

WINDOW GLASS

WINDSHIELD REMOVAL

1. Remove the cowl grille. (Refer to EXTERIOR ATTACHMENT, COWL GRILLE REMOVAL/INSTALLATION.)
2. Apply protective tape to the headliner, the body and the dashboard.

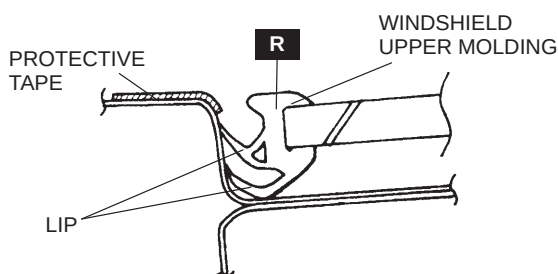
Warning

- Using a razor knife with bare hands can cause injury. Always wear gloves when using a razor knife.

Note

- The windshield upper molding and windshield side molding are replacement parts.

3. Cut the lip of the windshield upper molding using a razor knife.



Not Reusing Windshield

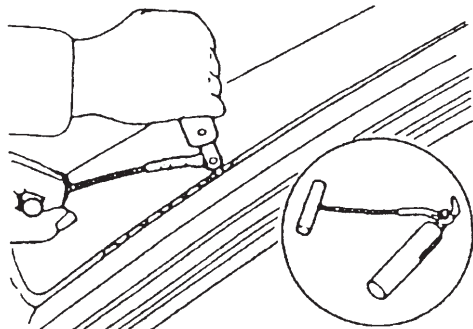
Warning

- Using a piano wire with bare hands can cause injury. Always wear gloves when using a piano wire.

Note

- For the areas of the sealant that are difficult to cut, use a piano wire and follow the procedures under "Reusing Windshield".

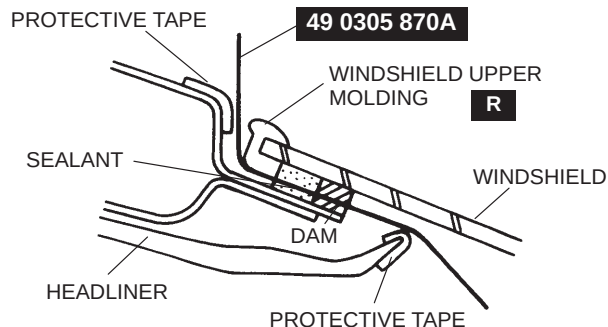
1. Use a tool like that shown in the figure, and insert the blade into the sealant.
2. Pull through the sealant around the edge of the glass.



3. Remove the windshield.
4. Remove the spacers from the body.

Reusing Windshield

1. Make a hole through the sealant from the inside of the vehicle using an awl.
2. Pass the SST (piano wire) through the hole.

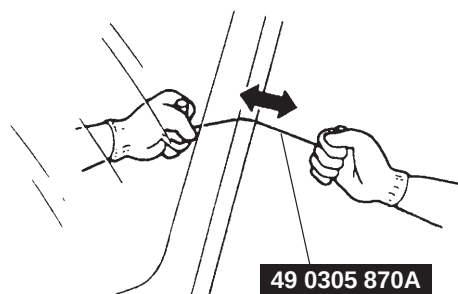


3. Wind each end of the wire around a bar.

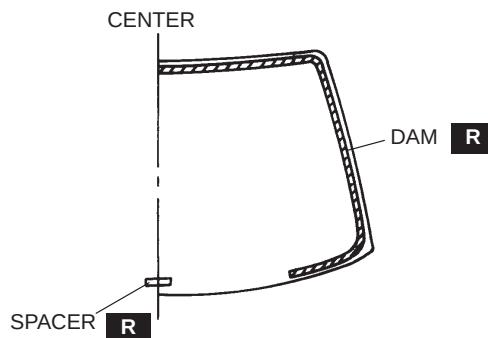
Note

- Use the entire length of piano wire to prevent it from breaking when cutting through the sealant.

4. Working with another person, saw through the sealant around the edge of the glass, being careful not to damage the body.

