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This file was not scanned to deprive Mazda of any money - it was scanned due to the rareness of the original manuals and the overwhelming need of the RX-7 owner to have this information so that they can accurately troubleshoot problems. Perhaps if Mazda's dealerships could support the Rotary Engine it wouldn't be so necessary for the owners to do so.



Many thanks to Lenny Terris for scanning this.

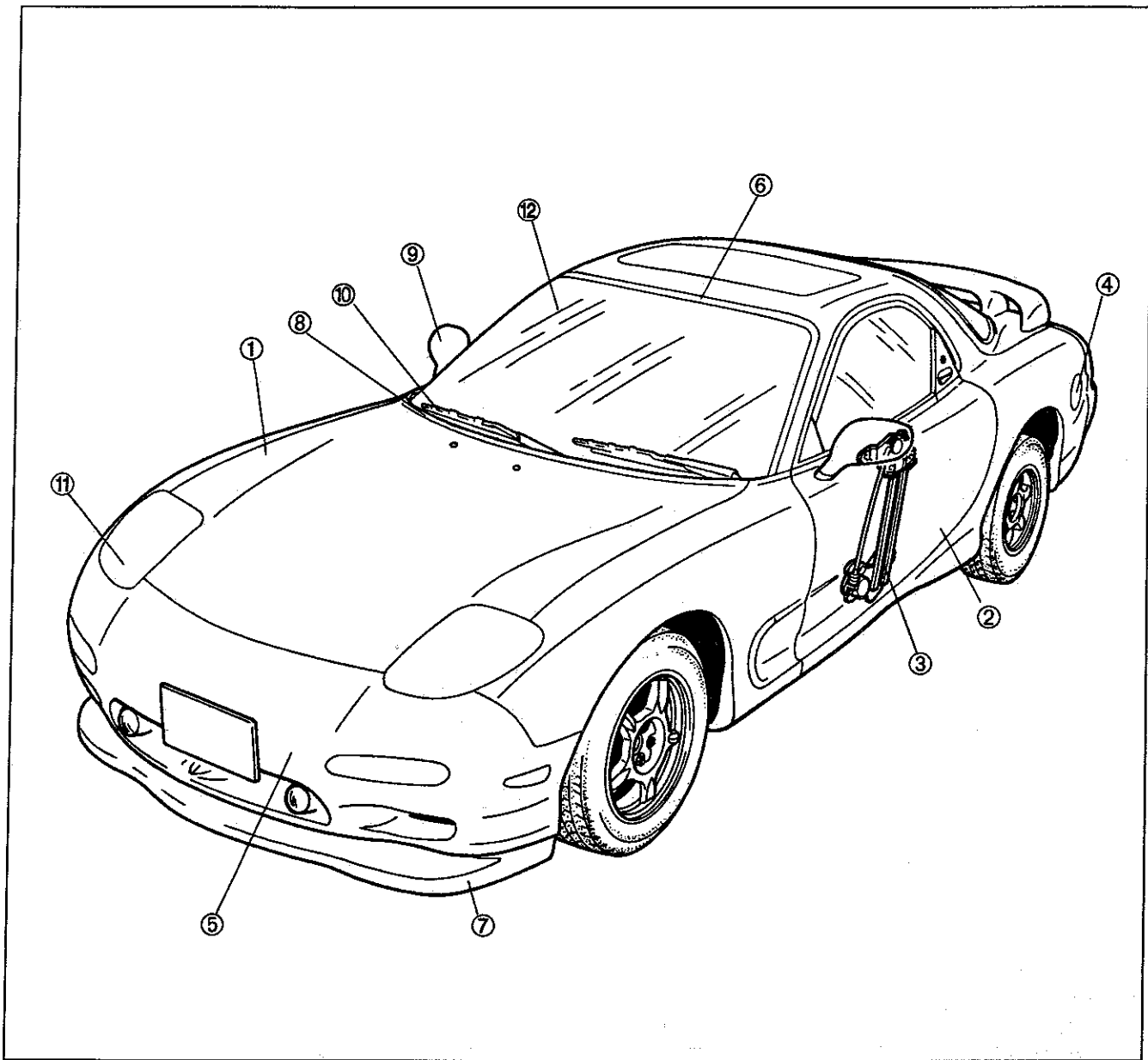
Before beginning any service procedure, refer to the 1994 RX-7 Body Electrical Troubleshooting Manual; see section S for air bag system service warnings and section J1 for audio antitheft system alarm conditions.

BODY

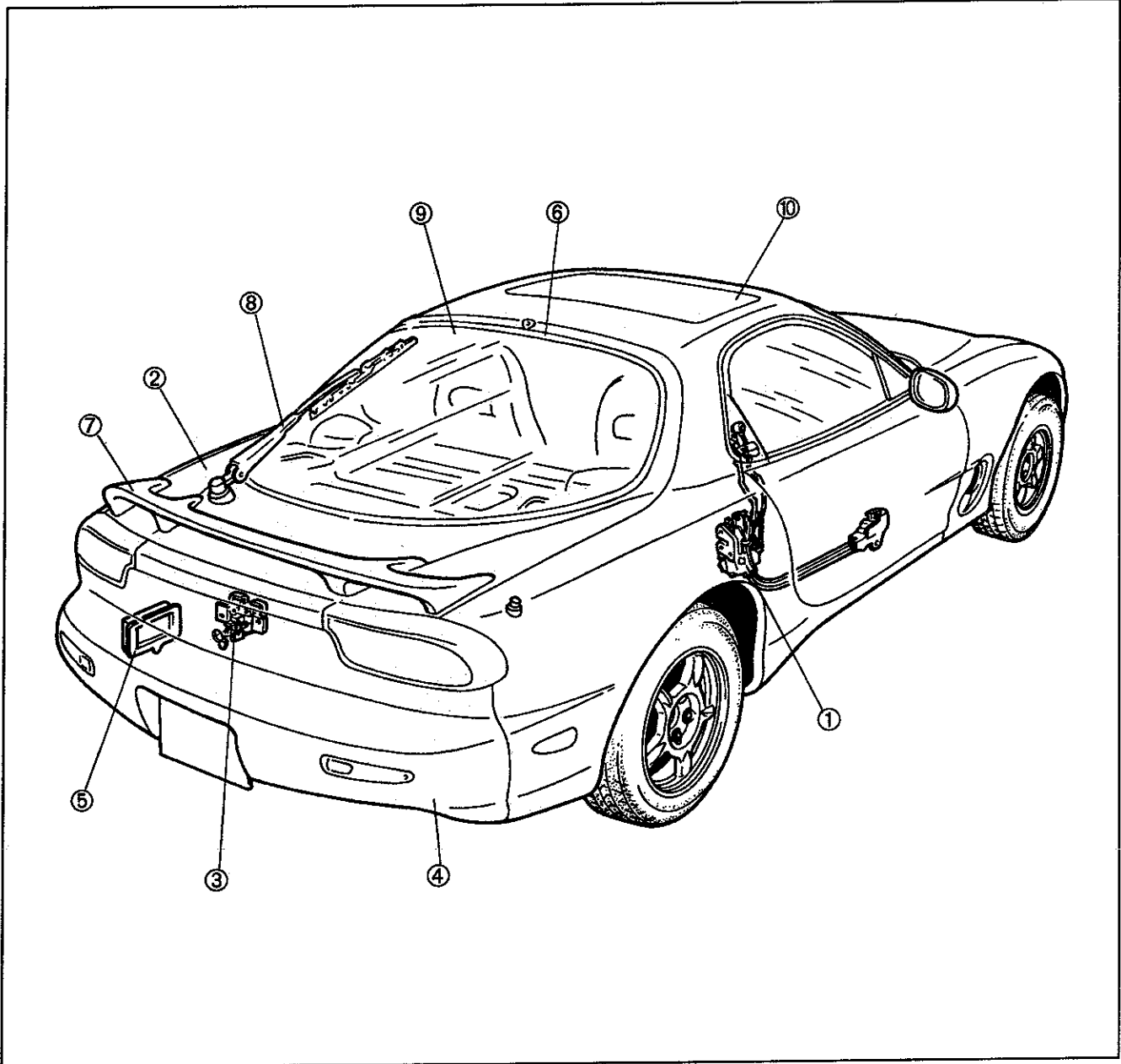
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NOTE: Refer to the 1994 RX-7 Body Electrical Troubleshooting Manual (No. 1380-10-93H) for servicing of the body electrical components.

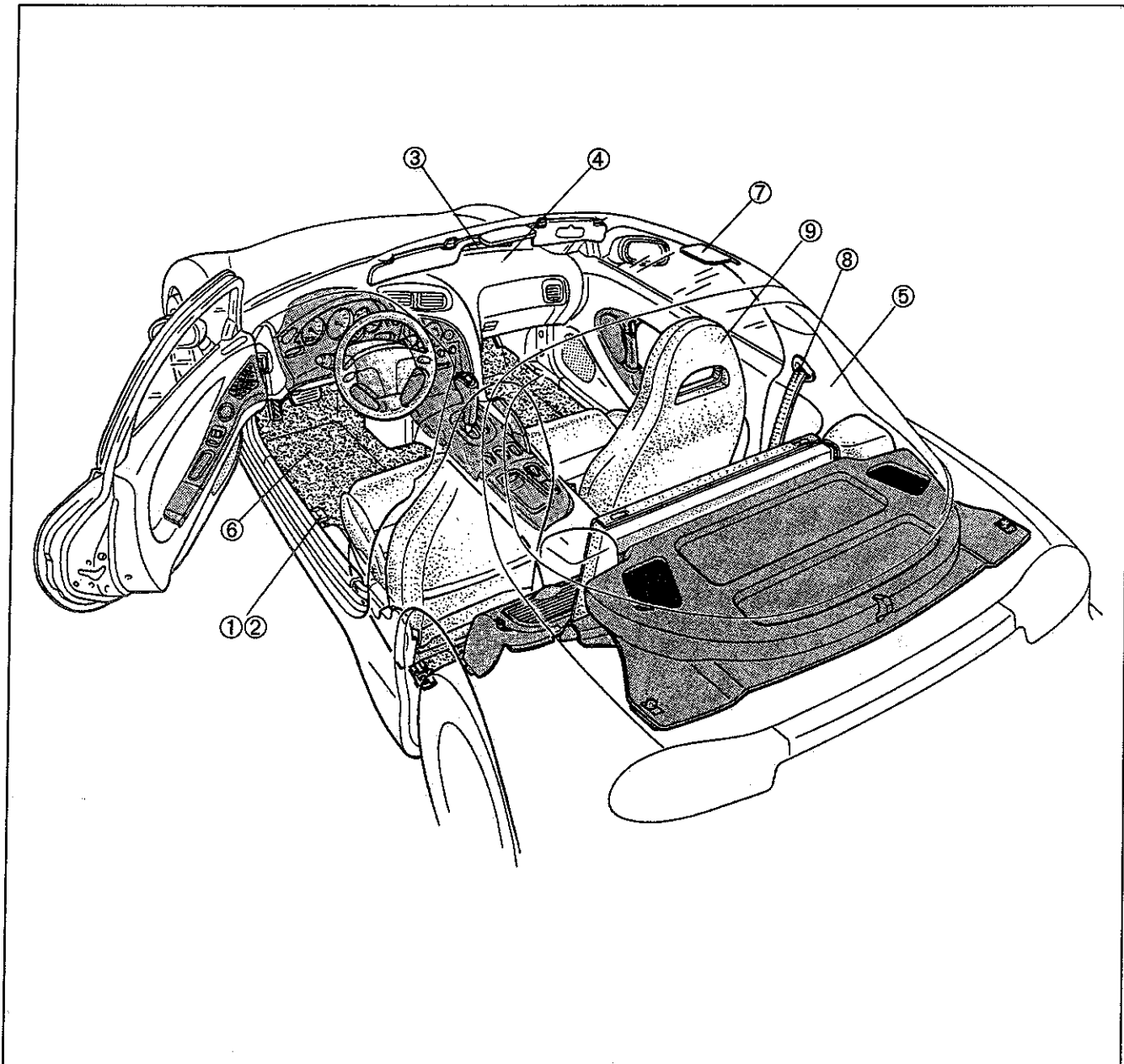
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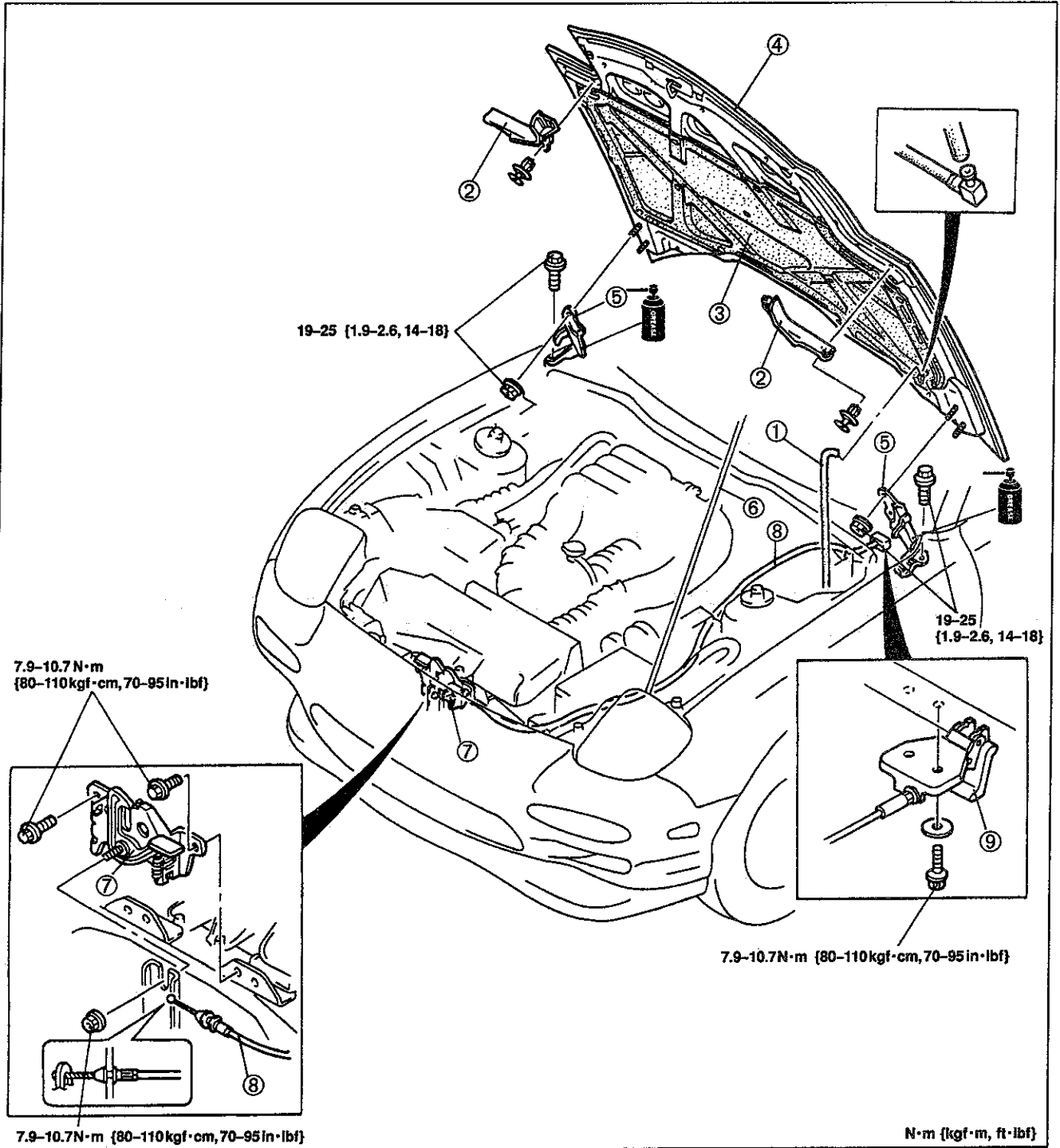


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|---|-----------|---|-----------|
| 1. Rear hatch lock and opener
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HOOD

COMPONENTS
Removal/Installation

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

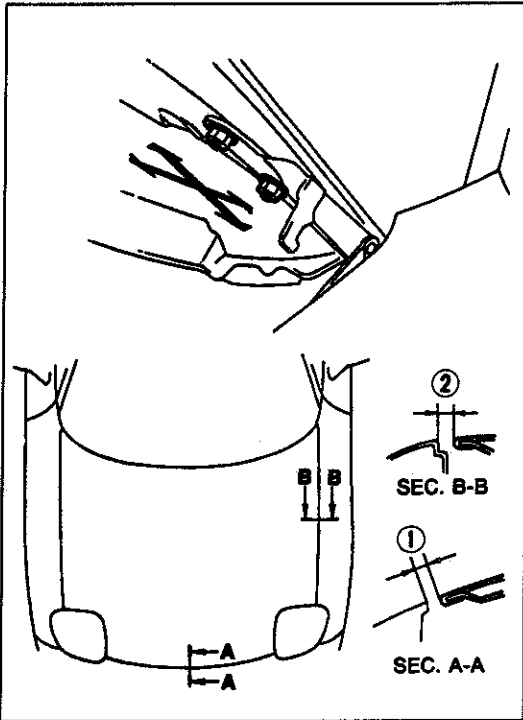


1. Washer pipe
2. Protector
3. Hood insulator
4. Hood

Adjustment page S-6

5. Hinge
6. Stay
7. Lock assembly
8. Release cable
9. Hood release Knob

Adjustment page S-6

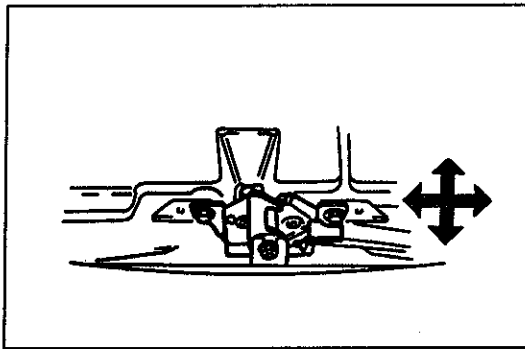


Adjustment Hood

Adjust the hood laterally or vertically by loosening the hood-to-hinge mounting nuts and repositioning the hood.

Clearance: ① 4.0 ± 1.0 mm { 0.16 ± 0.04 in}
 ② 4.5 ± 1.0 mm { 0.18 ± 0.04 in}

Tightening torque:
 $19-25$ N·m { $1.9-2.6$ kgf·m, $14-18$ ft·lbf}



Lock assembly

1. Adjust the lock assembly after the hood has been aligned.
2. Loosen the lock mounting bolts and nut, and align the lock with the striker on the hood.

Tightening torque

Bolts: $7.9-10.7$ N·m { $80-110$ kgf·cm, $70-95$ in·lbf}
Nut : $7.9-10.7$ N·m { $80-110$ kgf·cm, $70-95$ in·lbf}

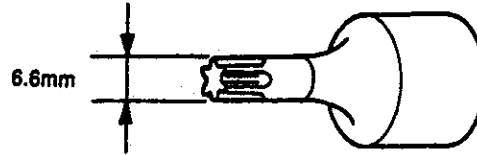
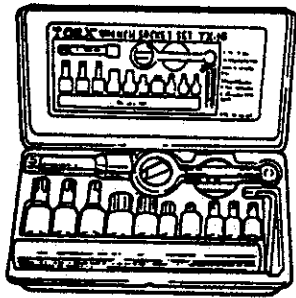
DOOR

PREPARATION

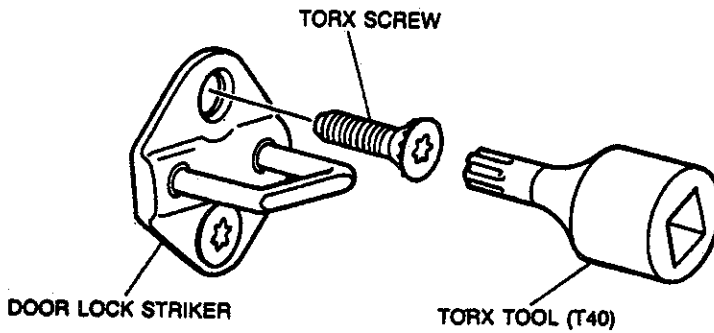
TORX tool (T40)	For installation / removal of door lock striker
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TORX TOOL (T40)

1. ILLUSTRATION



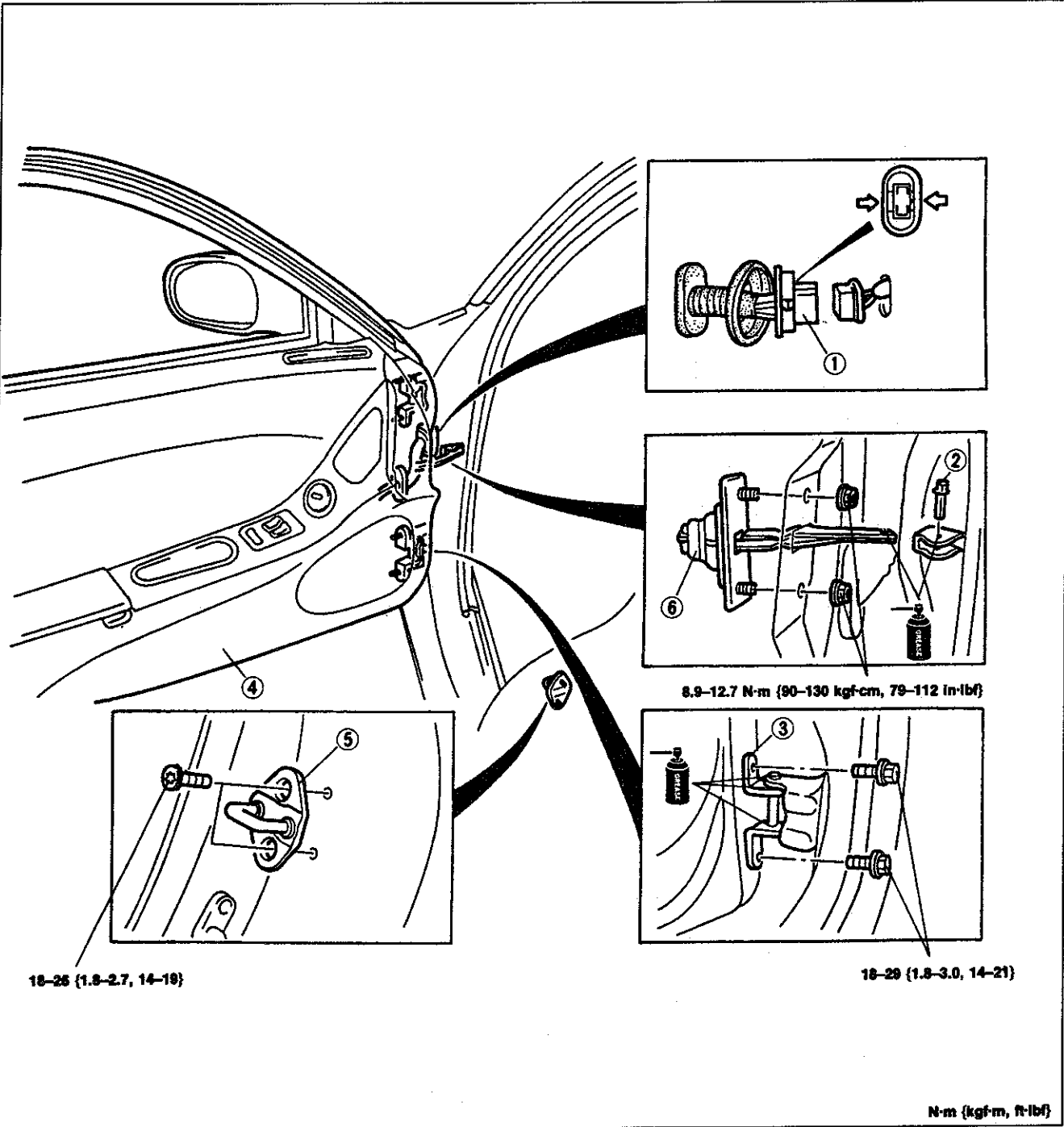
2. USAGE



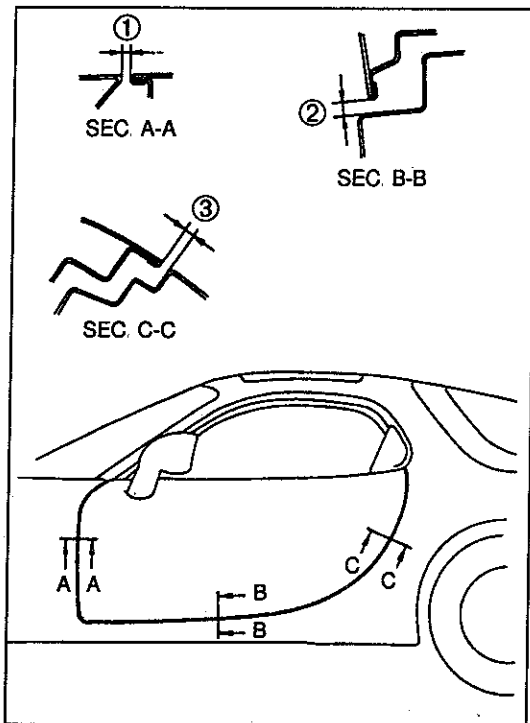
COMPONENTS

Removal / Installation

1. Disconnect the negative battery cable.
2. Remove in the order shown in the figure. To remove the checker, remove the front door trim and door screen. (Refer to page S-10.)
3. Install in the reverse order of removal. Adjust the door lock striker after adjusting the front door.



- | | |
|---------------------------|---------------------------|
| 1. Harness connector | 5. Door lock striker |
| 2. Checker pin | Adjustment page S-9 |
| 3. Door hinge | 6. Checker |
| 4. Door | |
| Adjustment page S-9 | |

**Adjustment****Door**

Adjust the door laterally or vertically by loosening the door-hinge-to-body mounting bolts and repositioning the door.

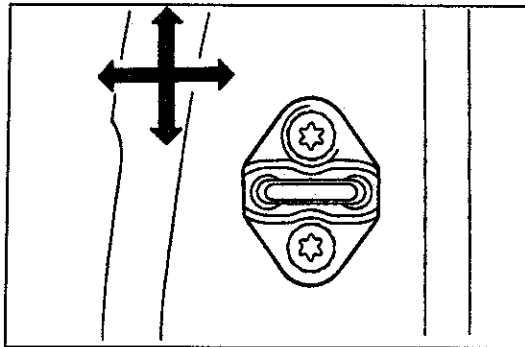
Clearance: ① $4 \pm 1 \text{ mm}$ { $0.2 \pm 0.04 \text{ in}$ }

② $6 \pm 2 \text{ mm}$ { $0.3 \pm 0.07 \text{ in}$ }

③ $4 \pm 1 \text{ mm}$ { $0.2 \pm 0.04 \text{ in}$ }

Tightening torque:

$18\text{--}29 \text{ N}\cdot\text{m}$ { $1.8\text{--}3.0 \text{ kgf}\cdot\text{m}$, $14\text{--}21 \text{ ft}\cdot\text{lbf}$ }

**Door lock striker**

1. Verify that the door can be closed easily and that there is no looseness. If there is a problem, loosen the striker mounting screws and move the striker horizontally or vertically.
2. Verify the rear offset of the door to the body. If there is a problem, move the door lock striker vertically.

Tightening torque:

$18\text{--}26 \text{ N}\cdot\text{m}$ { $1.8\text{--}2.7 \text{ kgf}\cdot\text{m}$, $14\text{--}19 \text{ ft}\cdot\text{lbf}$ }

WINDOW REGULATOR, GLASS AND GUIDE

COMPONENTS

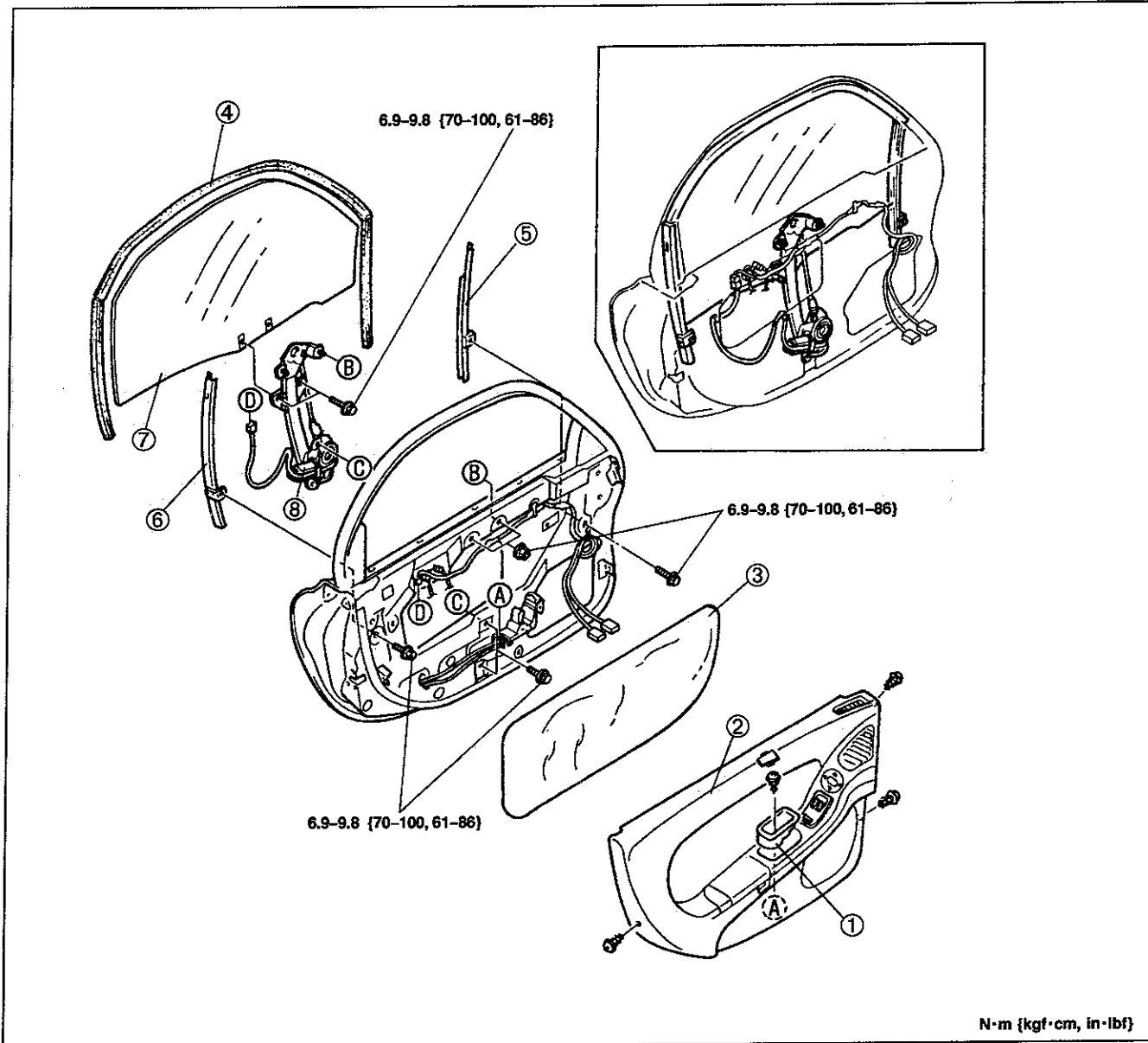
Removal / Installation

1. Lower the door glass 200 mm {0.79 in} from the fully raised position.
2. Disconnect the negative battery cable.

Note

- Remove the door screen carefully so that it may be reused.

