2.7 m·kg, 13—20 ft·lb)**

**Motor link:**

**31—46 N·m (3.2—4.7 m·kg, 23—34 ft·lb)**



97U0SX-148

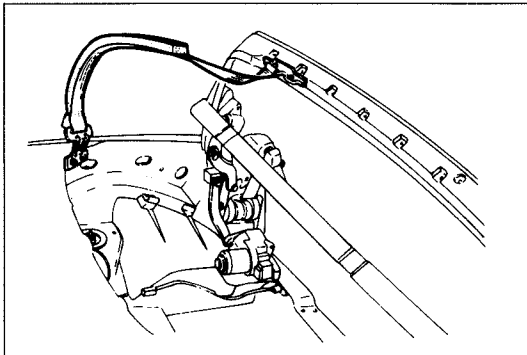
## Corner Belt B

Install the bolts to forming bar A and the screws to forming bar B. Then install corner belt B.

**Tightening torque:**

**Bolt:**

**6.9—9.8 N·m (0.7—1.0 m·kg, 5.1—7.2 ft·lb)**



97U0SX-149

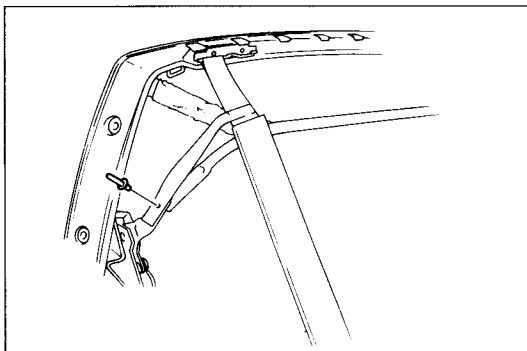
## Corner Belt A

1. Install the bolts to forming bar A and the nuts to the body. Then install corner belt A.

**Tightening torque:**

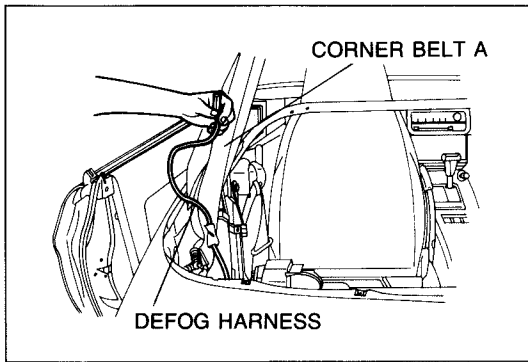
**Bolt, nut:**

**6.9—9.8 N·m (0.7—1.0 m·kg, 5.1—7.2 ft·lb)**

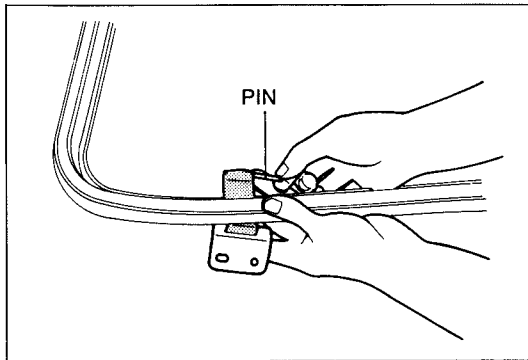


97U0SX-150

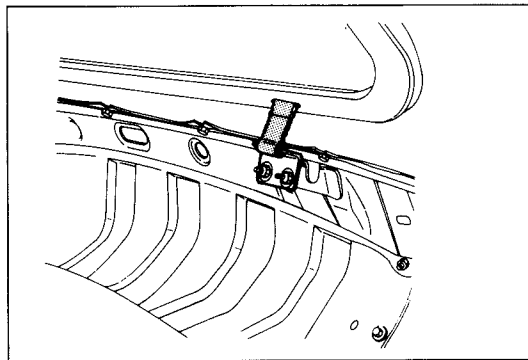
2. Install the support belt of corner belt A to forming bar B with a riveter.



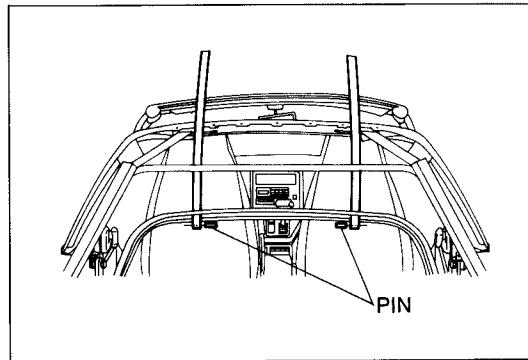
97U0SX-151



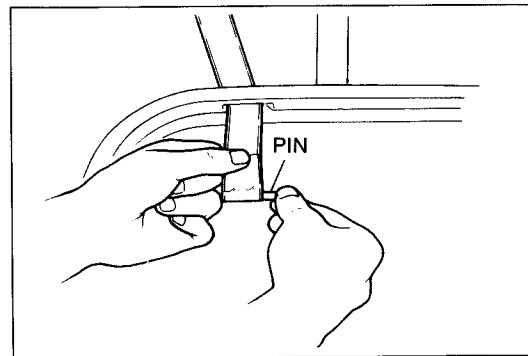
97U0SX-152



97U0SX-153



97U0SX-154



97U0SX-155

## Defog Harness

Install the defog harness to corner belt A.

### Tightening torque:

**Bolt, nut:**

**6.9—9.8 N·m (0.7—1.0 m·kg, 5.1—7.2 ft·lb)**

## Rear Window Frame

1. Pull rear window belt C through the rear window frame slot. Then insert the pin in the belt.
2. Pull rear window belt C to set the pin into the rear window frame.

3. Install rear window belt C to the body with the nuts.

### Tightening torque:

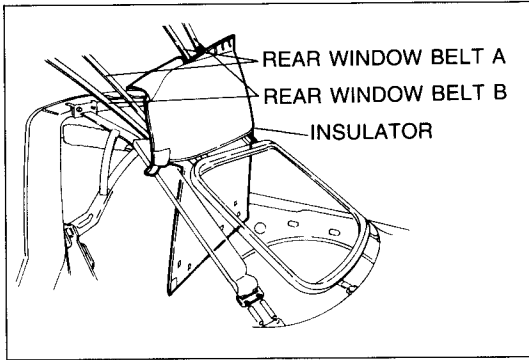
**6.9—9.8 N·m (0.7—1.0 m·kg, 5.1—7.2 ft·lb)**

### Note

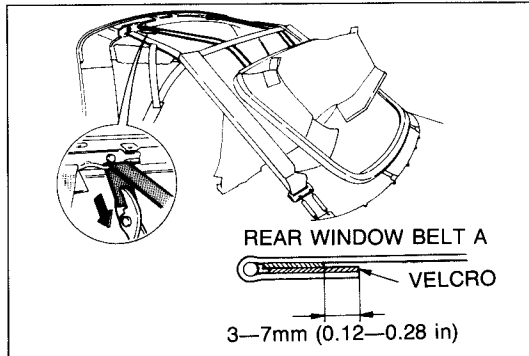
**Use a helper to support the rear window frame.**

4. Insert the pin into rear window belt A after passing it through the rear window frame slot velcro slide up.
5. Pull rear window belt A to set the pin into the rear window frame.

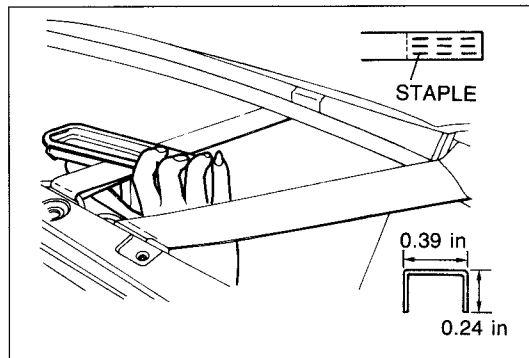
6. Pass rear window belt B through the rear window frame slot and insert the pin into the belt.
7. Pull rear window belt B to set the pin into window frame.



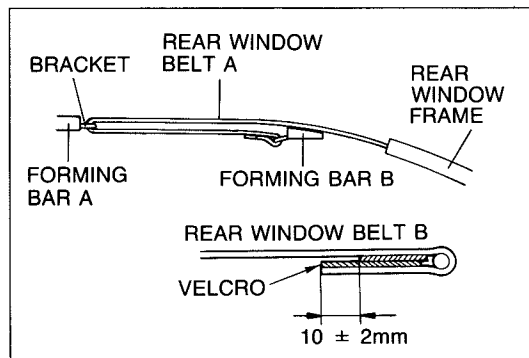
97U0SX-156



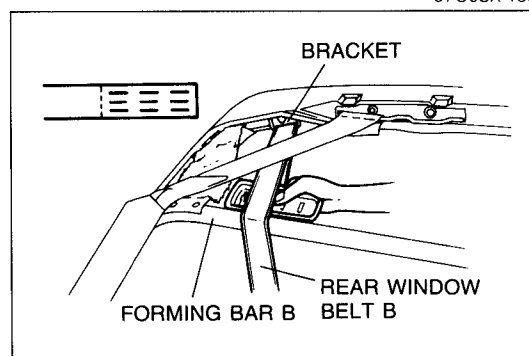
97U0SX-157



77A14X-012



97U0SX-158



77A14X-015

8. Pass both rear window belt A and rear window belt B through the insulator.

9. Pass rear window belt A under forming bar B. Then pass the belt through the brackets of forming bars A and forming bar B.

10. Pull the belt tight with pliers; then fix it with the sticking material velcro as shown in the figure.

**Note**

**Raise the forming bar assembly completely before performing this procedure.**

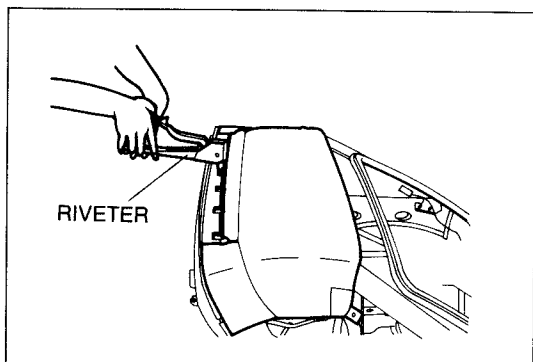
11. Staple the end of rear window belt A.

13. Pass rear window belt B over forming bar B. Then pass the belt through the brackets of forming bars A and B.

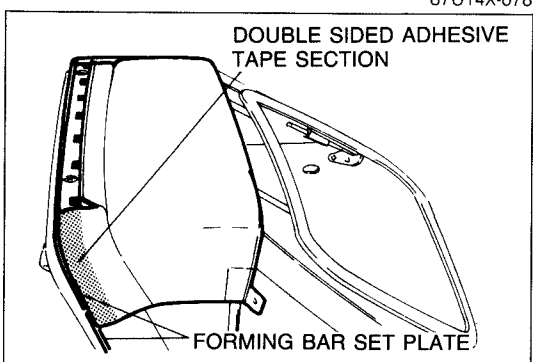
14. Pull the belt tight with pliers; then fix it with the sticking material velcro as shown in the figure.

15. Staple the end of rear window belt B.

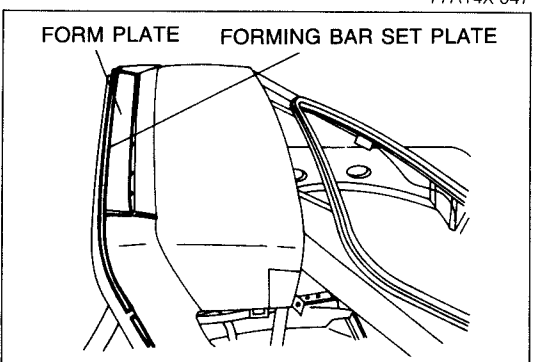
# S CONVERTIBLE TOP



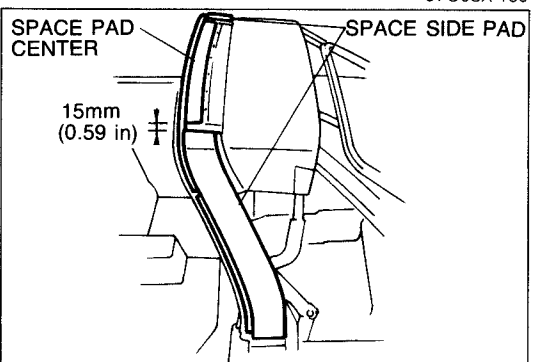
87U14X-078



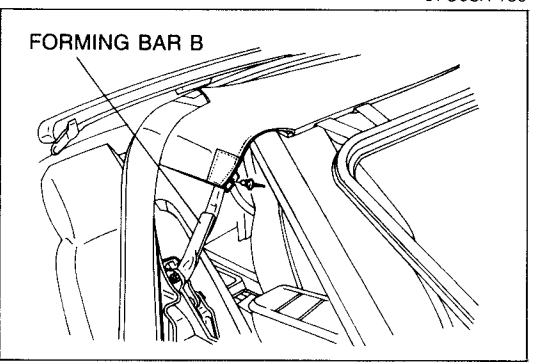
77A14X-047



97U0SX-159



97U0SX-160



87U14X-082

## Insulator

1. Rivet the insulator to forming bar A beginning from the center position.
2. Install double-sided adhesive tape to the insulator upper face; then install it to forming bar A.

## Caution

**Position the insulator behind the forming bar set plate.**

3. Install the form plate to forming bar A. When installing, fit the adhesive section of the form plate to the forming bar set plate.

## Caution

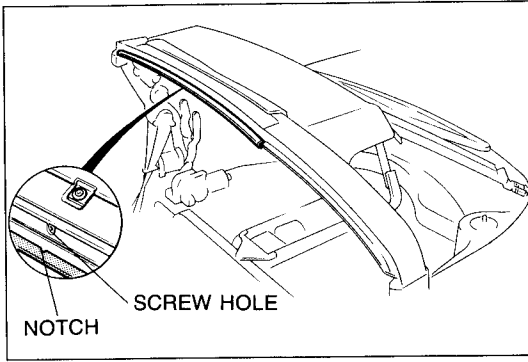
**Do not adhere the form plate forward of the forming bar set plate.**

4. Adhere the spacer pad center and sides with adhesive double-side tape to forming bar A.

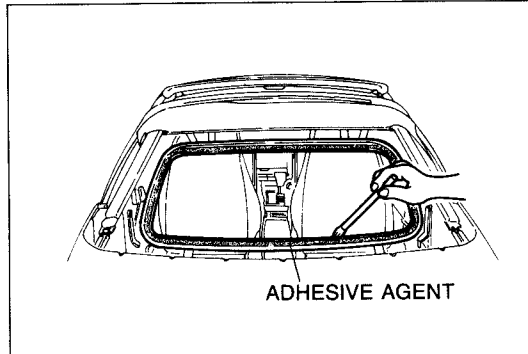
## Caution

- a) Do not adhere the spacer pad forward of the forming bar set plate.
- b) Position the spacer pads with 15mm (0.59 in) clearance between the center and sides.

5. Rivet the insulator to forming bar B.



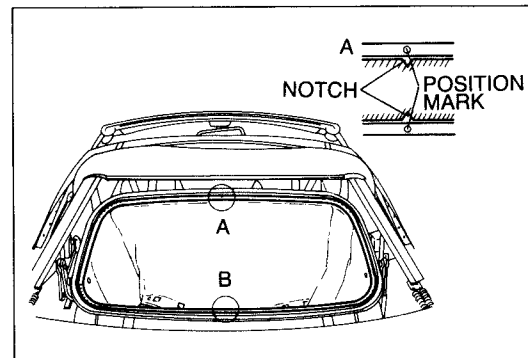
87U14X-083



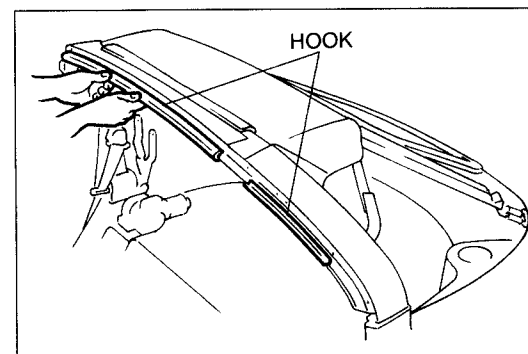
97U0SX-161



97U0SX-162



97U0SX-163



97U0SX-164

- Push the insulator lower face on the center of forming bar B with the notch aligned with the screw hole.

### Headliner

- Clean the rear window frame with ethyl alcohol.
- Apply the adhesive agent (K180 W0 313) or equivalent with a brush around the rear window frame.

### Note

**Let the adhesive agent stand for three minutes.**

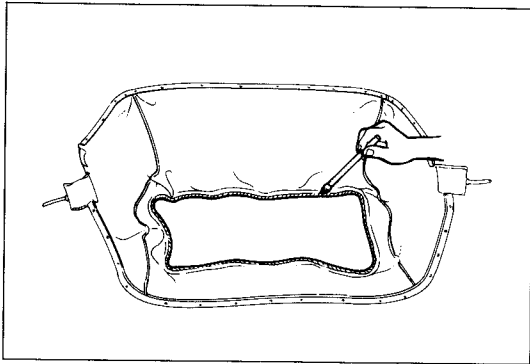
- Clean the window opening of the headliner with ethyl alcohol.
- Apply the adhesive agent with a brush to the window opening of the headliner.

### Note

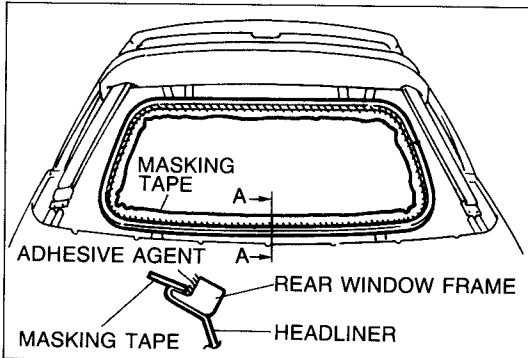
**Let the adhesive agent stand for three minutes.**

- Align the headliner notches with the position marks on the top and bottom of the rear window frame. Install the headliner, working out from the center.