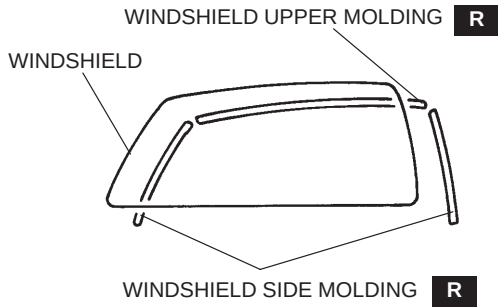


5. Remove the windshield.
6. Remove the spacers from the body.
7. Remove the spacer and the dam from the glass.



8. Remove the windshield upper molding and the windshield side molding from the windshield.

WINDOW GLASS



WINDSHIELD INSTALLATION

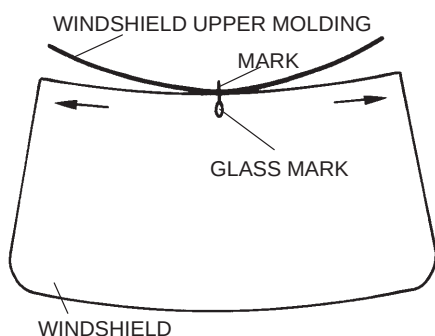
Warning

- Using a razor knife with bare hands can cause injury. Always wear gloves when using a razor knife.

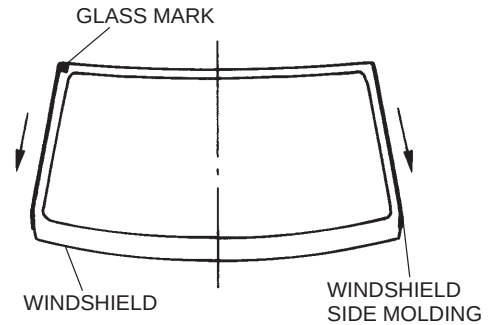
Caution

- To prevent the sealant from cracking or the glass from being pushed out by air pressure if a door is closed, open all of the windows and leave them open until the sealant has hardened.

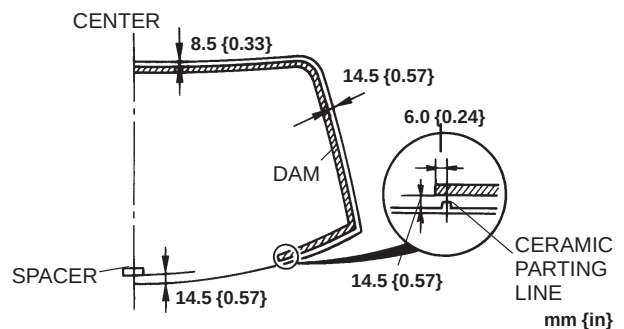
1. Cut away the old sealant using a razor knife so that **1—2 mm {0.04—0.07 in}** thickness of sealant remains around the circumference of the frame. If all the sealant has come off in any one place, apply some primer after degreasing, and allow it **30 minutes** to dry. Then put on new sealant to create a **2 mm {0.08 in}** layer.
2. Clean and degrease an **approximately 50 mm {1.97 in}** wide strip around the circumference of the glass and the bonding area on the body.
3. Align the center mark on the windshield upper molding with the glass mark.
4. Install the windshield upper molding from the center toward both sides.



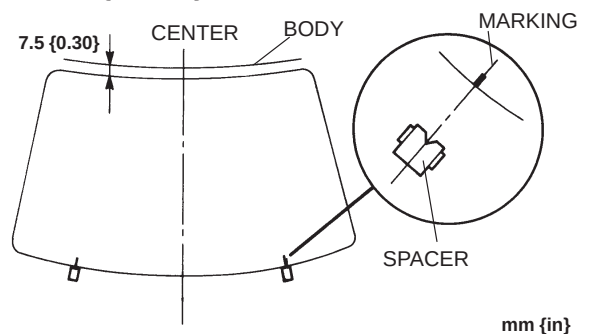
5. Align the upper edge of the windshield side molding with the glass mark.
6. Install the windshield side molding from the upper part towards the lower part.



7. Securely bond a dam along the circumference of the glass **8.5 mm {0.33 in}** from the upper edge and **14.5 mm {0.57 in}** from the lower and side edge.
8. Install the spacer to the glass.



9. Install spacers into the hole of the body.
10. Temporarily install the glass onto the body and adjust the glass to body clearance.
11. Make a mark on the glass directly above the V-notch of spacers.
12. Verify that the gap along the upper edge is **7.5 mm {0.30 in}**.