3. Remove in the order shown in the figure.
4. Install in the reverse order of removal.



1. Inner handle cover

2. Door trim

Removal / Installation page S-55

3. Door screen

4. Glass run channel

5. Glass guide A

6. Glass guide B

7. Door glass

8. Power window regulator

DOOR LOCK AND OPENER

COMPONENTS

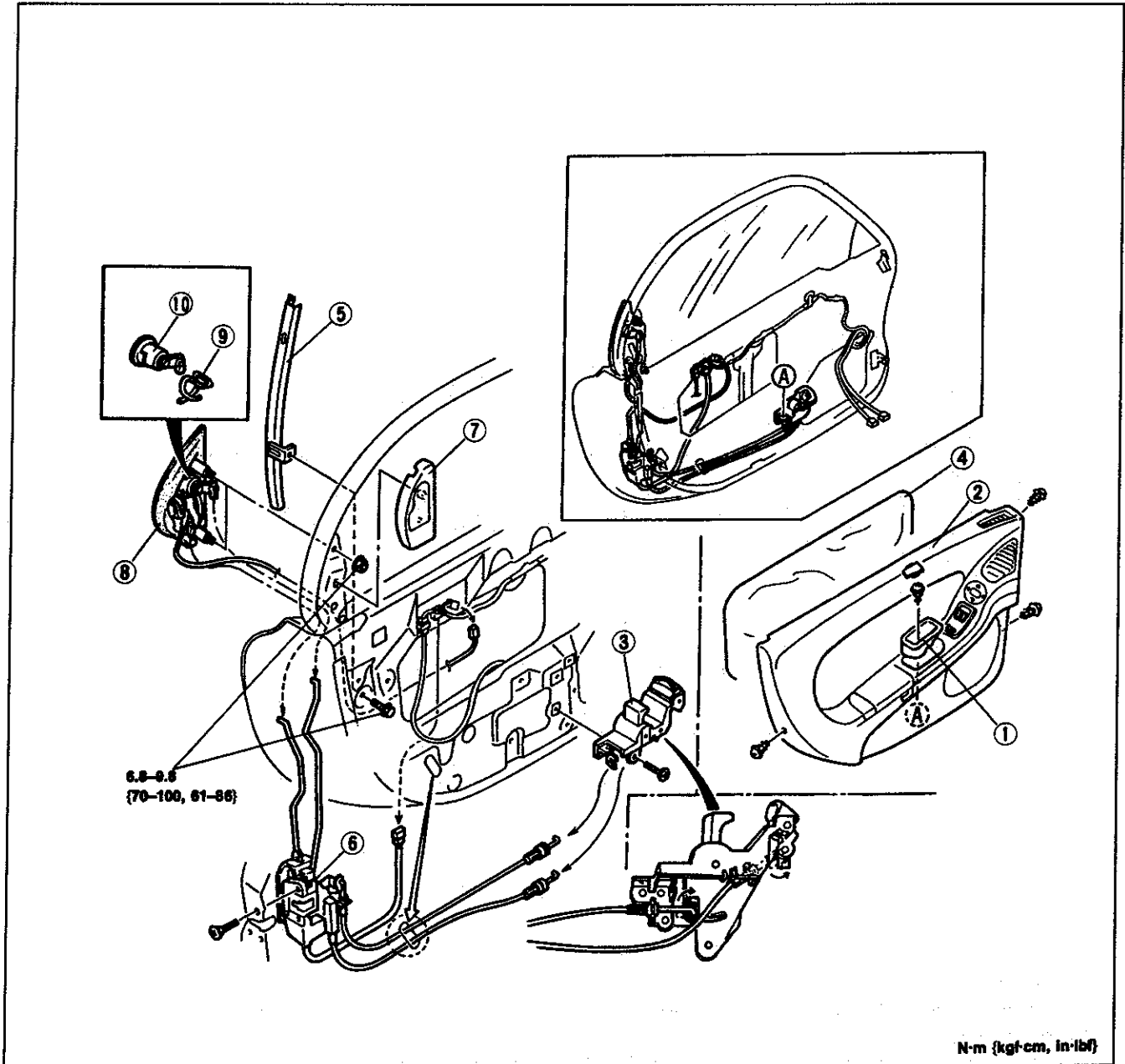
Removal / Installation

1. Raise the front door glass fully.
2. Disconnect the negative battery cable.

Note

- Remove the door screen carefully so that it may be reused.

3. Remove in the order shown in the figure.
4. Install in the reverse order of removal.



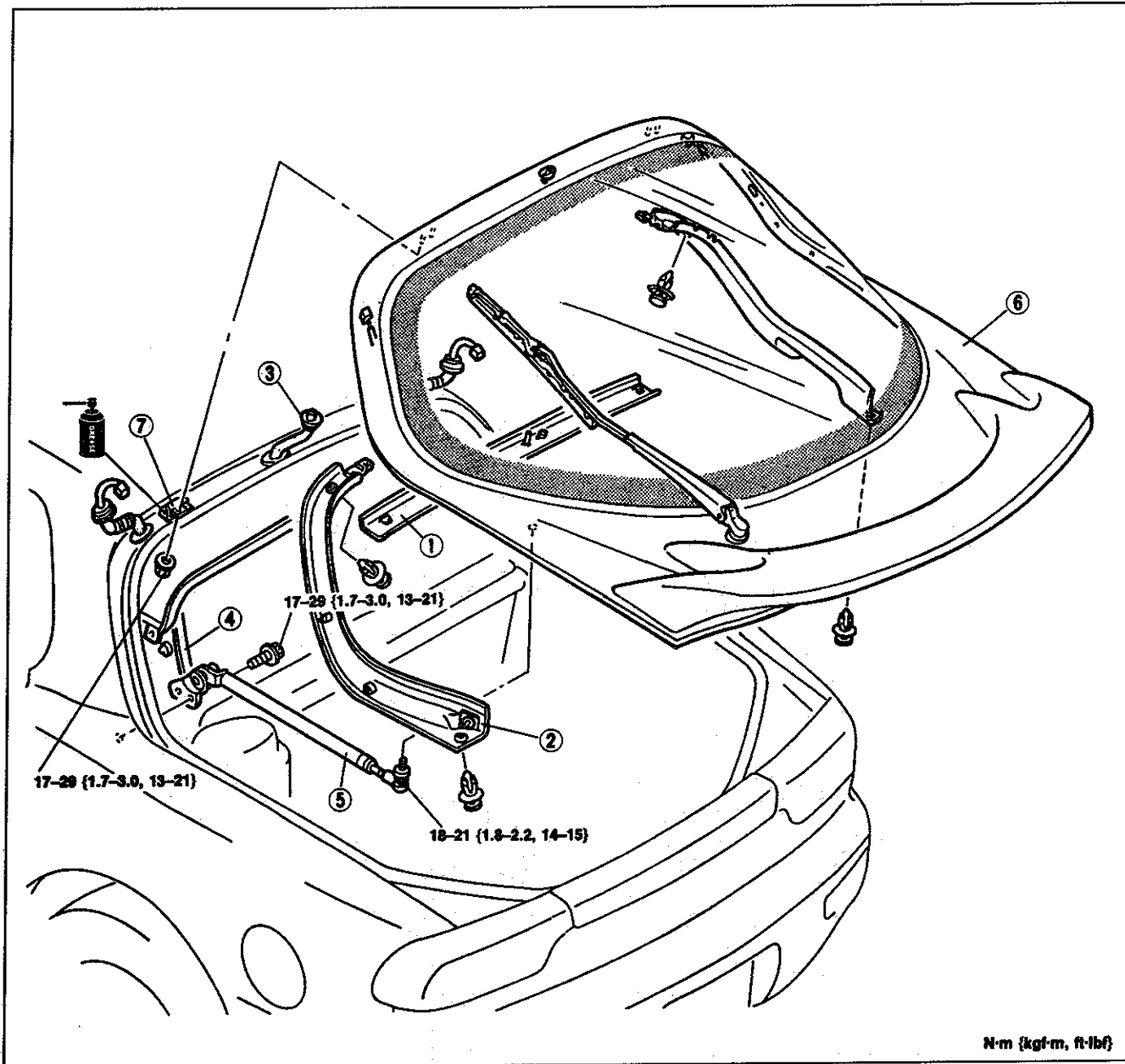
- | | |
|--|---------------------------|
| 1. Inner handle cover | 6. Door lock |
| 2. Door trim | 7. Inner garnish |
| Removal / Installation page S-55 | 8. Outer handle |
| 3. Inner handle | 9. Lock cylinder retainer |
| 4. Door screen | 10. Lock cylinder |
| 5. Glass guide B | |

REAR HATCH

COMPONENTS

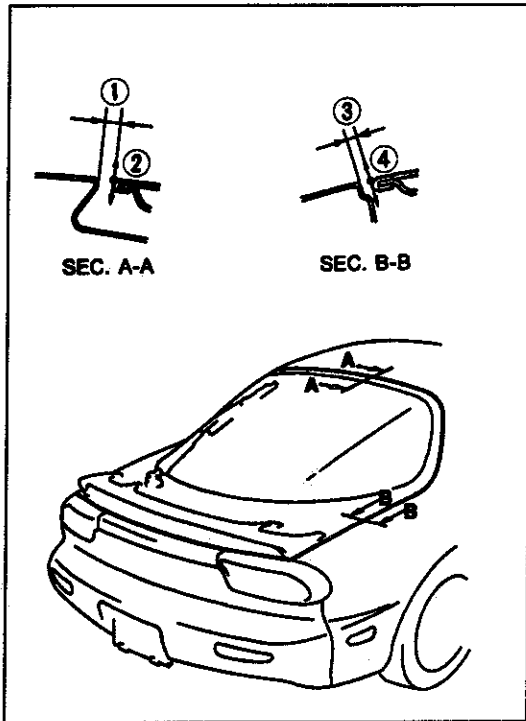
Removal / Installation

1. Disconnect the negative battery cable.
2. Remove in the order shown in the figure. To remove the rear hatch hinges, remove the headliner. (Refer to page S-60.)
3. Install in the reverse order of removal.



1. Rear hatch upper trim
Removal / Installation page S-55
2. Rear hatch side trim
Removal / Installation page S-55
3. Washer pipe

4. Quarter trim
Removal / Installation page S-55
5. Stay damper
6. Rear hatch
Adjustment page S-13
7. Rear hatch hinge

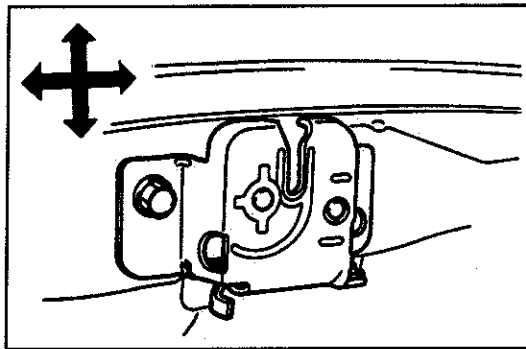


**Adjustment
Rear hatch**

Adjust the rear hatch laterally and vertically by loosening the rear-hatch-to-hinge mounting bolts and repositioning the rear hatch.

- Clearance:**
- ① $7 \pm 1.5 \text{ mm} \{0.3 \pm 0.06 \text{ in}\}$
 - ② $1 \begin{smallmatrix} +1.0 \\ -1.5 \end{smallmatrix} \text{ mm} \{0.04 \begin{smallmatrix} +0.04 \\ -0.06 \end{smallmatrix} \text{ in}\}$
 - ③ $4 \pm 2 \text{ mm} \{0.16 \pm 0.08 \text{ in}\}$
 - ④ $1 \pm 2 \text{ mm} \{0.04 \pm 0.08 \text{ in}\}$

Tightening torque:
 $17\text{--}29 \text{ N}\cdot\text{m} \{1.7\text{--}3.0 \text{ kgf}\cdot\text{m}, 13\text{--}21 \text{ ft}\cdot\text{lbf}\}$



Rear hatch lock

1. Adjust the rear hatch lock after the rear hatch has been aligned.
2. Remove the trunk end trim. (Refer to page S-55.)
3. Loosen the rear hatch lock mounting bolts, and align the lock with the striker on the rear hatch.

Tightening torque:
 $16\text{--}22 \text{ N}\cdot\text{m} \{1.6\text{--}2.3 \text{ kgf}\cdot\text{m}, 12\text{--}16 \text{ ft}\cdot\text{lbf}\}$

REAR HATCH LOCK AND OPENER

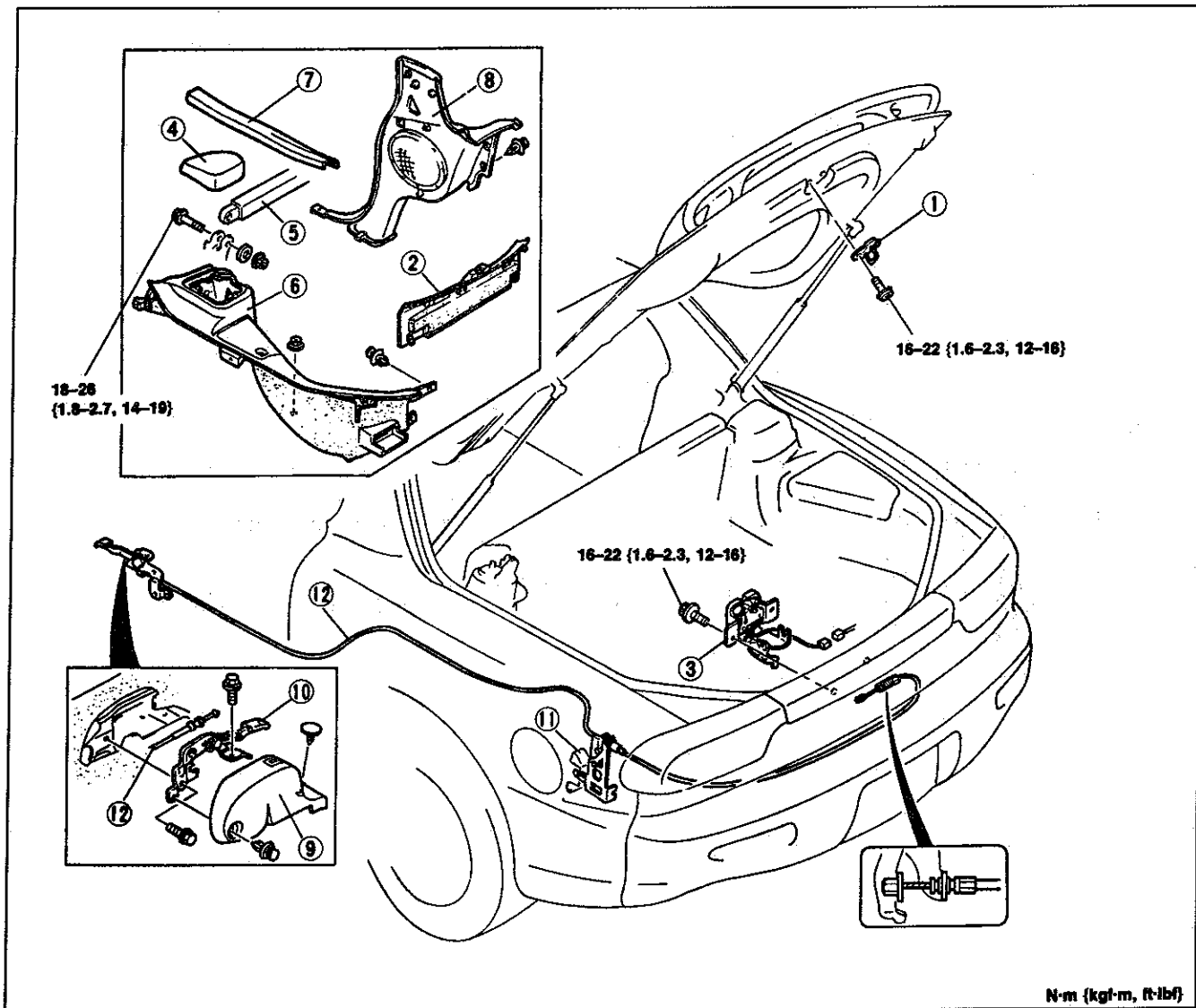
PREPARATION

TORX tool (T40)	For installation / removal of rear hatch striker
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COMPONENTS

Removal / Installation

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



N·m (kgf·m, ft·lbf)

Rear hatch lock

1. Rear hatch striker
2. Trunk end trim
Removal / Installation page S-55
3. Rear hatch lock
Adjustment page S-13

Rear hatch opener, rear hatch opener cable

4. Suspension tower cover
5. Suspension rear strut bar

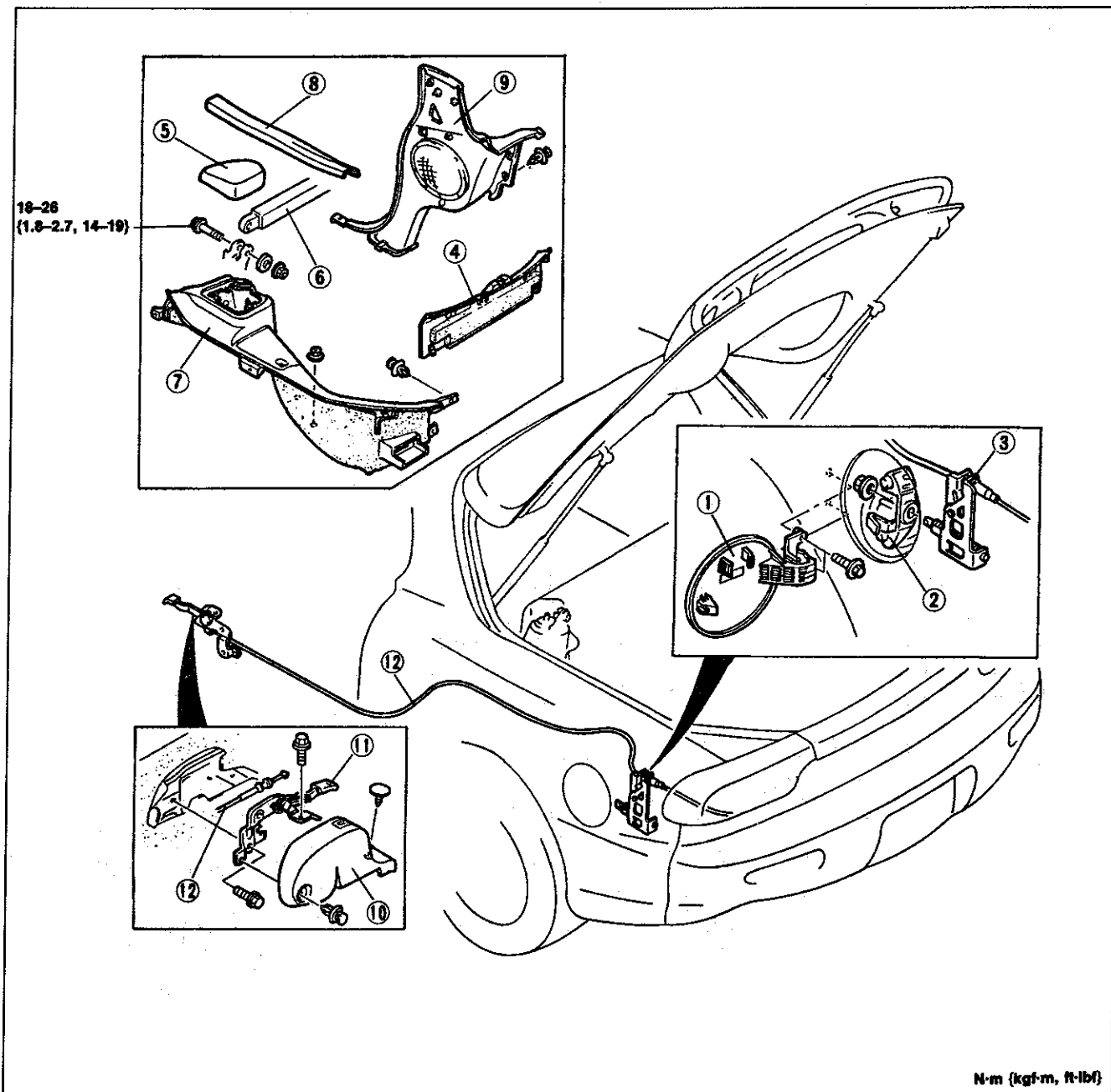
6. Trunk side trim
Removal / Installation page S-55
7. Scuff plate
Removal / Installation page S-55
8. Quarter trim
Removal / Installation page S-55
9. Opener bezel
10. Opener lever
11. Stopper bracket
12. Opener cable

FUEL-FILLER LID AND OPENER

COMPONENTS

Removal / Installation

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



Filler lid

1. Filler lid
2. Stopper bracket
3. Filler lid opener

Filler lid opener, opener lever, opener cable

4. Trunk end trim
Removal / Installation page S-55
5. Suspension tower cover
6. Suspension rear strut bar

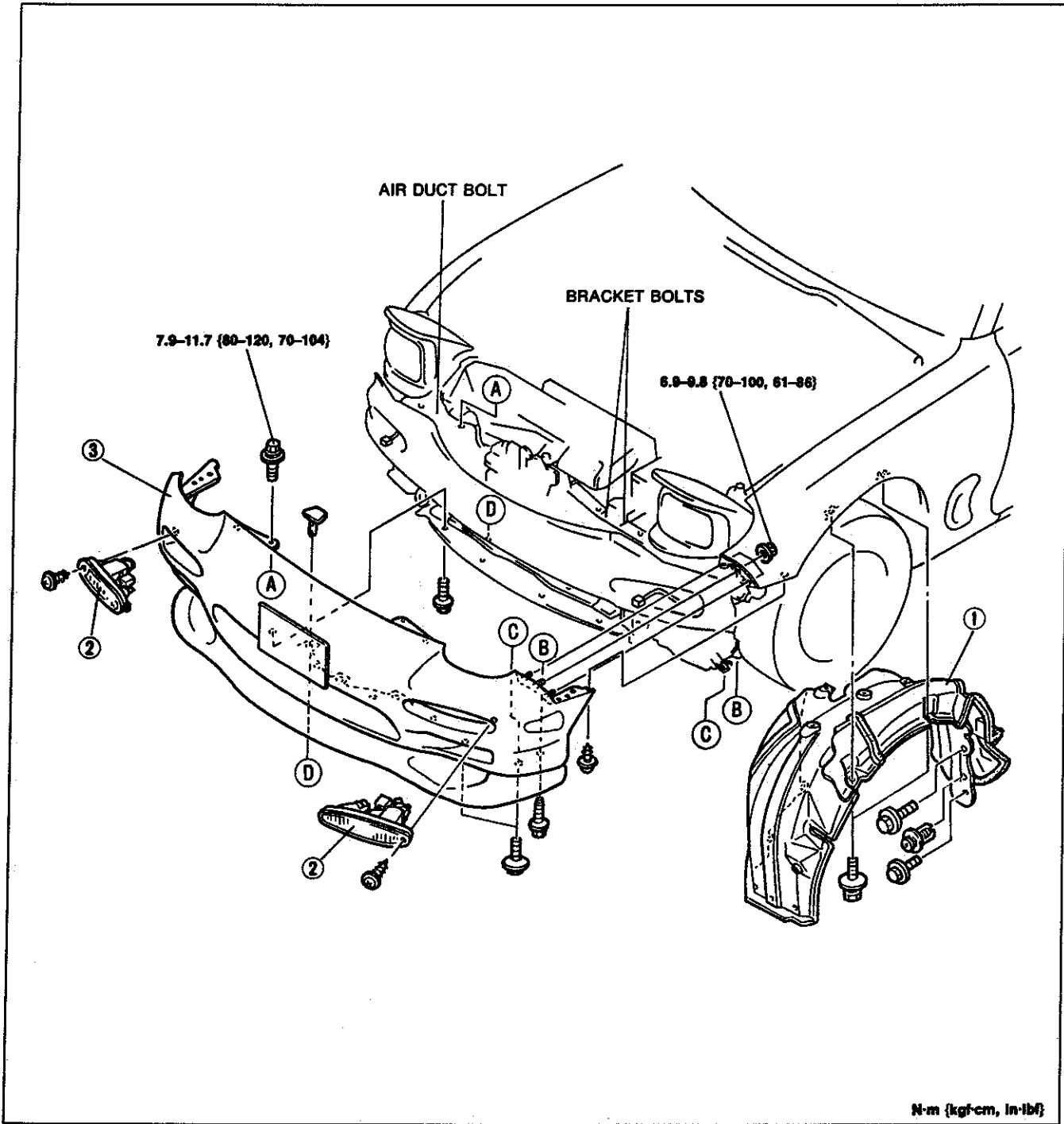
7. Trunk side trim
Removal / Installation page S-55
8. Scuff plate
Removal / Installation page S-55
9. Quarter trim
Removal / Installation page S-55
10. Opener bezel
11. Opener lever
12. Opener cable

FRONT BUMPER

COMPONENTS

Removal / Installation

1. Disconnect the negative battery cable.
2. Remove in the order shown in the figure. To remove the front bumper, remove the left air duct bolt and receiver / drier bracket bolts. (Refer to the 1994 RX-7 Body Electrical Troubleshooting Manual, section E, when removing the front combination light.)
3. Install in the reverse order of removal.

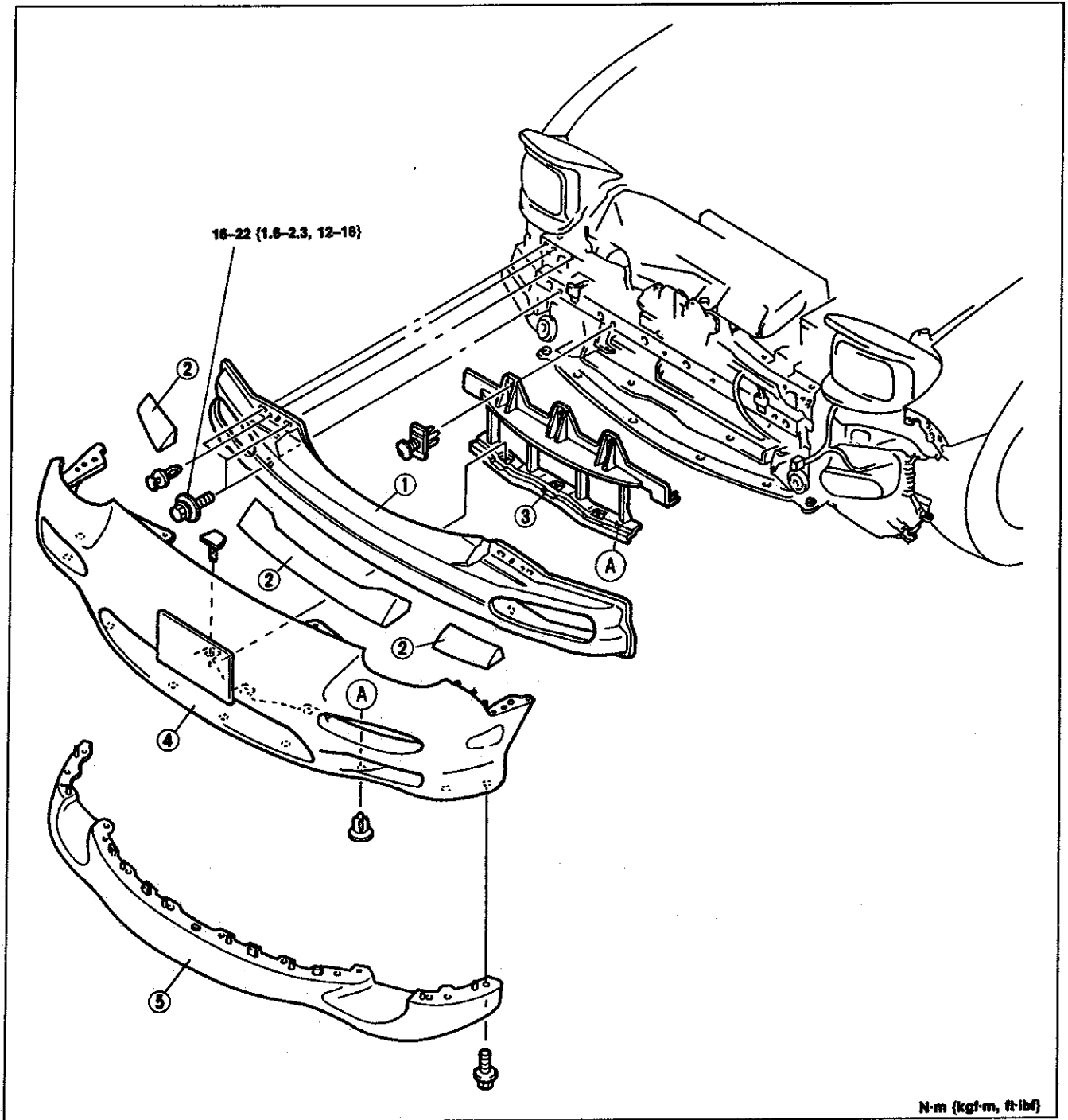


1. Mud guard
2. Front combination light

3. Front bumper
Disassembly / Assembly page S-17

Disassembly / Assembly

1. Disassemble in the order shown in the figure.
2. Assemble in the reverse order of disassembly.



1. Front bumper reinforcement
2. Support foam
3. Air guide

4. Front bumper fascia
5. Front air dam

REAR BUMPER

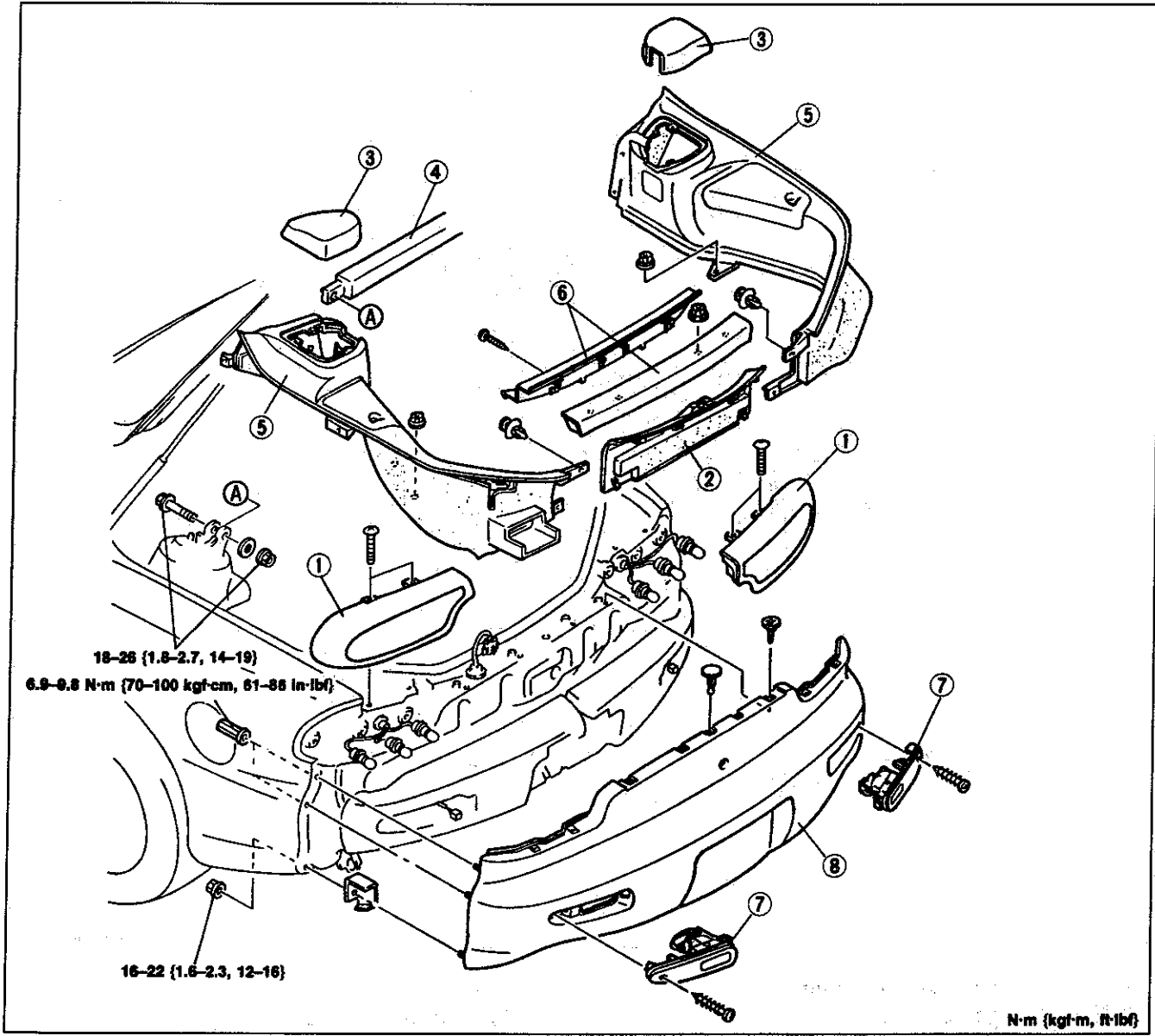
PREPARATION

TORX tool (T30)	For installation / removal of rear bumper
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COMPONENTS

Removal / Installation

1. Disconnect the negative battery cable.
2. Remove in the order shown in the figure. (Refer to the 1994 RX-7 Body Electrical Troubleshooting Manual, section E, when removing the rear combination light, high-mount stoplight, and back-up light.)
3. Install in the reverse order of removal.