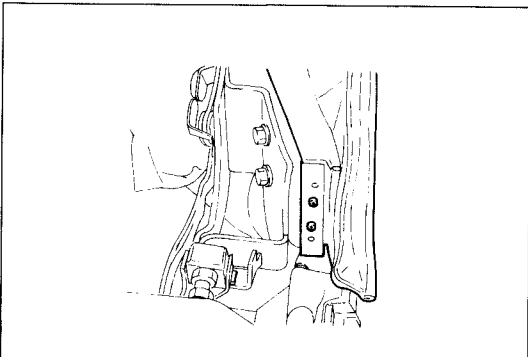
- Hook the hooks of the headliner over forming bar A.
- Install the headliner to the body. (Refer to page S-78.)



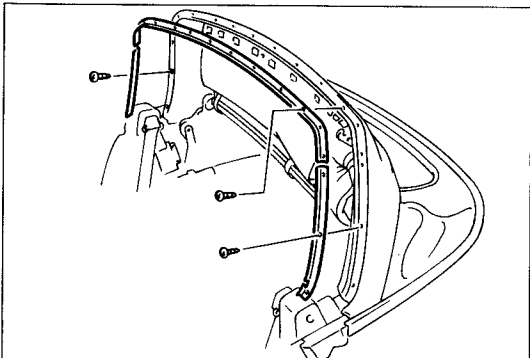
97U0SX-165



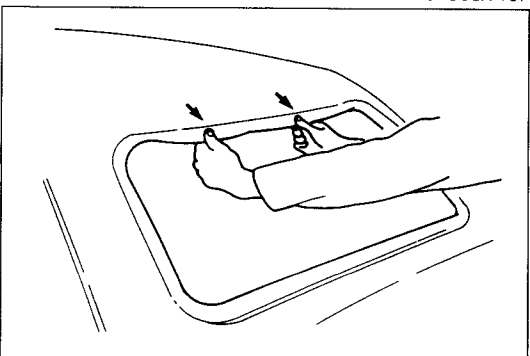
87U14X-089



97U0SX-166



97U0SX-167



97U0SX-168

## Top fabric

1. Clean the rear window opening of the top fabric with ethyl alcohol.
2. Apply a 5 cm (2.0 in) band of adhesive agent (K180 W0 313) or equivalent along the window opening of the top fabric.

### Note

**Let the adhesive agent stand for three minutes.**

3. Protect the headliner with masking tape; then apply adhesive agent to the rear window frame.

### Note

**Let the adhesive agent stand for three minutes.**

4. Place the top fabric over the forming bar assembly. Position the ends of the top fabric over forming bar A.

### Note

**Lower the forming bar assembly fully.**

5. Install the top fabric to forming bar A with the screws.

6. Fit the front edge of the top fabric to forming bar A.

### Note

**Lower the forming bar assembly half-way.**

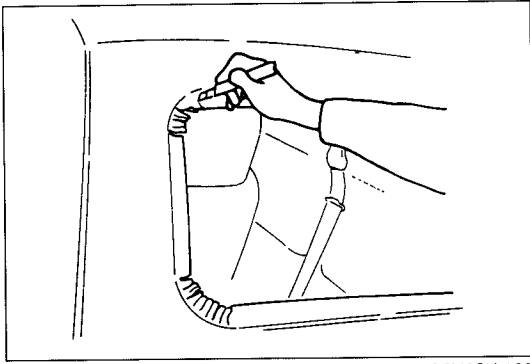
7. Install the top fabric and the forming bar retainer to forming bar A with the screws.

8. Install the top fabric to the body. (Refer to page S-77.)
9. Pull the top fabric tightly toward the center of the window opening. Adhere it with the adhesive at the center section. Do not adhere the corners.

### Note

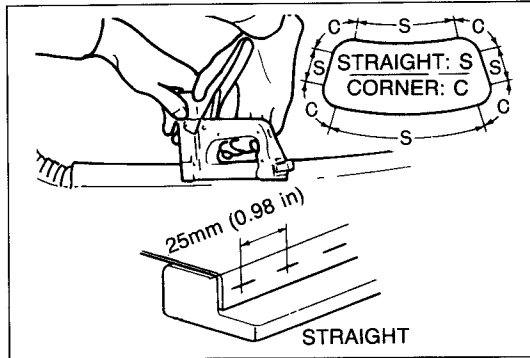
**Raise the forming bar assembly completely.**





97U0SX-169

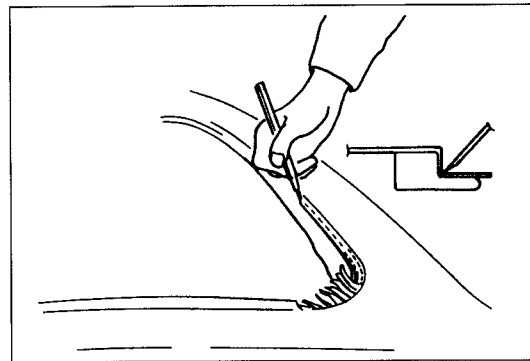
10. Cut the corners of the top fabric with a razor knife. Adhere the corners to the rear window frame without creasing the material.



97U0SX-170

11. Install the top fabric to the rear window frame with a stapler.

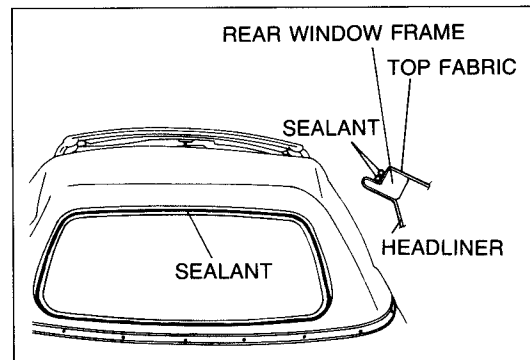
**Staple space:**  
**Straight: 25mm (0.98 in)**  
**Corner: no space**



97U0SX-171

12. Cut away the excess material with a razor knife.

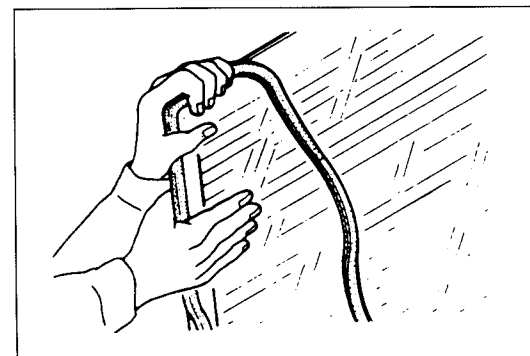
**Caution**  
**Be careful not to damage the rear window belt or the headliner.**



87U14X-096

### Rear Window Glass

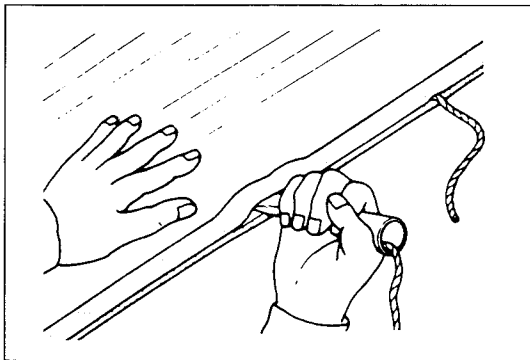
1. Lay two beads of sealant BM-5 (K120 W0 218) or equivalent into the rear window frame.



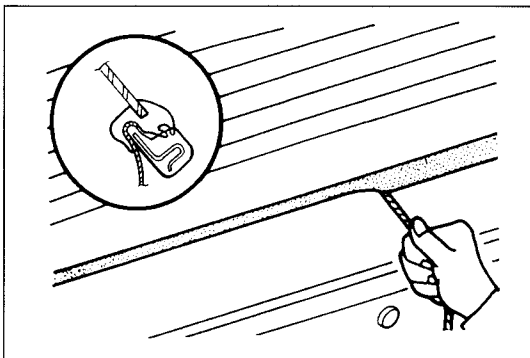
97U0SX-172

2. Lay glass sealer TP-33M (0208 77 732) or equivalent in the groove of the weatherstrip.
3. Install the weatherstrip on the rear window glass.

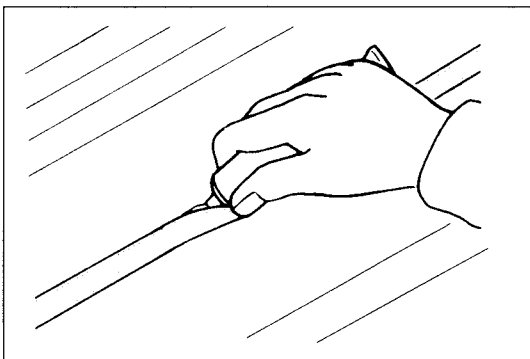
# S CONVERTIBLE TOP



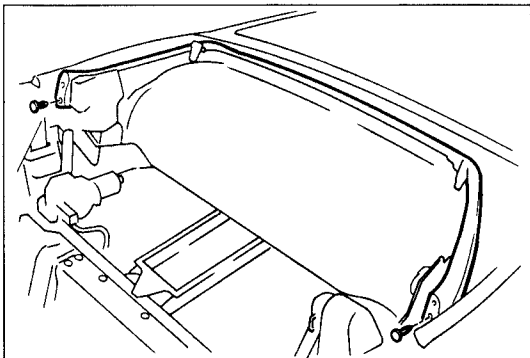
87U14X-098



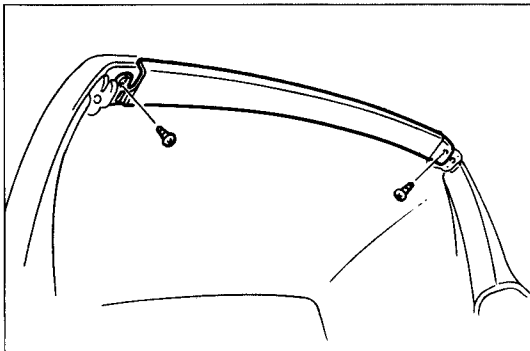
87U14X-099



87U14X-100



97U0SX-173



97U0SX-174

3. Install a rope into the weatherstrip as shown in the figure.
4. Apply soap suds to the weatherstrip and the body.
5. Set the glass and weatherstrip against the body.

6. Pat on the glass near the weatherstrip while pulling the rope.
7. Pat the rear window glass from the inside and outside by hands to check that the rear window glass is fit securely into the rear window frame.
8. Install the defog harness connectors.

## Inspection for Water Leaks

Inspect for water leaks. If water leaks, wipe away the water and apply glass sealant (TP-33M) or equivalent.

## Removing Wrinkles from Headliner

Use steam to remove wrinkles. (A steamer machine will provide the best results for large wrinkles.)

## Forming Bar Weatherstrip

Install the forming bar weatherstrip to forming bar A and the forming bar retainer with the fasteners.

### Note

**Lower the convertible top fully.**

## Link Cover

(Refer to page S-77.)

## Forming Bar Trim

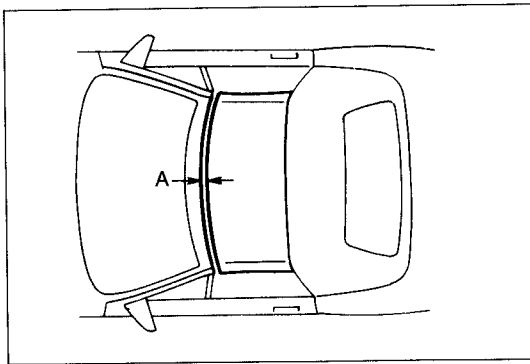
Install the forming bar trim to forming bar A.

### Note

**Raise the convertible top completely.**

Refer to page S-78 for installation of the following parts.

- (1) Quarter trim
- (2) Scuff plate
- (3) Spare tire cover
- (4) Windblocker
- (5) Roof panel



97U0SX-225

## ADJUSTMENT

### Adjustment of Limit Switch of Raise Side

Remove the following parts before adjustment.  
(Refer to page S-75.)

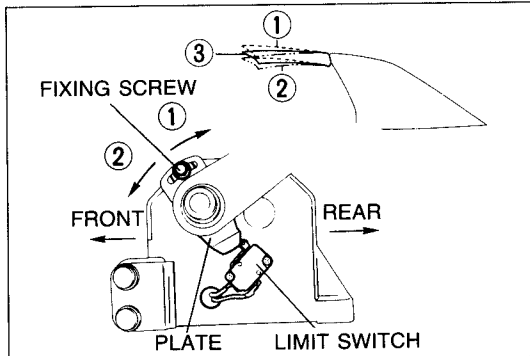
- (1) Spare tire cover
- (2) Scuff plate
- (3) Quarter trim

1. Move the plate of the left motor and adjust clearance A shown in the figure.

**Specification: A = 6mm (0.23 in)**

2. Adjust the plate as shown to adjust the clearance.

- ① Too much
- ② Too little
- ③ Correct

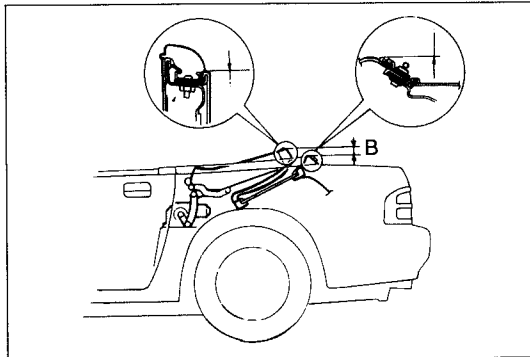


97U0SX-226

### Adjustment of Limit Switch of Lower Side

1. Move the plate of the right motor and adjust clearance B shown in the figure.

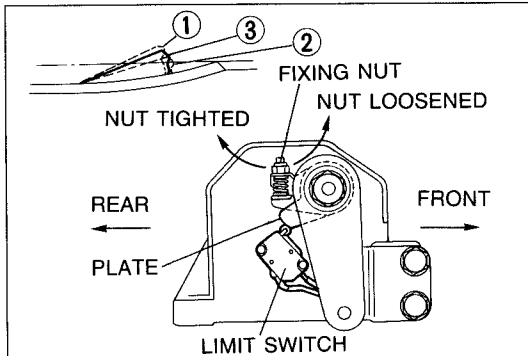
**Specification: B = 0 + 1<sub>0</sub>mm (0 + 0.39 in)**



77A14X-053

2. Adjust the plate as shown to adjust the clearance.

- ① Too much
- ② Too little
- ③ Correct



77A14X-040

## Synchronizing Motor

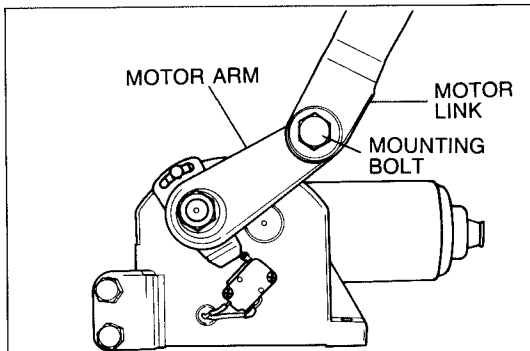
### Caution

**After turning screw A to raise and lower the convertible top with hand operation or when changing the motor, synchronize the motor.**

1. Remove the following parts before adjustment.  
(Refer to page S-75.)

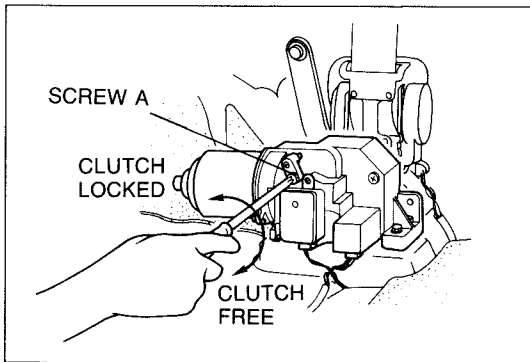
- (1) Spare tire cover
- (2) Scuff plate
- (3) Quarter trim

2. Remove the mounting bolt and the motor link from the motor arm.

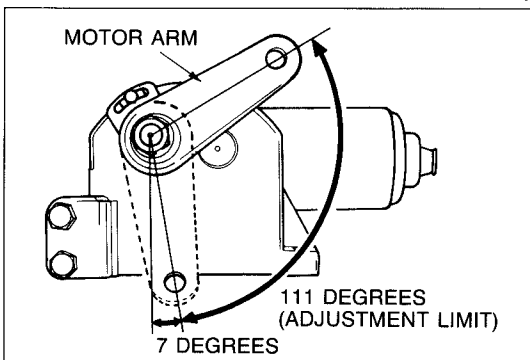


97U0SX-227

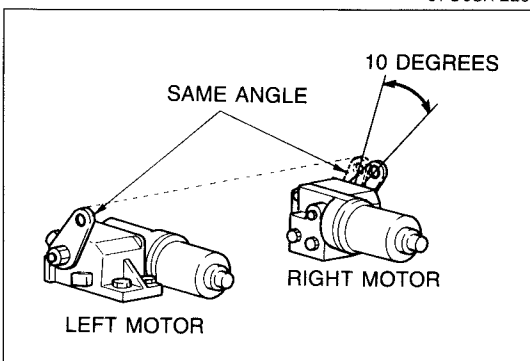
# S CONVERTIBLE TOP



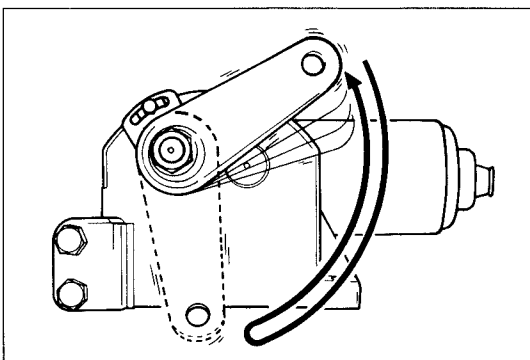
97U0SX-228



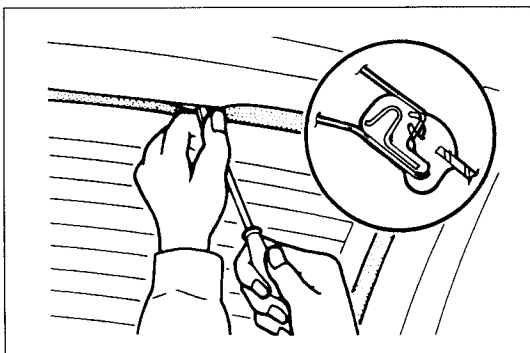
97U0SX-229



97U0SX-230



97U0SX-231



97U0SX-175

3. Tighten the screw A.

## Note

**Screw A tightened : Clutch free**  
**Screw A loosened: Clutch locked**

4. Set the right and left motor arms in the same position.

## Note

**The vertical positions of the motor arms should vary less than 10 degrees from each other.**

5. Loosen the screw A.

6. Operate on the convertible top control switch.

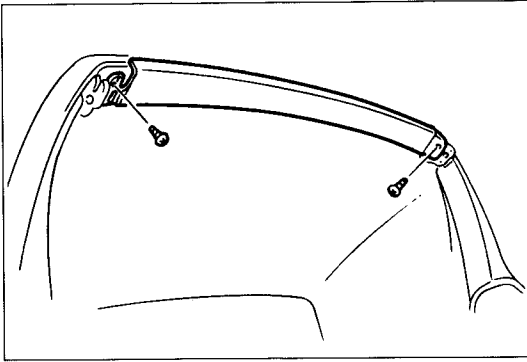
7. Synchronize the motor by rotating the motor arm.