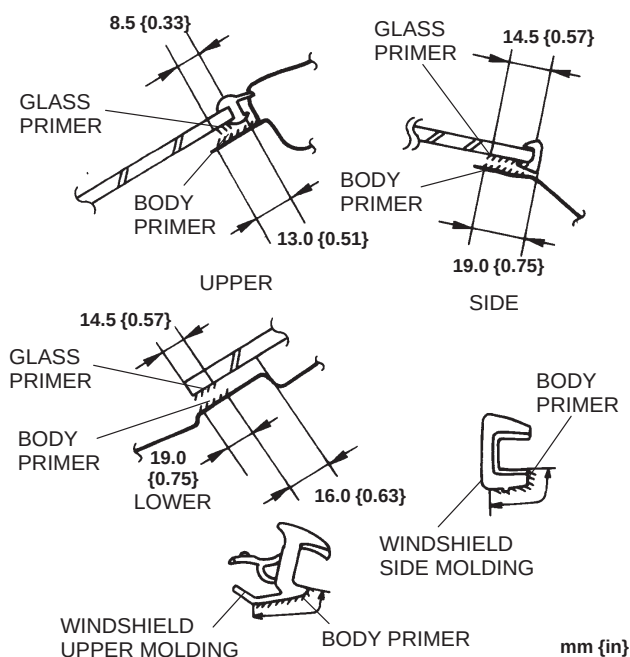
13. Remove the windshield.

Caution

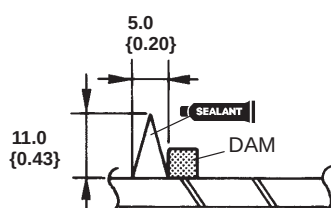
- Keep the area free of dirt and grease, and do not touch the surface or the primer may not properly bond to the surface of the glass and body, which may cause leaks to occur.

14. Use a brush to apply primer to the bonding area of the glass and body within the region shown. Use only glass primer on the glass and body primer on the body and molding. Allow it to dry for **approximately 30 minutes**.

WINDOW GLASS

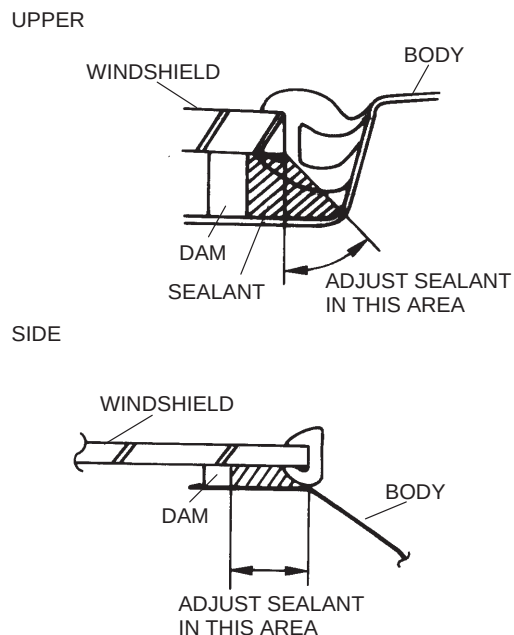


15. Once the primer is dry, apply a **11.0 mm {0.43 in}** high, **5.0 mm {0.20 in}** wide bead of sealant along the dam around the entire circumference to fill the gap between the dam and the edge of the windshield.



mm {in}

16. Align the glass marks with the V-notches in spacers and install the glass onto the body.
 17. Press firmly inward on the glass to compress the sealant.
 18. Verify that the gap along the upper and side edge is **7.5 mm {0.30 in}**.
 19. Adjust the sealant as indicated in the figure.