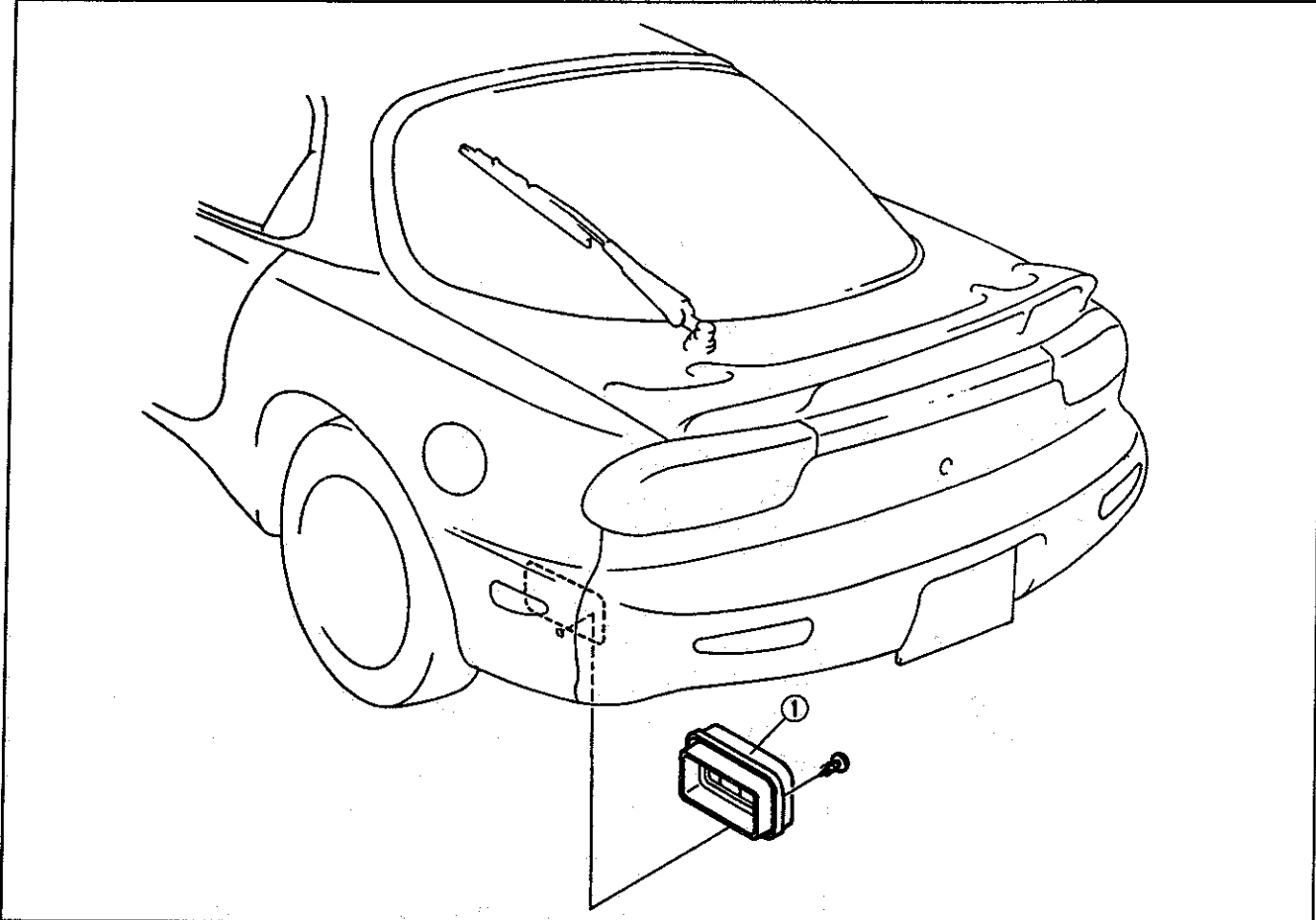
- | | |
|--|--|
| 1. Rear combination light | 5. Trunk side trim |
| 2. Trunk end trim | Removal / Installation page S-55 |
| Removal / Installation page S-55 | 6. High-mount stoplight |
| 3. Suspension tower cover | 7. Back-up light |
| 4. Suspension rear strut bar | 8. Rear bumper |
| | Disassembly / Assembly page S-19 |

EXTRACTOR CHAMBER

COMPONENTS

Removal / Installation



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



1. Extractor chamber

MOLDING

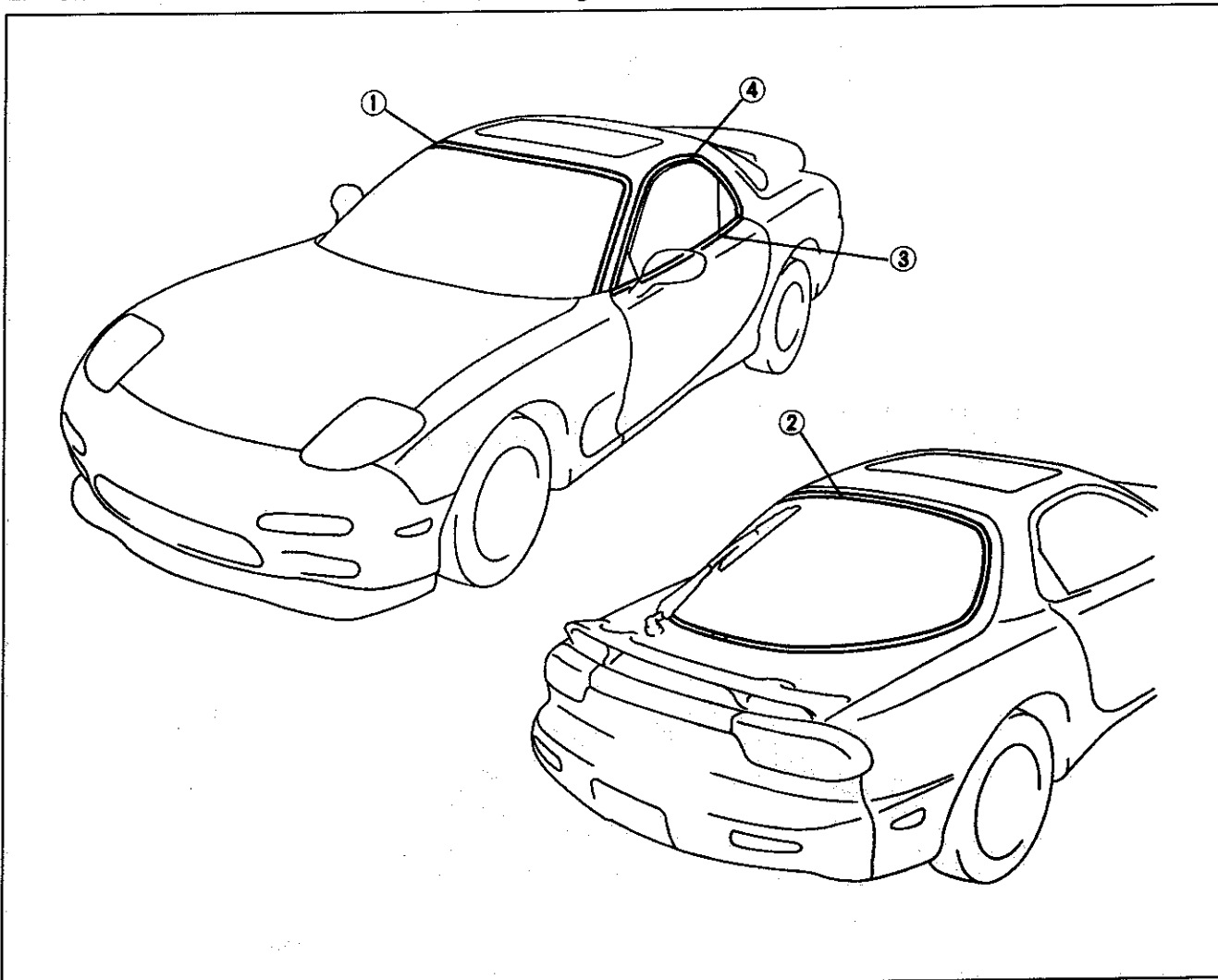
**PREPARATION
SST**

<p>49 0305 870A Tool set, window</p> 	<p>For removal / installation of molding</p>	<p>49 G0501A0 Remover, sealant</p> 	<p>For removal of sealant</p>
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COMPONENTS

Removal / Installation

1. Remove in the order shown in the figure, referring to **Removal Note**.
2. Install in the reverse order of removal, referring to **Installation Note**.

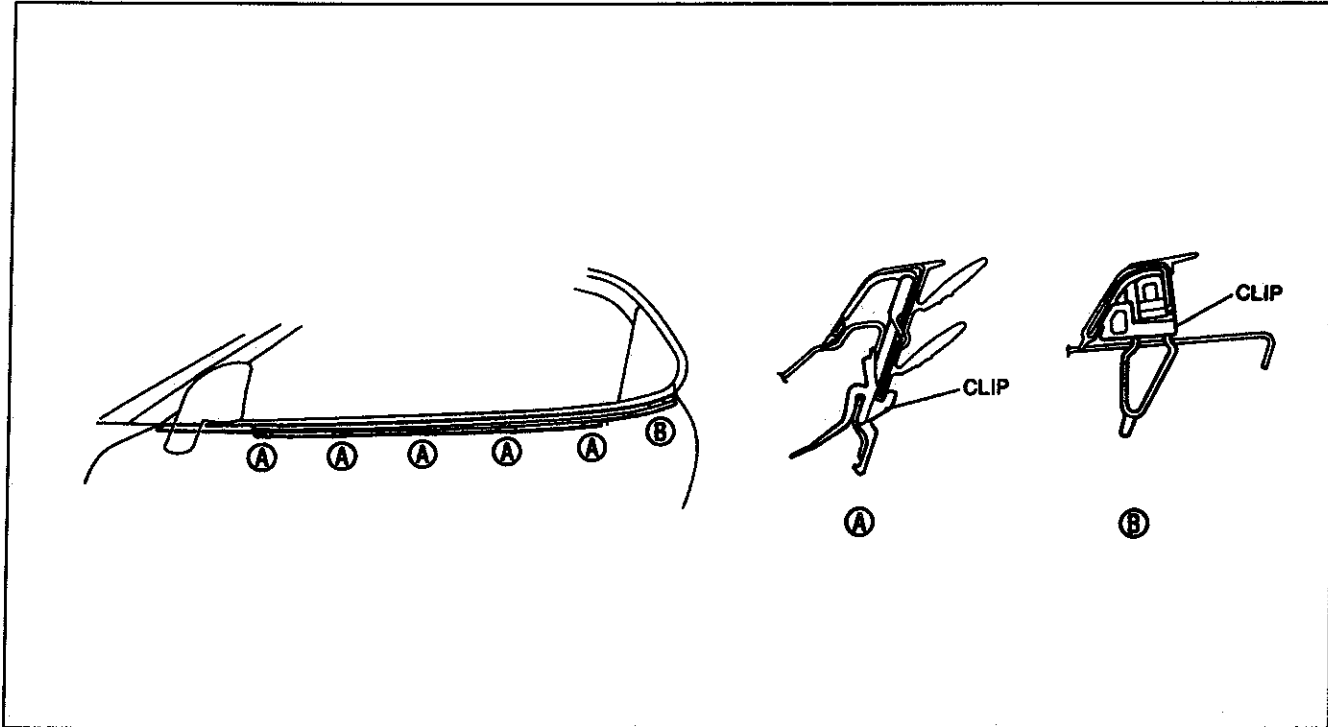


- | | |
|-------------------------|-----------|
| 1. Windshield molding | |
| Removal Note | page S-23 |
| Installation Note | page S-23 |
| 2. Rear hatch molding | |
| Removal Note | page S-23 |
| Installation Note | page S-25 |

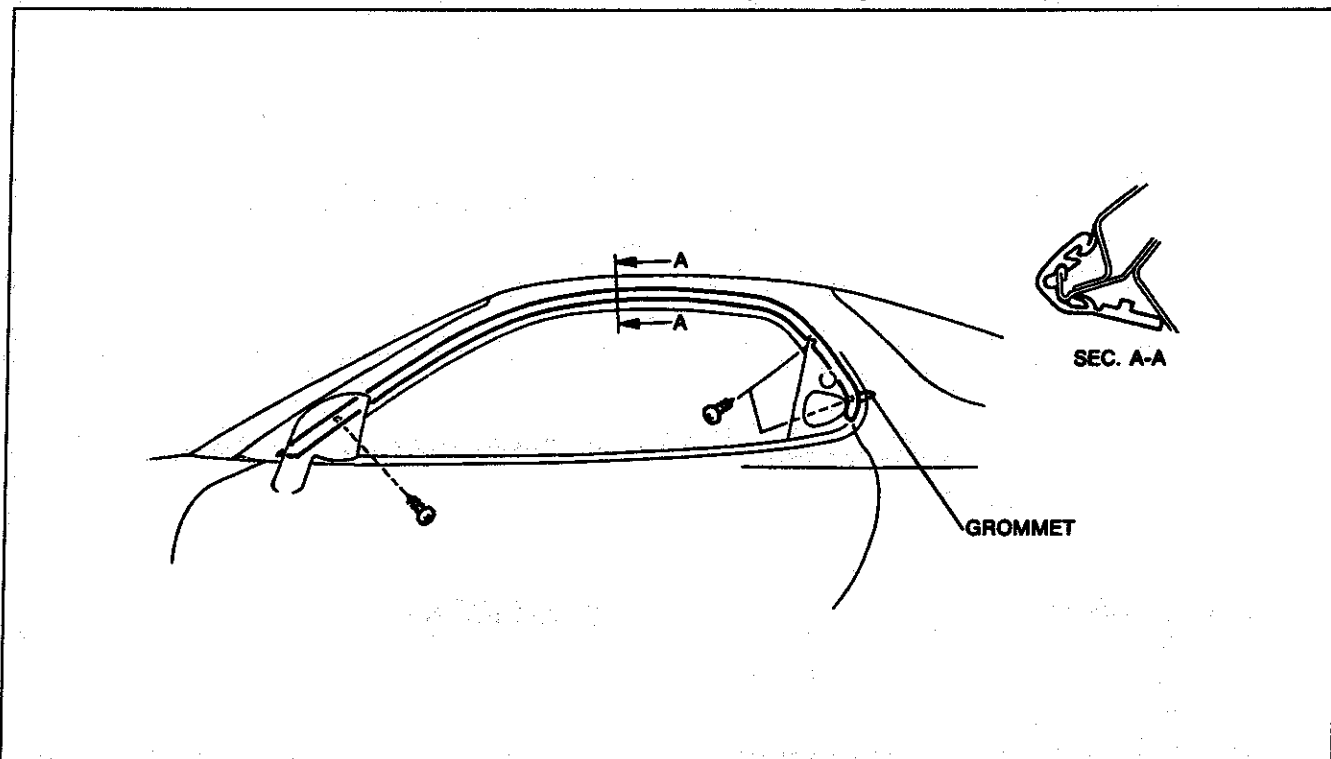
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|---------------------|-----------|
| 3. Beltline molding | |
| Removal Note | page S-22 |
| 4. Drip molding | |
| Removal Note | page S-22 |

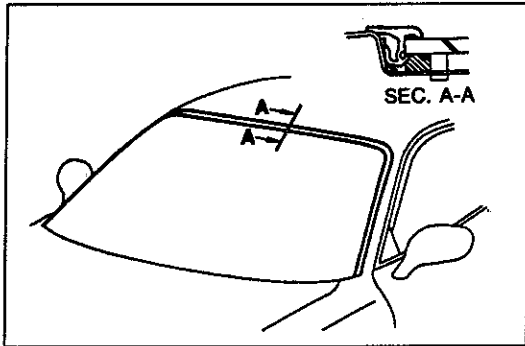
Removal Note**Beltline molding**

1. Lower the door glass fully.
2. Remove the power outside mirror. (Refer to page S-29.)
3. Pull the beltline molding up to disengage the clips from the body.

**Drip molding**

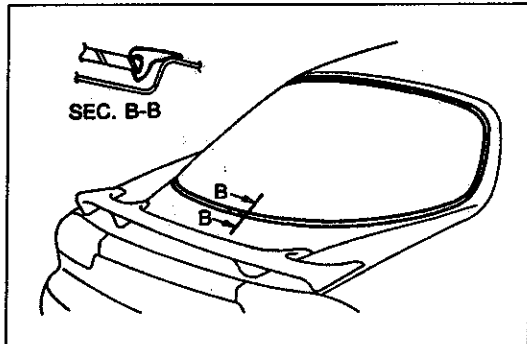
1. Remove the drip molding mounting screws and grommet.
2. Pull the rear of the molding forward and remove the drip molding from the body.





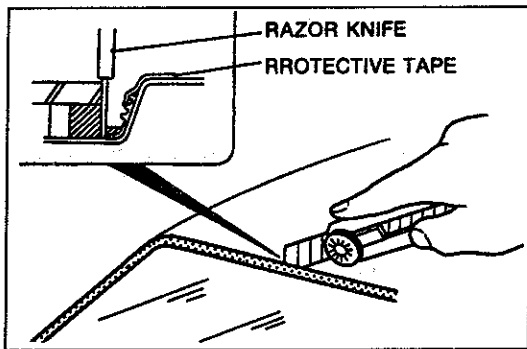
Windshield molding

Lift the edge of the molding and cut the sealant to remove the molding.



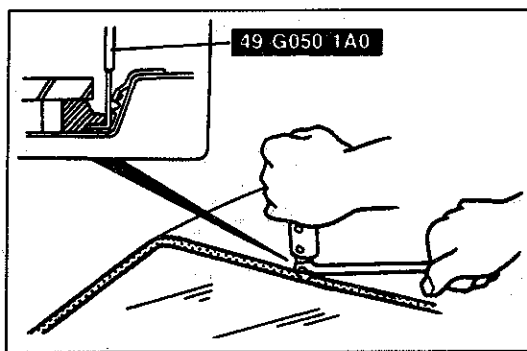
Rear hatch molding

Lift the edge of the molding and cut the sealant to remove the molding.

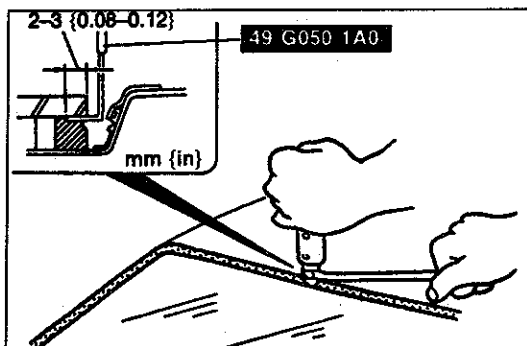


**Installation Note
Windshield molding**

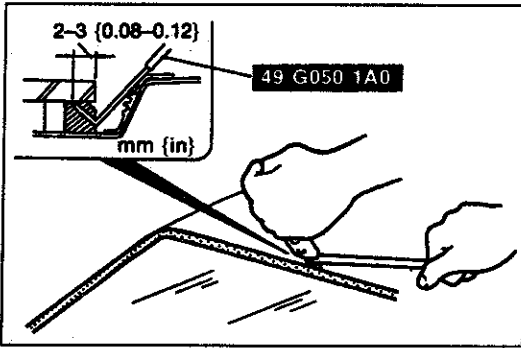
1. Apply protective tape along the edge of the body to protect it from damage.
2. Cut the sealant by using a razor knife as shown.



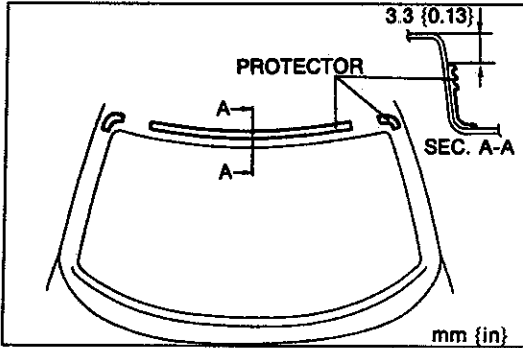
3. Insert the blade of the SST into the sealant, and pull on the bar to cut the sealant near the body as shown.



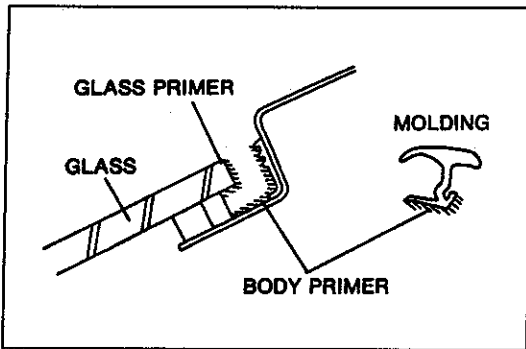
4. Insert the blade of the SST into the sealant, and pull on the bar to cut the sealant under the glass as shown.



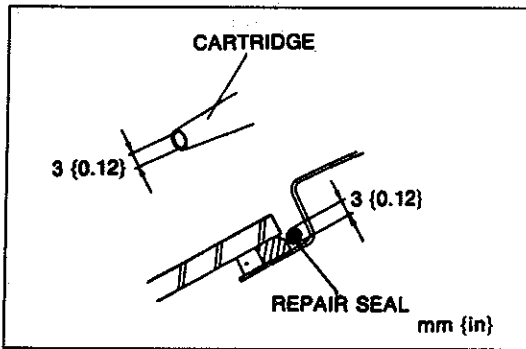
5. Cut the sealant at an angle shown.
6. Remove as much sealant as possible from between the body and the glass.
7. Carefully clean around the edge of the glass and the adhesion surface at the body.



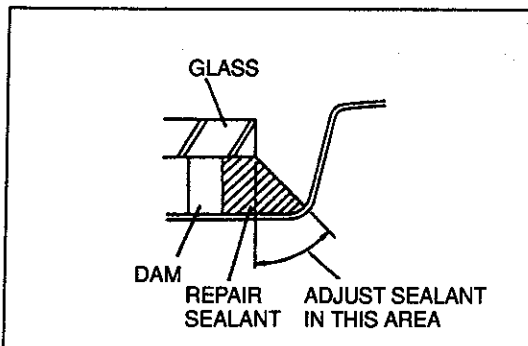
8. If the protector is damaged, bond a new protector onto the body as shown,



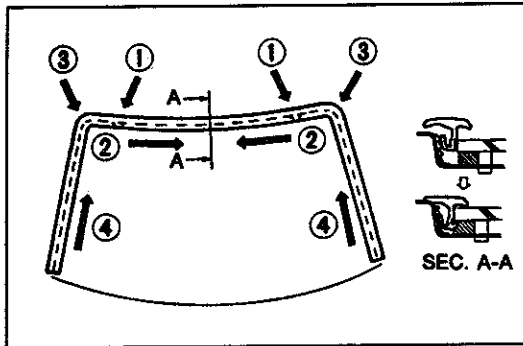
9. Apply primer onto the bonding area of the glass, body, and new windshield molding by using a brush. Use only glass primer on the glass and body primer on the body and molding. Keep the bonding area free of dirt and grease, and do not touch the surface. Allow the primer to dry for approximately 30 minutes.



10. Apply a 3mm {0.12In} bead of repair sealant between the glass and the body.



11. Reshape the repair sealant as shown.



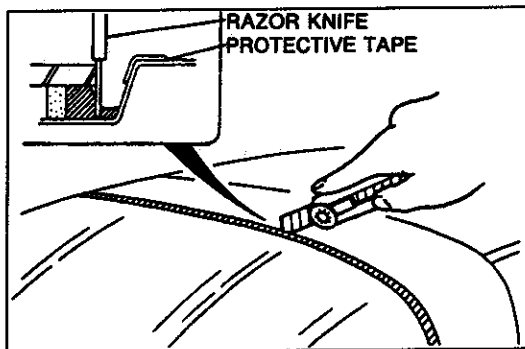
12. Install the molding.

- ① Align the white marks on the molding with the marks on the glass.
- ② Install the upper part of the molding.
- ③ Install the corner parts of the molding.
- ④ Install the side parts of the molding, starting from the bottom and working toward the top.

Hardening time of repair sealant

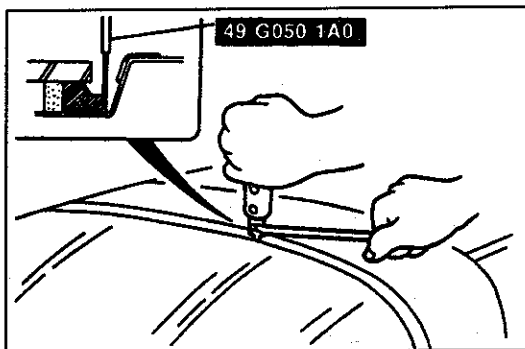
Temperature	Surface hardening time	Time required until car can be put into service
5°C (41°F)	Approx. 1.5 hr	12 hr
20°C (68°F)	Approx. 1hr	4 hr
35°C (95°F)	Approx. 10 min	2 hr

13. Check for water leaks. If a leak is found, wipe the water off well and repeat the installation.

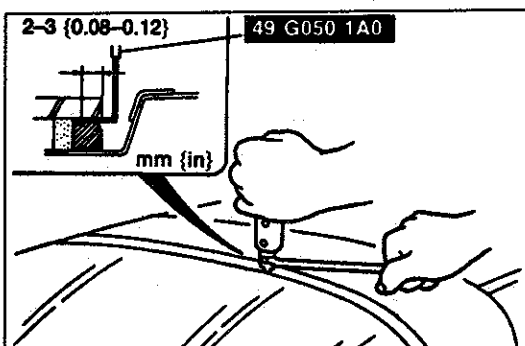


Rear hatch molding

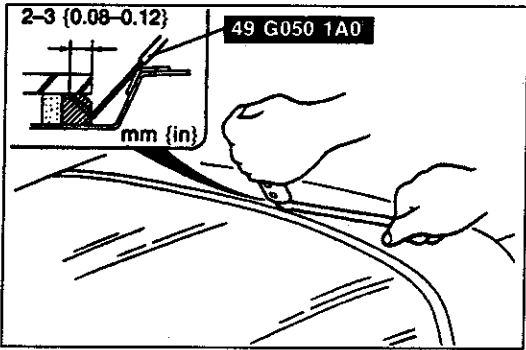
- 1. Apply protective tape along the edge of the hatch to protect it from damage.
- 2. Cut the sealant by using a razor knife as shown.



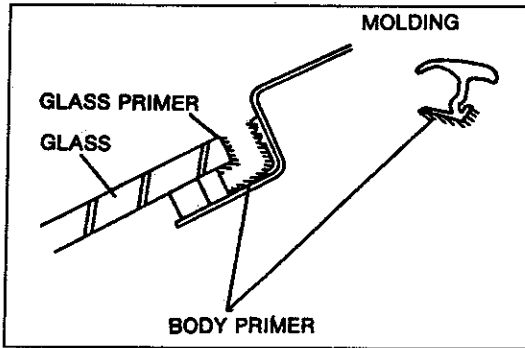
- 3. Insert the blade of the SST into the sealant and pull on the bar to cut the sealant near the hatch as shown.



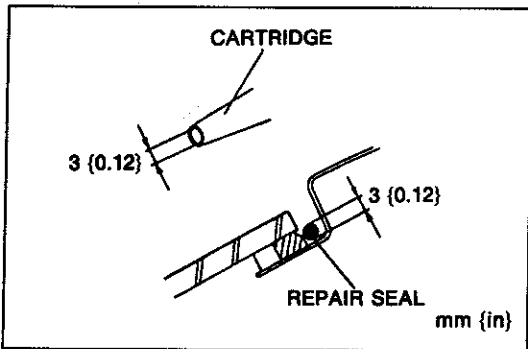
- 4. Insert the blade of the SST into the sealant and pull on the bar to cut the sealant under the glass as shown.



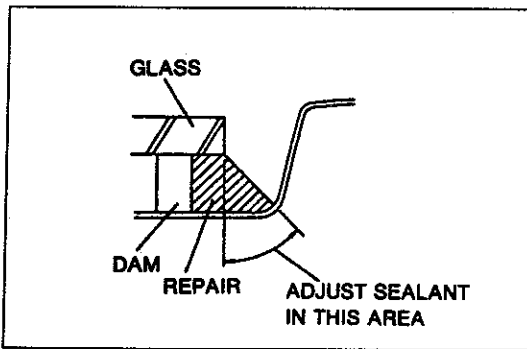
5. Insert the blade of the SST into the sealant and pull on the bar to cut the sealant at an angle as shown.



6. Brush primer onto the bonding area of the glass, rear hatch, and new rear hatch molding. Use only glass primer on the glass and body primer on the hatch and molding. Keep the area free of dirt and grease, and do not touch the surface. Allow the primer to dry for approximately 30 minutes.



