

13. Windshield Glass

A: REMOVAL

1. USING WINDSHIELD GLASS KNIFE

1) Disconnect the ground cable from battery. (Models with wiper deicer) <Ref. to NT-5, BATTERY, NOTE, Note.>

NOTE:

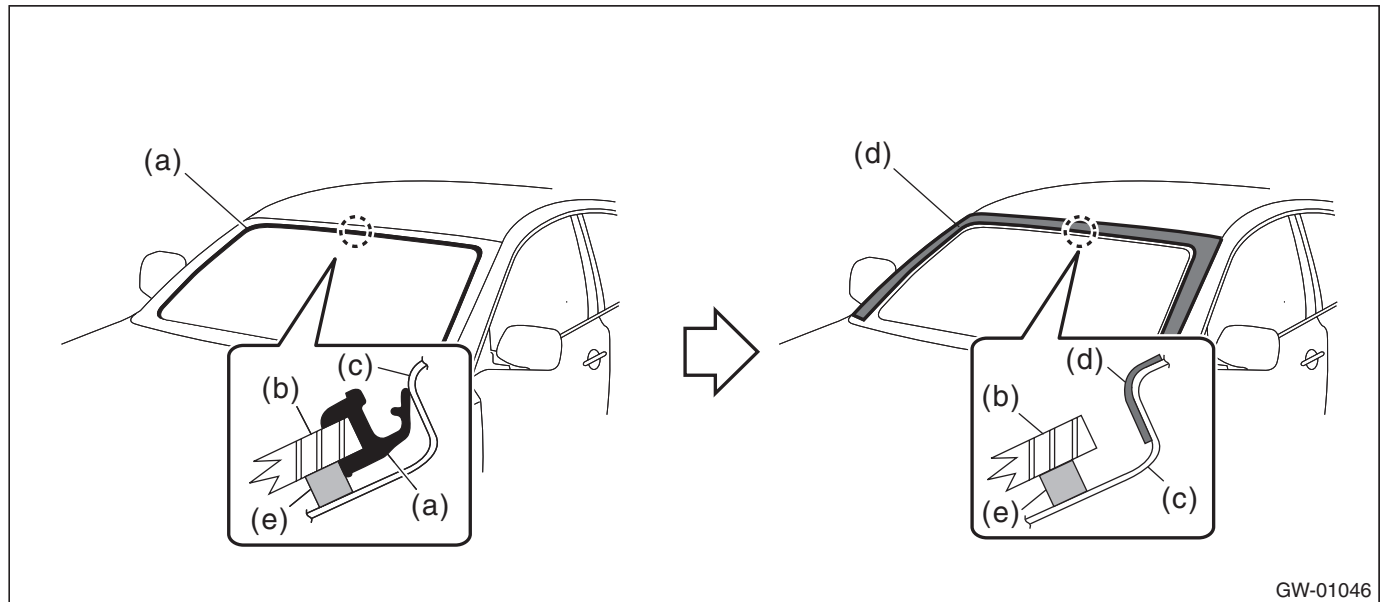
For models other than STI model, disconnect the ground terminal from battery sensor.

2) Remove the trim panel - front pillar UPR. <Ref. to EI-85, REMOVAL, Upper Inner Trim.>

3) Remove the cowl panel assembly. <Ref. to EI-45, REMOVAL, Cowl Panel.>

4) Disconnect the wiper deicer connector. (Models with wiper deicer)

5) Remove the molding - front window from the glass - front window, and attach protective tape on the body side of the circumference of the glass - front window.