Hardening time of sealant

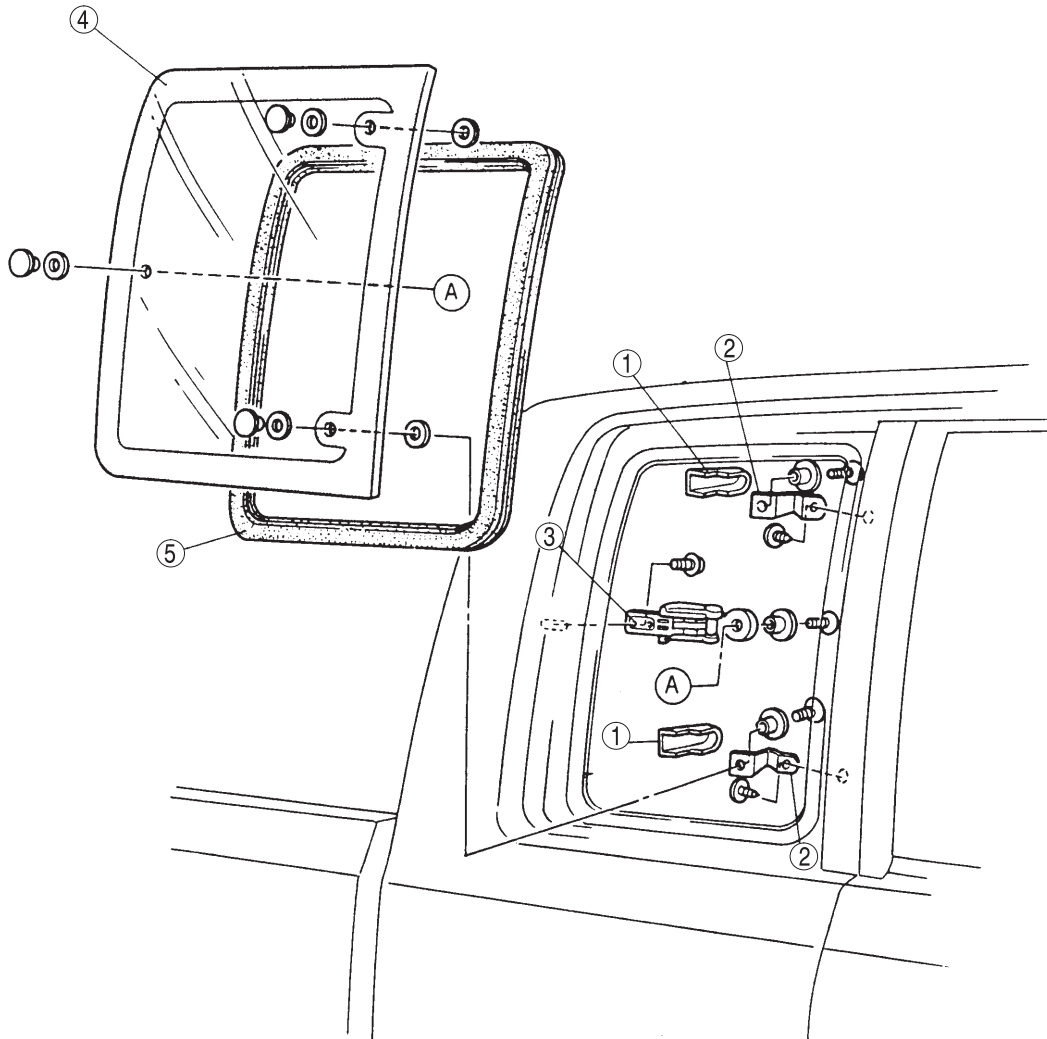
Temperature	Surface hardening time	Time required until car can be put into service
5 °C {41 °F}	Approx. 1.5 h	Approx. 12 h
20 °C {68 °F}	Approx. 1 h	Approx. 4 h
35 °C {95 °F}	Approx. 10 min	Approx. 2 h

20. Use white gasoline to remove any sealant that oozes out.
 21. Install the cowl grille. (Refer to EXTERIOR ATTACHMENT, COWL GRILLE REMOVAL/INSTALLATION.)

WINDOW GLASS

QUARTER WINDOW GLASS REMOVAL/INSTALLATION (STRETCH CAB – 2 DOOR)

1. To remove the quarter window hinge, remove the quarter upper trim. (Refer to TRIM, QUARTER UPPER TRIM REMOVAL/INSTALLATION.)
2. Remove in the order indicated in the table.
3. Install in the reverse order of removal.