7. Apply a 3mm {0.12in} bead of repair sealant between the glass and the rear hatch.

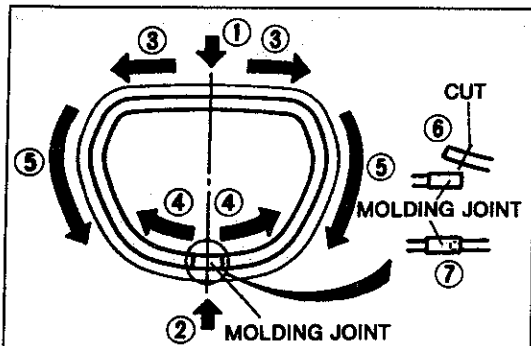


8. Reshape the repair sealant as shown.
 9. Install the molding while the repair sealant is soft.
- ① Align the white mark on the molding with that on the upper part of the glass.
 - ② Align the mark on the lower part of the glass with the molding joint.
 - ③ Install the upper part of the molding.
 - ④ Install the lower part of the molding.
 - ⑤ Install the side parts of the molding, starting from the top and working toward the bottom.
 - ⑥ Cut the molding to fit securely into the molding joint.
 - ⑦ Insert the molding into the molding joint.

Hardening time of repair sealant

Temperature	Surface hardening time	Time required until car can be put into service
5°C {41°F}	Approx. 1.5 hr	12 hr
20°C {68°F}	Approx. 1hr	4 hr
35°C {95°F}	Approx. 10 min	2 hr

10. Check for water leaks. If a leak is found, wipe the water off well and repeat the installation.

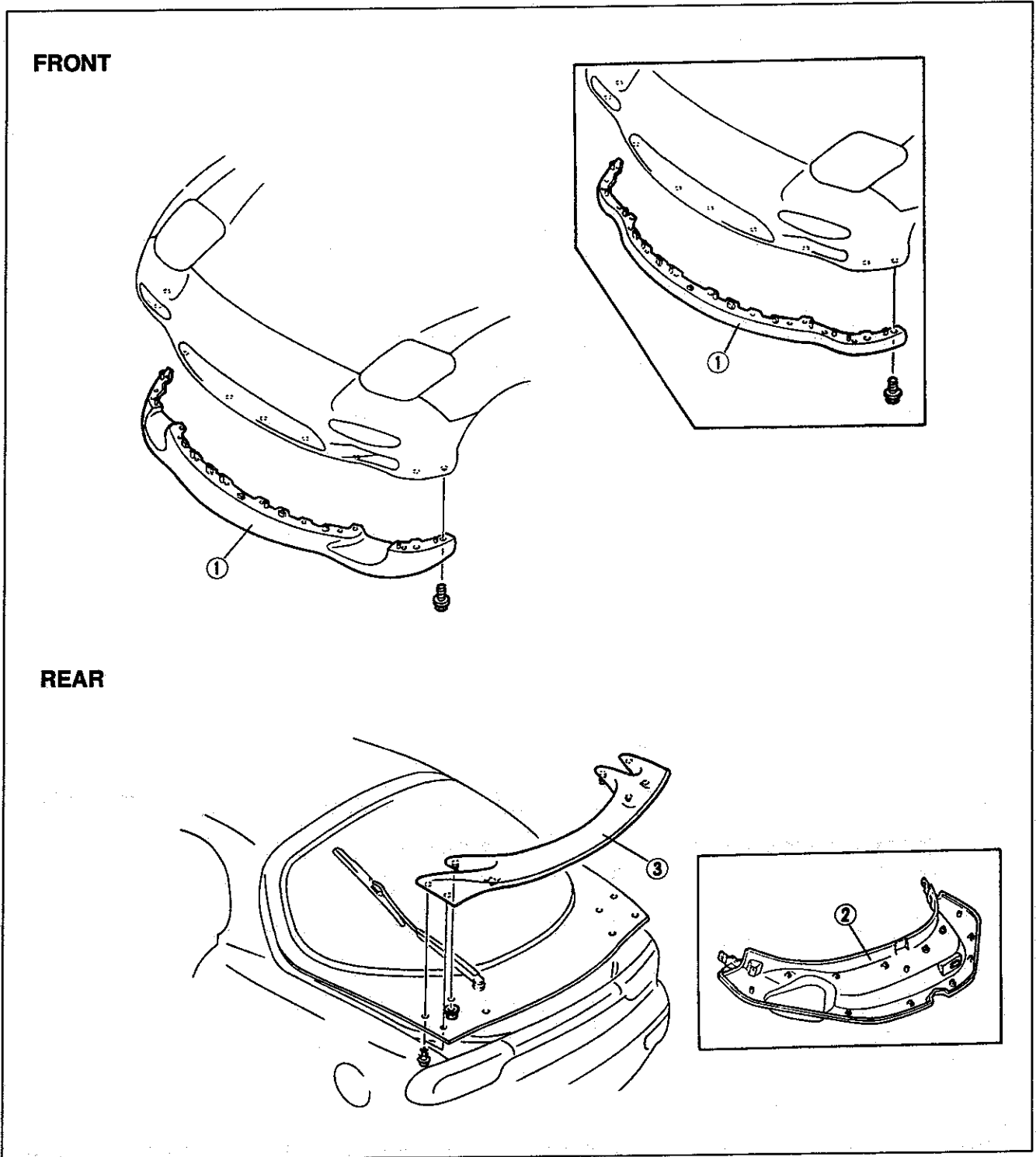


SPOILER

COMPONENTS

Removal / Installation

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



Front air dam
1. Front air dam

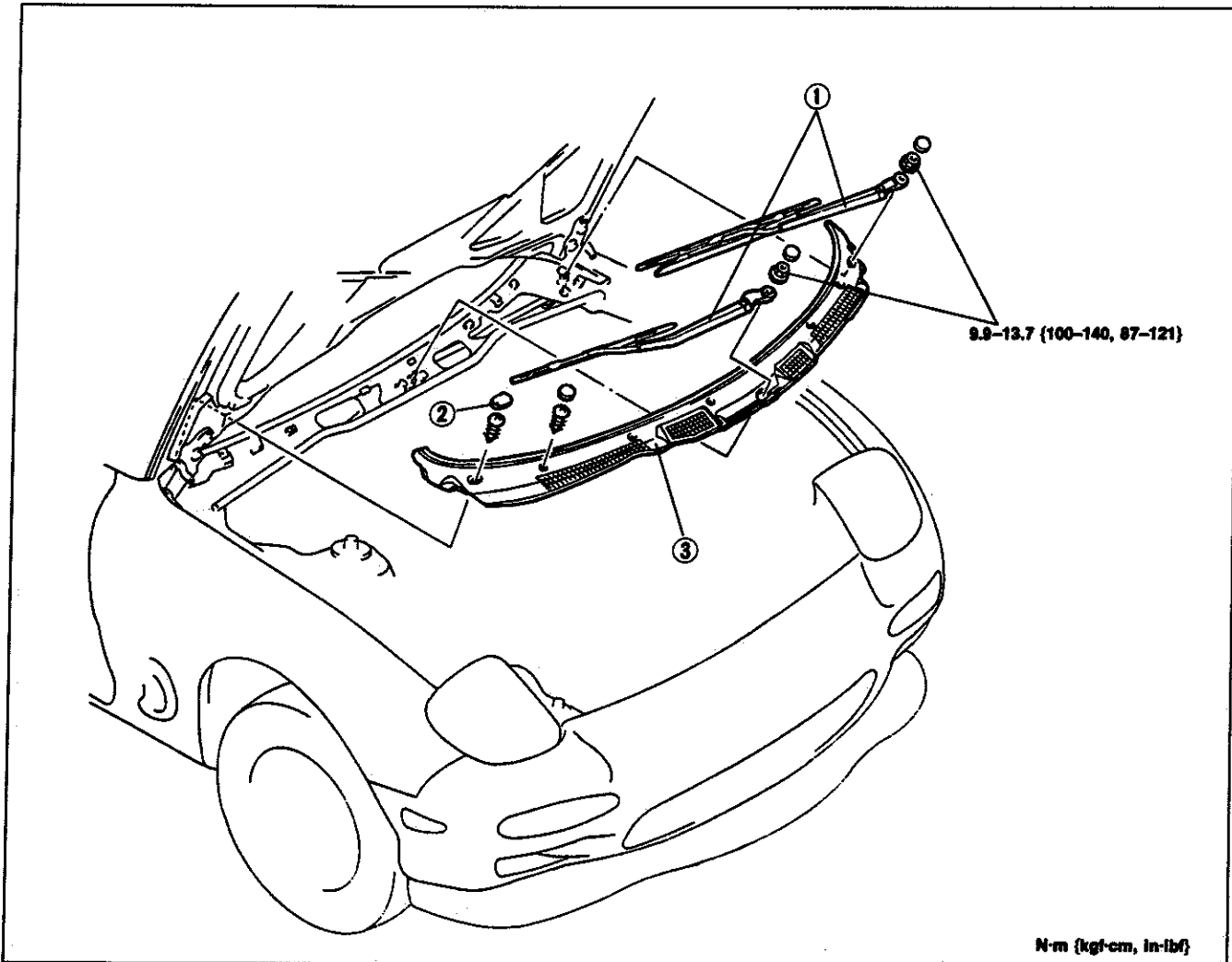
Rear spoiler
2. Rear hatch lower trim
Removal / Installation page S-55
3. Rear spoiler

COWL GRILLE

COMPONENTS

Removal / Installation

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



1. Windshield wiper arm and blade
Adjustment page S-34

2. Cowl cap
3. Cowl grille

POWER OUTSIDE MIRROR

COMPONENTS

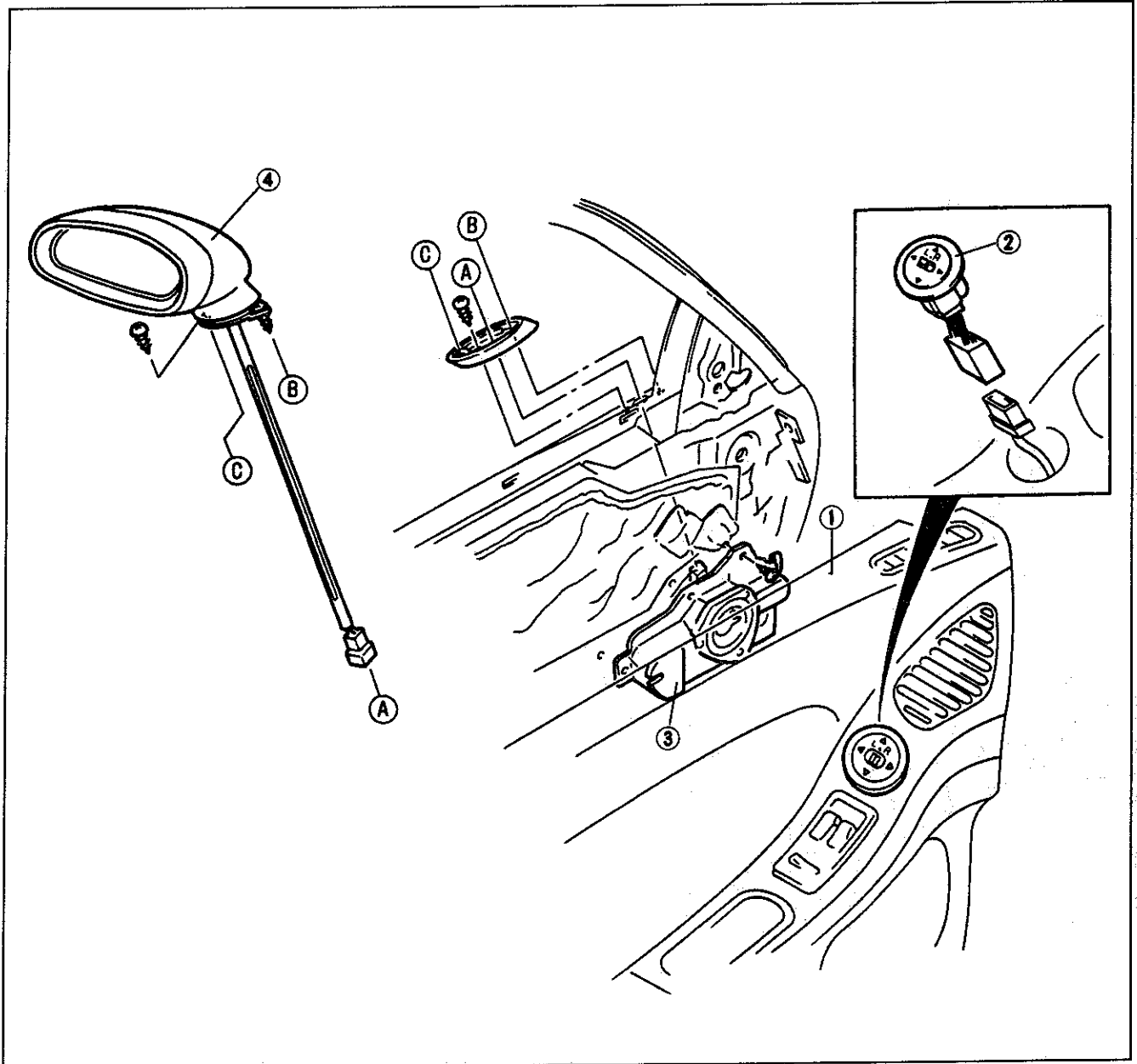
Removal / Installation

1. Disconnect the negative battery cable.

Note

- Remove the plastic surrounding the harness carefully so that it may be reused.

2. Remove in the order shown in the figure. (Refer to the 1994 RX-7 Body Electrical Troubleshooting Manual, section J1, when removing the door speaker.)
3. Install in the reverse order of removal.

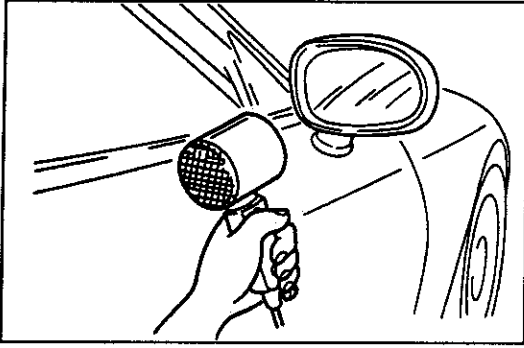


1. Door trim
Removal / Installation page S-55
2. Power outside mirror switch

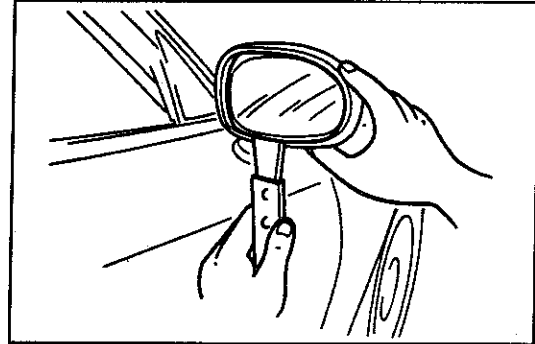
3. Door speaker
4. Power outside mirror
Replacement of mirror glass
..... page S-30

Replacement of Mirror Glass

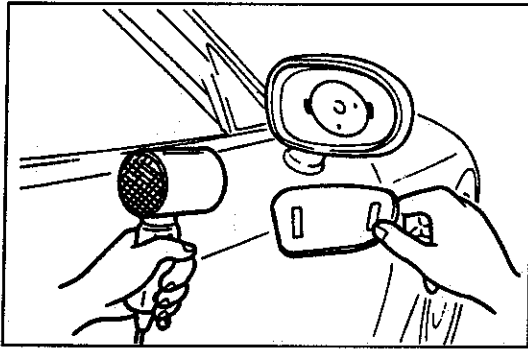
1. Warm the frame and the mirror glass by using a hot air blower.



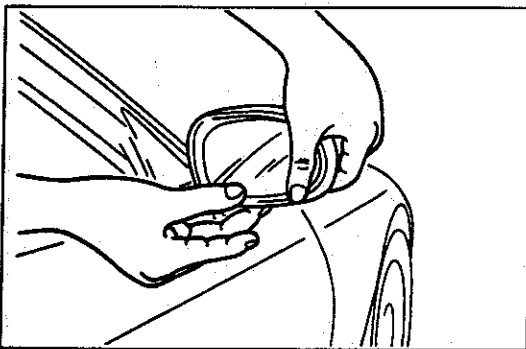
2. Insert a scraper between the mirror glass and the frame, and pry the glass loose.



3. Remove the remaining adhesive.



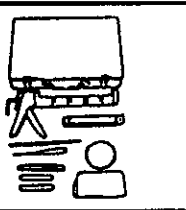
4. Warm the adhesive surface of the frame and the mirror by using a hot air blower.



5. Install the glass on the frame and gently press on the glass to secure it.

REARVIEW MIRROR

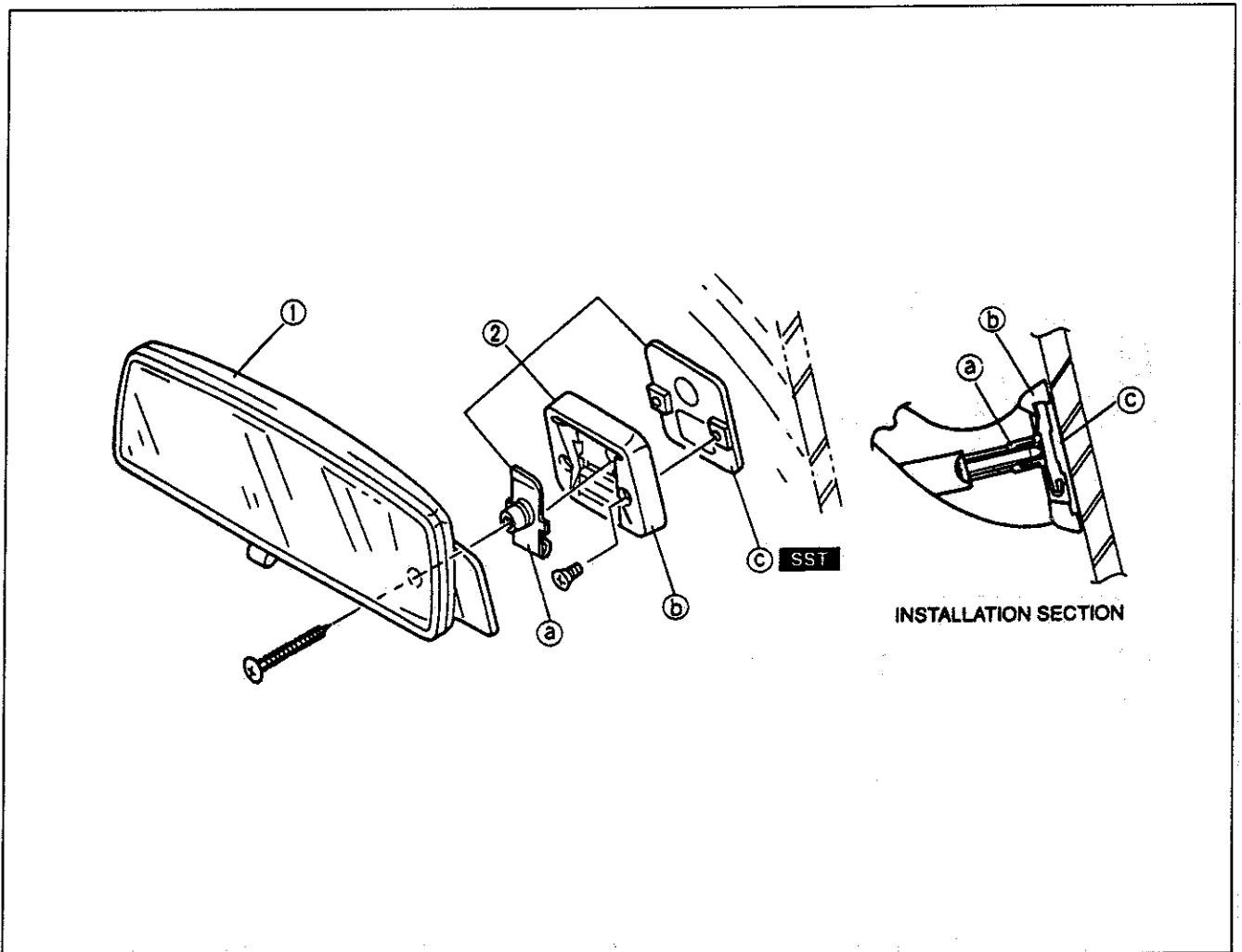
PREPARATION
SST

<p>49 0305 870A Tool set, window</p>		<p>For removal / installation of mirror base</p>
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COMPONENTS

Removal / Installation

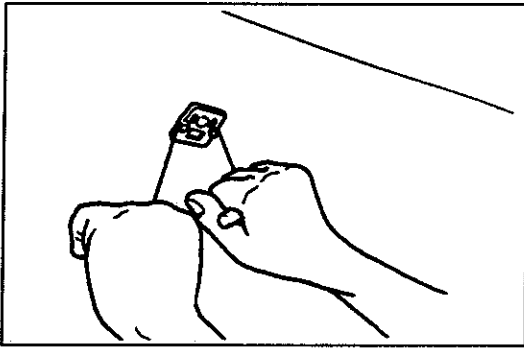
1. Remove in order shown in the figure, referring to **Removal Note**.
2. Install in the reverse order of removal, referring to **Installation Note**.



1. Rearview mirror

2. Mirror base assembly

- a. Holder
Installation Note page S-32
- b. Cover
- c. Base
Removal Note page S-32
Installation Note page S-32



Removal Note

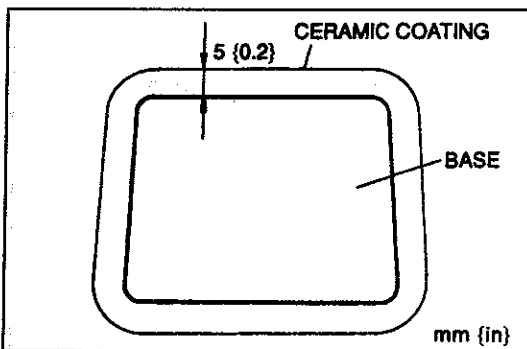
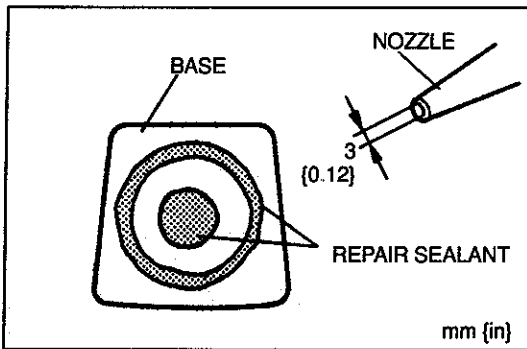
Base

1. Wind each end of the wire around a bar.
2. Saw through the sealant. Use a long sawing action to spread the work over the whole length of the wire to prevent it from breaking.
3. Remove the base.

Installation Note

Base

1. Cut away all of the original sealant by using a razor knife.
2. Clean and degrease the glass.
3. Apply primer to the glass and base. Use only glass primer on the glass and body primer on the base. Keep the area free of dirt and grease, and do not touch the surface. Allow the primer to dry for approximately 30 minutes.
4. Apply a 3 mm {0.12 in} bead of repair sealant on the base.
5. Center the base in the ceramic coating and press it onto the glass.



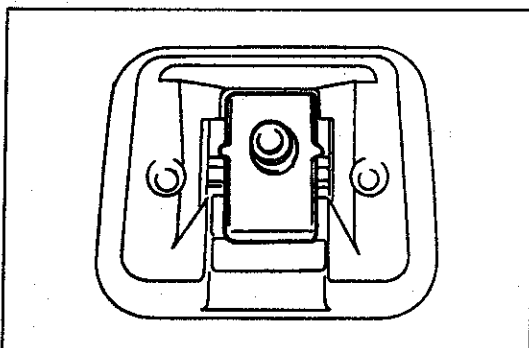
6. Remove any excessive repair sealant with ethyl alcohol before the sealant has hardened.

Hardening time of repair sealant

Temperature	Surface hardening time	Time required until car can be put into service
5°C {41°F}	Approx. 1.5 hr	12 hr
20°C {68°F}	Approx. 1hr	4 hr
35°C {95°F}	Approx. 10 min	2 hr

Holder

Install the holder on the cover as shown in the figure.

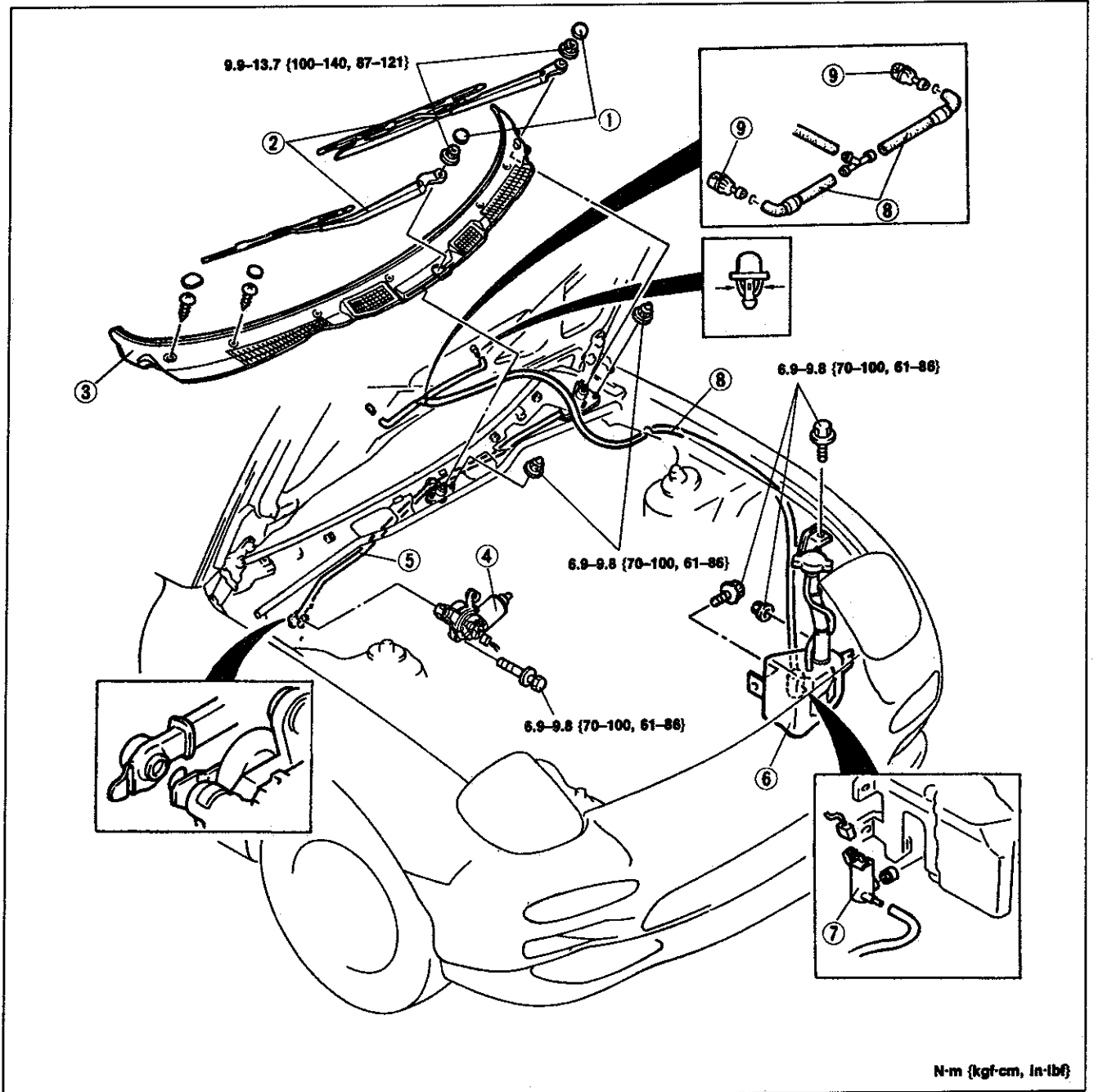


WINDSHIELD WIPER AND WASHER

COMPONENTS

Removal / Installation

1. Disconnect the negative battery cable.
2. Remove in the order shown in the figure.
3. Install in the reverse order of removal.

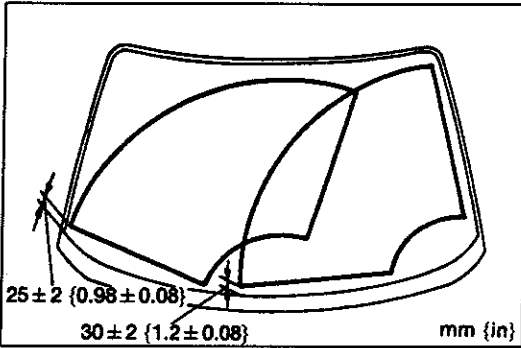


Windshield wiper

1. Wiper arm cover
2. Wiper arm and blade
 - Adjustment page S-34
 - Installation Note page S-34
3. Cowl grille
4. Wiper motor
 - Disassembly / Assembly page S-35
5. Wiper link

Windshield washer

6. Washer tank
7. Washer motor
8. Washer pipe
9. Washer nozzle
 - Adjustment page S-34



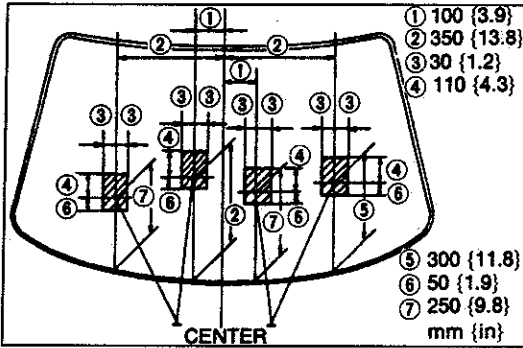
Adjustment

Windshield wiper arm and blade

1. Operate the wipers once to set them in the park position.
2. Set the height of the wiper arms as shown.

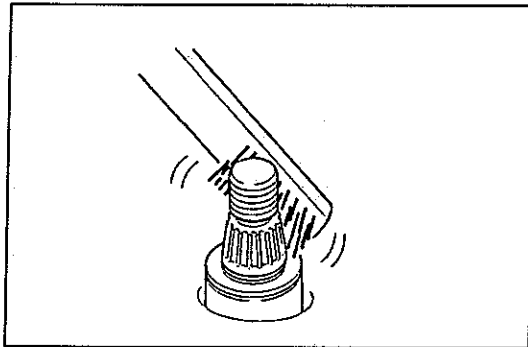
Tightening torque:

9.9–13.7 N·m {100–140 kgf·cm, 87–121 in·lbf}



Windshield washer nozzle

Insert a needle or similar object into the nozzle hole and move the nozzle to adjust the spray direction.