## REMOVAL OF HEADLINER

Refer to removal of the convertible top (pages S-74 to S-76) from the roof panel step to the defog harness connectors steps.

## Rear Window Glass

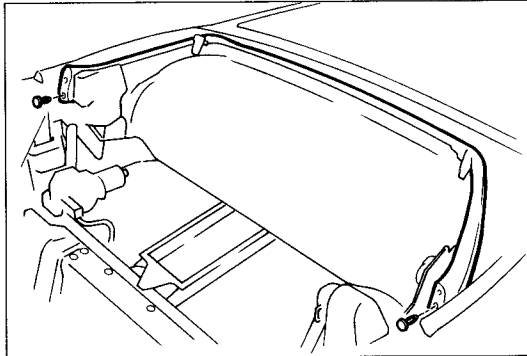
Pry the weatherstrip loose from inside the vehicle. Remove the rear window glass with the weatherstrip.



87U14X-106

### Forming Bar Trim

Remove the screws and the forming bar trim from the forming bar retainer.



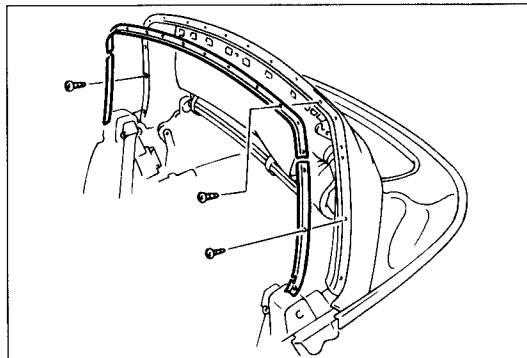
87U14X-107

### Forming Bar Weatherstrip

Remove the fasteners and the forming bar weatherstrip from the forming bar retainer.

#### Note

**Lower the convertible top fully.**



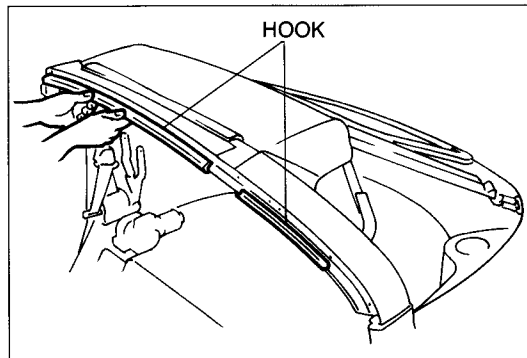
87U14X-108

### Forming Bar Retainer

Remove the screws and the forming bar retainer from forming bar A.

#### Note

**Raise the convertible top completely.**

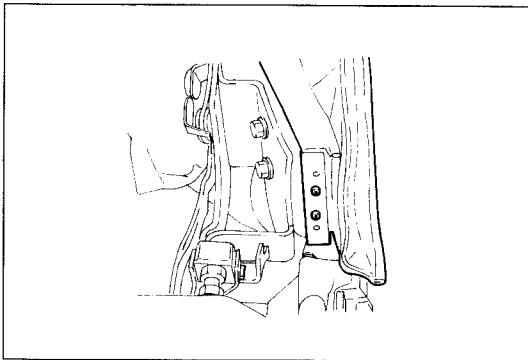


97U0SX-176

### Headliner

1. Unhook the headliner from forming bar A.
2. Remove the headliner from the body.  
(Refer to page S-75.)
3. Remove the headliner from the rear window frame.

# S CONVERTIBLE TOP



97U0SX-177

## TOP FABRIC

### Removal

1. Remove the screws and the top fabric from the forming bar.
2. Remove the top fabric from the body.
3. Remove the staples and remove the top fabric from the window frame.

### Note

**Lower the top fabric fully.**

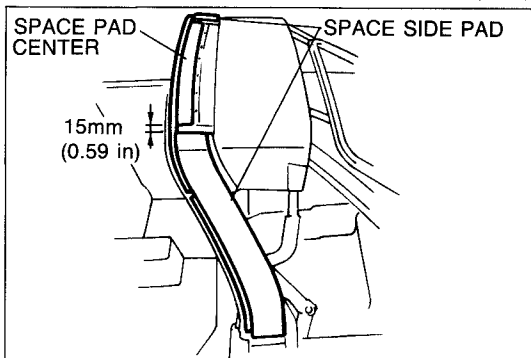
## Installation

Install in the reverse order of removal.

## INSULATOR

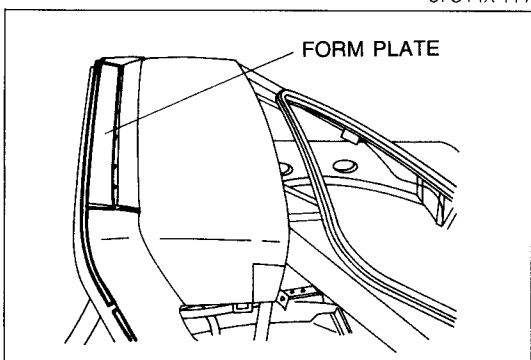
### Removal

1. Remove the spacer pad center and sides from forming bar A.



87U14X-111

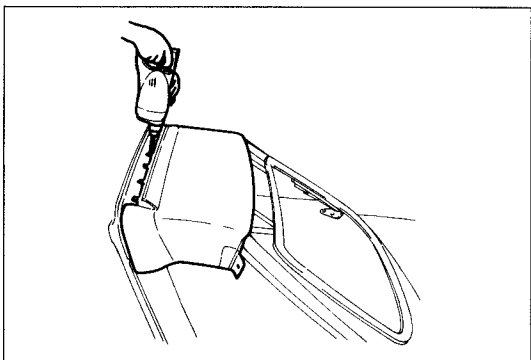
2. Remove the form plate from forming bar A.



87U14X-112

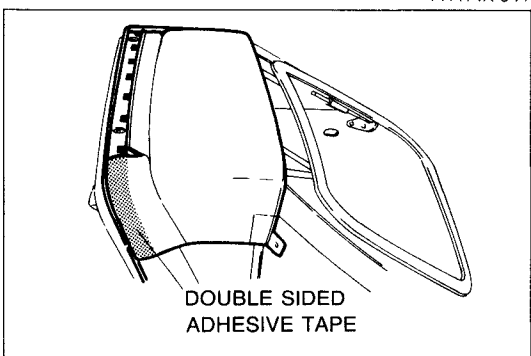
3. Remove the rivets from the insulator with a drill.

**Drill size:  $\phi 4.5\text{mm}$  ( $\phi 0.18$  in)**

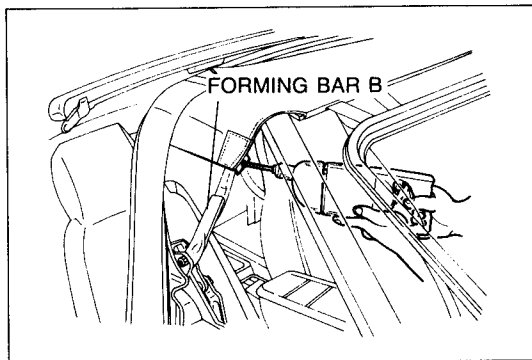


77A14X-041

4. Remove the front insulator upper face from forming bar A.



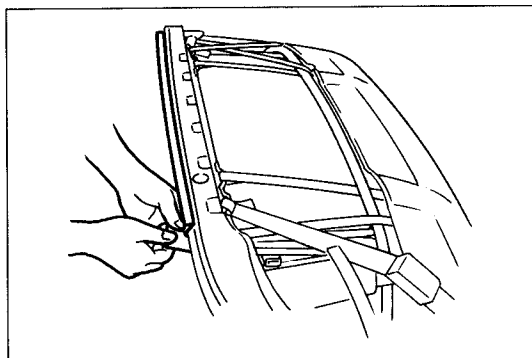
87U14X-114



77A14X-054

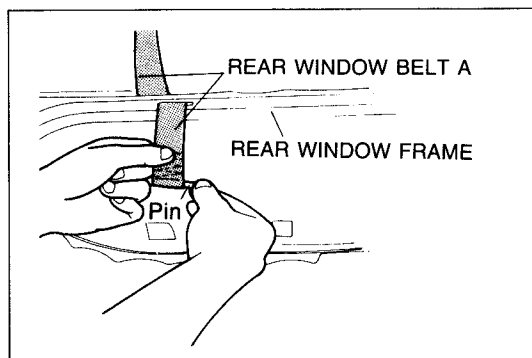
5. Remove the rivet from forming bar B with a drill.

**Drill size:  $\phi 4.5\text{mm}$  ( $\phi 0.18$  in)**



87U14X-116

6. Remove the insulator lower face from forming bar A.

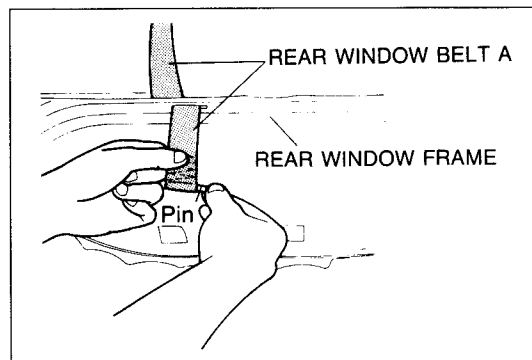


87U14X-117

7. Remove the pin from the rear window frame; then remove the insulator.

**Note**

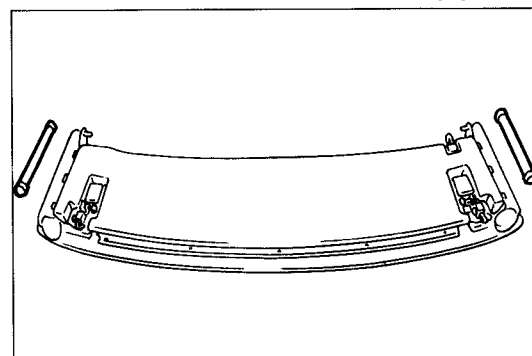
**Lower the forming bar assembly half-way.**



87U14X-118

**Installation**

Install in the reverse order of removal.



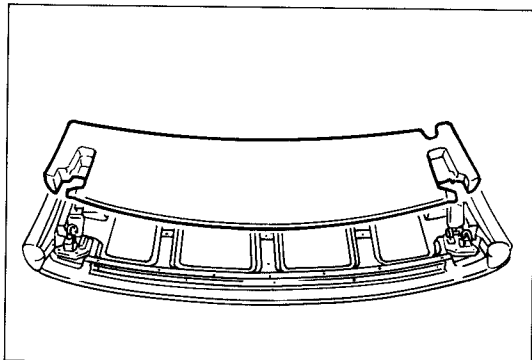
87U14X-119

**ROOF PANEL**

**Disassembly**

1. Seaming welt  
Lift off the right and left welts.

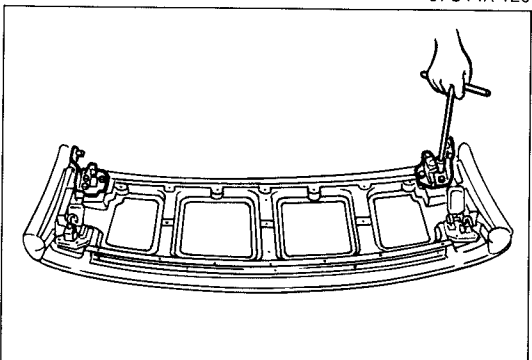
# S CONVERTIBLE TOP



87U14X-120

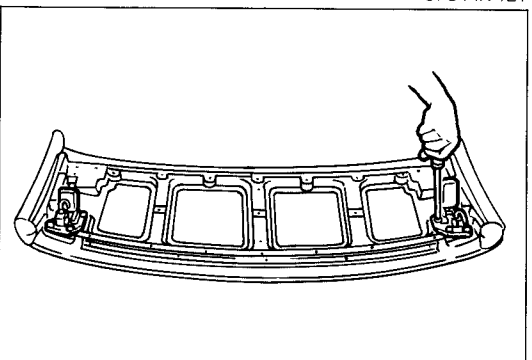
2. Top trim  
Remove the clips and the top trim from the roof panel.

**Note**  
Set the top lock to the **LOCK** position.



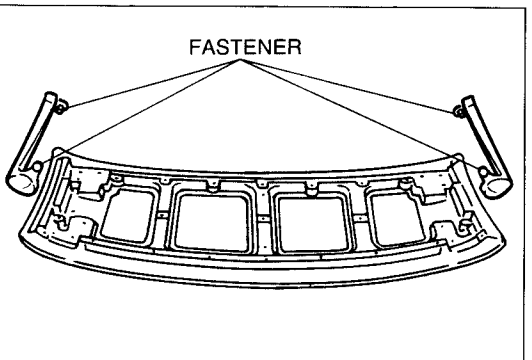
87U14X-121

3. Hinge  
Remove the bolts; then remove the right and left hinges from the roof panel.



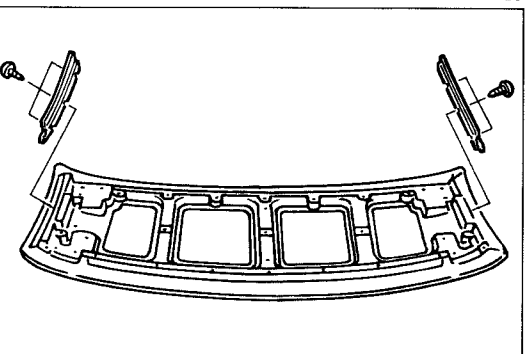
87U14X-122

4. Top lock  
Remove the screws; then remove the right and left the top locks from the roof panel.



87U14X-123

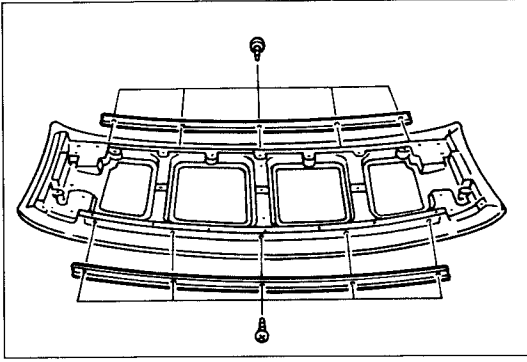
5. Weatherstrip  
Remove the fasteners; then remove the right and left weatherstrips from the roof panel.



87U14X-124

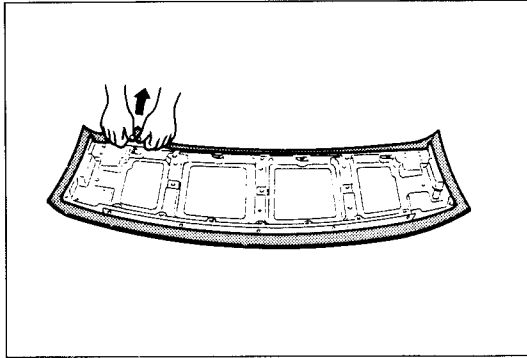
6. Retainer  
Remove the screws; then remove the right and left retainers from the roof panel.





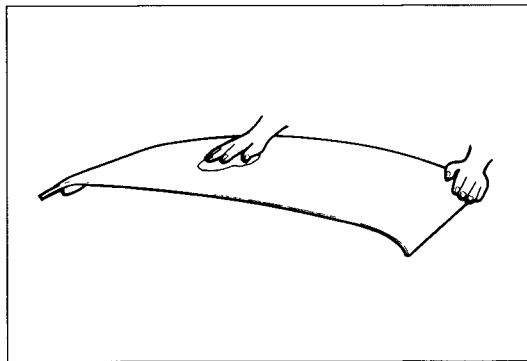
87U14X-125

7. Set plate  
Remove the screws; then remove the front and rear set plates from the roof panel.



97U0SX-232

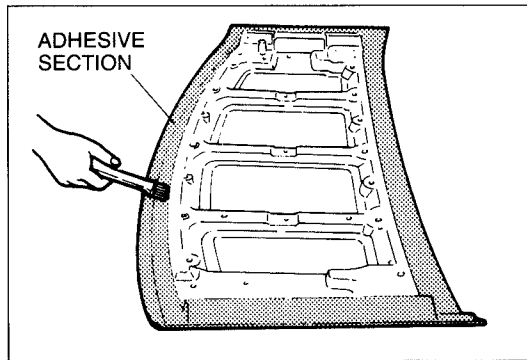
8. Roof panel fabric covering  
Remove the roof panel fabric covering from the roof panel.