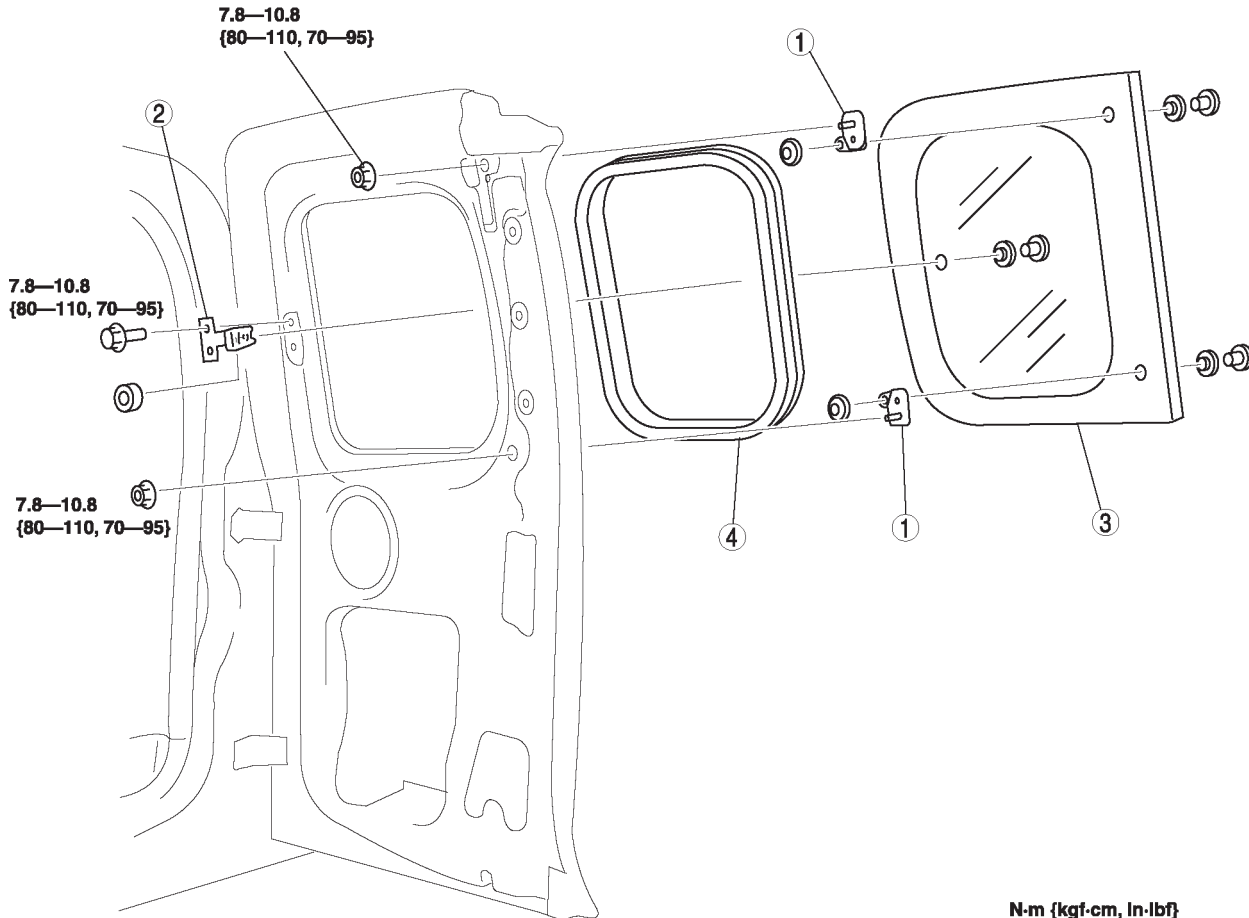
1	Hinge cover
2	Quarter window hinge
3	Quarter window lock

4	Quarter window glass
5	Quarter window glass weatherstrip

WINDOW GLASS

QUARTER WINDOW GLASS REMOVAL/INSTALLATION (STRETCH CAB – 4 DOOR)

1. Remove the rear access panel trim. (See REAR ACCESS PANEL TRIM REMOVAL/INSTALLATION.)
2. Remove the upper latch. (See REAR ACCESS PANEL DISASSEMBLY/ASSEMBLY.)
3. Remove in the order indicated in the table.
4. Install in the reverse order of the removal.