Installation Note

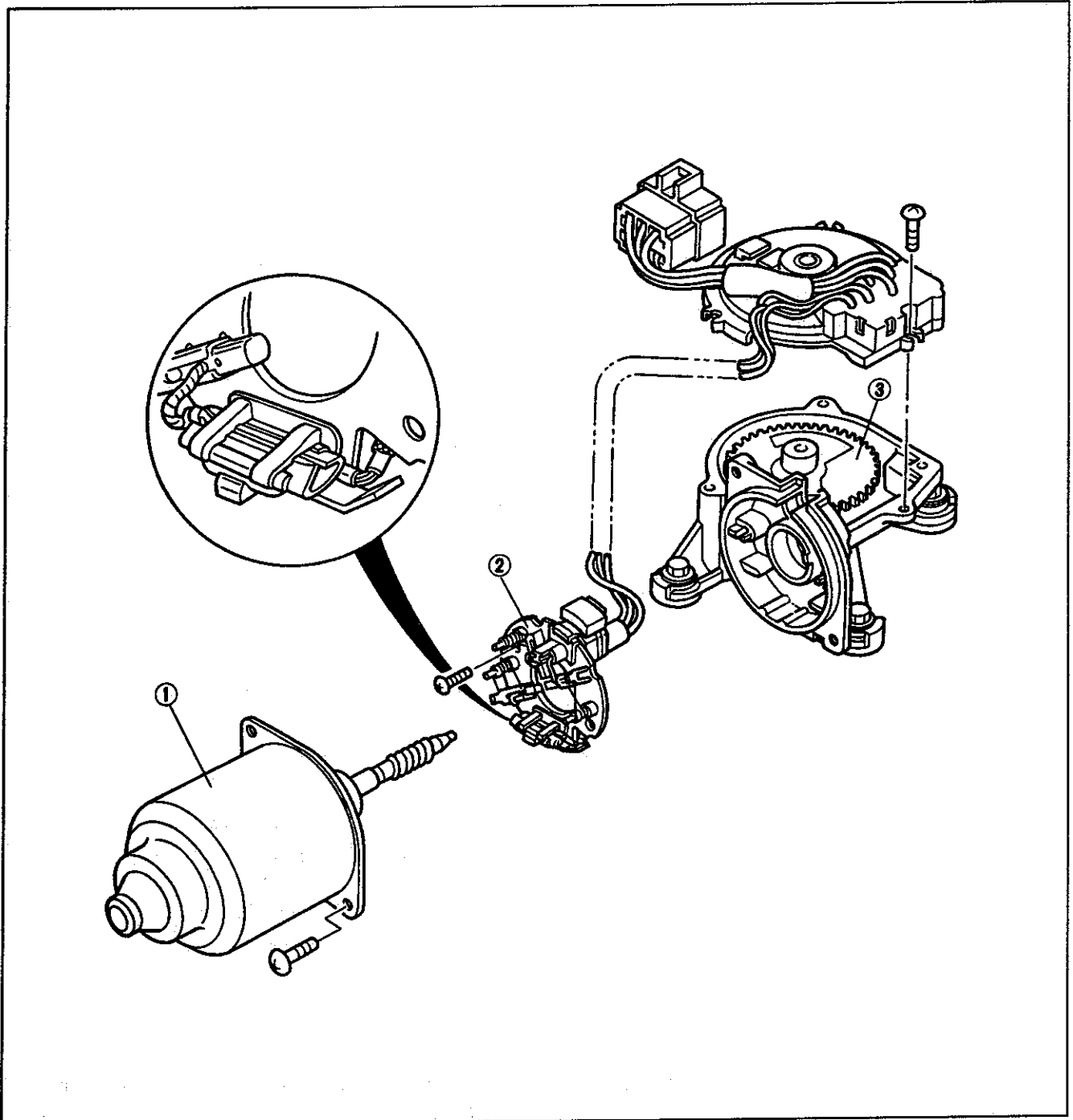
Wiper arm and blade

Clean the wiper arm connector shafts with a wire brush before installing the wiper arms.

WINDSHIELD WIPER MOTOR

Disassembly / Assembly

1. Disassemble in the order shown in the figure.
2. Assemble in the reverse order of disassembly.



1. Wiper motor
2. Brush plate holder

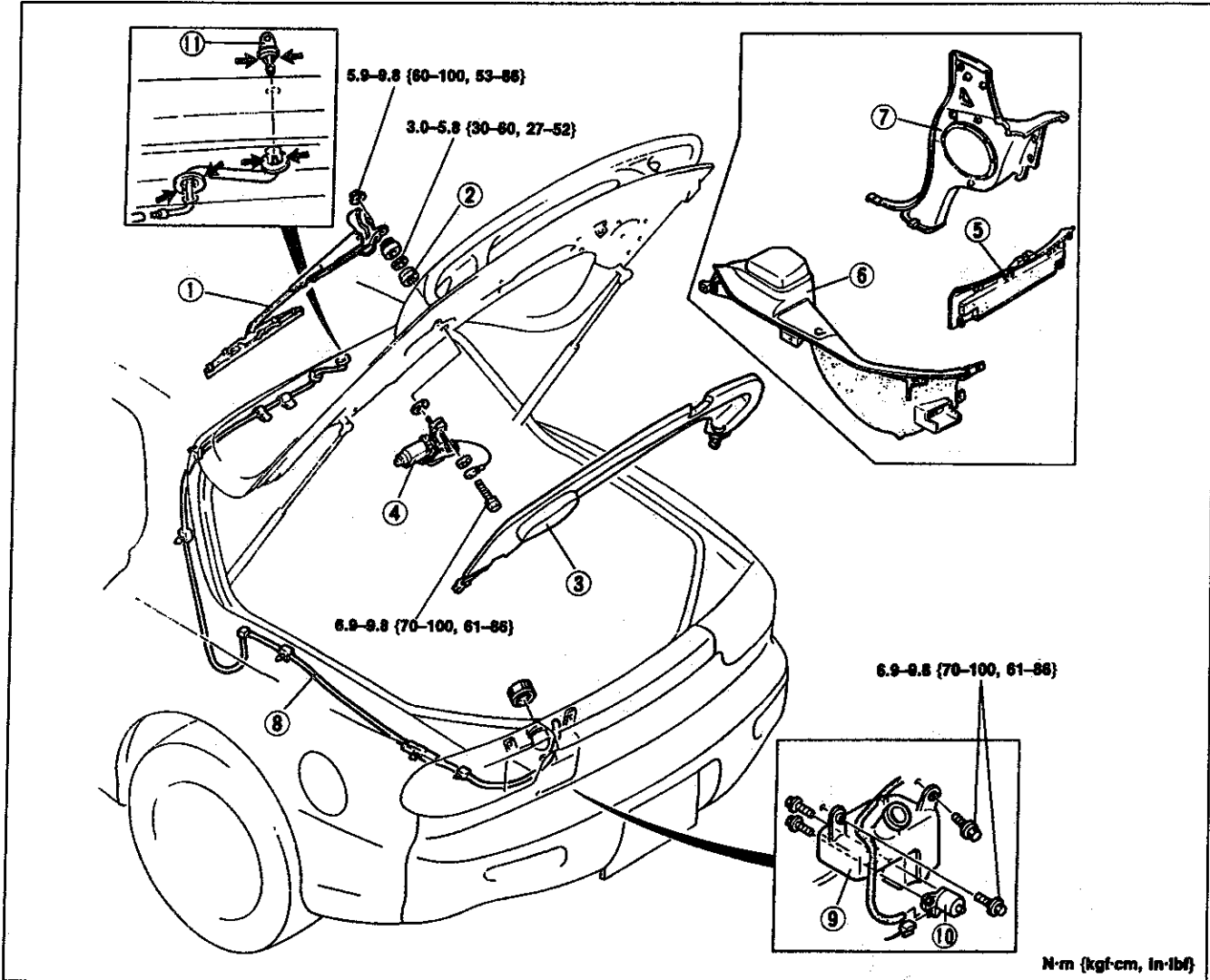
3. Motor gear shaft

REAR WIPER AND WASHER

COMPONENTS

Removal / Installation

1. Disconnect the negative battery cable.
2. Remove in the order shown in the figure. To remove the rear washer pipe, remove the rear hatch upper trim. (Refer to page S-55.)
3. Install in the reverse order of removal.



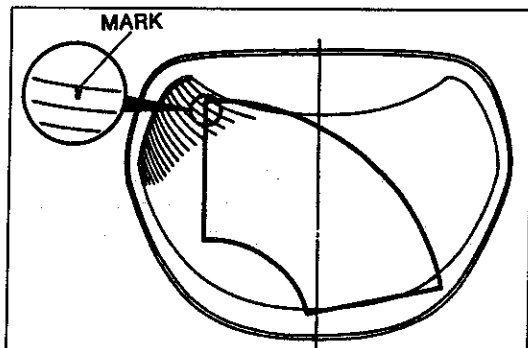
Rear wiper

1. Wiper arm and blade
Adjustment page S-37
Installation Note page S-37
2. Outer bushing
3. Rear hatch lower trim
Removal / Installation page S-55
4. Wiper motor

6. Trunk side trim
Removal / Installation page S-55
7. Quarter trim
Removal/Installation page S-55
8. Washer pipe
9. Washer tank
10. Washer motor
11. Washer nozzle
Adjustment page S-37

Rear washer

5. Trunk end trim
Removal / Installation page S-55



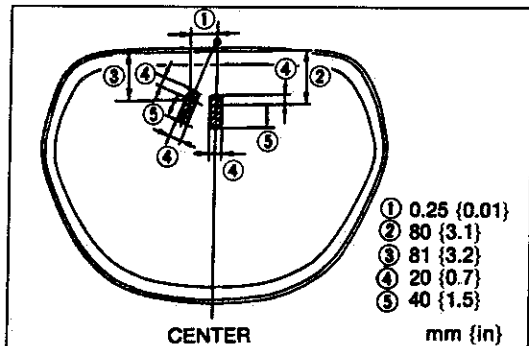
Adjustment

Rear wiper arm and blade

1. Operate the wiper once to set it in the park position.
2. Align the wiper arm with the mark on the glass as shown.

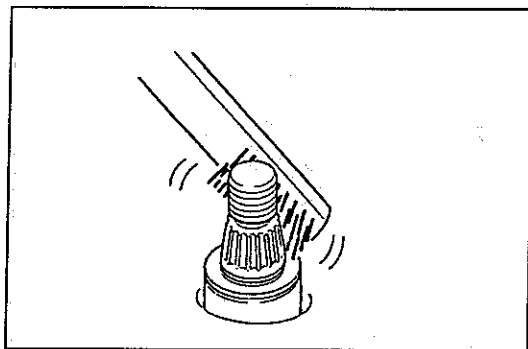
Tightening torque:

5.9–9.8 N·m {60–100 kgf·cm, 53–86 in·lbf}



Rear washer nozzle

Insert a needle or similar object into the nozzle hole and move the nozzle to adjust the spray direction.



Installation Note

Wiper arm and blade

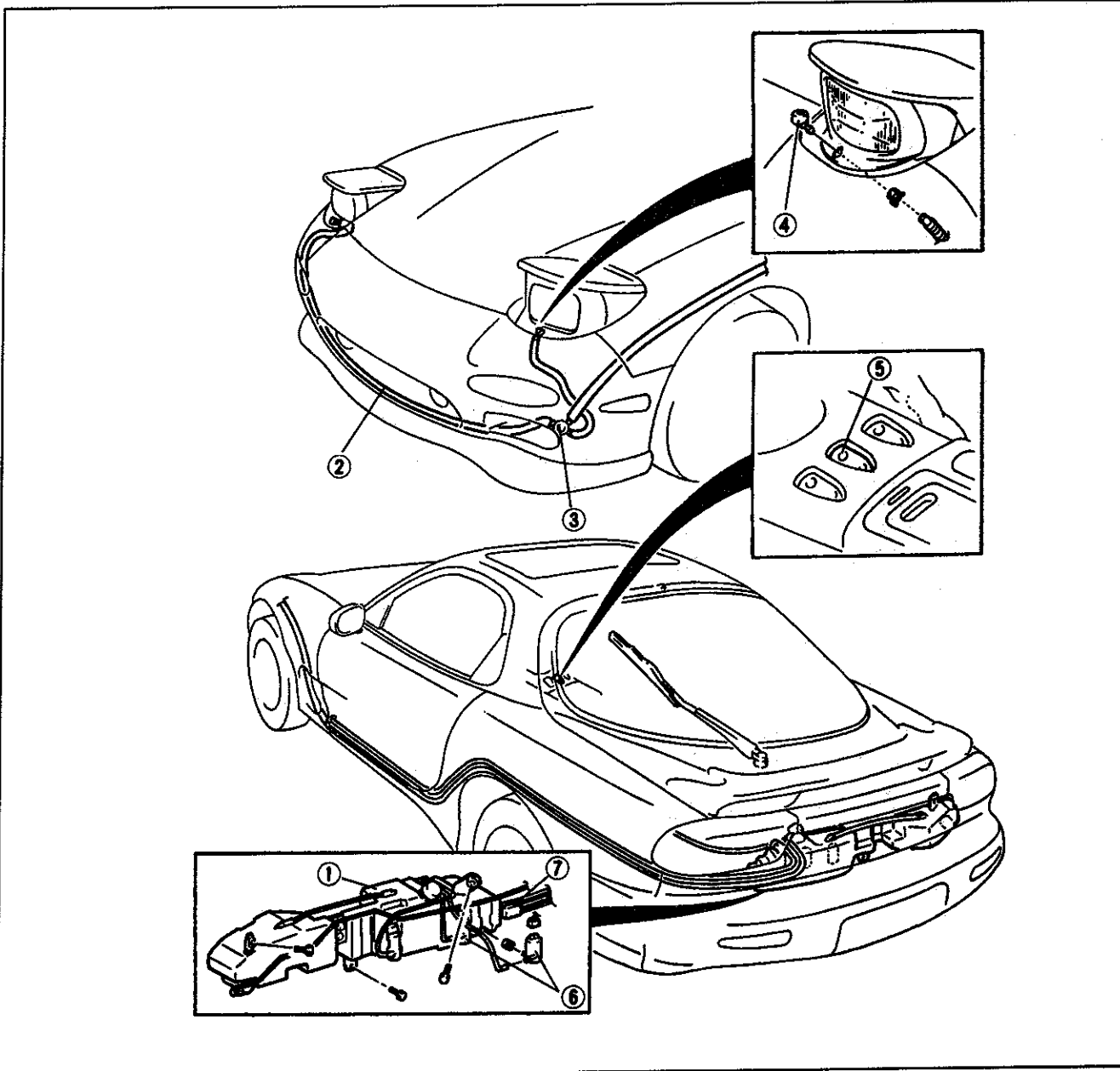
Clean the wiper arm connector shaft with a wire brush before installing the wiper arm.

HEADLIGHT CLEANER

COMPONENTS

Removal / Installation

1. Disconnect the negative battery cable.
2. Remove in the order shown in the figure. To remove the pipe assembly, remove the front bumper (page S-16) and floor covering (page S-59). To remove the headlight cleaner switch, remove the console panel. (Refer to page S-53.) To remove the headlight cleaner motor and relay, remove the trunk end trim and trunk side trim. (Refer to page S-55.)
3. Install in the reverse order of removal.

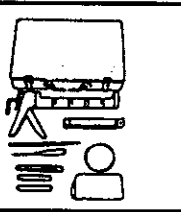


1. Washer tank assembly
2. Pipe assembly
3. Check valve
4. Cleaner nozzle

5. Headlight cleaner switch
6. Headlight cleaner motor
7. Headlight cleaner relay

WINDSHIELD

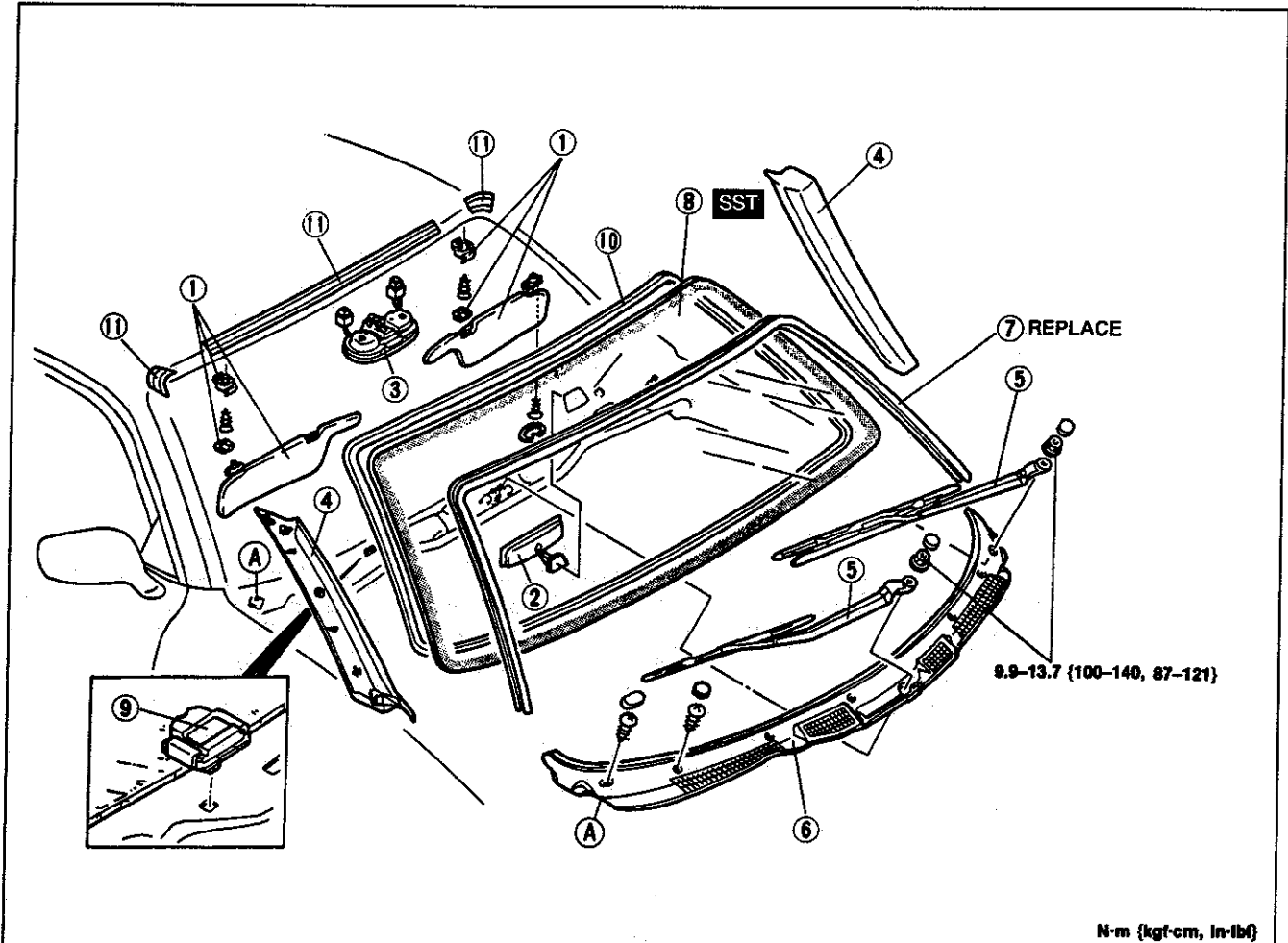
PREPARATION
SST

<p>49 0305 870A Tool set, window</p>		<p>For removal / installation of windshield</p>
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COMPONENTS

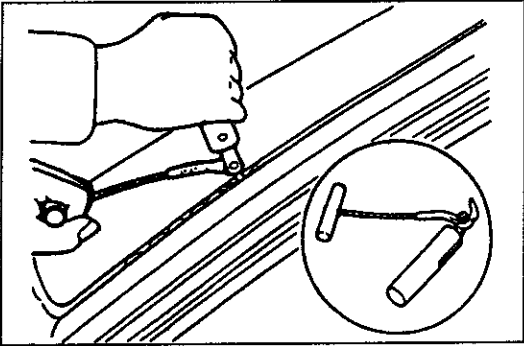
Removal / Installation

1. Disconnect the negative battery cable.
2. Remove in the order shown in the figure, referring to Removal Note.
3. Install in the reverse order of removal, referring to Installation Note.



- 1. Sunvisor and adapter
- 2. Rearview mirror
- 3. Overhead console
- 4. A-pillar trim
Removal / Installation page S-55
- 5. Windshield wiper arm and blade
Adjustment page S-34
- 6. Cowl grille

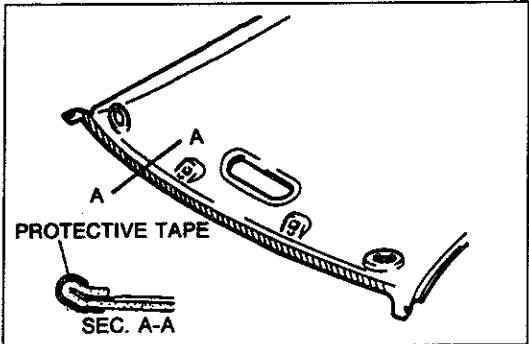
- 7. Windshield molding
Removal / Installation page S-21
- 8. Windshield
Removal Note page S-40
Installation Note page S-40
- 9. Spacer
- 10. Dam
- 11. Protector



Removal Note Windshield

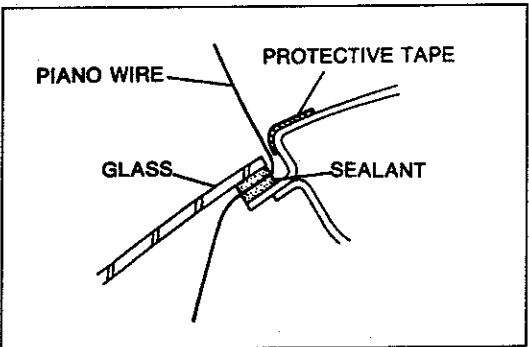
If the glass will not be reused

1. Use a tool like that shown in the figure and insert the blade into the sealant.
2. Pull through the sealant around the edge of the glass.
3. If the protector is damaged, remove it.
4. Remove the glass.

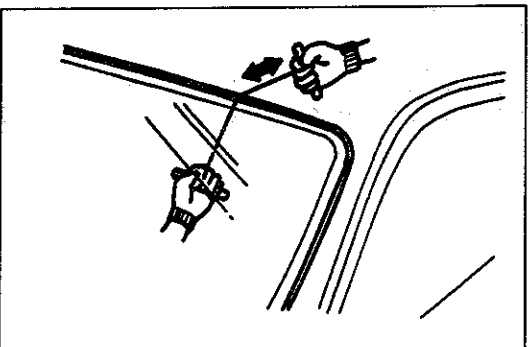


If the glass will be reused

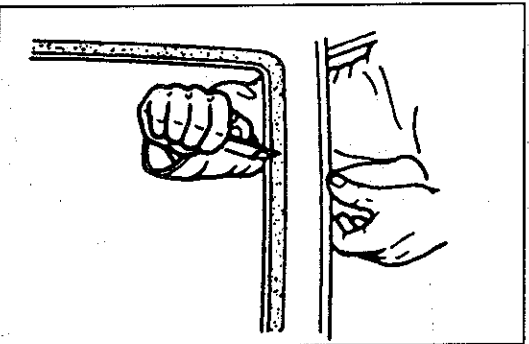
1. Apply protective tape along the front edge of the headliner to protect it from damage.



2. Apply protective tape along the edge of the body to protect it from damage.
3. Make a hole through the sealant from the inside of the vehicle by using an awl.
4. Pass piano wire through the hole.

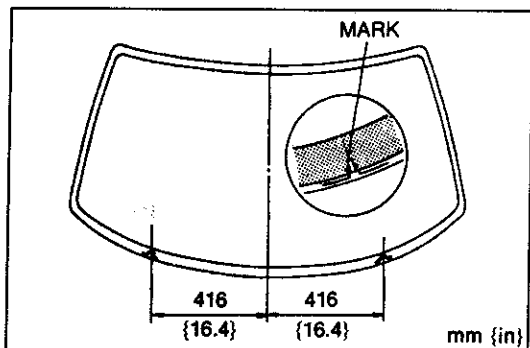


5. Wind each end of the wire around a bar.
6. Working with another person, saw through the sealant around the edge of the glass. Use a long sawing action to spread the work over the whole length of wire to prevent it from breaking.
7. Remove the glass.

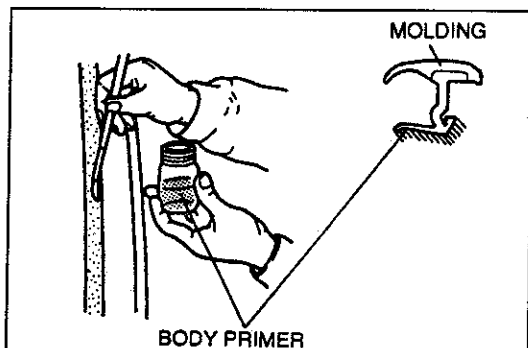


Installation Note Windshield

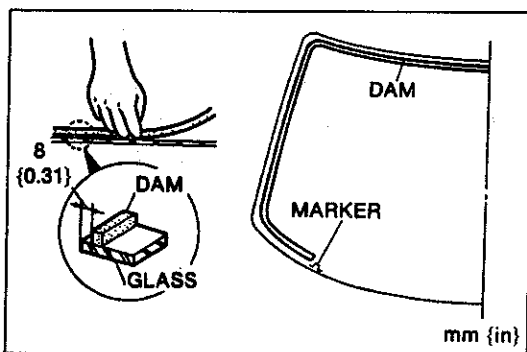
1. Cut away the old sealant by using a razor knife so that approximately 2 mm {0.08 in} of sealant remains around the circumference of the frame. If all the sealant has come off in any one place, apply some primer after degreasing, and allow it 30 minutes to dry. Then apply new sealant to create a 2mm {0.08in} layer.
2. Carefully clean an area 5 cm {1.97 in} wide around the circumference of the glass and clean the bonding area on the body.



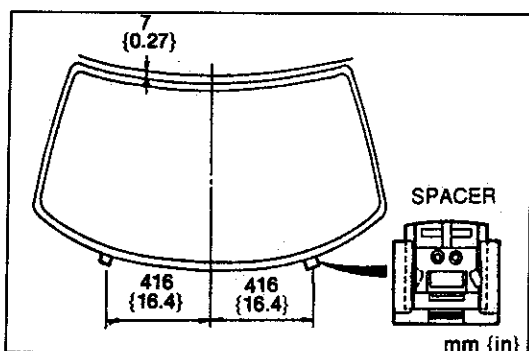
3. Mark the outer edge of the glass with a marking pen to ensure proper reinstallation.



4. Apply primer with a brush to the bonding area of the glass and the body. Keep the area free of dirt and grease, and do not touch the surface. Allow it to dry for approximately 30 minutes.



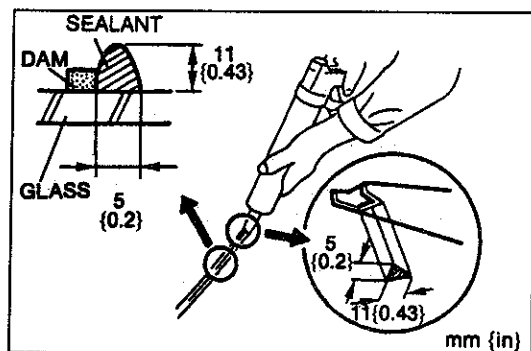
5. Securely bond a new dam along the circumference of the glass 8mm {0.31in} from the edge. Allow it to dry completely.



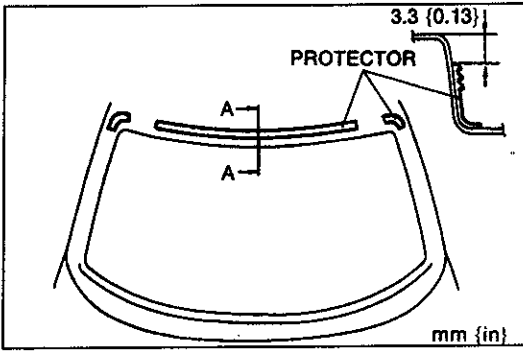
6. Install the spacers onto the body as shown. If a spacer is damaged, replace it.

7. Set the glass onto the body and adjust the clearance between the top of the glass and the body to 7mm {0.27in} by moving the spacers up or down.

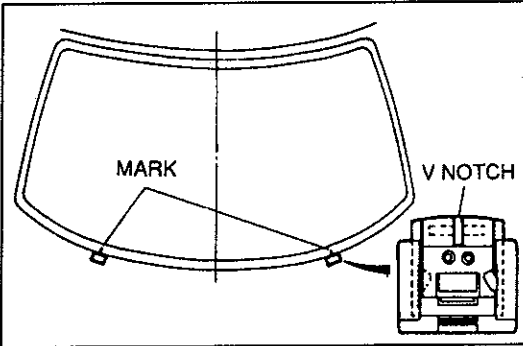
8. Remove the glass from the body.



9. Prepare the nozzle of the sealant tube so that it has a flange that can run along the edge of the glass and a V from which the sealant can flow. Apply repair sealant around the entire circumference to fill the gap between the dam and the edge of the glass with a ridge of sealant 11mm {0.43in} high. Keep the bead of sealant smooth and even, reshaping it where necessary with a spatula.



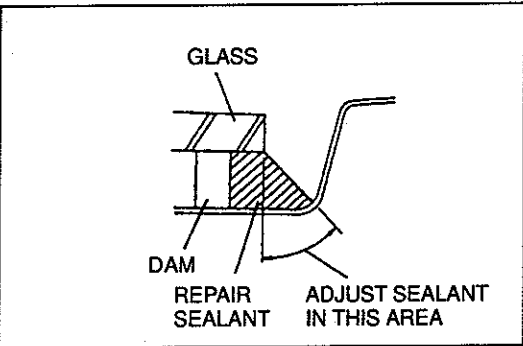
10. If the protector was removed, bond a new one onto the body as shown.



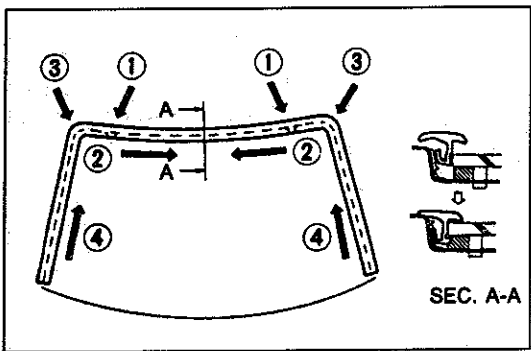
- 11. Align the glass marks with the notches in the spacers and install the glass onto the body.
- 12. Press firmly on the glass to compress the sealant.
- 13. To prevent the glass from being pushed out by air pressure if a door is closed, open all of the windows until the repair sealant has hardened.

Hardening time of repair sealant

Temperature	Surface hardening time	Time required until car can be put into service
5°C (41°F)	Approx. 1.5 hr	12 hr
20°C (68°F)	Approx. 1hr	4 hr
35°C (95°F)	Approx. 10 min	2 hr



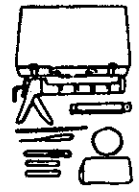
14. Use a scraper to smooth away any sealant that oozes out. Add more sealant to any points of poor contact. Adjust the upper and side sealants as shown, if necessary.



- 15. Install the molding.
 - ① Align the white marks on the molding with the marks on the glass.
 - ② Install the upper part of the molding.
 - ③ Install the corners of the molding.
 - ④ Install the sides of the molding, starting from the bottom and working toward the top.
- 16. If a leak is found, wipe the water off well and remove the glass. Reinstall the glass.