97U0SX-233

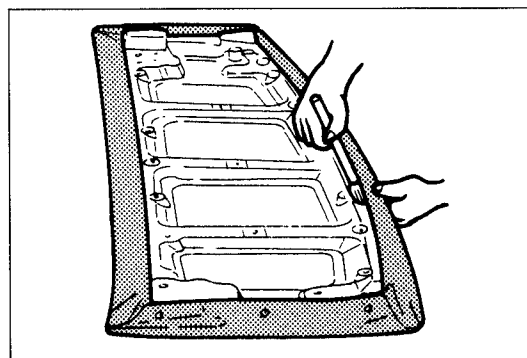
### Assembly

1. Roof panel fabric covering  
(1) Clean the top of the roof panel with ethyl alcohol.



87U14X-128

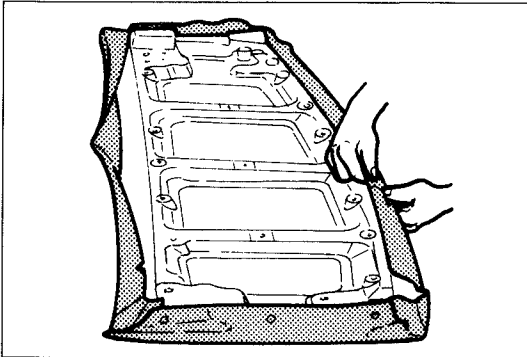
- (2) Apply the adhesive agent (K180 W0 313) or equivalent to the roof panel as shown in the figure.



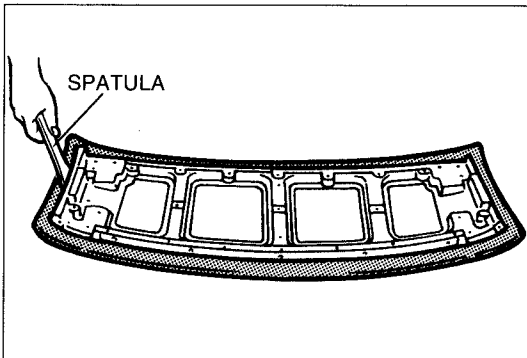
97U0SX-234

- (3) Clean the adhesive section of the roof panel fabric covering with ethyl alcohol.  
(4) Fold the roof cloth over the roof panel; then apply the adhesive agent to the roof panel fabric covering.

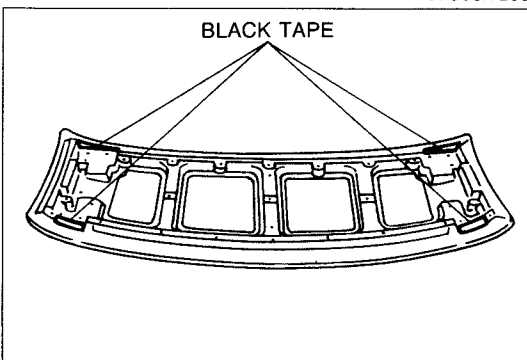
# S CONVERTIBLE TOP



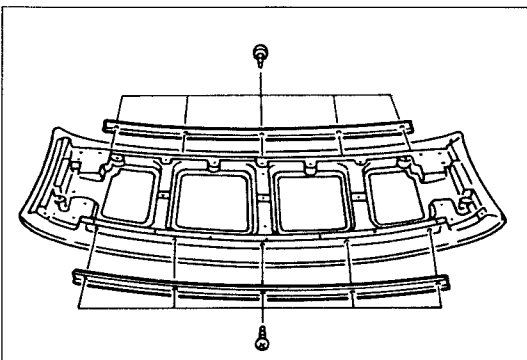
97U0SX-235



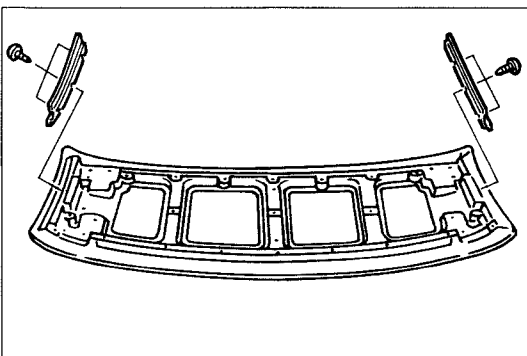
97U0SX-236



97U0SX-237



87U14X-134



87U14X-135

## Caution

Use care to avoid wrinkles and bubbles by applying roof panel fabric covering evenly from the center outwards.

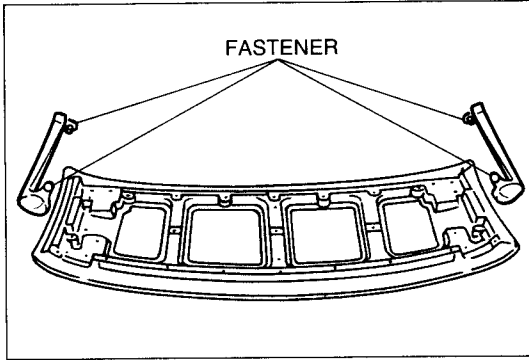
- (5) Glue the front of the roof panel fabric covering to the roof panel beginning at the center.
- (6) Glue the rear of the roof panel fabric covering to the roof panel beginning at the center.
- (7) Glue the side of the cloth to the roof panel beginning at the center.
- (8) Press the roof panel fabric covering into place with a spatula as shown in the figure.
- (9) Hold the corners of the roof panel fabric covering with black tape as shown.
- (10) Cut away the excess of the roof panel fabric covering with a cutter.

## 2. Set plate

Install the set plates onto the roof panel with the screws.

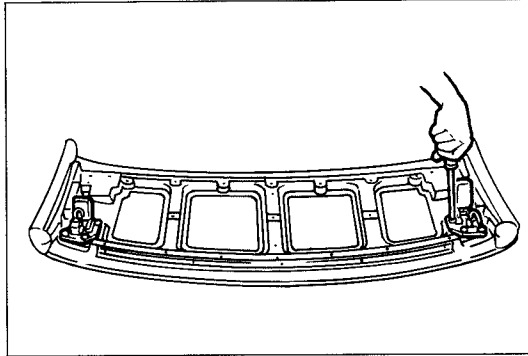
## 3. Retainer

Install the retainers onto the roof panel with the screws.



87U14X-136

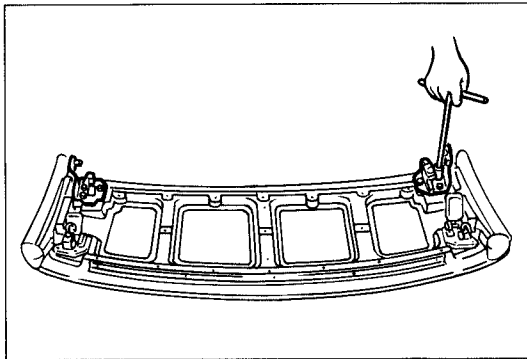
4. Weatherstrip  
Install the weatherstrips onto the roof panel with the fasteners.



87U14X-137

5. Top lock  
Install the top locks onto the roof panel with the screws.

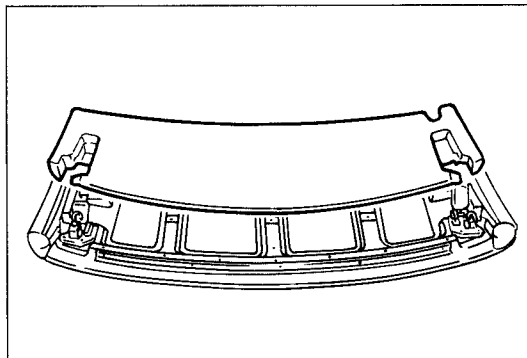
**Tightening torque:**  
**4.2—6.2 N·m (43—63 cm·kg, 37—55 in·lb)**



97U0SX-178

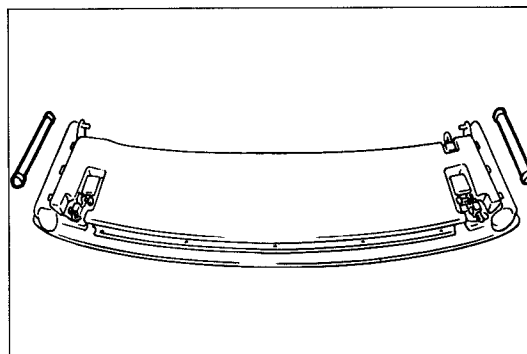
6. Hinge  
Install the hinges onto the roof panel with the bolts.

**Tightening torque:**  
**6.9—9.8 N·m (0.7—1.0 m·kg, 5.1—7.2 ft·lb)**



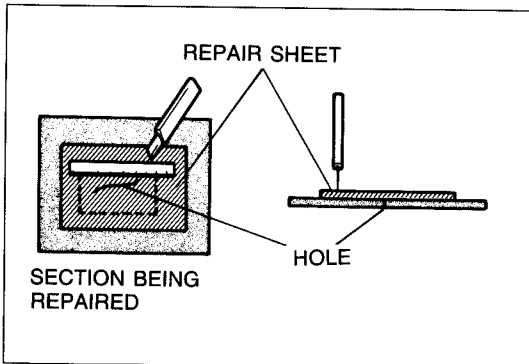
87U14X-139

7. Top trim  
Install the top trim to the roof panel with the clips.

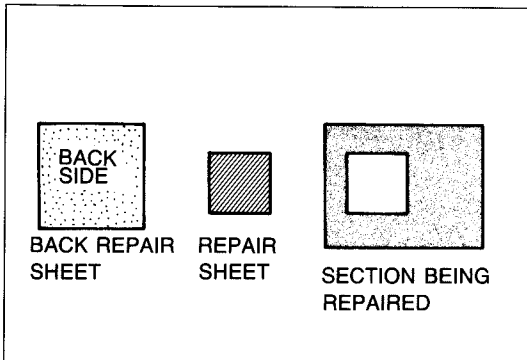


87U14X-140

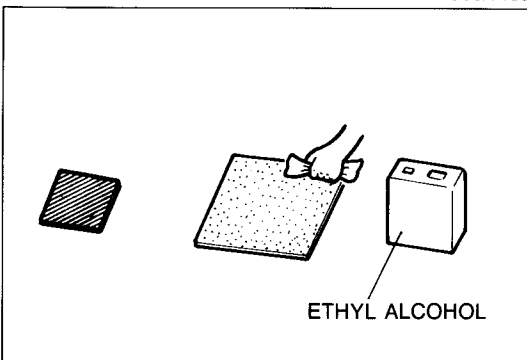
8. Seaming welt  
Install the seaming welts onto the roof panel.



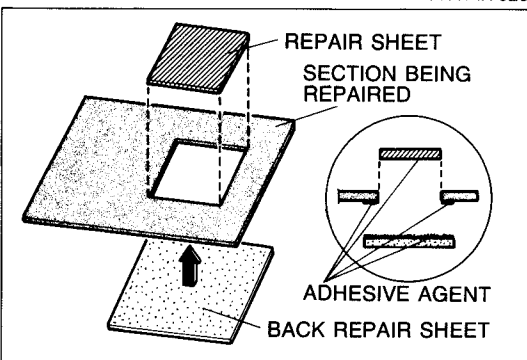
97U0SX-179



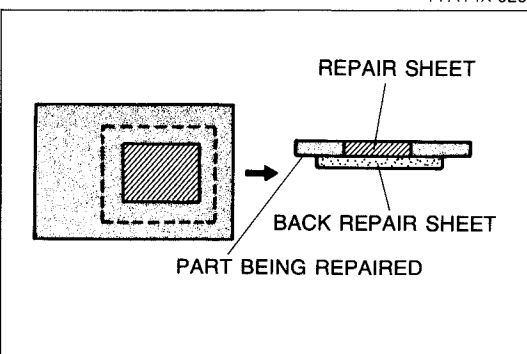
97U0SX-180



77A14X-028



77A14X-029



97U0SX-181

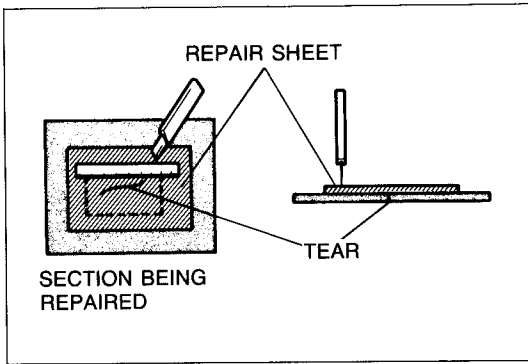
## REPAIR OF TOP FABRIC

### Note

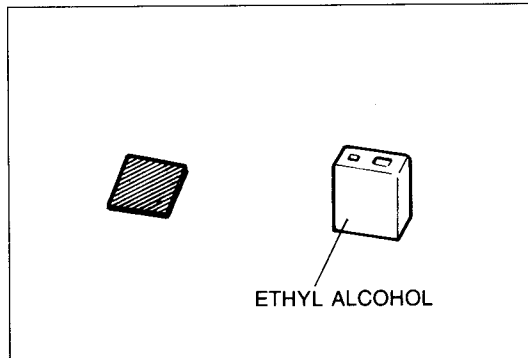
Repair of a hole in the top fabric differs from repairing a tear in the fabric. Refer to page S-99 for tear repair.

### Repair of Hole in Top Fabric

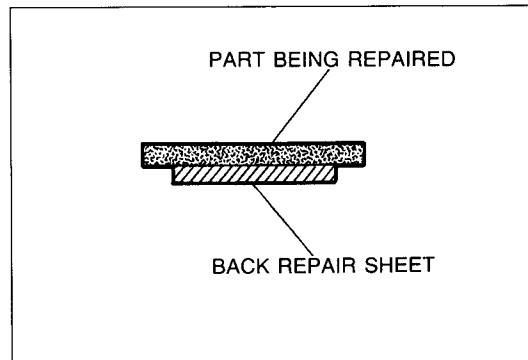
1. Place the repair sheet (B2Y5 R1 211) over the damaged section; then cut both the top fabric and the repair sheet with a cutter.
  2. Cut another piece of repair sheet larger than the first. This is a back repair sheet.
  3. Trim the top fabric and the repair sheets with a pair of scissors.
  4. Degrease the repair sheets with ethyl alcohol.
  5. Apply the adhesive agent (K180 W0 313) or equivalent to the part being repaired, the repair sheet, and the back repair sheet.
- Note**  
**Apply a substantial amount of the adhesive agent to the cloth parts.**  
**Let stand for a few minutes.**
6. Insert the repair sheet into the section of the top fabric being repaired. Then install the back repair sheet from the underside.
  7. Press the repair sheets firmly together.
  8. Let the top fabric stand until the adhesive agent completely dries.



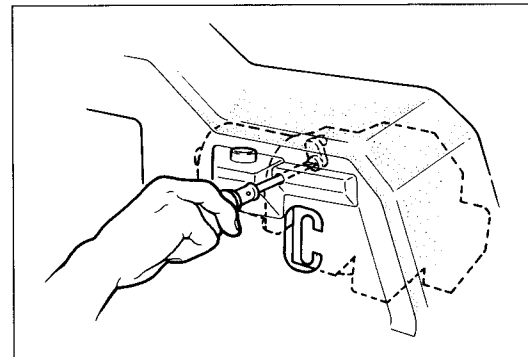
97U0SX-238



97U0SX-239



97U0SX-240



97U0SX-243

## Repair of Tear in Top Fabric

1. Cut other piece of repair sheet (B2Y5 R1 211) larger than the damaged section. This is a back repair sheet.
2. Degrease the repair sheet with ethyl alcohol.

3. Apply the adhesive agent (K180 W0 313) or equivalent to the part being repaired and the back repair sheet.

### Note

**Apply a substantial amount of the adhesive agent to the cloth parts.**  
**Let stand for a few minutes.**

4. Install the back repair sheet from the underside.
5. Press the repair sheets firmly together.
6. Let the top fabric stand until the adhesive agent completely dries.