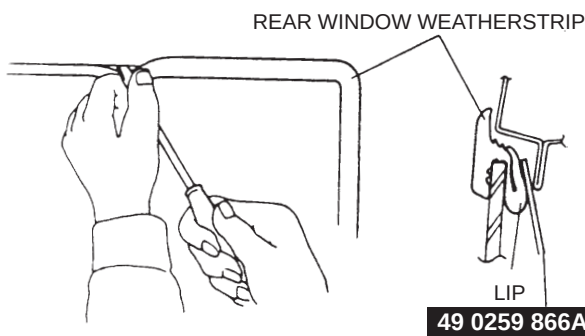
N·m {kgf·cm, in·lbf}

1	Quarter window hinge
2	Quarter window lock

3	Quarter window glass
4	Weatherstrip

REAR WINDOW GLASS REMOVAL

1. Remove the headliner. (Refer to HEADLINER, HEADLINER REMOVAL/INSTALLATION.)
2. Remove the rear window defroster connector if equipped.
3. While another person presses the rear window glass, use the **SST** to push the lip of the rear window weatherstrip from the inside.



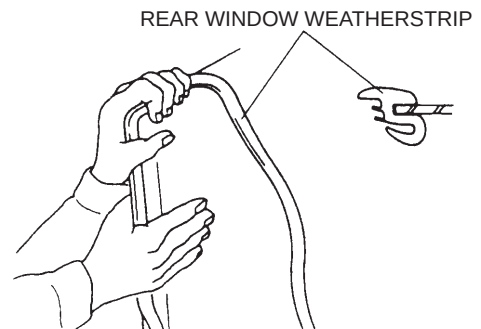
4. After the top of the rear window weatherstrip is removed, push the rear window glass outside and

remove it with the rear window weatherstrip attached.

5. Remove the rear window weatherstrip from the rear window glass.

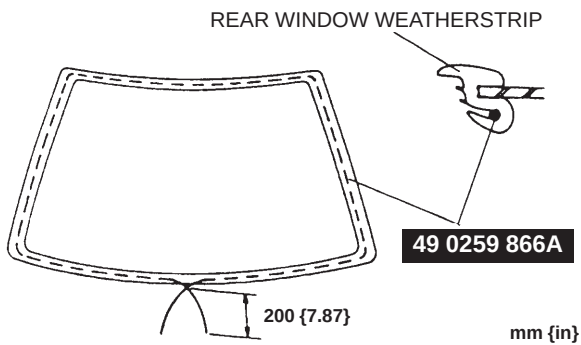
REAR WINDOW GLASS INSTALLATION

1. Clean and degrease the body and the rear window glass.
2. Install the rear window weatherstrip to the rear window glass.

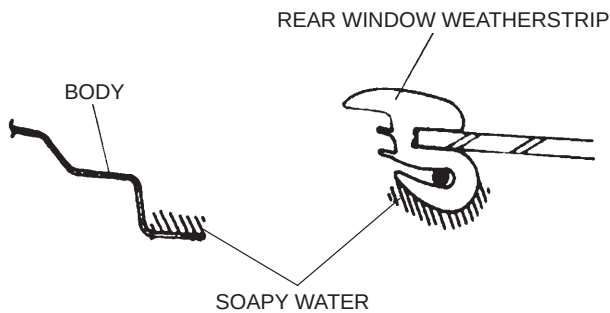


WINDOW GLASS

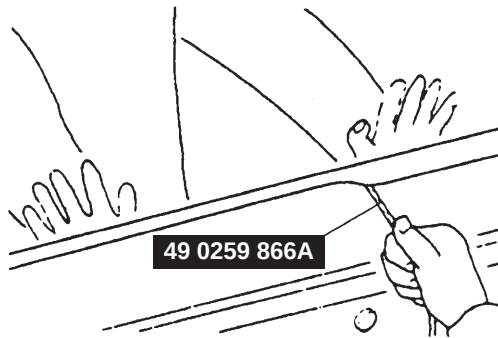
- Fit the **SST** into the rear window weatherstrip and cross the ends as shown, leave **200 mm {7.87 in}**.



- Apply soapy water as shown.



- Align the rear window glass with the rear window weatherstrip and body.
- While another person lightly taps the outside of the rear window glass near the rear window weatherstrip all around its circumference, pull one end of the **SST** and install the rear window glass.



- Install the rear window defroster connector if equipped.
- Install the headliner. (Refer to HEADLINER, HEADLINER REMOVAL/INSTALLATION.)