REAR HATCH GLASS

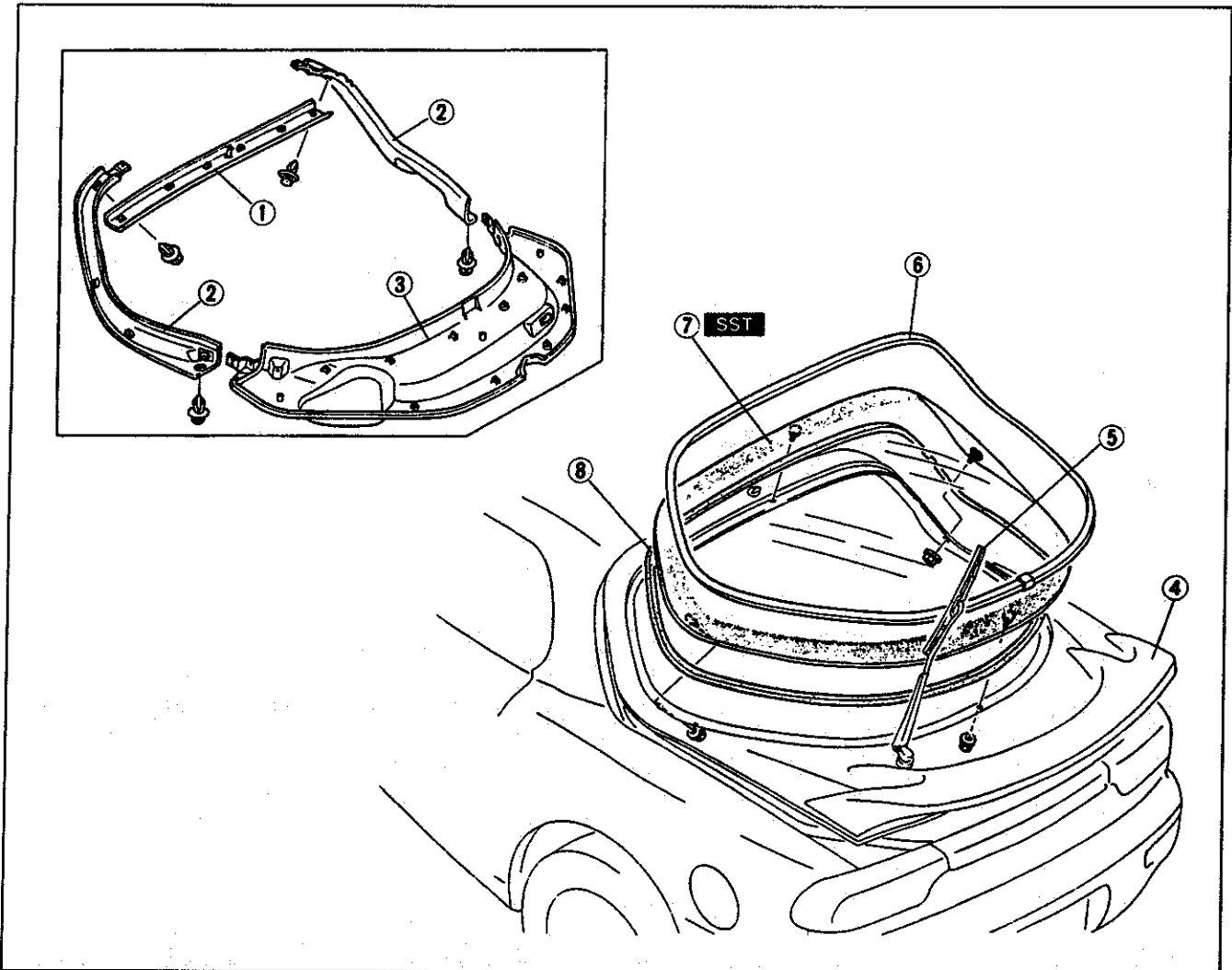
PREPARATION
SST

<p>49 0305 870A Tool set, window</p>		<p>For removal / installation of rear hatch glass</p>
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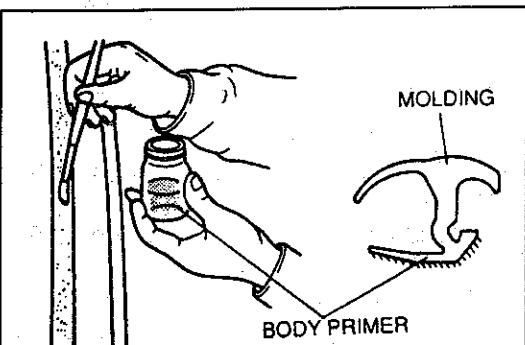
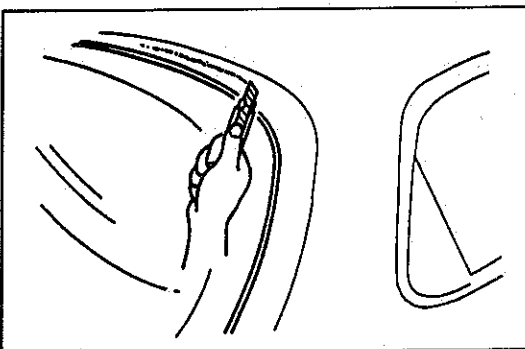
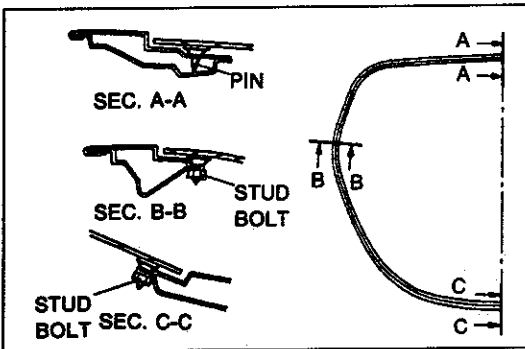
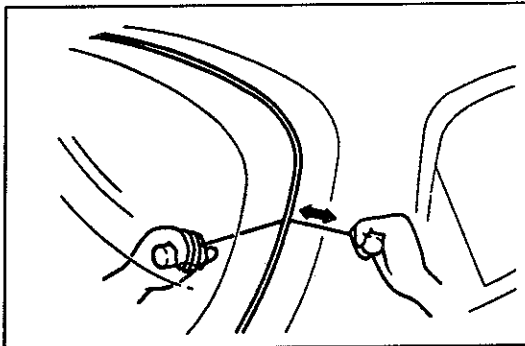
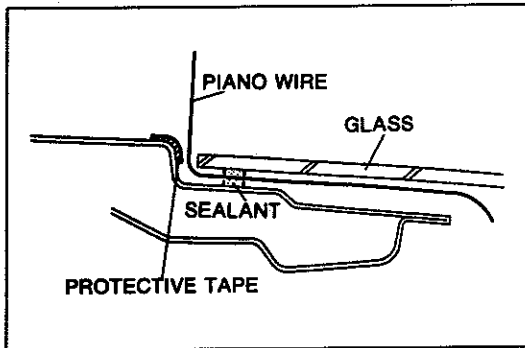
COMPONENTS

Removal/Installation

1. Disconnect the negative battery cable.
2. Remove in the order shown in the figure, referring to **Removal Note**.
3. Install in the reverse order of removal, referring to **Installation Note**.



- | | |
|--|---|
| <p>1. Rear hatch upper trim
Removal / Installation page S-55</p> | <p>5. Rear wiper arm and blade
Adjustment page S-37</p> |
| <p>2. Rear hatch side trim
Removal / Installation page S-55</p> | <p>6. Rear hatch molding
Removal / Installation page S-21</p> |
| <p>3. Rear hatch lower trim
Removal / Installation page S-55</p> | <p>7. Rear hatch glass
Removal Note page S-44
Installation Note page S-44</p> |
| <p>4. Rear spoiler
Removal / Installation page S-27</p> | <p>8. Dam</p> |

**Removal Note****Rear hatch glass**

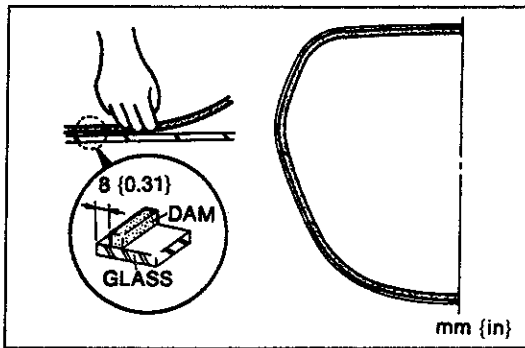
1. Apply protective tape along the edge of the rear hatch to protect it from damage.
2. Make a hole through the sealant from the inside of the vehicle by using an awl.
3. Pass piano wire through the hole.
4. Wind each end of the wire around a bar.
5. Working with another person, saw through the sealant around the edge of the glass. Use a long sawing action to spread the work over the whole length of wire to prevent it from bearking.
6. Remove the glass.

Note

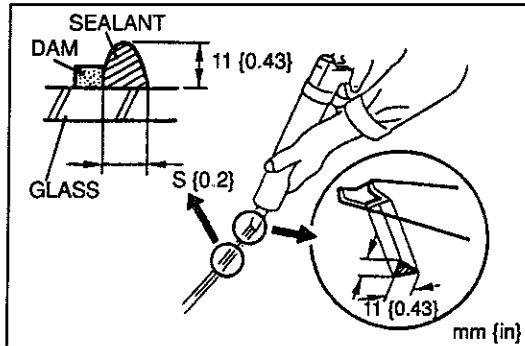
- The rear hatch glass has locating studs at the top, bottom, and sides. If it is difficult to cut the sealant with the piano wire, use a razor knife from the inside of the vehicle where necessary.

Installation Note**Rear hatch glass**

1. Cut away the old sealant with a razor knife so that 1 to 2 mm {0.04 to 0.08 in} of sealant remains around the circumference of the frame. If all the sealant has come off in any one place, apply, apply primer after degreasing, and allow it 30 minutes to dry. Then put on new sealant to create a 2mm {0.08in} layer.
2. Carefully clean an area 5 cm {1.97 in} wide around the circumference of the glass and clean the bonding area on the rear hatch.
3. Apply primer with a brush to the bonding area of the glass and the body. Keep the area free of dirt and grease, and do not touch the surface. Allow it to dry for approximately 30 minutes.



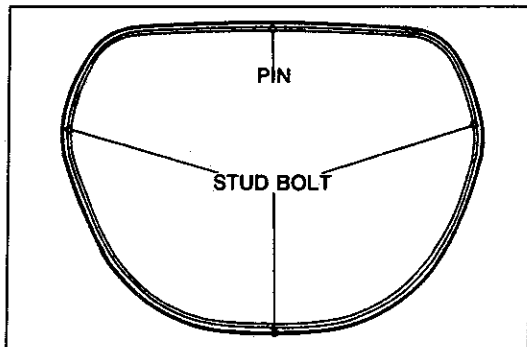
4. Securely bond a new dam along the circumference of the glass 8mm {0.31 in} from the edge. Allow it dry completely.



5. Prepare the nozzle of the sealant gun so that it has a flange that can run along the edge of the glass and a V from which the sealant can flow. Apply repair sealant around the entire circumference to fill the gap between the dam and the edge of the glass with a ridge of sealant 11mm {0.43in} high. Keep the bead of sealant smooth and even, reshaping it where necessary with a spatula.

6. Align the locating studs and install the glass onto the body. Verify that the clearance between the top of the glass and the rear hatch is 8 mm {0.31in}.

7. Press firmly on the glass to compress the sealant. Install the nuts onto the studs.



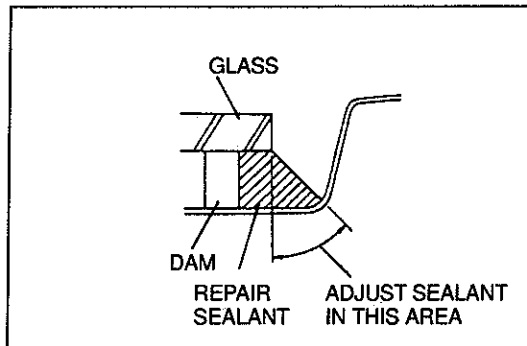
Tightening torque:

2.0-2.9 N·m {20-30 kgf·cm, 18-26 in·lbf}

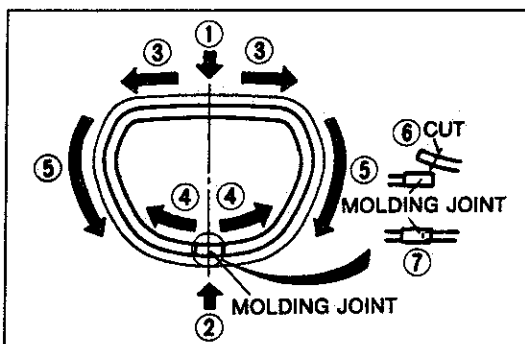
8. To prevent the glass from being pushed out by air pressure if a door is closed, open all of the windows until the repair sealant has hardened.

Hardening time of repair sealant

Temperature	Surface hardening time	Time required until car can be put into service
5°C {41°F}	Approx. 1.5 hr	12 hr
20°C {68°F}	Approx. 1hr	4 hr
35°C {95°F}	Approx. 10 min	2 hr



9. Use a scraper to smooth away any sealant that oozes out. Add more sealant to any points of poor contact. Adjust the upper and side sealants as shown, if necessary.



10. Install the molding.

- ① Align the white mark on the molding with that on the upper part of the glass.
- ② Align the mark on the lower part of the glass with the molding joint.
- ③ Install the upper part of the molding.
- ④ Install the lower part of the molding.
- ⑤ Install the side parts of the molding, starting from the top and working toward the bottom.
- ⑥ Cut the molding to fit securely into the molding joint.
- ⑦ Insert the molding into the molding joint.

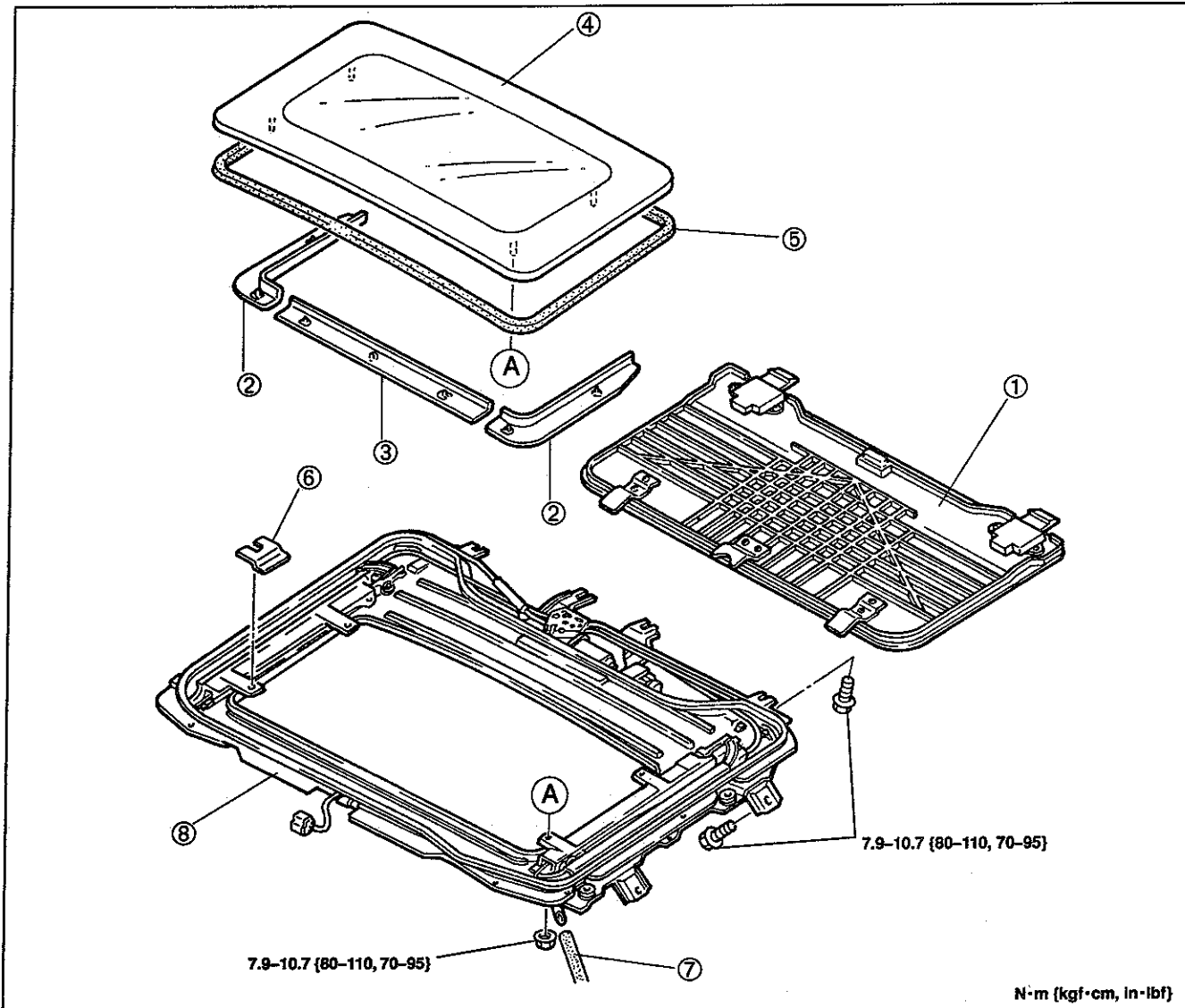
11. If a leak is found, wipe the water off well and remove the glass. Reinstall the glass.

SLIDING SUNROOF

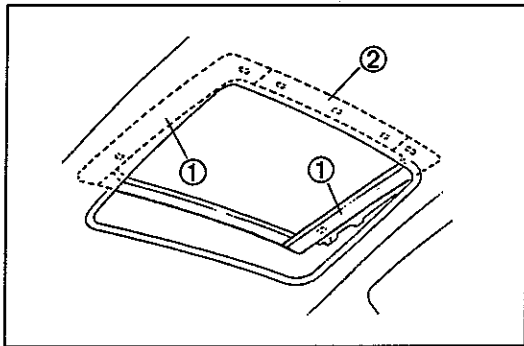
COMPONENTS

Removal / Installation

1. Open the slide panel 100 mm {3.9 in} from the closed throttle position.
2. Disconnect the negative battery cable.
3. Remove in the order shown in the figure, referring to **Removal Note**. To remove the sunroof drive unit assembly, remove the headliner. (Refer to page S-61.)
4. Install in the reverse order of removal, referring to **Installation Note**.



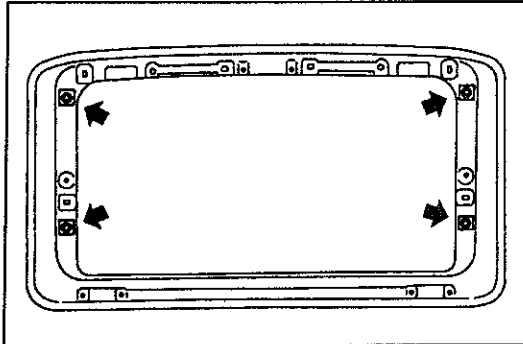
- | | |
|--------------------------------|-----------|
| 1. Sunshade | |
| 2. Decoration cover | |
| Removal Note | page S-47 |
| 3. Lower panel cover | |
| Removal Note | page S-47 |
| 4. Slide panel assembly | |
| Removal Note | page S-47 |
| Adjustment | page S-52 |
| 5. Weatherstrip | |
| 6. Sunroof shim | |
| 7. Drain hose | |
| Installation Note | page S-48 |
| 8. Sunroof drive unit assembly | |
| Removal Note | page S-47 |
| Installation Note | page S-47 |
| Disassembly / Assembly | page S-49 |



Removal Note

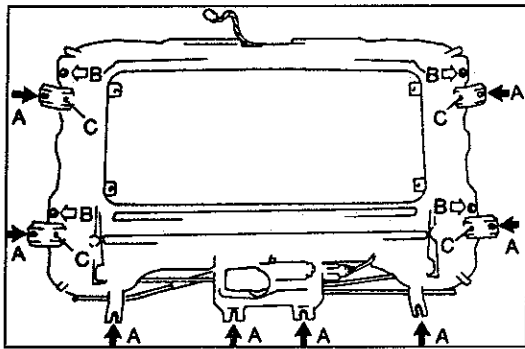
Decoration cover, lower panel cover

Remove the decoration covers and lower panel cover in the order shown in the figure.



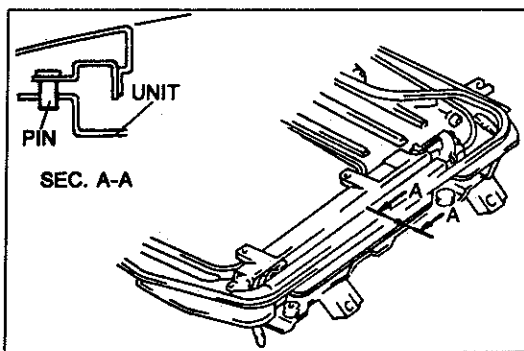
Slide panel

1. Fully close the slide panel by using the emergency handle (supplied in vehicle).
2. Remove the slide panel fixing nuts. Push the slide panel up from the inside and remove it from the guide.



Sunroof drive unit assembly

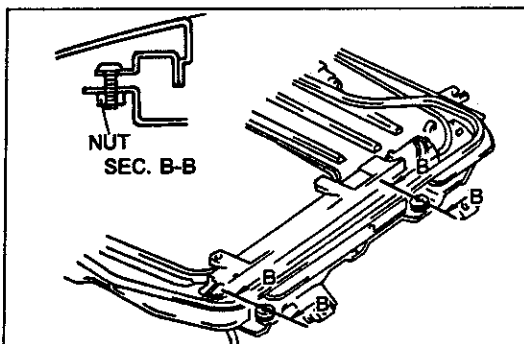
1. Remove bolts A.
2. Loosen nuts C.
3. Loosen height adjusting nuts B and remove the sunroof drive unit from the body.



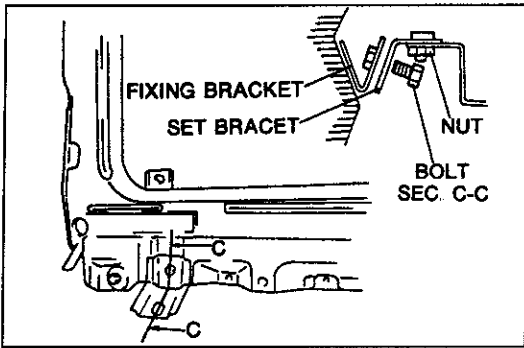
Installation Note

Sunroof drive unit assembly

1. Align the locator pins and set the sunroof drive unit to the roof panel.



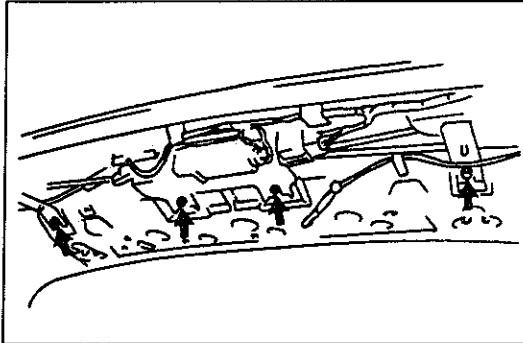
2. Loosely install the sunroof drive unit to the roof panel with the height adjusting nuts.



3. Loosen the set bracket attaching nuts. Position the set bracket so that it touches the roof panel fixing bracket. Tighten the fixing bracket bolts, then tighten the nuts.

Tightening torque:

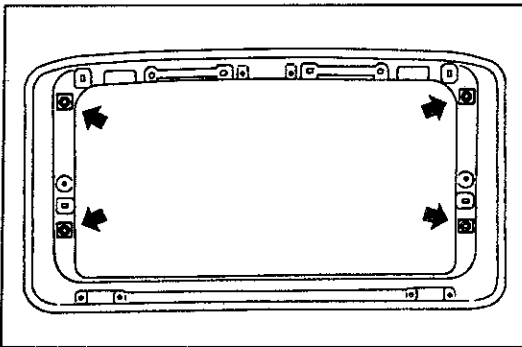
7.9–10.7 N·m {80–110 kgf·cm, 70–95 in·lbf}



4. Affix the rear of the sunroof frame to the roof panel.

Tightening torque:

7.9–10.7 N·m {80–110 kgf·cm, 70–95 in·lbf}

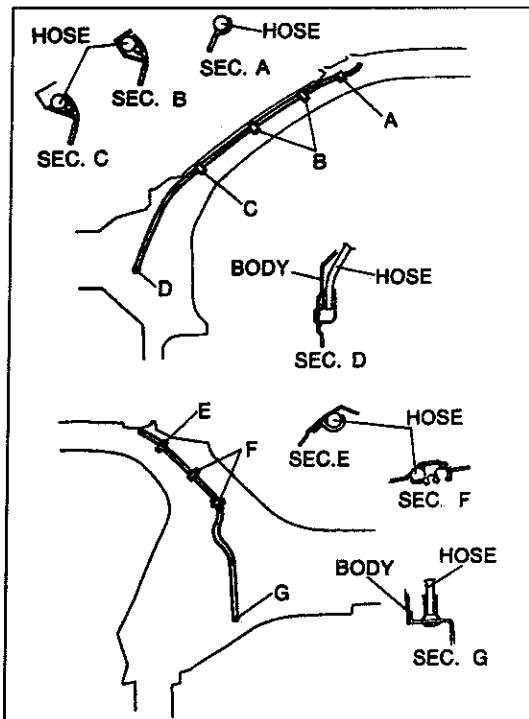


Slide panel

Install the slide panel to the guide. If the height difference between the slide panel and the roof panel is greater than 2.0 mm {0.08 in}, loosen the slide panel attaching nuts and insert shim(s) between the panels.

Tightening torque:

7.9–10.7 N·m {80–110 kgf·cm, 70–95 in·lbf}



Drain hose

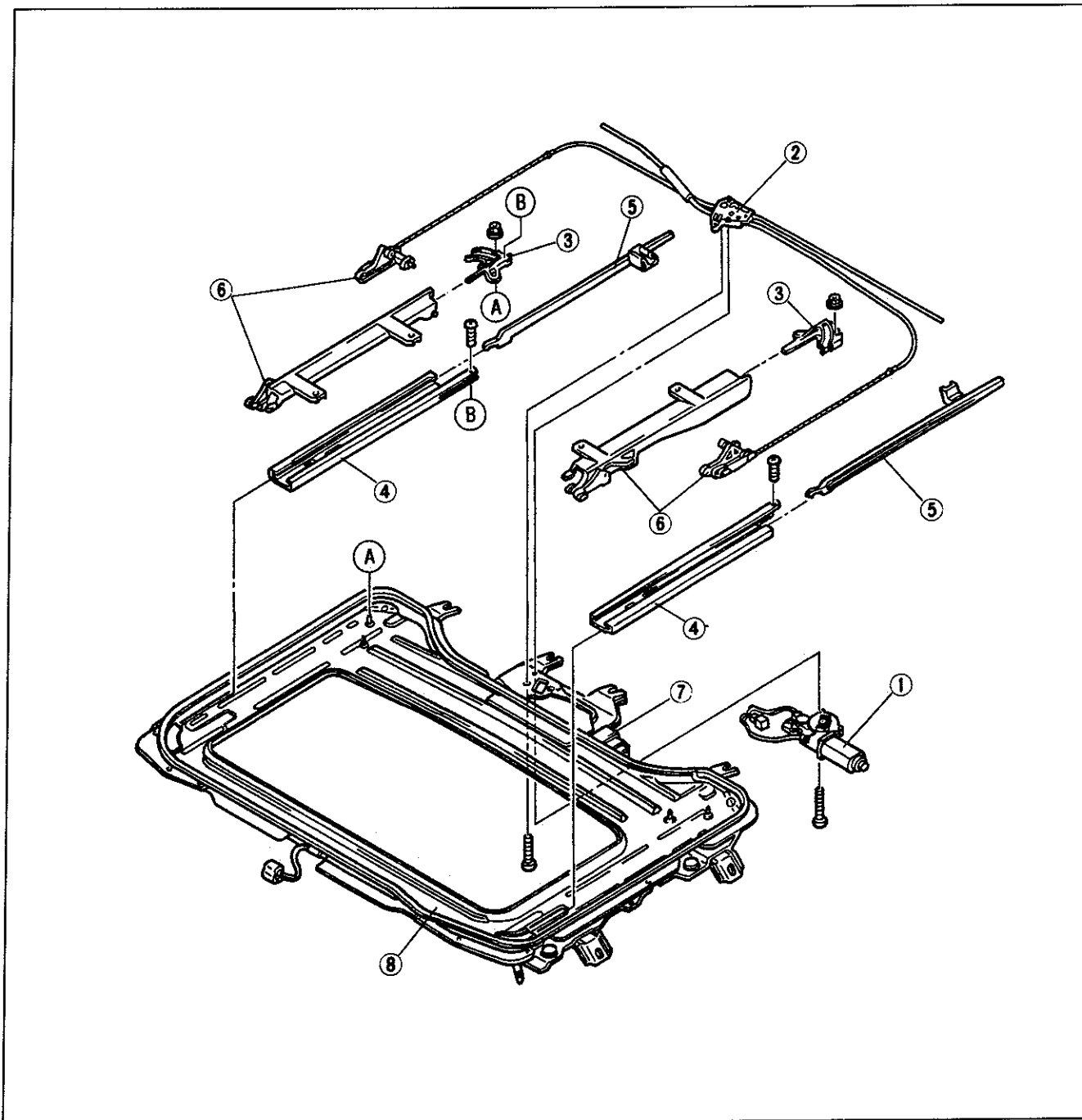
Apply soapy water to the drain hose and insert it fully into the sunroof frame.

1. On the A-pillar side, insert one end of the hose into the sunroof frame, set the hose along the A-pillar, and insert the other end into the cowl side panel hole.
2. On the B-pillar side, insert one end of the hose into the sunroof frame and insert the other end into the rear fender panel hole via the hole in the upper part of the B-pillar.

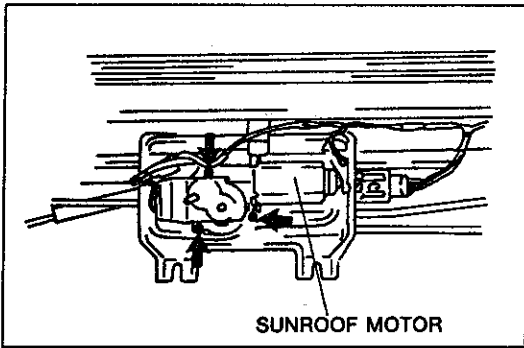
SLIDING SUNROOF DRIVE UNIT ASSEMBLY

Disassembly / Assembly

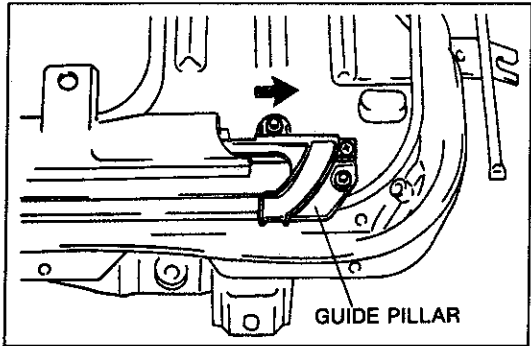
1. Disassemble in the order shown in the figure, referring to **Disassembly Note**.
2. Assemble in the reverse order of disassembly, referring to **Assembly Note**.