## MALFUNCTION OF CONVERTIBLE TOP

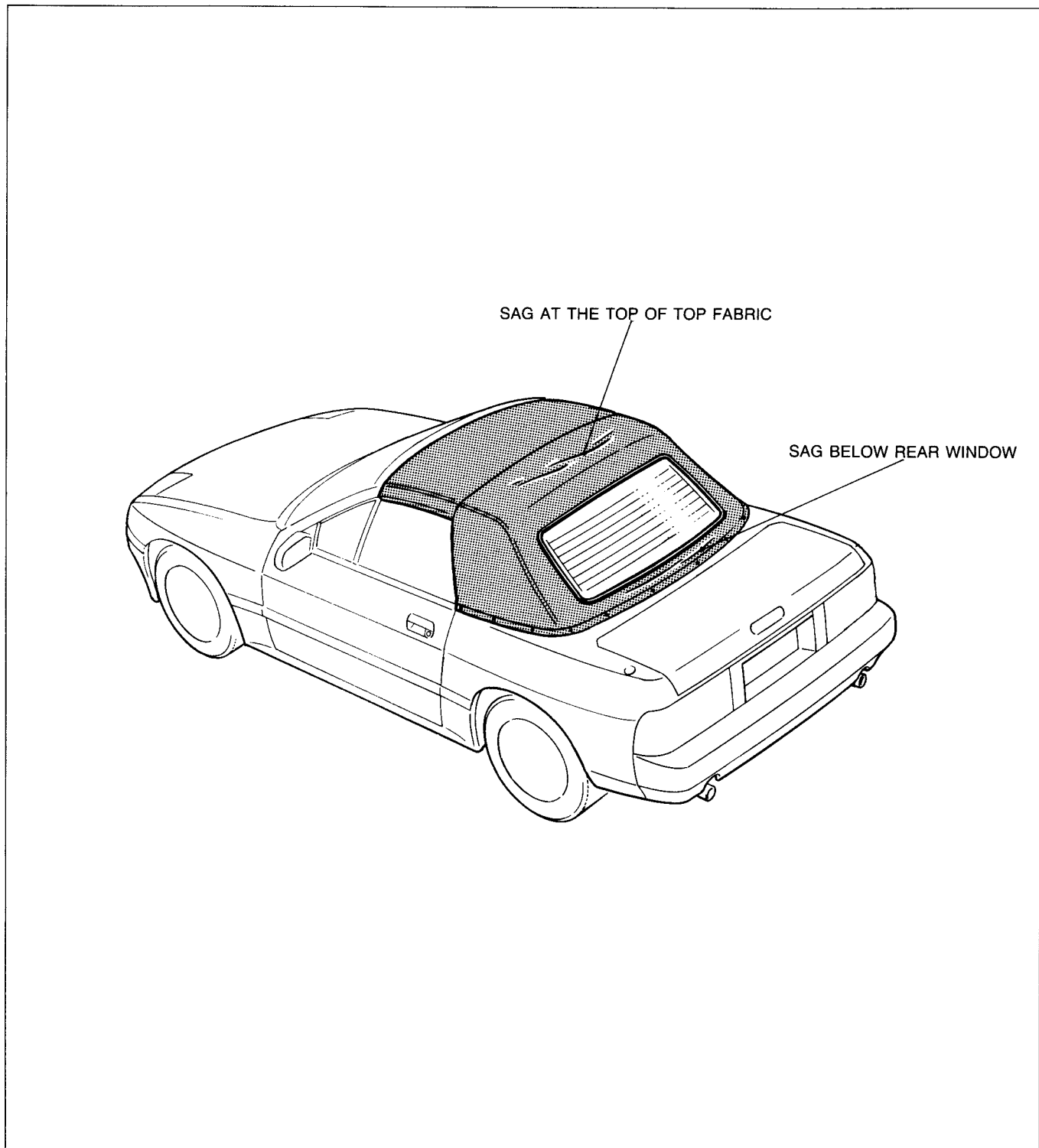
### Caution

**If the convertible top will not work with the switch, change the convertible top to manual operation.**

1. Tighten the screw to free the motor clutch.
2. Raise or lower the convertible top manually.

# S CONVERTIBLE TOP

## HOW TO ADJUST SAG OF THE CONVERTIBLE TOP Structural View



97U0SX-178

### Note

When the convertible top is left in the lowered position for an extended period, it may result in sagging at the top of the top fabric and below the rear window.

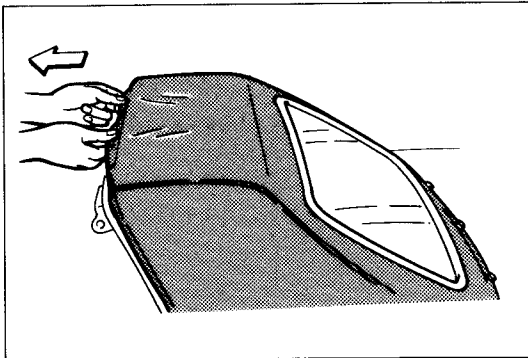
### How To Adjust Small Sag

1. Lower the headliner.
2. Use a steamer or steam wand to remove sags.
3. Allow top fabric to dry.
4. Reinstall headliner.

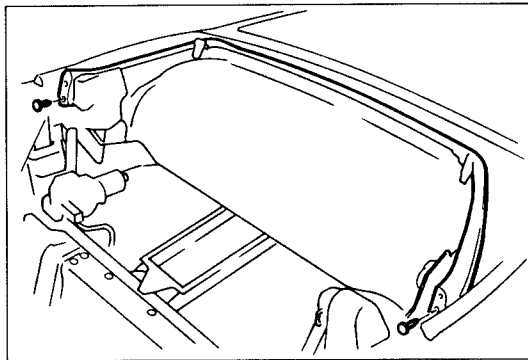
## How To Adjust Big Sag Sag at top of top fabric

1. Remove the roof panel.  
(Refer to page S-74.)
2. Remove the forming bar weatherstrip.  
(Refer to page S-91.)
3. Remove the forming bar retainer.  
(Refer to page S-91.)
4. Raise the convertible top fully.

97U0SX-180



97U0SX-181



97U0SX-182

5. Pull the top fabric forward, and affix the forming bar retainer with the screws.

### Note

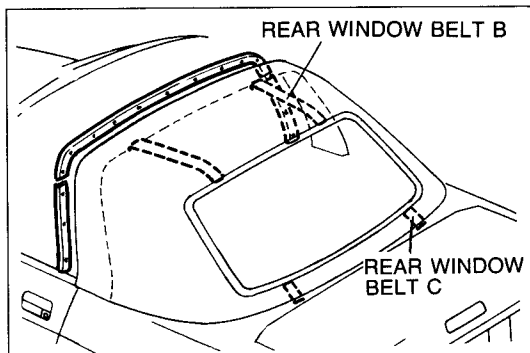
- a) Perform this step with two persons.
- b) To prevent wrinkling, pull the top fabric from the center outwards.

6. Lower and raise the top fully to verify that the sag has been removed.
7. Install the forming bar weatherstrip.

## Sag below rear window

1. Remove the roof panel.  
(Refer to page S-74.)
2. Remove the forming bar weatherstrip.  
(Refer to page S-91.)
3. Remove the forming bar retainer.  
(Refer to page S-91.)
4. Raise the convertible top fully.

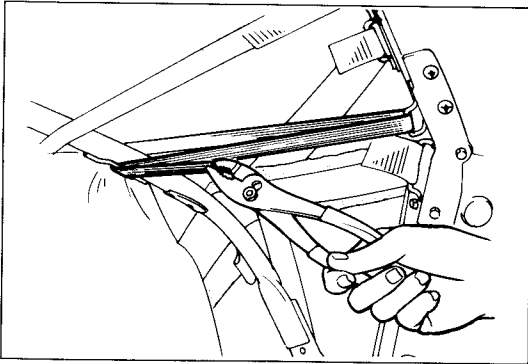
97U0SX-183



97U0SX-184

5. Remove the spare tire cover.  
(Refer to page S-75.)
6. Remove the headliner.  
(Refer to page S-75 and S-90.)
7. Remove the insulator lower face.  
(Refer to page S-93.)
8. Remove the top fabric.  
(Refer to page S-76.)

# S CONVERTIBLE TOP



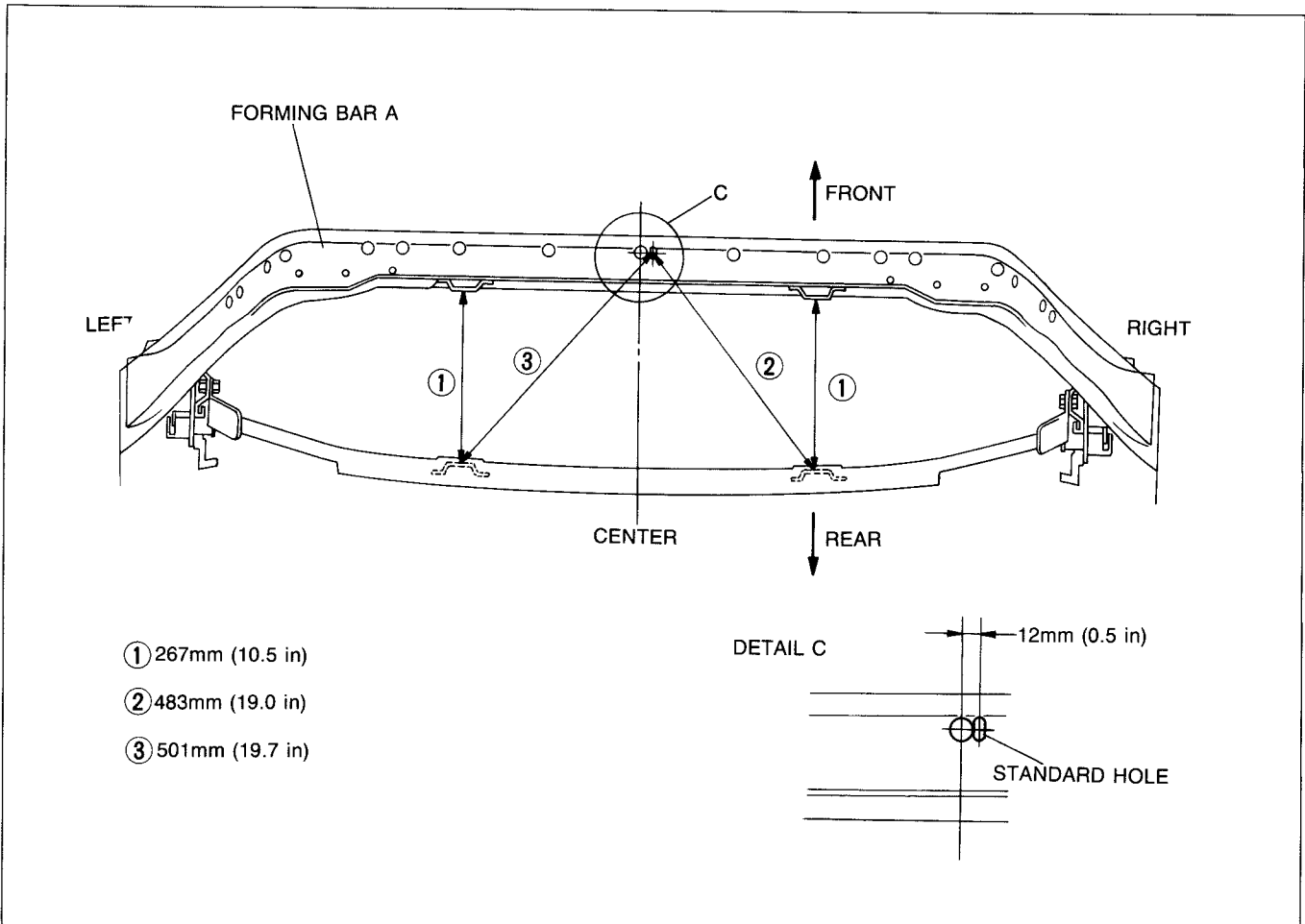
97U0SX-185

9. Remove the staples from rear window belts B and the stitching from rear window belts C.
10. Pull the end of rear window belts B with pliers to remove the sag.

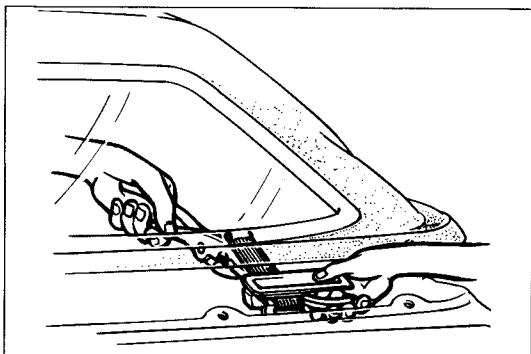
### Note

**Perform this step with two persons.**

11. Adjust the left and right rear window belts B so that they are equal length. Then staple the belts. The distance between forming bar A and B is shown below. When tightening the belts, adjust based on the specifications in the figure.



97U0SX-186



97U0SX-187

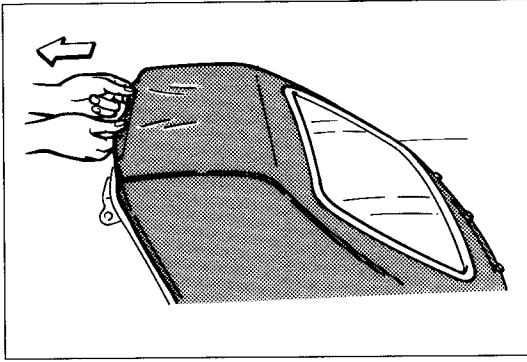
12. Pull rear window belts C from inside the vehicle with pliers until they are tight and the lengths are equal. Staple the belts from outside the vehicle to secure them.

### Note

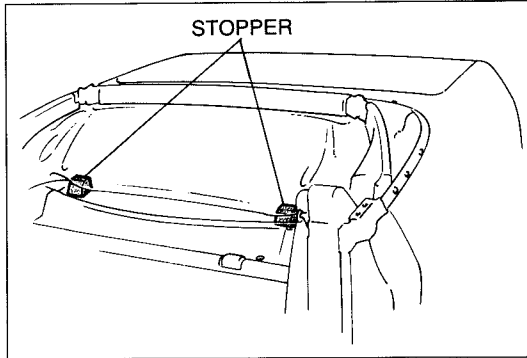
**a) Perform this step with two persons.**

**b) Be careful not to overtight the rear window belts C.**





97U0SX-188



97U0SX-189

13. Pull the top fabric forward, and affix the forming bar retainers with the screws.

**Note:**

- a) Perform this step with two persons.
- b) To prevent wrinkling, pull the top fabric from the center outwards.

14. Lower and raise the top fully to verify that the sag has been removed.
15. Verify that the rear window touches the stops on the spare tire cover when lowered. If not, remove the forming bar retainers and readjust the belts.
16. Install the forming bar weatherstrip.

# S CONVERTIBLE TOP

## REPLACEMENT OF SEAL TAPE

When removing the top fabric from the body, be sure to use new seal tape upon installation. Do not reuse the existing seal tape.

97U0SX-190

### Necessary parts

Seal Tape A: Seal for top fabric and body

Seal Tape B: Seal for top fabric and body

Sealant: Sealing compound for top fabric

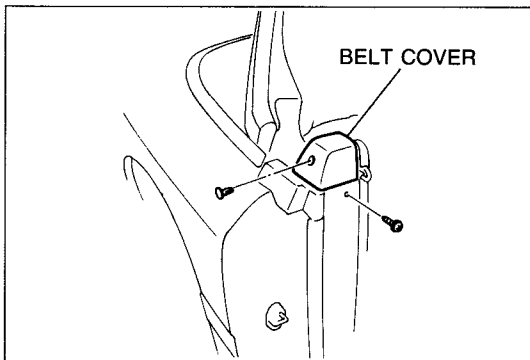
97U0SX-191

### When Replacing Seal Tape Only

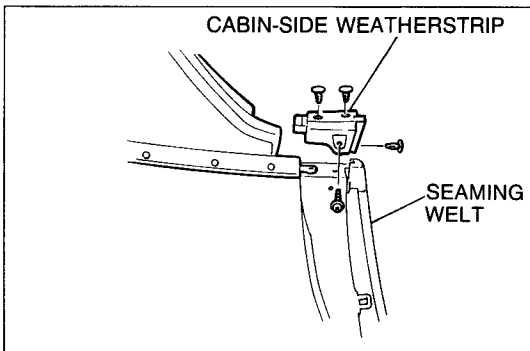
#### Note

- a) This operation is best performed by two persons.
- b) Remove the roof panel.
- c) Lower the convertible top fully.

97U0SX-192



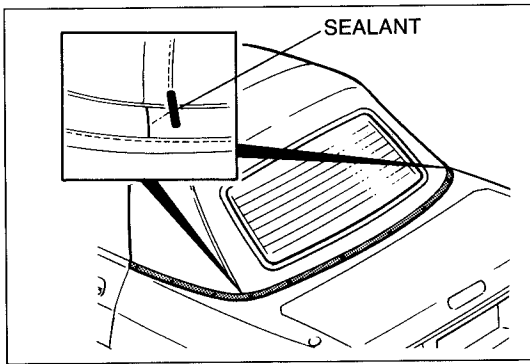
97U0SX-193



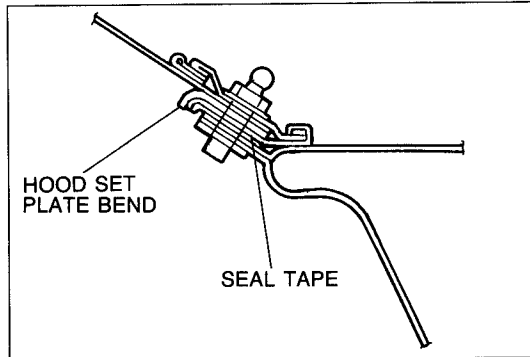
97U0SX-194

### Removal of cabin-side weatherstrips

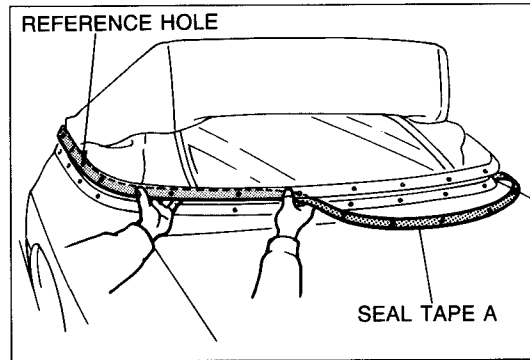
1. Remove the fasteners and screws.  
Lift up the belt covers.
2. Remove the fasteners and screws and the cabin-side weatherstrips.



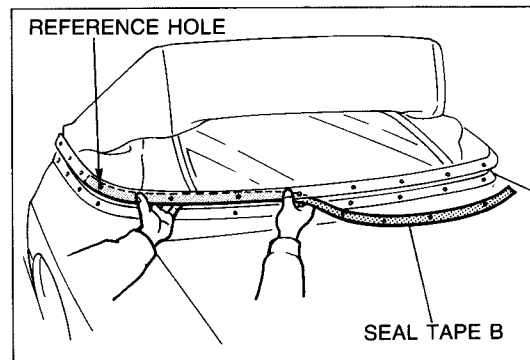
97U0SX-195



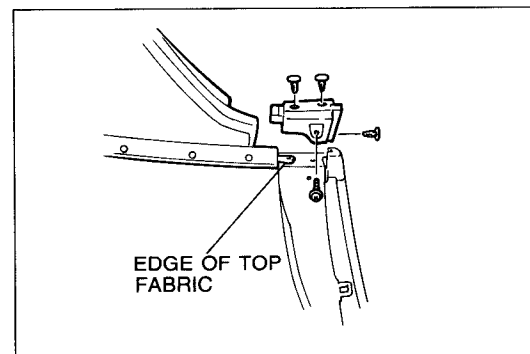
97U0SX-196



97U0SX-197



97U0SX-198



97U0SX-199

**Note**

**Raise the convertible top halfway.**

**Replacement of seal tape**

1. Remove the fasteners and lift the top fabric.
2. Remove the seal tape from the top fabric and the body.
3. Apply Sealant BM.5 (K120 W0 218) to the underside of the top fabric at the points shown.
4. Align seal tape A (FB67 R1 235) with the third hole from the left edge; then attach it to the top fabric set plate, being sure all the holes are aligned.

**Note**

**One person should support the top fabric while the other attaches the seal tape.**

5. Attach seal tape B (FB67 R1 236) to seal tape A in the same manner.

**Note**

**One person should support the top fabric while the other attaches the seal tape.**

**Note**

**Lower the convertible top fully.**

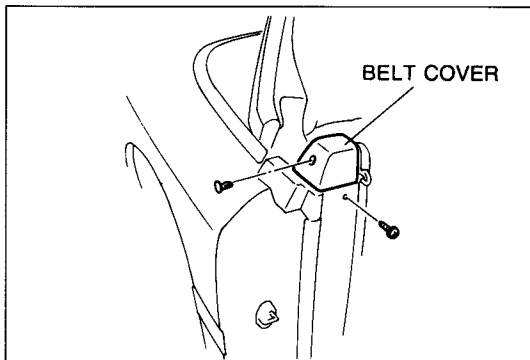
**Installation of cabin-side weatherstrips**

1. Install the cabin-side weatherstrips with the fasteners and screws.

**Note**

**Attach the ends of the top fabric with the installation clips of the cabin-side weather strips.**

# S CONVERTIBLE TOP



97U0SX-200

2. Affix the belt covers with the fasteners and the screws.

### Note

**Raise the convertible top halfway.**

### Installation of top fabric

Mount the top fabric to the body with the fasteners.

### Tightening torque

**Hook, bolt:**

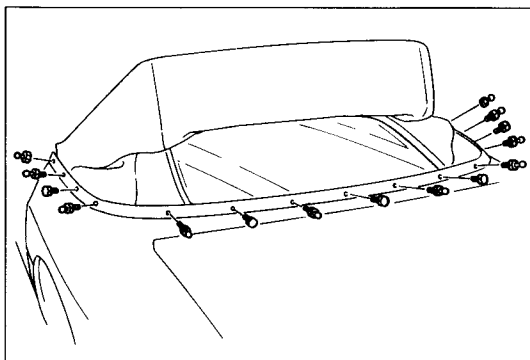
**2.5—3.5 N·m (25—36 cm·kg, 22—31 in·lb)**

**Nut:**

**4.2—6.2 N·m (43—63 cm·kg, 37—55 in·lb)**

### Note

**Lower the convertible top fully.**



97U0SX-201

### Installation the roof panel

Install the roof panel.

### Inspection of water leaks

Check for water leaks. If water leakage occurs, reconnect the seal tape.

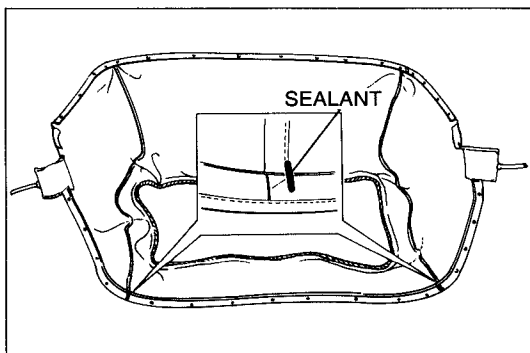
97U0SX-202

## When Installing New Top Fabric or Reinstalling Removed Top Fabric

### Note

**When reusing the top fabric, remove the old seal tape, and replace it with new tape.**

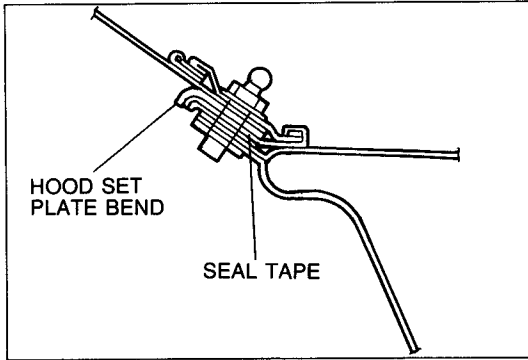
97U0SX-203



97U0SX-204

### Application of Sealant

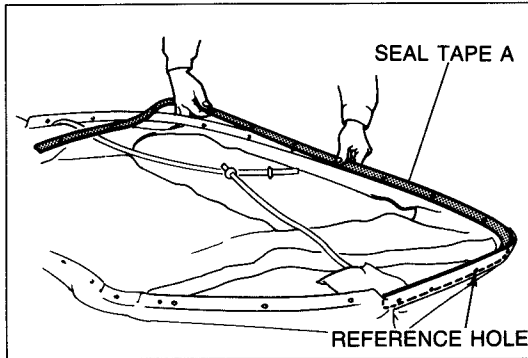
Apply sealant BM.5 (K120 W0 218) to the underside of the top fabric as shown.



97U0SX-205

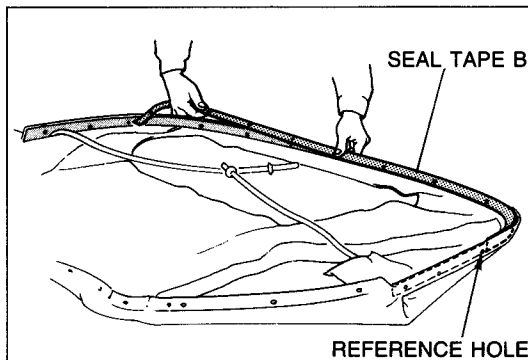
## Installation of seal tape

1. Align seal tape A (FB67 R1 235) with the third hole from the left edge; then attach it to the top fabric set plate, being sure all the holes are aligned.



97U0SX-206

2. Attach seal tape B (FB67 R1 236) to seal tape A in the same manner.



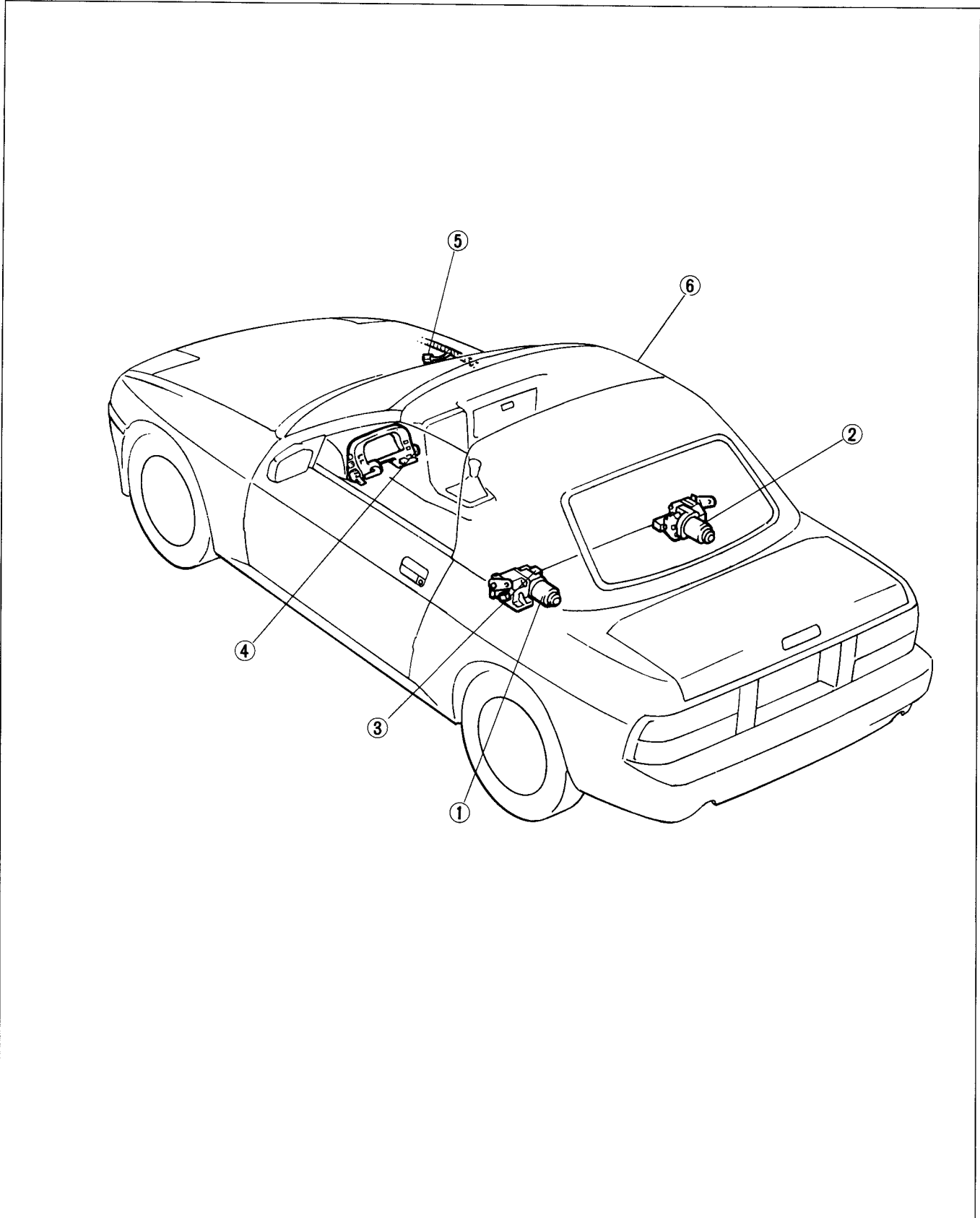
97U0SX-207

## Inspection of water leaks

1. Install the top fabric to the body; then check for water leakage.
2. If water leakage occurs, reconnect the seal tape.

# S CONVERTIBLE TOP

## CONVERTIBLE TOP MOTOR Structural View

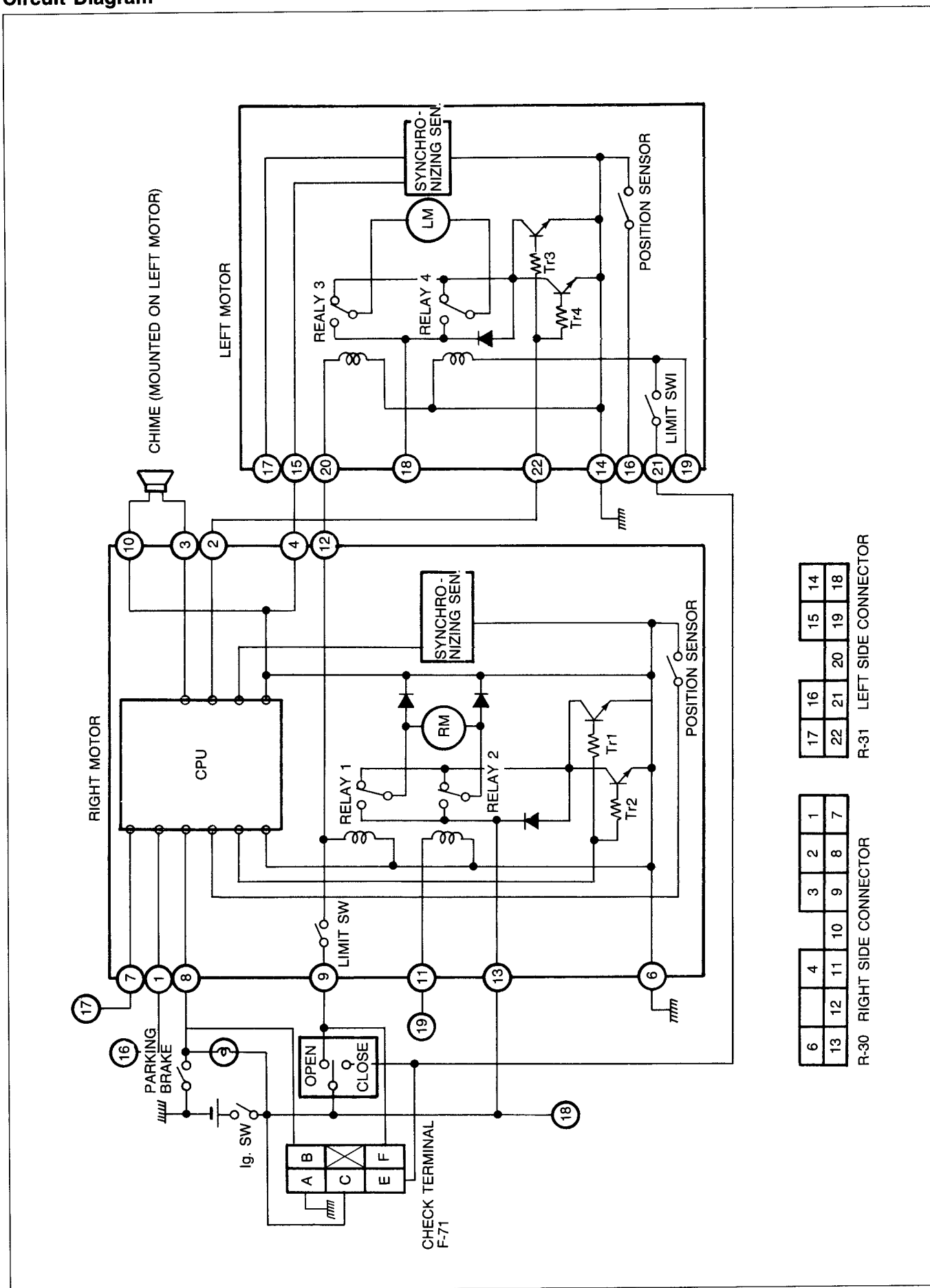


97U0SX-209

- 1. Right motor
- 2. Left motor
- 3. Chime

- 4. Convertible top control switch (cluster switch)
- 5. Check terminal
- 6. Convertible top assembly

Circuit Diagram



15	14
17	16
22	21
20	19
18	18

R-31 LEFT SIDE CONNECTOR

3	2	1
12	11	10
9	8	7

R-30 RIGHT SIDE CONNECTOR

# S CONVERTIBLE TOP

## Troubleshooting

Convertible top motor does not work

Check F-71 Connector (check terminal) for voltage

Condition	Connector	Voltage
Ignition switch ON	C	12V
Ignition switch ON and convertible top switch to OPEN	F	12V
Ignition switch ON and convertible top switch to CLOSE	E	12V
Ignition switch ON and parking brake ON	B	0V

**NG** → Repair harness or check cluster switch (Refer to page T-26)

**OK**

Check R-30 and R-31 connectors for voltage

Condition	Connector	Voltage
Ignition switch ON	13	12V
Ignition switch ON and convertible top switch to OPEN	9	12V
Ignition switch ON and parking brake ON	8	0V
Always	6	0V

Condition	Connector	Voltage
Ignition switch ON	18	12V
Ignition switch ON and convertible top switch to CLOSE	21	12V
Always	14	0V