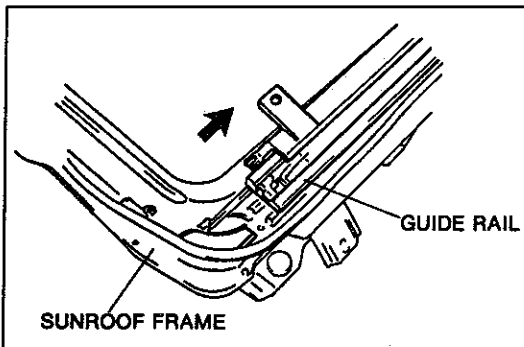
- | | |
|---|---|
| <p>1. Sunroof motor
 Disassembly Note page S-50
 Assembly Note page S-51
 Adjustment page S-52</p> <p>2. Drive unit</p> <p>3. Guide pillar
 Disassembly Note page S-50
 Assembly Note page S-51</p> <p>4. Guide rail
 Disassembly Note page S-50
 Assembly Note page S-52</p> | <p>5. Shutting assembly
 Disassembly Note page S-50
 Assembly Note page S-51</p> <p>6. Guide
 Disassembly Note page S-50
 Assembly Note page S-51</p> <p>7. Sunroof relay</p> <p>8. Sunroof frame</p> |
|---|---|

**Disassembly Note****Sunroof motor**

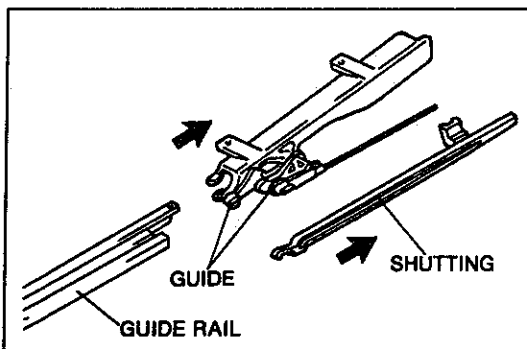
1. Remove the screws and remove the motor from the sunroof frame.
2. Disconnect the motor harness connector.

**Guide pillar**

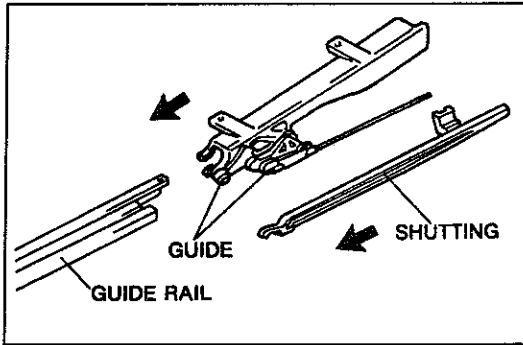
1. Remove the guide pillar mounting nuts and screw.
2. Pull the guide pillar to remove it from the guide rail.

**Guide rail**

Pull the guide rail with the guide to remove them from the sunroof frame.

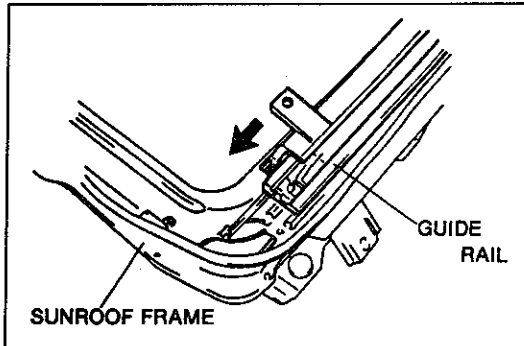
**Shutting assembly, guide**

1. Pull the shutting assembly to remove it from the guide rail.
2. Pull the guide to remove it from the guide rail.



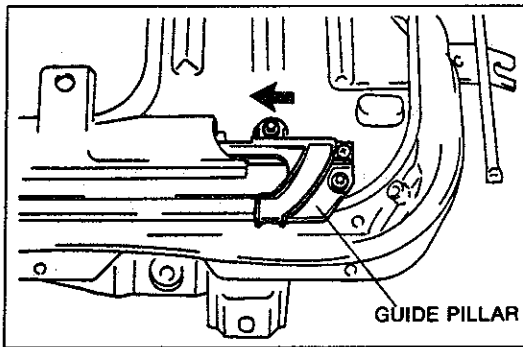
Assembly Note
Shutting assembly, guide

1. Insert the guide into the guide rail.
2. Insert the shutting assembly into the guide rail.



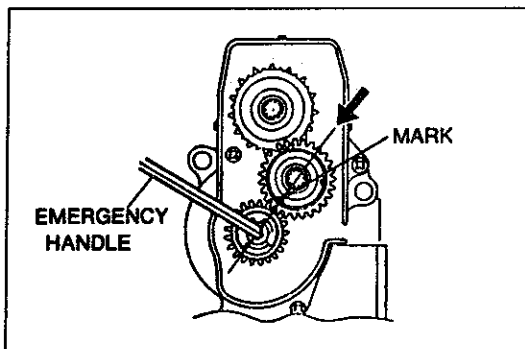
Guide rail

Insert the guide rail with the guide into the sunroof frame.



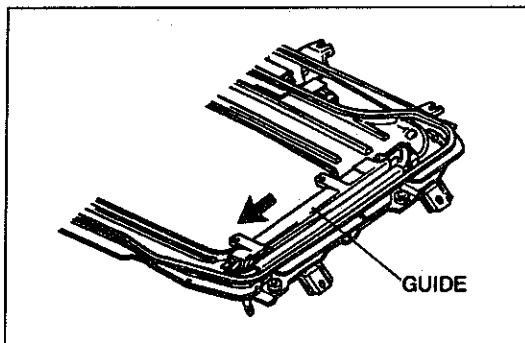
Guide pillar

1. Insert the guide pillar into the guide rail.
2. Install the guide pillar mounting nuts and screw.

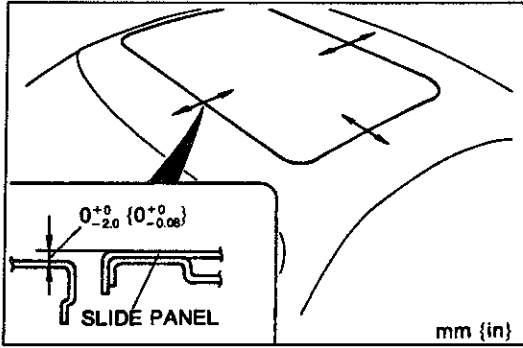


Sunroof motor

1. Remove the motor cover. Position the mark on the timing gear as shown in the figure by using the emergency handle (supplied in vehicle).



2. Move the guide fully forward by hand.
3. Install the motor to the sunroof frame.
4. Connect the motor harness connector.



Adjustment Slide panel Height

Adjust the height difference between the slide panel and the roof panel according to the following procedure.

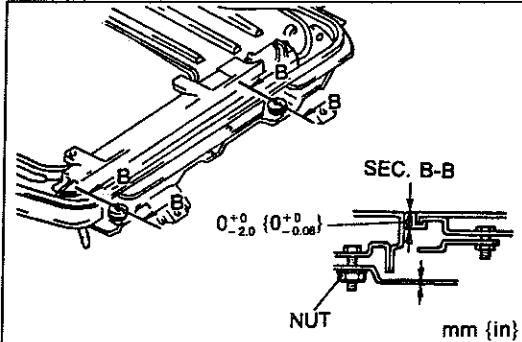
Allowable height difference: 2.0 mm {0.08 in} max.

1. Remove the headliner. (Refer to page S-60.)
2. Loosen the set bracket attaching nuts.
3. Turn the height adjusting nuts to adjust the sunroof frame height.

Note

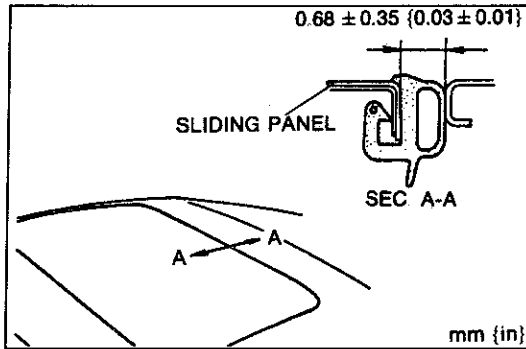
- Clockwise rotation increases the frame height.

4. After adjustment, securely install the sunroof to the roof panel.



Gap

1. Verify that the slide panel does not interfere with the roof panel when operated.
2. If necessary, loosen the slide panel mounting nuts and move the panel.
3. If the above adjustment is not enough, loosen the mounting screws and bolts of the sun roof frame and set bracket and adjust again. (Refer to page S-47 Installation Note for the sunroof drive unit assembly.)



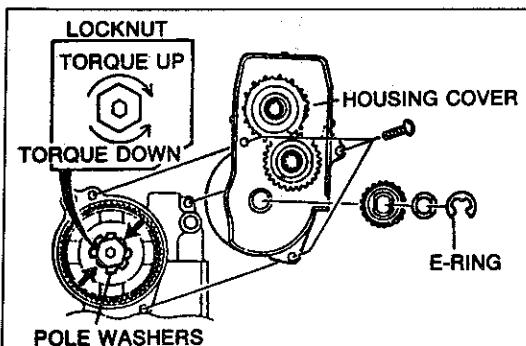
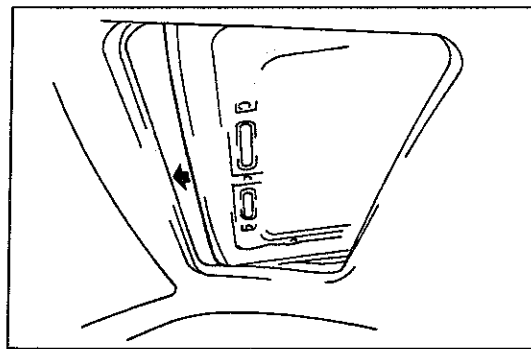
Sunroof motor

1. Measure the operation time of the slide panel from wide open throttle to closed throttle position or vice versa.

Specified time: 4-7 sec.

2. If not as specified, adjust it by turning the locknut on the sunroof motor.

- (1) Remove the housing cover attaching screw and the E-ring. Remove the housing cover from the motor.
- (2) Unfold the pole washers indicated by the arrows.
- (3) Hold the motor shaft with the emergency handle (supplied in vehicle) and turn the locknut to adjust the torque.
- (4) Fold the pole washers against the locknut.

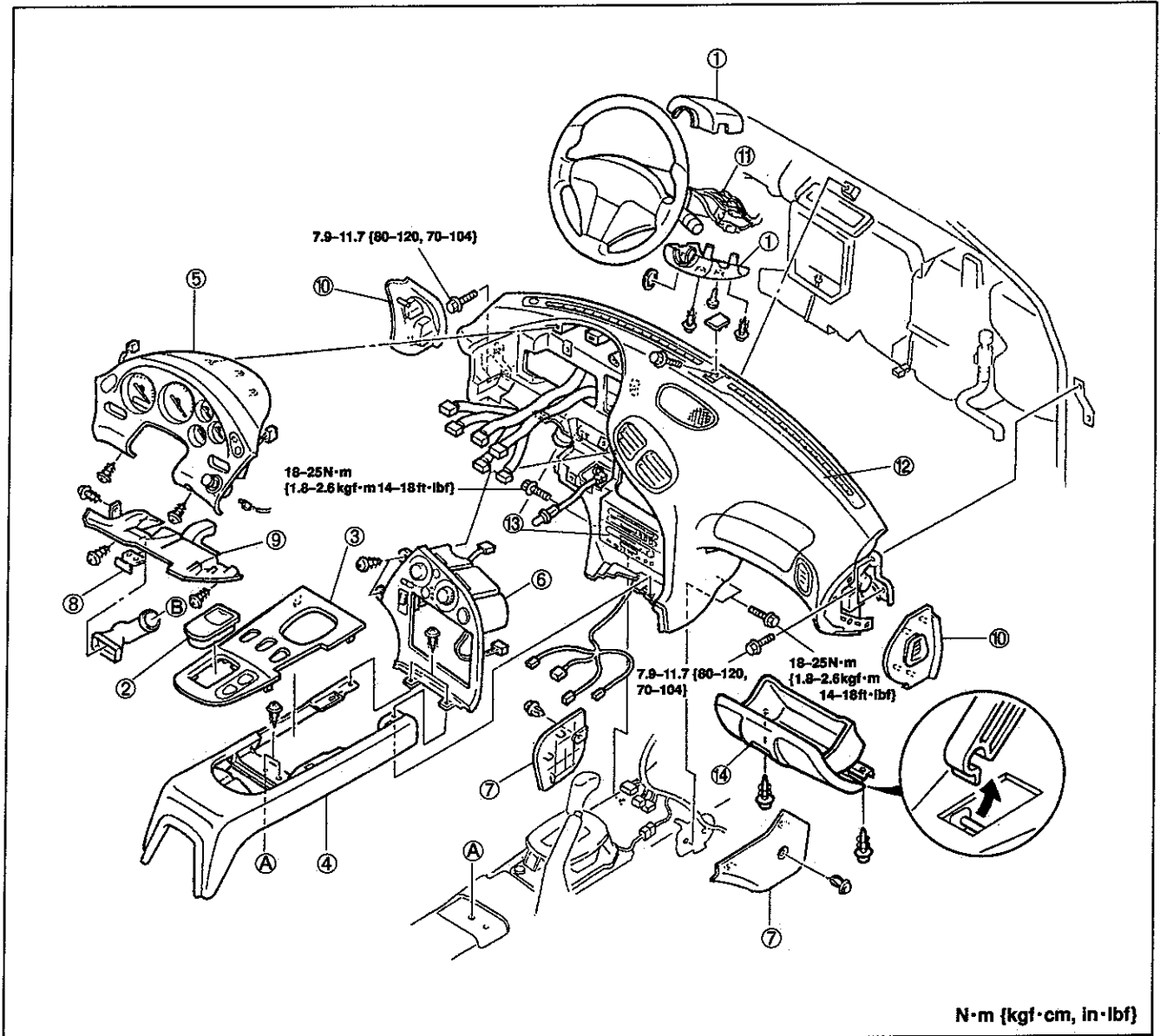


DASHBOARD AND CONSOLE

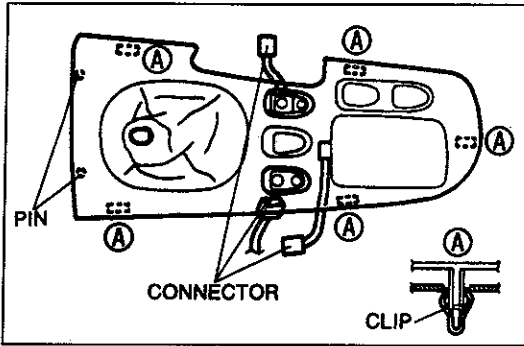
COMPONENTS

Removal / Installation

1. Disconnect the negative battery cable.
2. Remove in the order shown in the figure, referring to **Removal Note**. To remove the dashboard, remove the parking brake lever. (Refer to Section P.) (Refer to the 1994 RX-7 Body Electrical Troubleshooting Manual, section J1, when removing the audio unit.)
3. Install in the reverse order of removal.



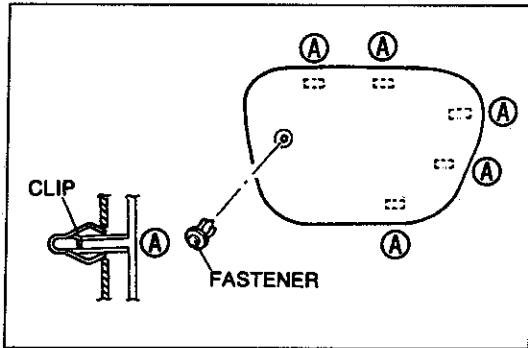
- | | |
|--------------------------------------|-----------|
| 1. Column cover | |
| 2. Ashtray | |
| 3. Console panel | |
| Removal Note | page S-54 |
| 4. Rear console | |
| 5. Meter hood and instrument cluster | |
| 6. Center panel | |
| 7. Side wall | |
| Removal Note | page S-54 |
| 8. Hood release knob | |
| Removal / Installation | page S-5 |
| 9. Lower panel | |
| 10. Side panel | |
| Removal Note | page S-54 |
| 11. Steering shaft | |
| Removal Note | page S-54 |
| 12. Dashboard | |
| 13. Audio unit | |
| 14. Glove compartment | |



Removal Note

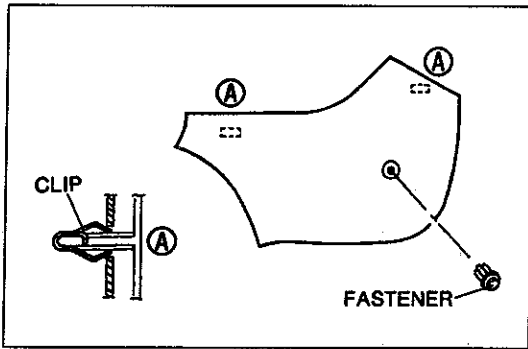
Console panel

1. Remove the ashtray.
2. Insert a protected screwdriver at point A to pry out the rear of the panel.
3. Pull the console panel upward to disengage the clips from the body.
4. Remove the ashtray lamp.
5. Disconnect the harness connector from the switches.



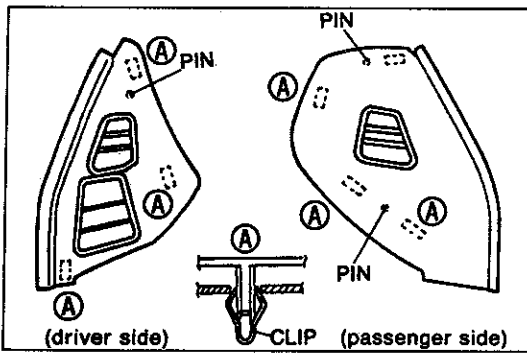
**Side wall
(driver side)**

1. Remove the installation fastener.
2. Pull the side wall forward disengage the clips from the body.



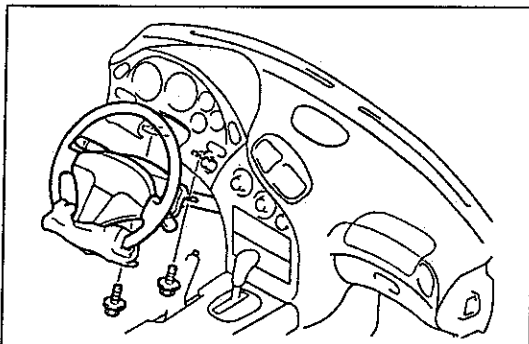
(passenger side)

1. Remove the installation fastener.
2. Pull the side wall forward disengage the clips from the body.



Side panel

Pull the rear of the side panel forward to disengage the clips from the body.



Steering shaft

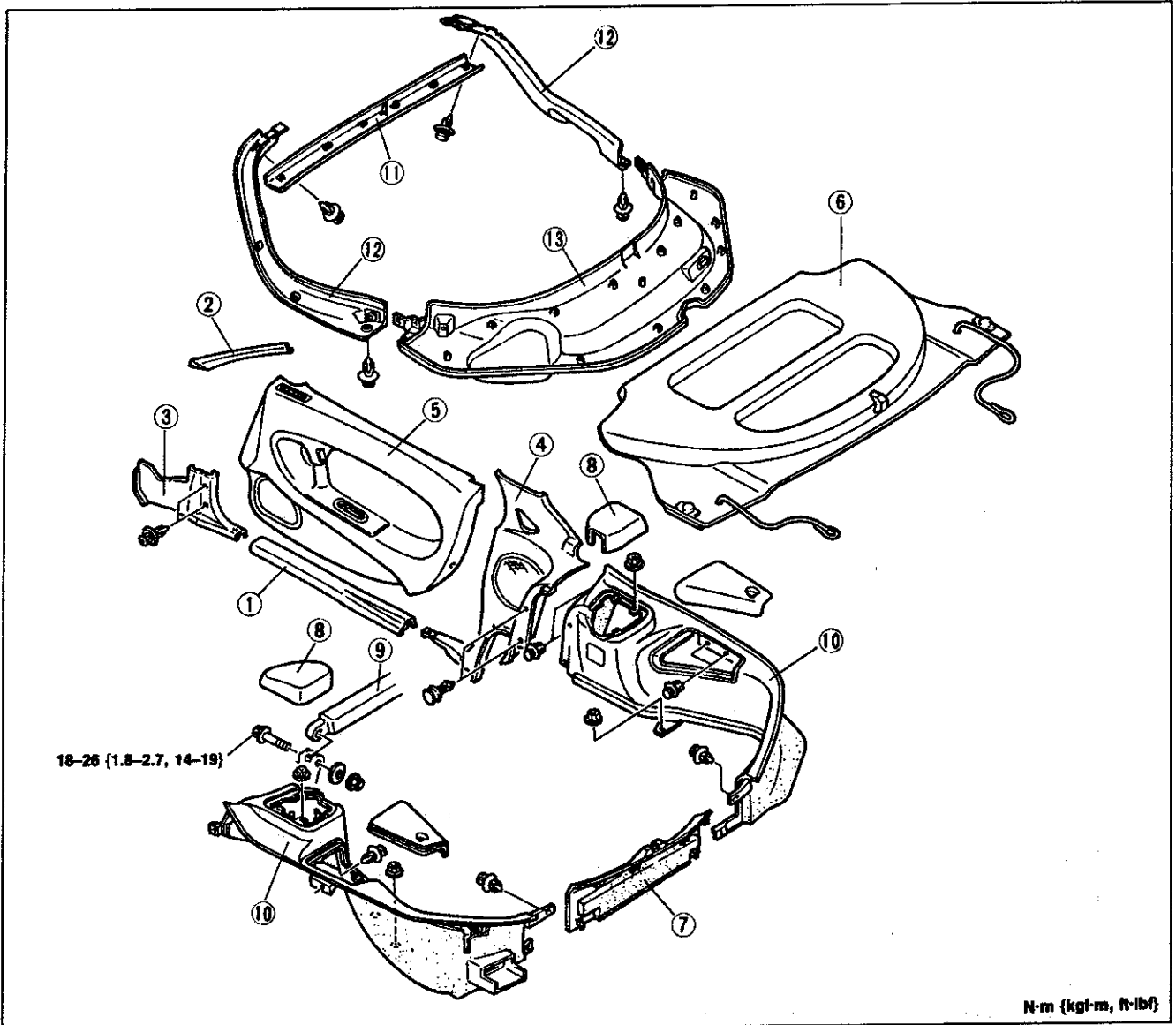
1. Protect the steering wheel with a clean rag.
2. Remove the steering shaft mounting bolts to lower the shaft.

TRIM

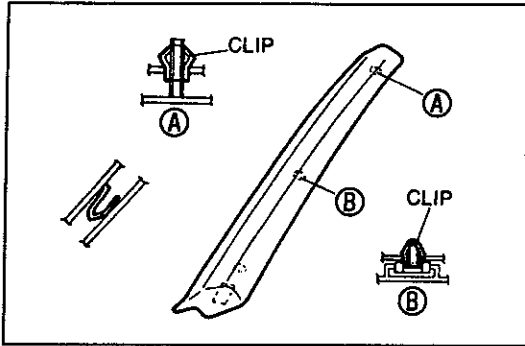
COMPONENTS

Removal / Installation

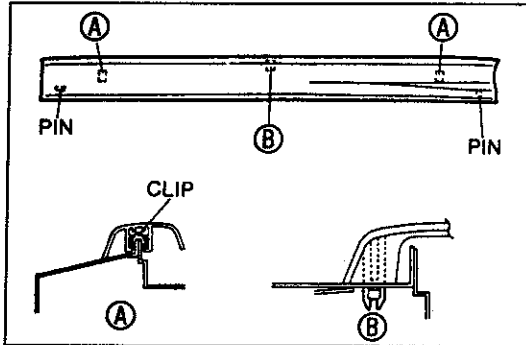
1. Remove in the order shown in the figure, referring to Removal Note. To remove the trunk end trim and trunk side trim, remove the acoustic wave guide assembly. (Refer to the 1994 RX-7 Body Electrical Troubleshooting Manual, section J1.)
2. Install in the reverse order of removal.



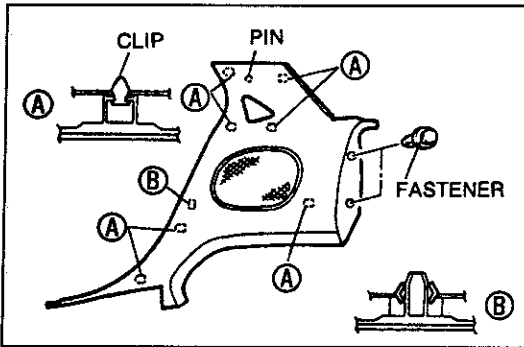
- | | | | |
|---|-----------|---|-----------|
| 1. Scuff plate
Removal Note | page S-56 | 7. Trunk end trim
Removal Note | page S-57 |
| 2. A-pillar trim
Removal Note | page S-56 | 8. Suspension tower cover | |
| 3. Front side trim | | 9. Suspension rear strut bar | |
| 4. Quarter trim
Removal Note | page S-56 | 10. Trunk side trim | |
| 5. Door trim
Removal Note (driver side) | page S-56 | 11. Rear hatch upper trim
Removal Note | page S-57 |
| Removal Note
(passengerside) | page S-57 | 12. Rear hatch side trim
Removal Note | page S-57 |
| 6. Rear package tray | | 13. Rear hatch lower trim
Removal Note | page S-58 |

**Removal Note****A-pillar trim**

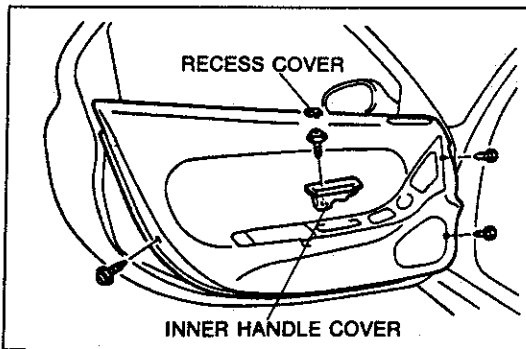
1. Remove the seaming welt.
2. Pull the A-pillar trim to disengage the clips from the body.
3. Pull the A-pillar trim up to remove it.

**Scuff plate**

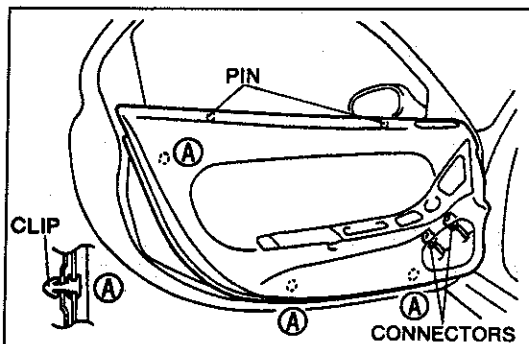
Pull the scuff plate up to disengage the clips from the body.

**Quarter trim**

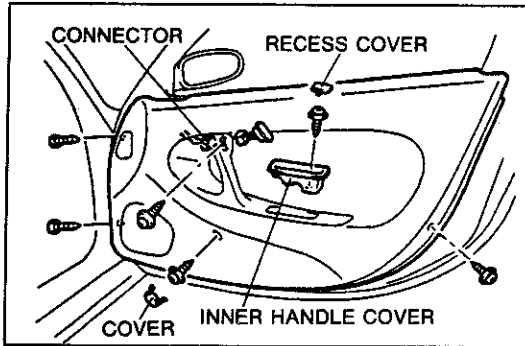
1. Remove the scuff plate.
2. Remove the seaming welt.
3. Remove the seat belt lower anchor. (Refer to page S-62.)
4. Remove the installation screw and fasteners.
5. Pull the quarter trim to disengage the clips from the body.

**Door trim****(driver side)**

1. Remove the recess cover and the installation screw.
2. Remove the inner handle cover.
3. Remove the door trim installation screws.

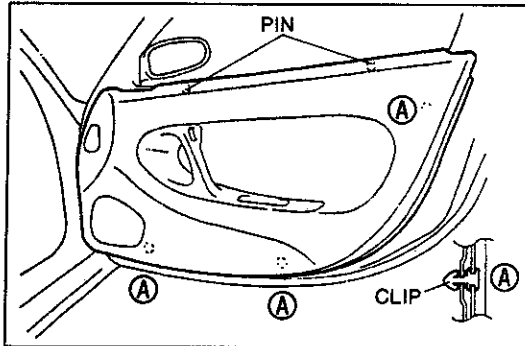


4. Pull the door trim to disengage the clips from the body.
5. Lift the door trim up to remove it.
6. Disconnect the harness connectors.

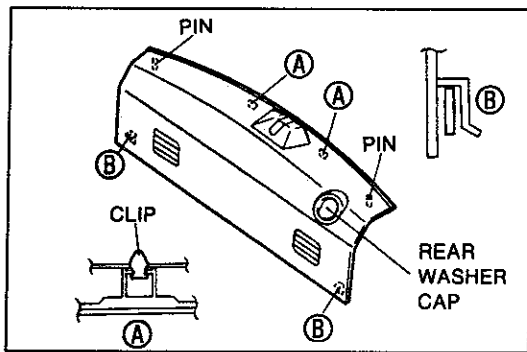


(passenger side)

1. Remove the recess cover and the installation screw.
2. Remove the inner handle.
3. Disconnect the harness connector.
4. Remove the cap and door trim mounting screws.

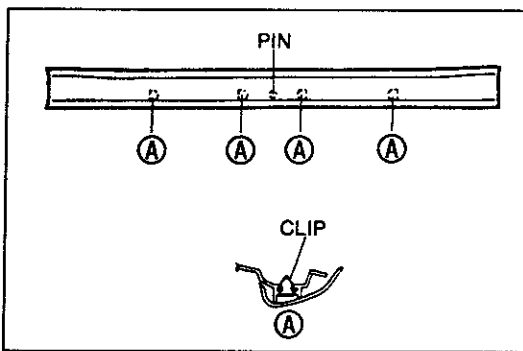


5. Pull the door trim to disengage the clips from the body.
6. Lift the door trim up to remove it.



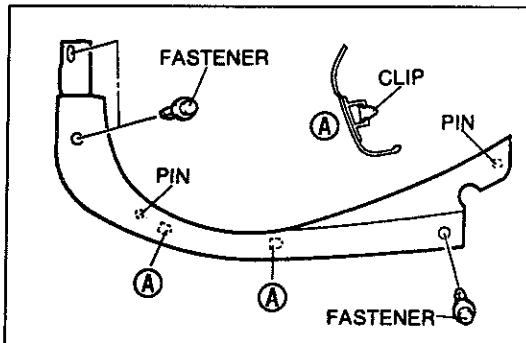
Trunk end trim

1. Remove the rear washer cap.
2. Remove the installation fasteners.
3. Pull the trunk end trim to disengage the clips from the body.
4. Lift the trunk end trim up to remove it.