**NG** → Repair harness

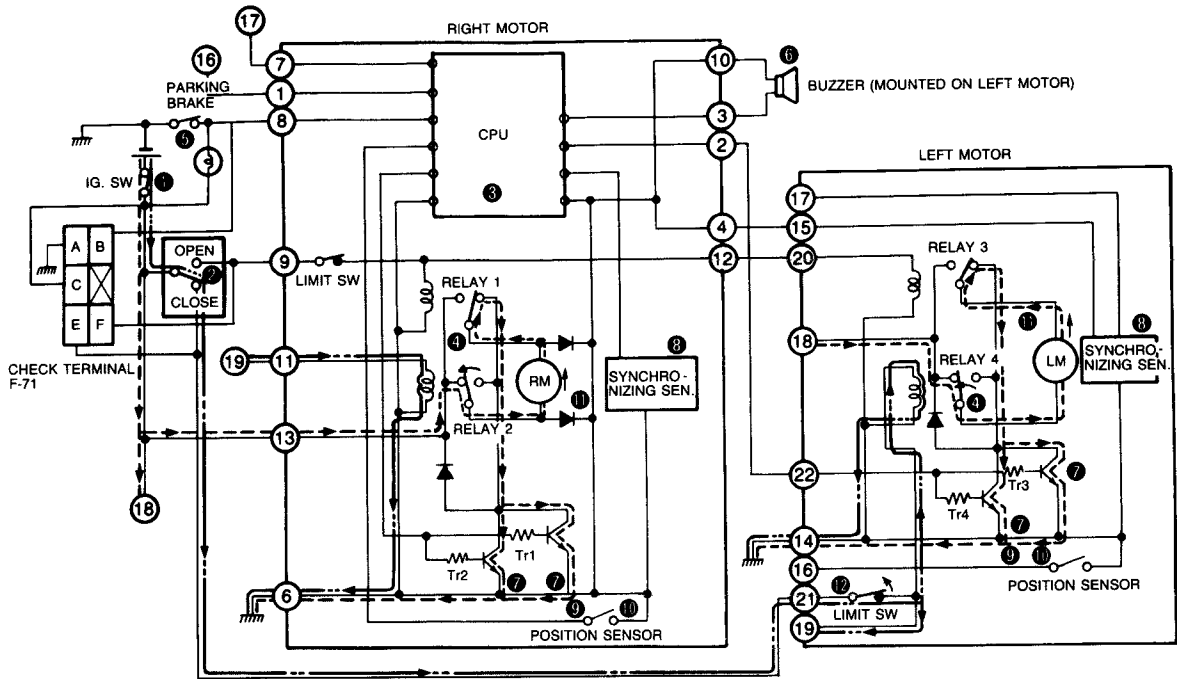
**OK**

Replace motor

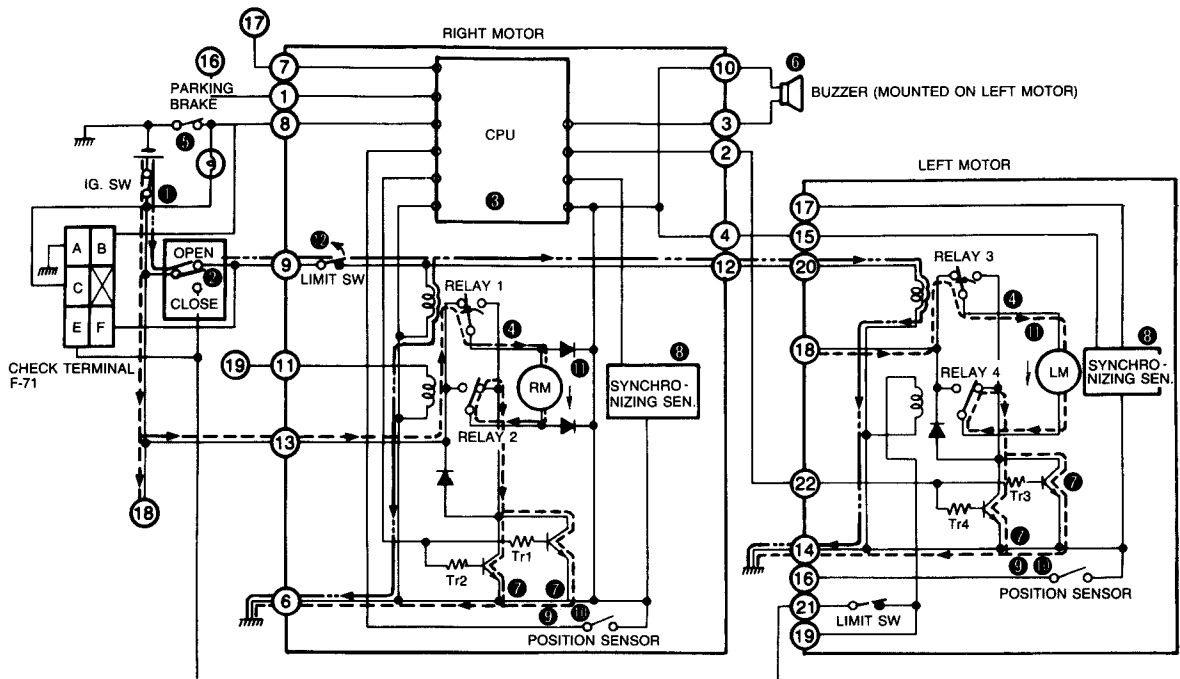


## Motor Operation

### RAISING CONVERTIBLE TOP



### LOWERING CONVERTIBLE TOP



6	4	3	2	1
13	12	11	10	9
8	7			

R-30 RIGHT SIDE CONNECTOR

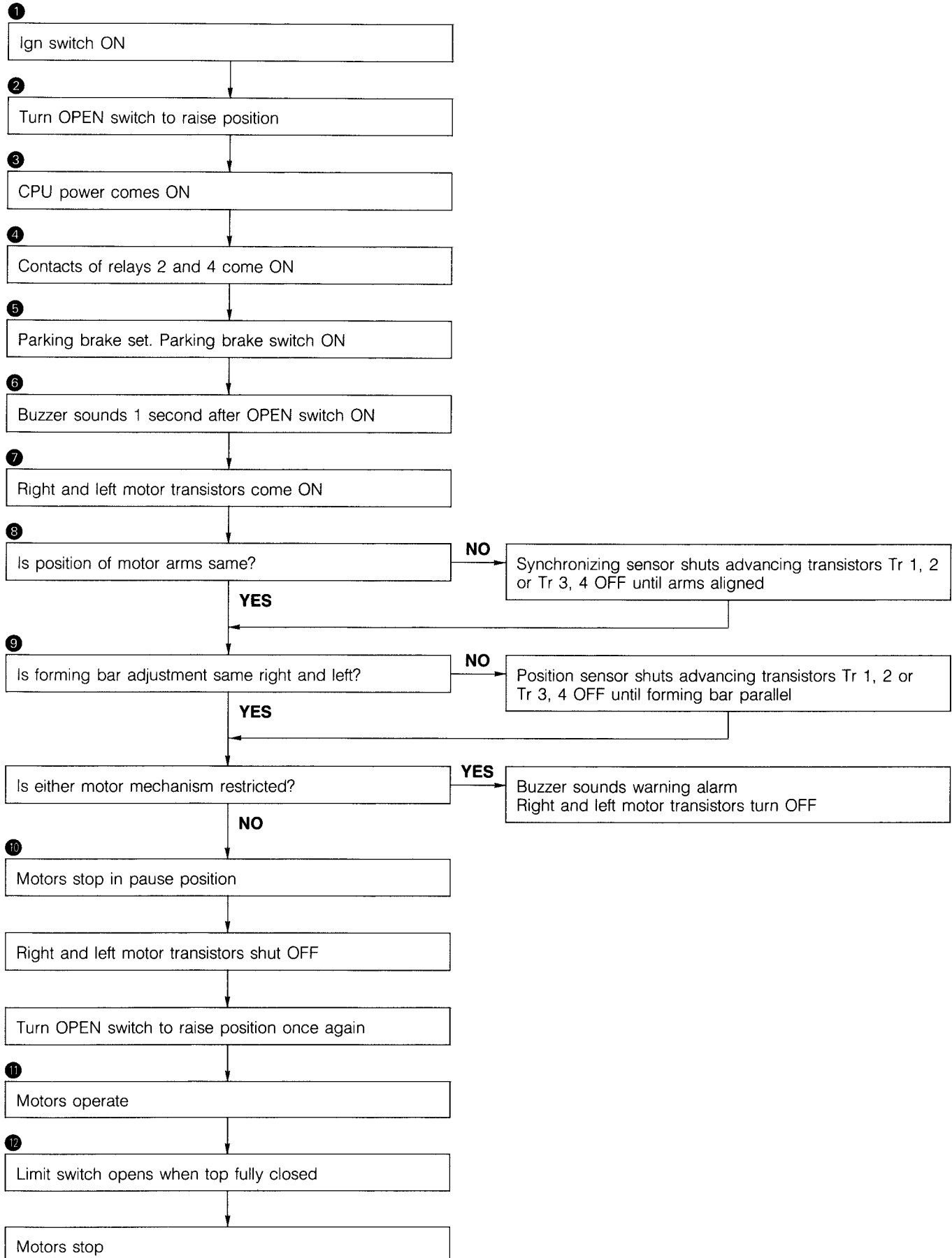
17	16	15	14
22	21	20	19
18			

R-31 LEFT SIDE CONNECTOR

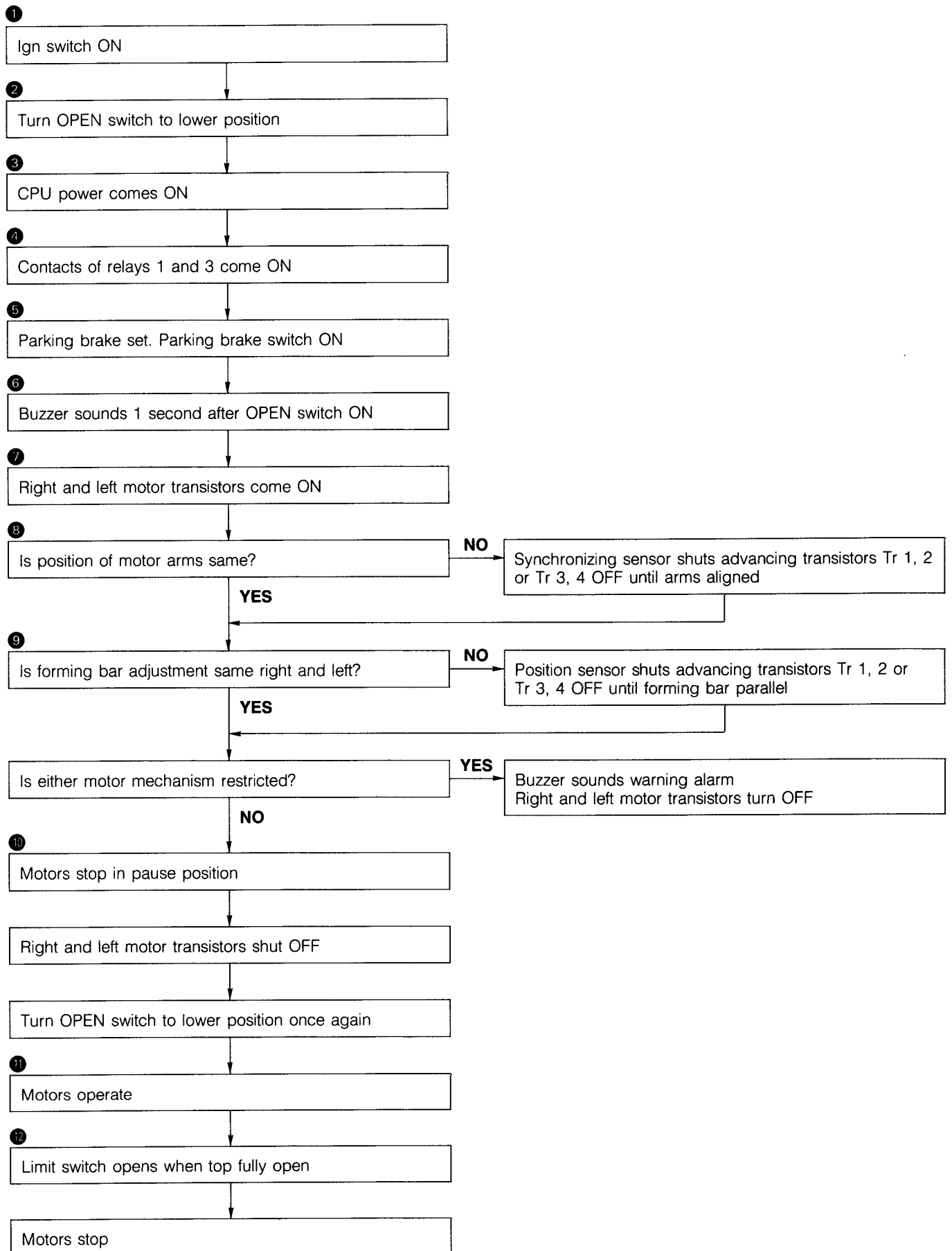
MAIN CURRENT FLOW

# S CONVERTIBLE TOP MOTOR

## Current Flow Raising top



## Lowering top

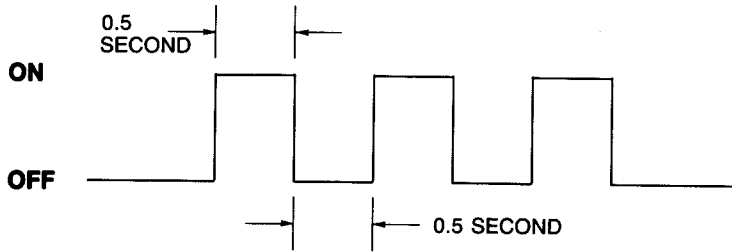


# S CONVERTIBLE TOP MOTOR

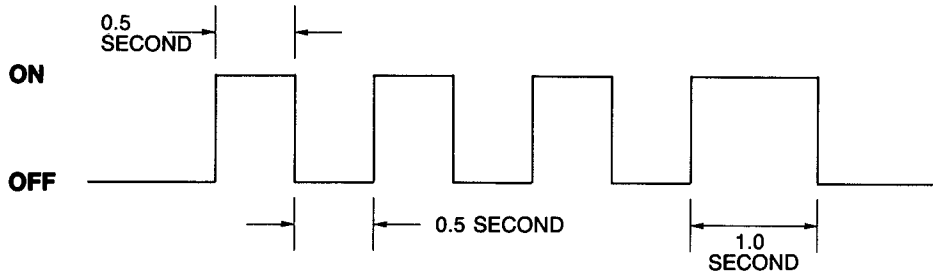
## Buzzer

The buzzer operates in the three patterns described below.

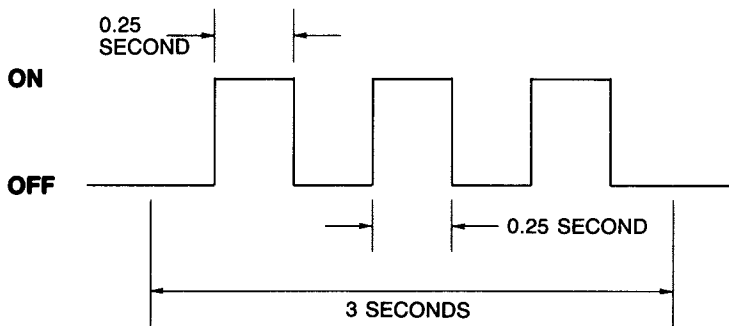
1. Raising and lowering top.



2. Movement of top restricted more than three seconds while raising or lowering, or OPEN switch held on after top fully raised.



3. Parking brake released while top operating.



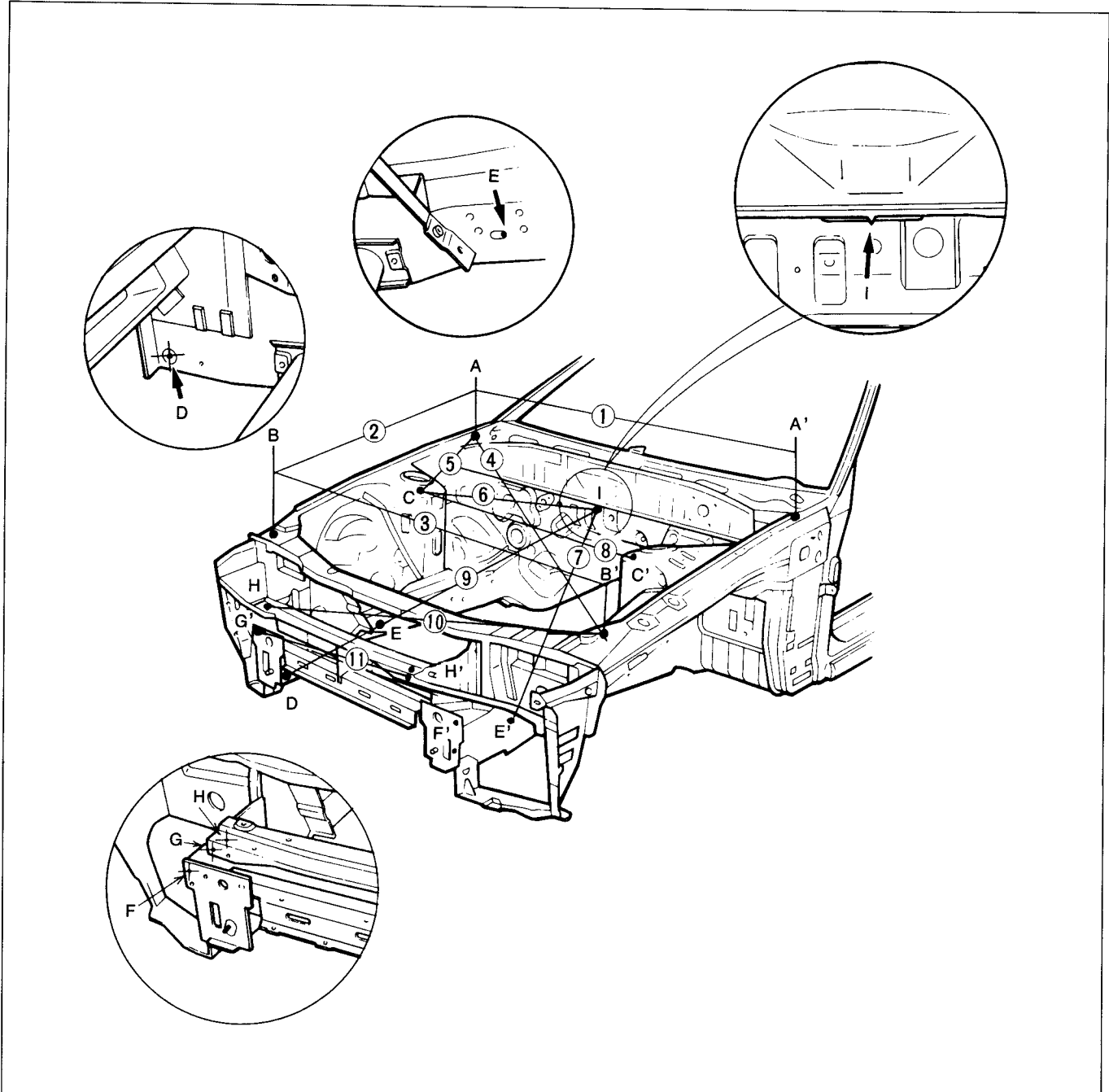
**TOOLS FOR SERVICING AND REPLACING CONVERTIBLE TOP**

ADHESIVE AGENT K180 W0 313	For installing OUTER HOOD ASS'Y and HEADLINER	STAPLE GUN	For installing OUTER HOOD ASS'Y
STAPLE	For installing OUTER HOOD ASS'Y and BELT	RIVETER	For installing INSULATOR
ALUMINUM RIVET φ4.0mm (φ0.16 in)	For installing INSULATOR	DRILL φ4.5mm (φ0.18 in)	For removing RIVET
GLASS SEALANT BM-5 K120 W0 218	For sealing GLASS	GLASS SEALANT TP-33M	For sealing GLASS
DOUBLE SIDED ADHESIVE TAPE	For installing INSULATOR	BLACK TAPE	For holding ROOF CLOTH
ETHYL ALCOHOL	For cleaning	REPAIR SHEET B2Y5 R1 211	For repairing TOP FABRIC