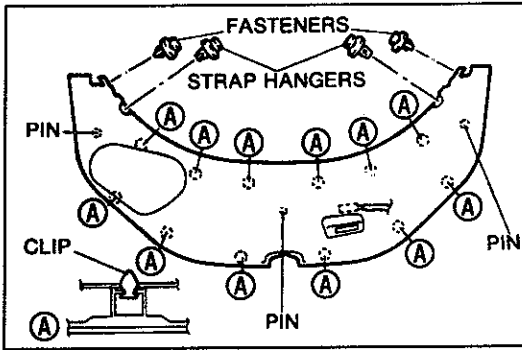
Rear hatch upper trim

1. Remove the installation fasteners.
2. Pull the rear hatch upper trim to disengage the clips from the body.



Rear hatch side trim

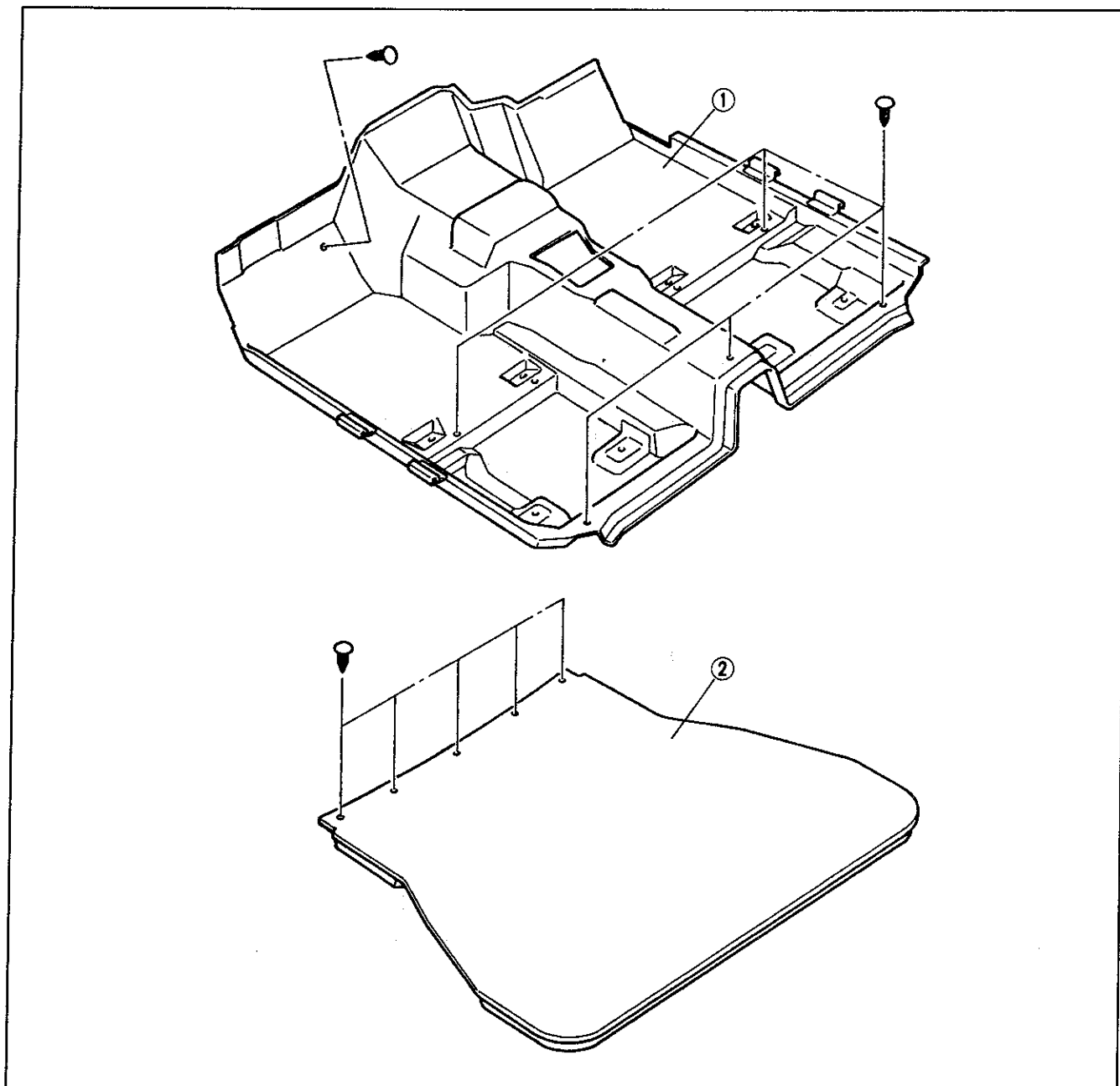
1. Remove the rear hatch upper trim.
2. Remove the fasteners.
3. Pull the rear hatch side trim to disengage the clips from the body.

**Rear hatch lower trim**

1. Remove the rear hatch side trim (page S-57).
2. Rotate the strap hangers 90° and remove them.
3. Remove the fasteners.
4. Pull the rear hatch lower trim to disengage the clips from the body.

FLOOR COVERING**COMPONENTS****Removal / Installation**

1. Disconnect the negative battery cable.
2. Remove the following:
 - a. Seats (Refer to page S-64.)
 - b. Scuff plates (Refer to page S-55.)
 - c. Seat belt lower anchor (Refer to page S-62.)
 - d. Quarter trim (Refer to page S-55.)
 - e. Storage compartment (Refer to page S-67.)
 - f. Dashboard and console (Refer to page S-53.)
3. Remove in the order shown in the figure.
4. Install in the reverse order of removal.



1. Cabin carpet

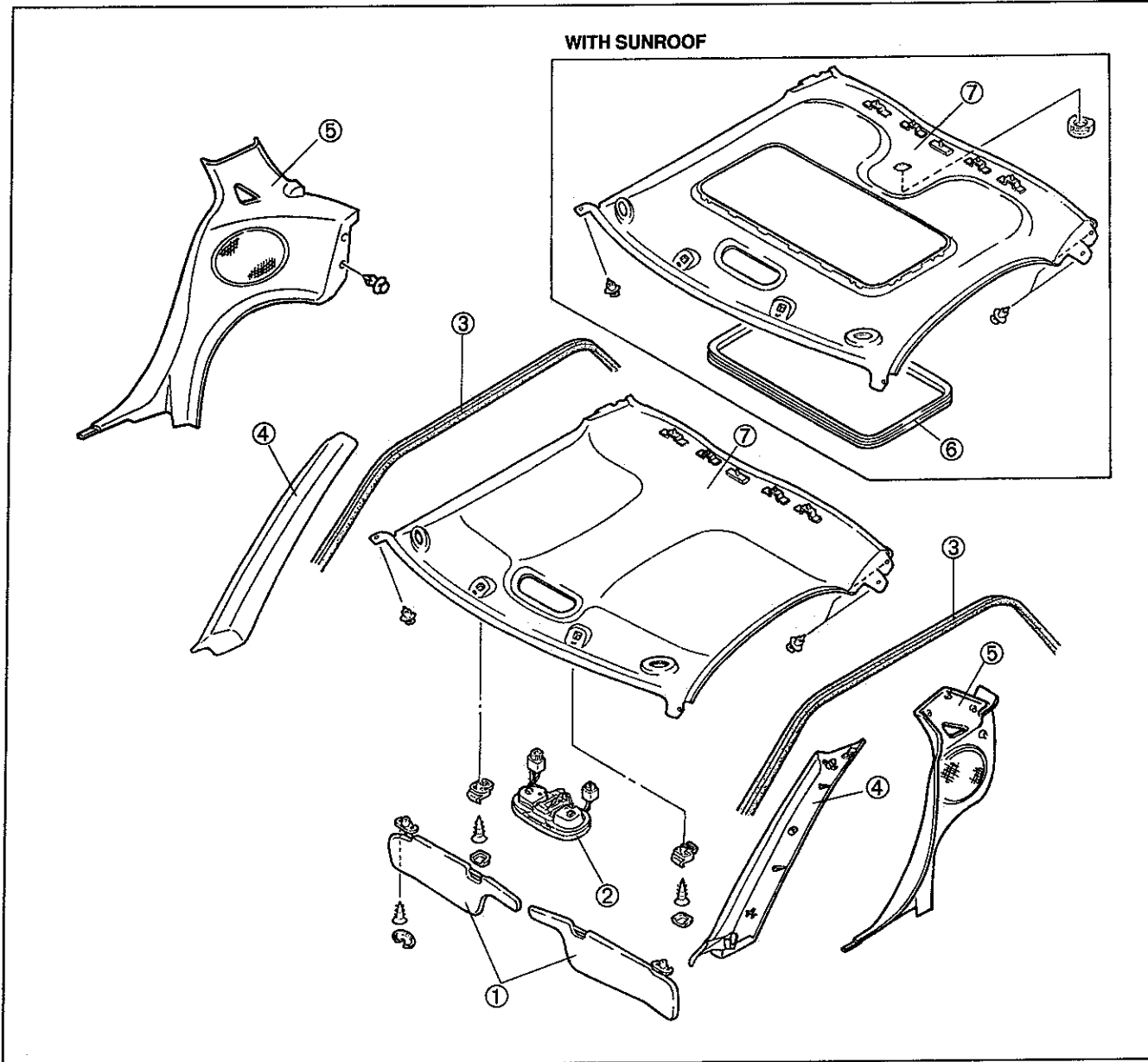
2. Trunk carpet

HEADLINER

COMPONENTS

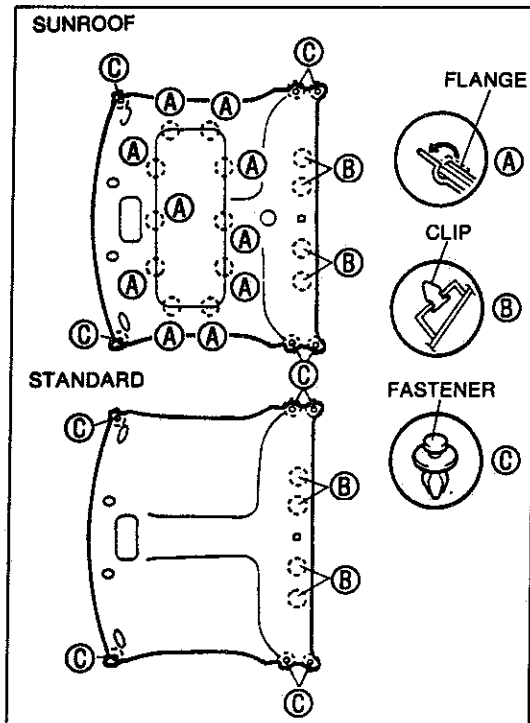
Removal / Installation

1. Disconnect the negative battery cable.
2. Remove in the order shown in the figure, referring to **Removal Note**.
3. Install in the reverse order of removal.



1. Sunvisor and adapter
2. Overhead console
3. Seaming welt (door)
4. A-pillar trim
Removal / Installation page S-55

5. Quarter trim
Removal / Installation page S-55
6. Seaming welt (sliding sunroof)
7. Headliner
Removal Note page S-61
Installation Note page S-61

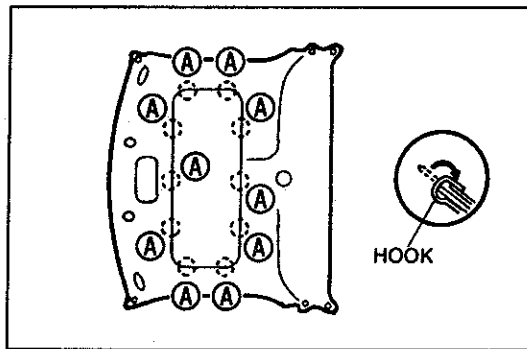


**Removal Note
Headliner
Sunroof model**

1. Carry out step 1 above.
2. Remove the seaming welt and unfold the hooks at the sunroof frame flange.
3. Remove the headliner.

Standard model

1. Remove the attaching fasteners from the front of the headliner. Remove the attaching clips at the rear and sides of the headliner.
2. Remove the headliner.



**Installation Note
Headliner
Sunroof model**

1. Fold the headliner hooks against the sunroof frame flange.
2. Install the seaming welt.
3. Install the headliner.

SEAT BELT

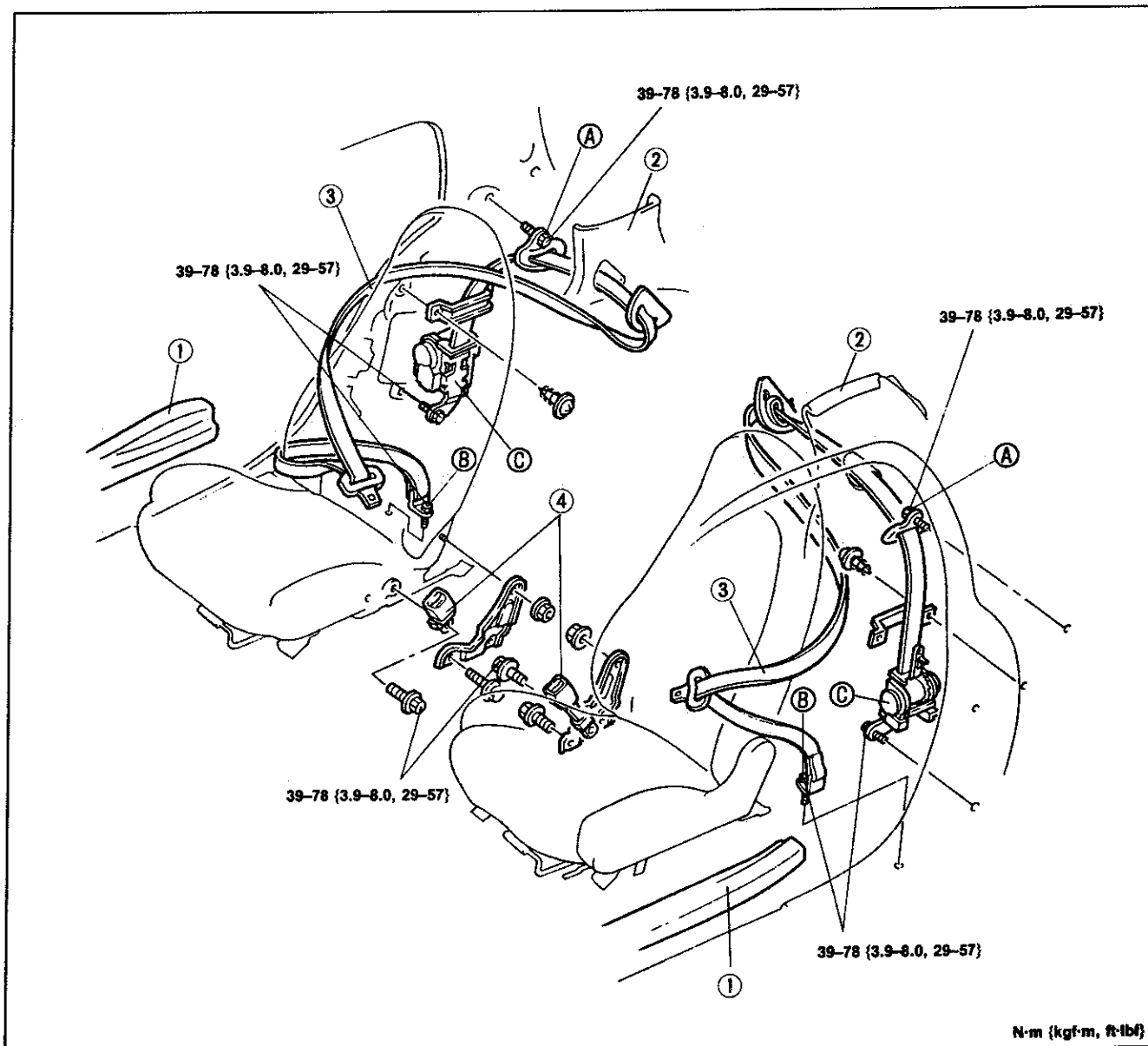
COMPONENTS

Removal / Installation

Caution

- The ELR (emergency locking retractor) has a spring that will unwind if the retractor's cover is removed. The spring cannot be rewound by hand. If this occurs, the ELR will not work properly. Therefore, do not disassemble the retractor.

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

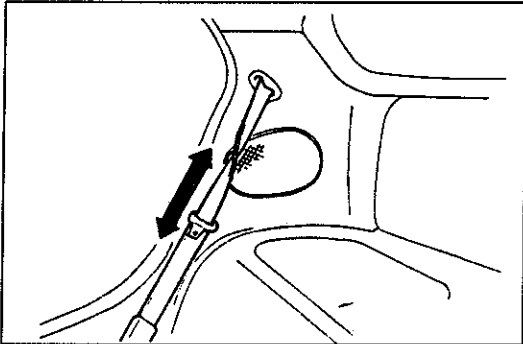


1. Scuff plate
Removal / Installation page S-55
2. Quarter trim
Removal / Installation page S-55

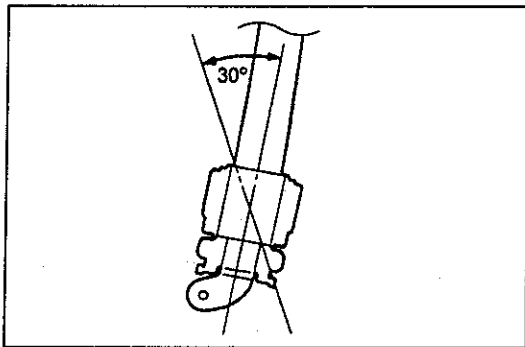
3. Seat belt assembly
A. Upper anchor
B. Lower anchor
C. Retractor
Inspection page S-63
4. Buckle

SEAT BELT**Inspection****Webbing and fittings**

1. Inspect the webbing for scars and tears.
2. Inspect the fittings for deformation.
3. If any problem is found, replace the seat belt assembly.

**Emergency locking retractor (ELR)**

1. Pull out the seat belt slowly and then release it. Verify that it returns smoothly.
2. Verify that the retractor locks when the belt is quickly pulled.
3. Remove the retractor.
4. Hold the retractor as it would be installed.
5. Slowly incline the retractor while pulling out the belt.
6. Verify that the retractor locks at angle of approximately **30 degrees**.
7. If not as specified, replace the seat belt assembly.

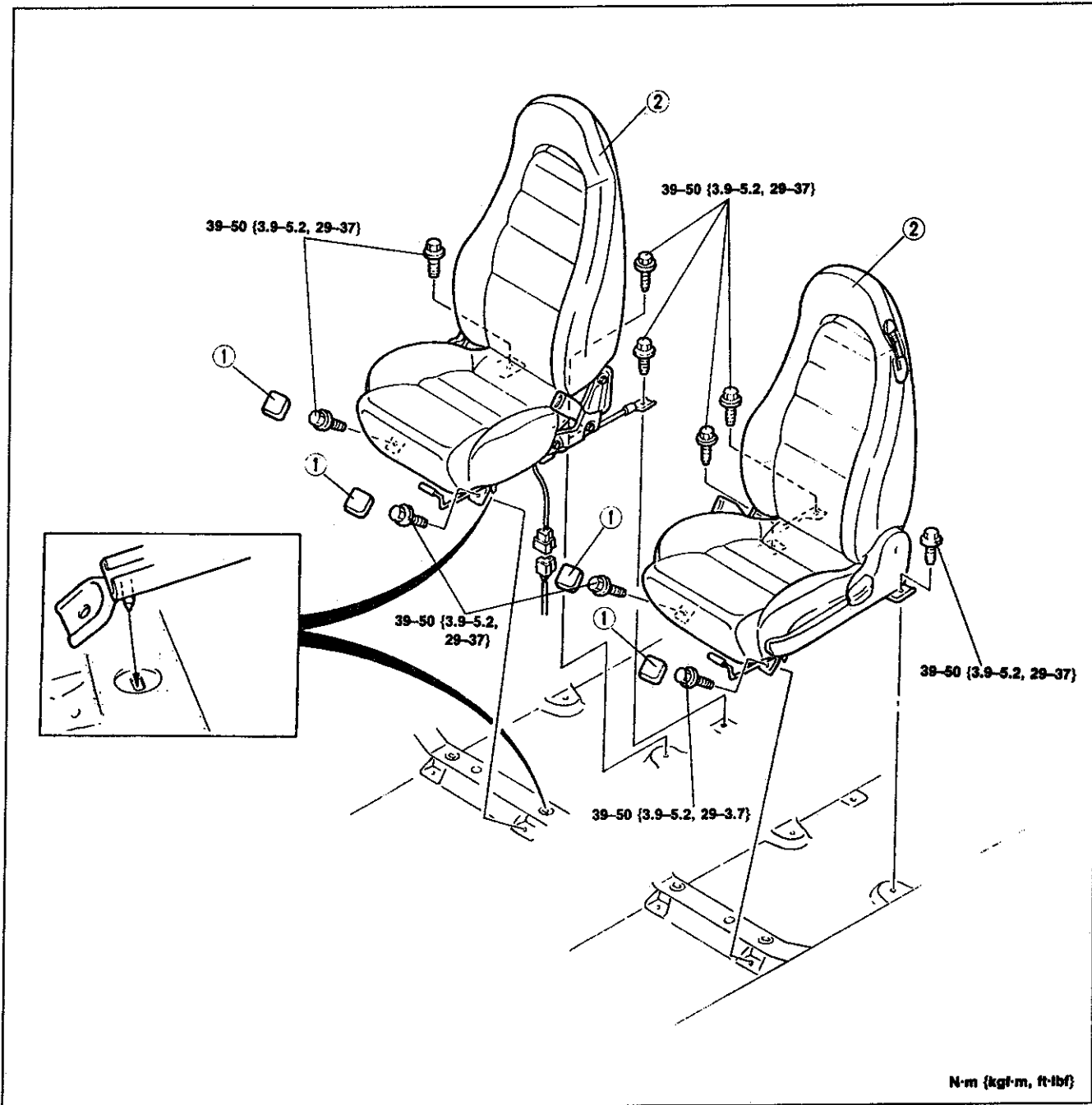


SEAT

COMPONENTS

Removal / Installation

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



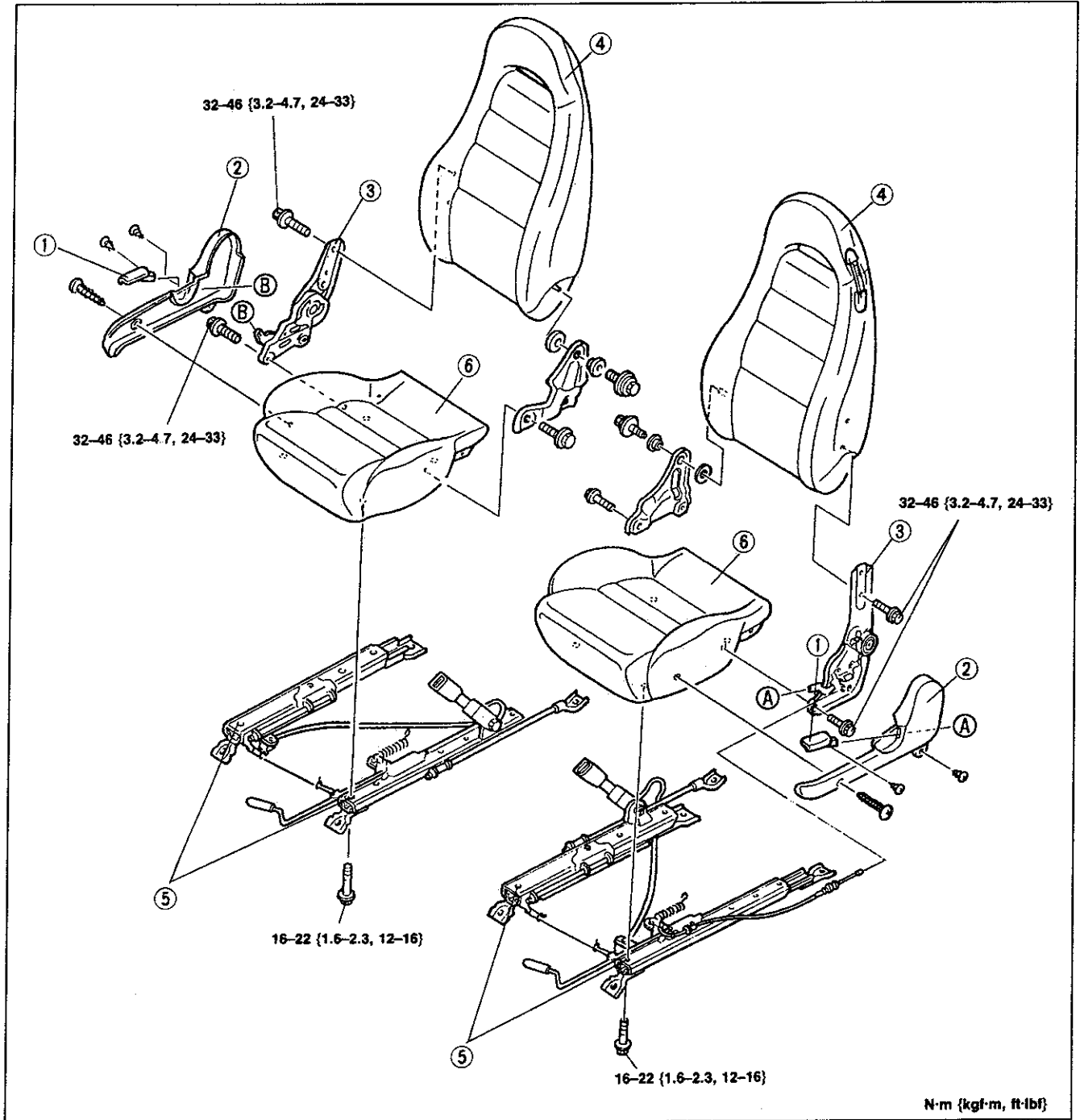
1. Adjuster cover

2. Seat

Disassembly / Assembly page S-65

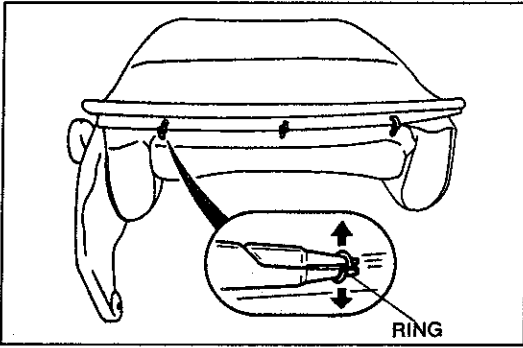
Disassembly / Assembly

1. Disassemble in the order shown in the figure, referring to **Disassembly Note**.
2. Assemble in the reverse order of disassembly.



N·m {kgf·m, ft·lbf}

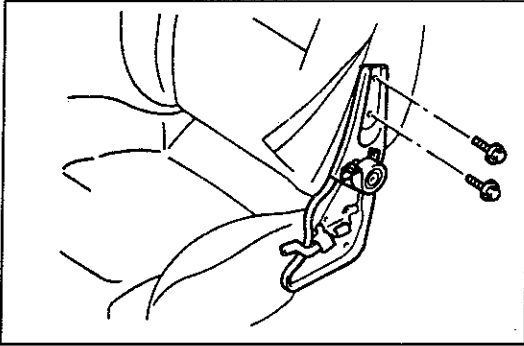
- | | |
|--|--|
| <ul style="list-style-type: none"> 1. Knuckle knob 2. Knuckle cover 3. Recliner knuckle | <ul style="list-style-type: none"> 4. Seat back 5. Slide adjuster 6. Seat cushion |
|--|--|
- Disassembly Note page S-66

**Disassembly Note
Recliner knuckle**

1. Remove the hog rings from the seat back.

2. Turn over the seat back cover to reveal the recliner knuckle mounting bolts.

3. Remove the mounting bolts and the recliner knuckle.

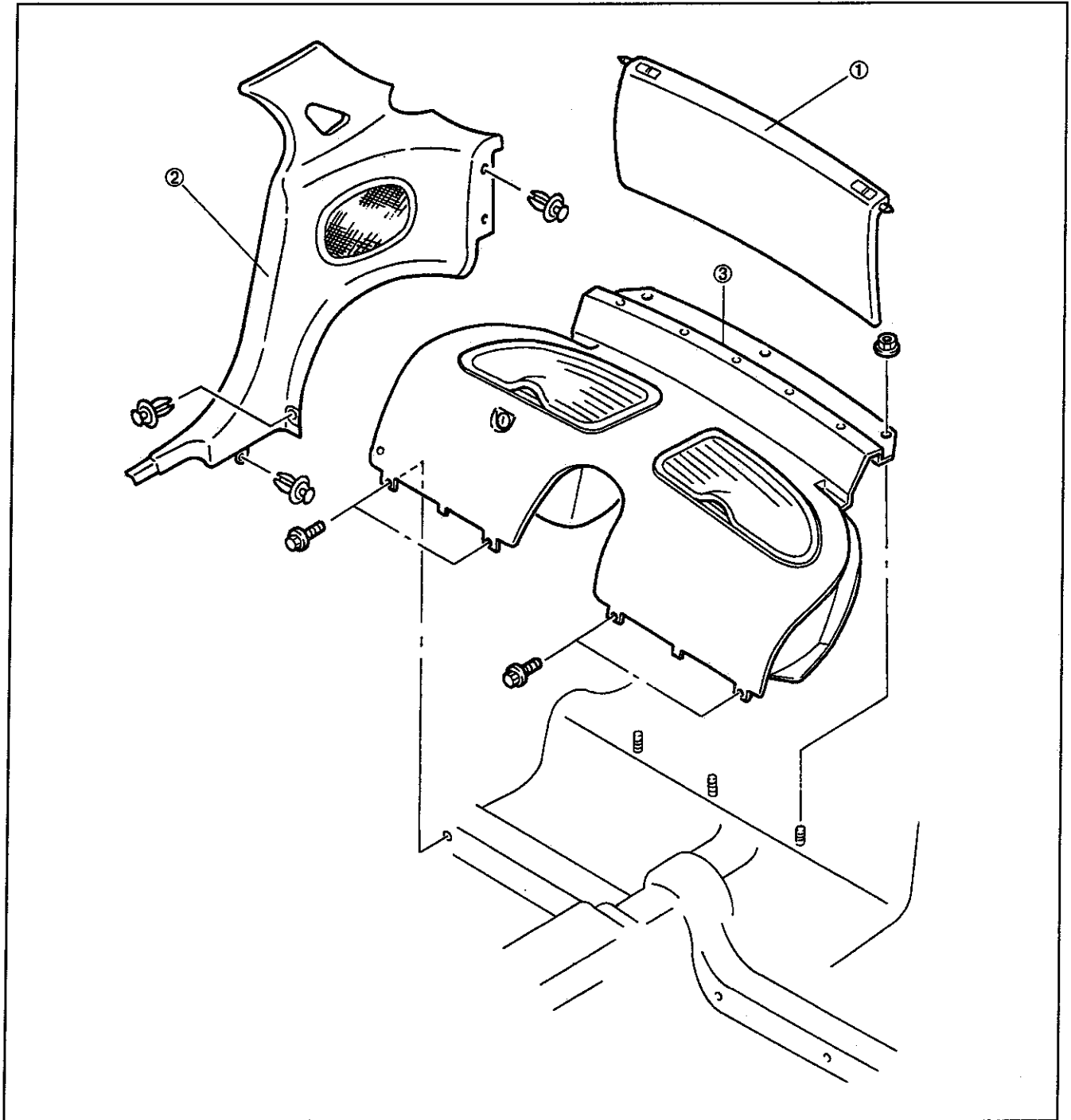


STORAGE COMPARTMENT

COMPONENTS

Removal / Installation

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



1. Luggage compartment panel

3. Storage compartment

2. Quarter trim

Removal / Installation S-55