97U0SX-217

# S FRONT BODY DIMENSIONS

## FRONT BODY DIMENSIONS



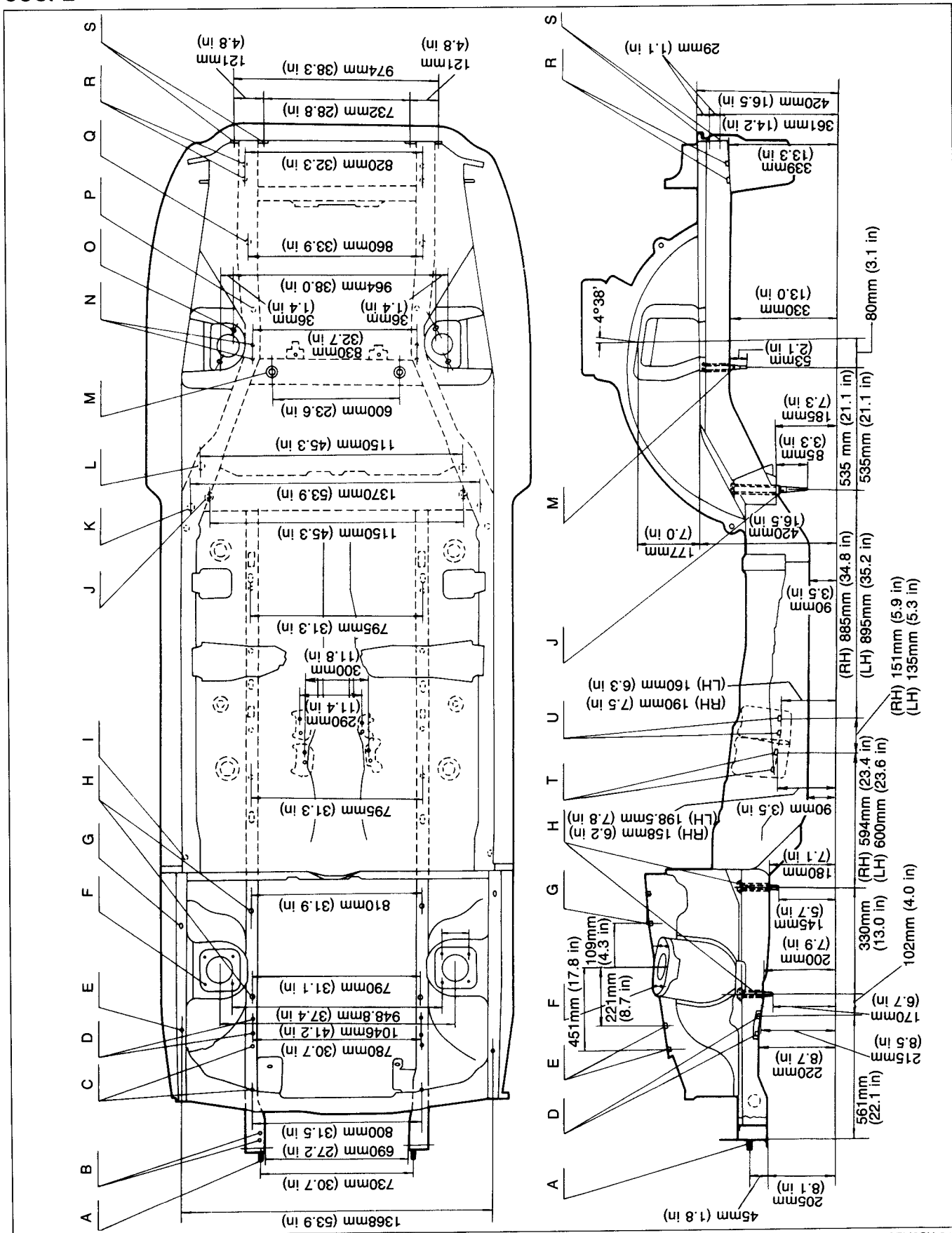
87U14X-141

- A, A' :Front fender mounting nut
- B, B' :Front fender mounting nut
- C, C' :Front suspension mounting block mounting hole
- D, D' :Tie-down hook mounting nut
- E, E' :Front frame reference hole
- F, F' :Front side frame reference hole
- G, G' :Fender upper stay mounting nut
- H, H' :Front fascia mounting nut
- I, I' :Cowl panel point

Mea- sure- ment	Length	mm (in)
1	1384	(54.49)
2	873	(34.37)
3	1354	(53.31)
4	1624	(63.94)
5	504	(19.84)
6	613	(24.13)
7	887	(34.92)
8	943	(37.13)
9	1205	(47.44)
10	1052	(41.42)
11	788	(31.02)

UNDERBODY PROJECTED DIMENSIONS

COUPE



67U0SX-218

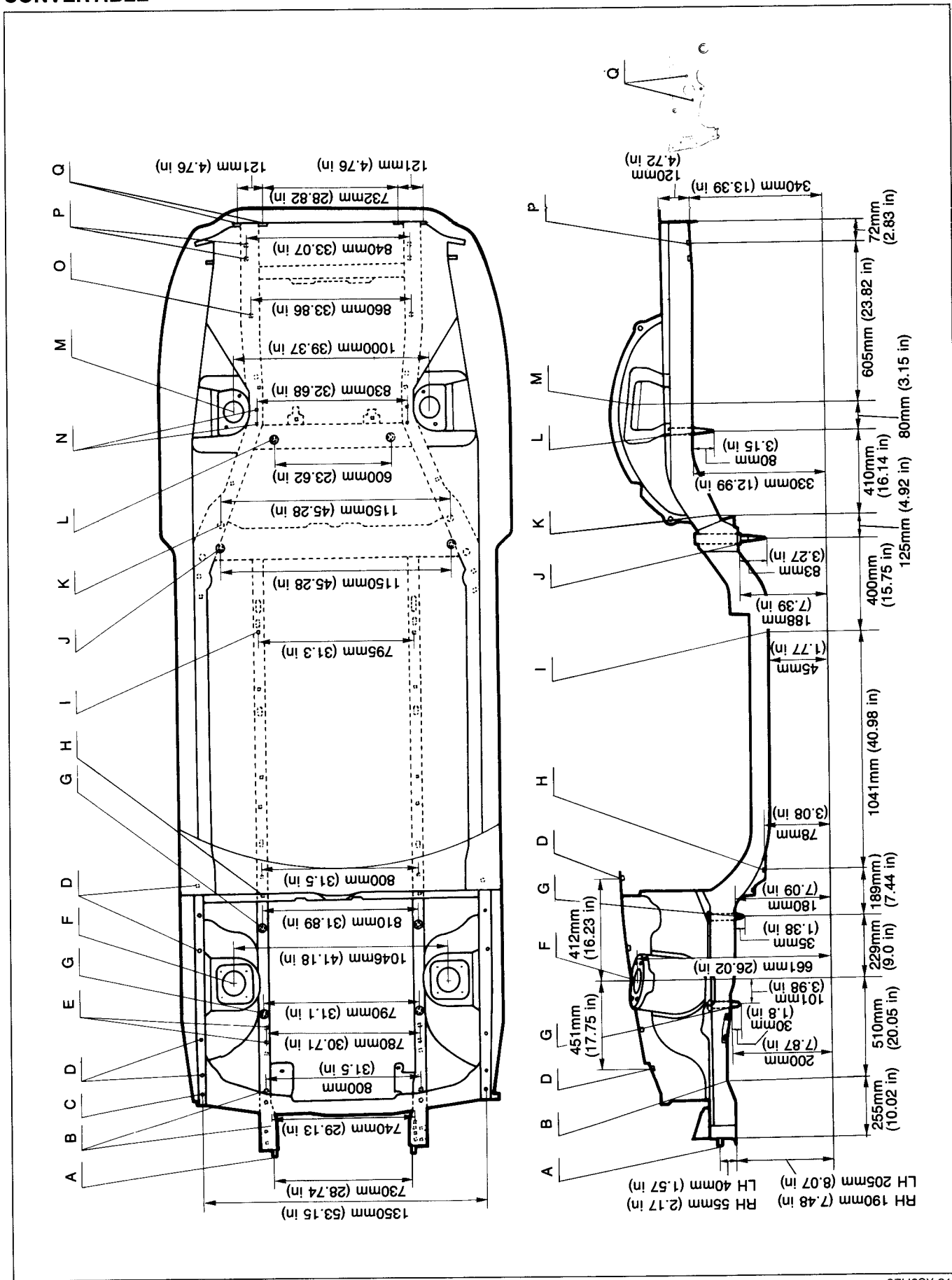
# **S UNDERBODY PROJECTED DIMENSIONS**

---

A:Front bumper mounting bolt  
B:Tie-down hook mounting nut  
C:Undercover mounting nut  
D:Front stabilizer mounting nut  
E:Front fender mounting nut  
F:Front suspension mounting block mounting hole  
G:Front fender mounting nut  
H:Front suspension mounting bolt  
I:Front frame reference hole  
J:Rear suspension member mounting bolt  
K:Rear frame reference hole  
L:Rear frame reference hole  
M:Differential member mounting bolt  
N:Rear stabilizer mounting nut  
O:Rear suspension mounting block mounting hole  
P:Rear frame reference hole  
Q:Rear frame reference hole  
R:Tie-down hook mounting nut  
S:Rear bumper mounting hole  
T:Transmission hanger bracket mounting nut (M/T)  
U:Transmission hanger bracket mounting nut (A/T)



## CONVERTIBLE



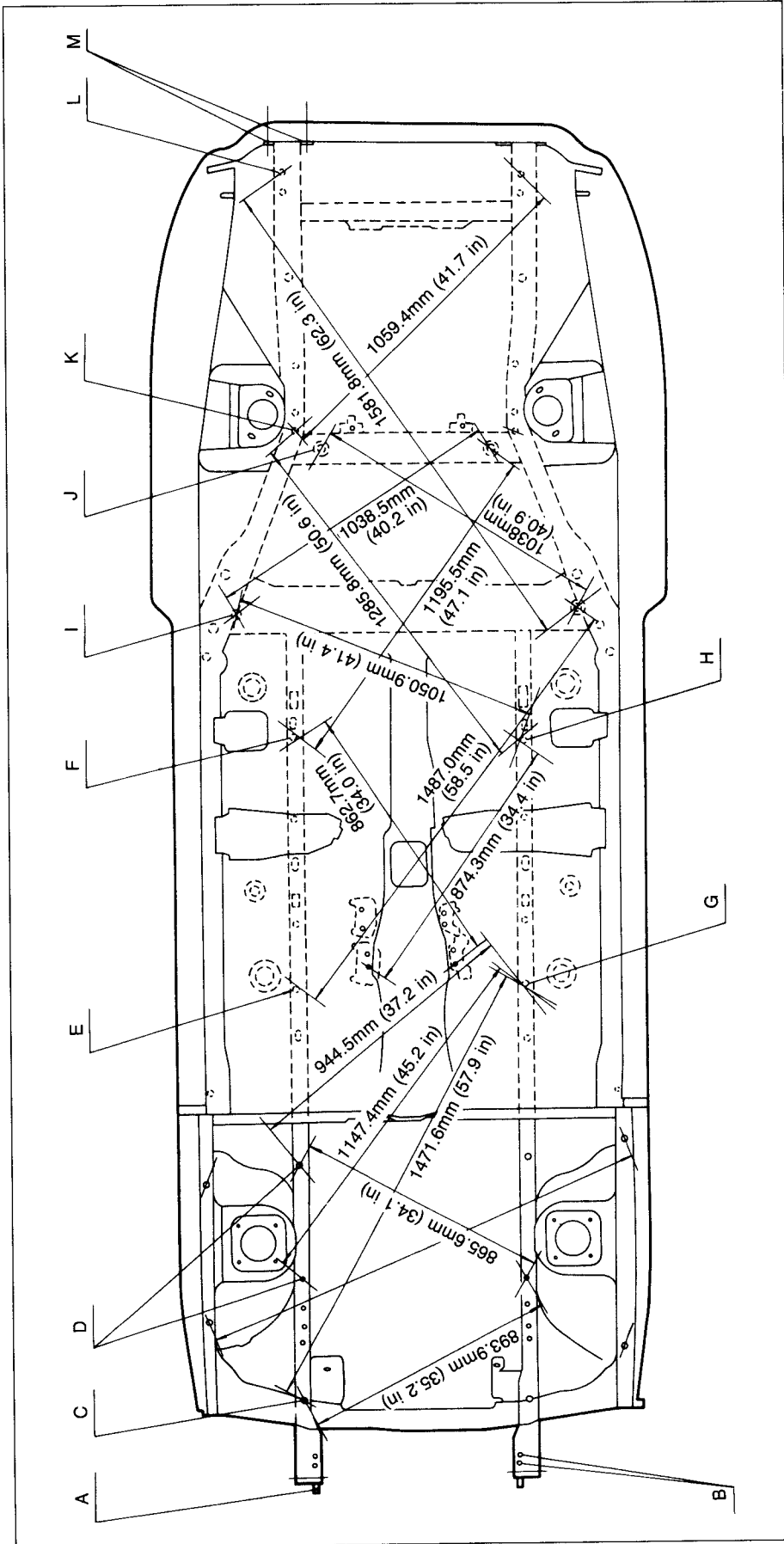
# **S UNDERBODY PROJECTED DIMENSIONS**

---

A:Front bumper mounting bolt  
B:Undercover mounting nut  
C:Front fender reference hole  
D:Front fender mounting nut  
E:Front stabilizer mounting nut  
F:Front suspension mounting block mounting surface  
G:Front suspension mounting bolt  
H:Crossmember mounting nut  
I:Front frame reference hole  
J:Rear suspension member mounting bolt  
K:Rear frame reference hole  
L:Differential member mounting bolt  
M:Rear suspension mounting block mounting surface  
N:Rear stabilizer mounting nut  
O:Rear frame reference hole  
P:Tie-down hook mounting nut  
Q:Rear bumper mounting hole

**UNDERBODY STRAIGHT-LINE DIMENSIONS**

**COUPE**

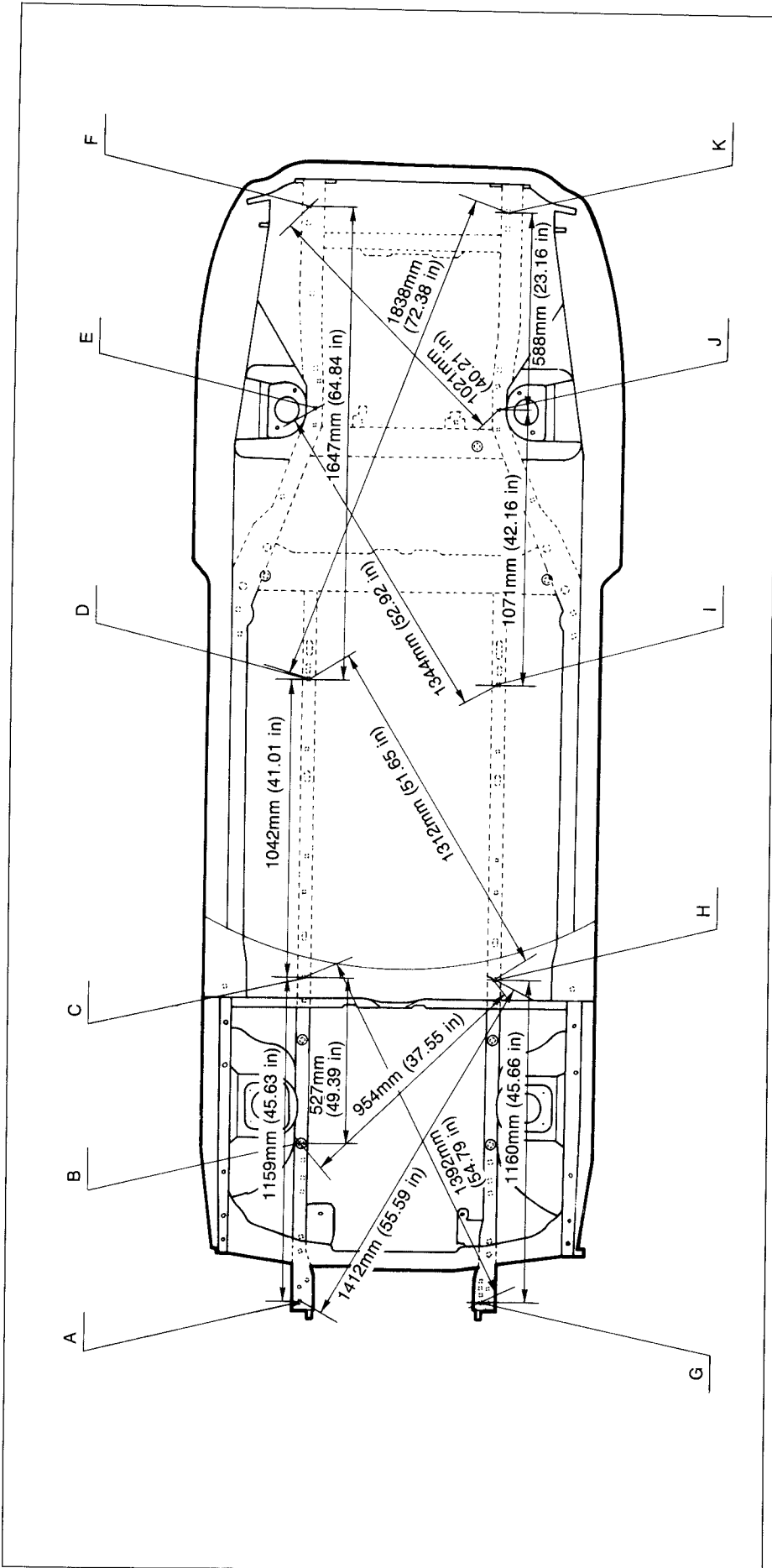


- I: Rear suspension member mounting bolt
- J: Differential member mounting bolt
- K: Rear stabilizer mounting nut
- L: Tie-down hook mounting nut
- M: Rear bumper mounting hole

- A: Front bumper mounting bolt
- B: Tie-down hook mounting nut
- C: Undercover mounting nut
- D: Front suspension mounting bolt
- E: Front frame reference hole
- F: Front frame reference hole
- G: Front frame reference hole
- H: Front frame reference hole

# S UNDERBODY STRAIGHT-LINE DIMENSIONS

## CONVERTIBLE



H: Crossmember mounting nut  
 I: Front frame reference hole  
 J: Rear stabilizer mounting nut  
 K: Tie-down hook mounting nut

A: Tie-down hook mounting nut  
 B: Front suspension mounting bolt  
 C: Crossmember mounting nut  
 D: Front frame reference hole  
 E: Rear stabilizer mounting nut  
 F: Tie-down hook mounting nut  
 G: Tie-down hook mounting nut