GW-01046

(a) Molding - front window

(b) Glass - front window

(c) Body panel

(d) Protective tape

(e) Adhesive

Windshield Glass

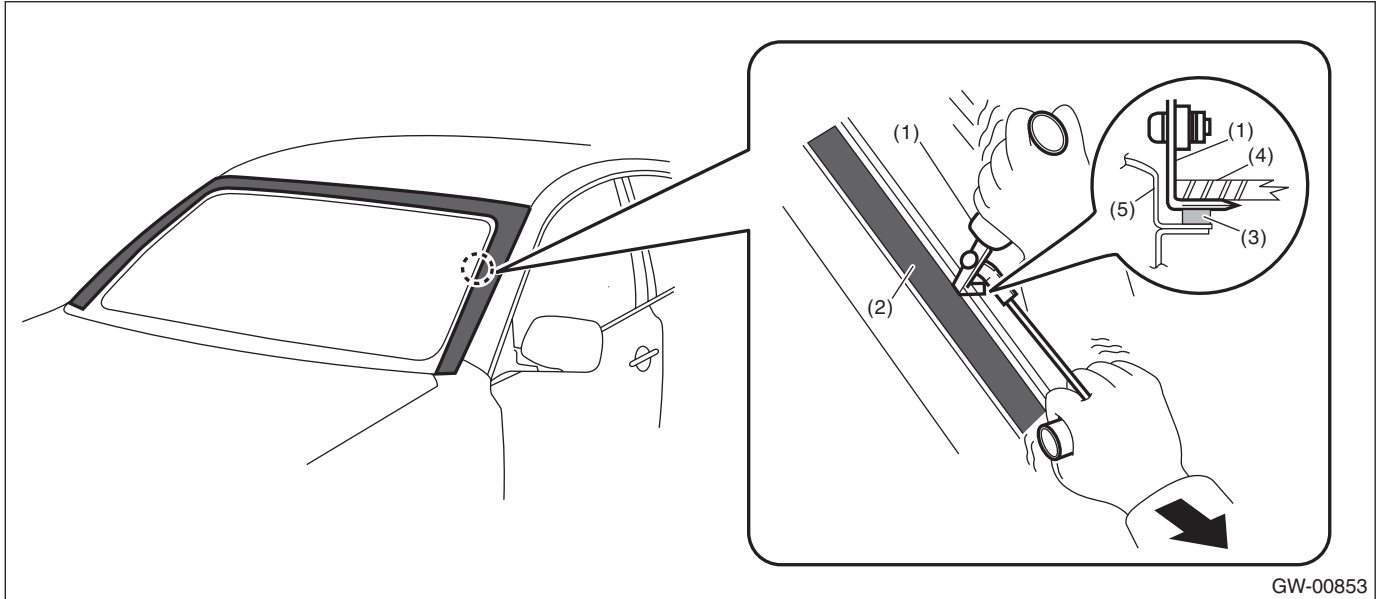
GLASS/WINDOWS/MIRRORS

6) Remove the glass - front window.

- (1) Apply sufficient amount of soapy water to the adhesive part and insert the windshield glass knife.
- (2) While holding the edges of the knife and the glass - front window at a right angle, move the windshield glass knife parallel to the edge of the glass - front window, and cut the adhesive along the surface and the edge of the glass - front window.

CAUTION:

- Cutting of adhesive part should be started from an area with wider gap between the glass - front window and the body.
- Never twist the windshield glass knife.



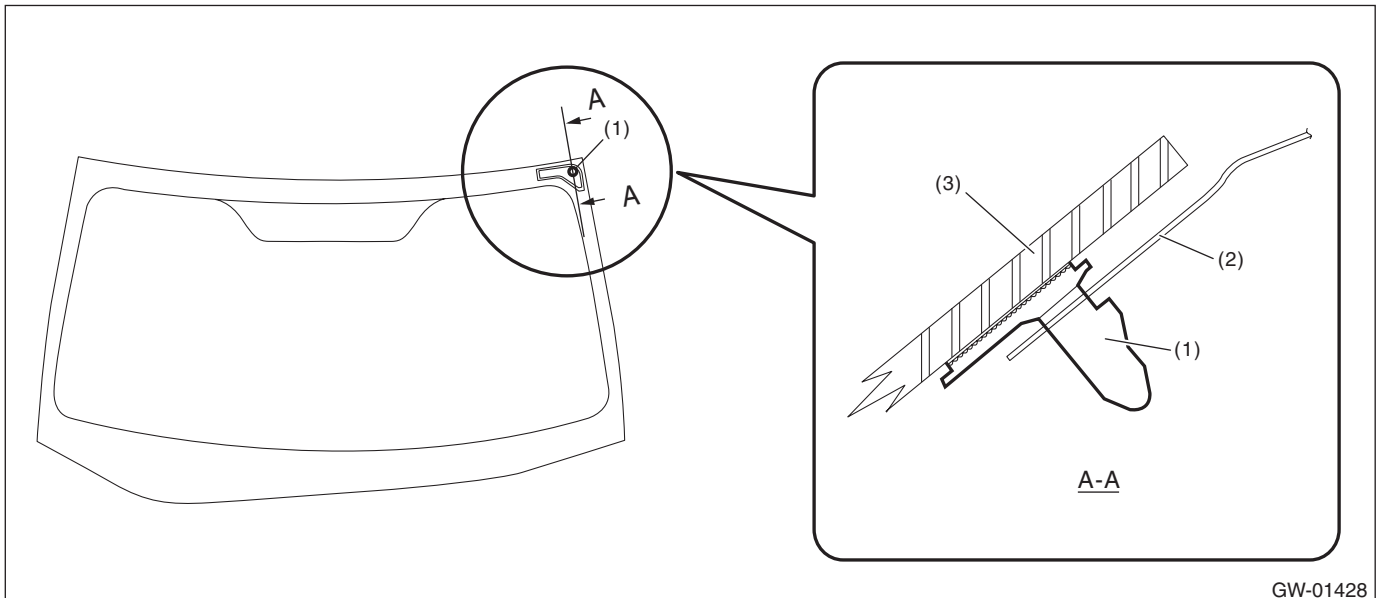
GW-00853

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| (1) Windshield glass knife | (3) Adhesive | (5) Body panel |
| (2) Protective tape | (4) Glass - front window | |

(3) Disconnect the locating pin - front window, and remove the glass - front window.

NOTE:

The locating pin - front window are bonded to the corners of the glass - front window. Use piano wire to disconnect the pins.



GW-01428

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| (1) Locating pin - front window | (2) Body panel | (3) Glass - front window |
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2. USING PIANO WIRE

CAUTION:

- Do not tightly pull the piano wire against the glass - front window edge.
- Apply protective tape, etc, and be careful that the inner and outer components of the vehicle are not damaged.
- Do not cross piano wires. Otherwise they may be cut.

1) Disconnect the ground cable from battery. (Models with wiper deicer) <Ref. to NT-5, BATTERY, NOTE, Note.>

NOTE:

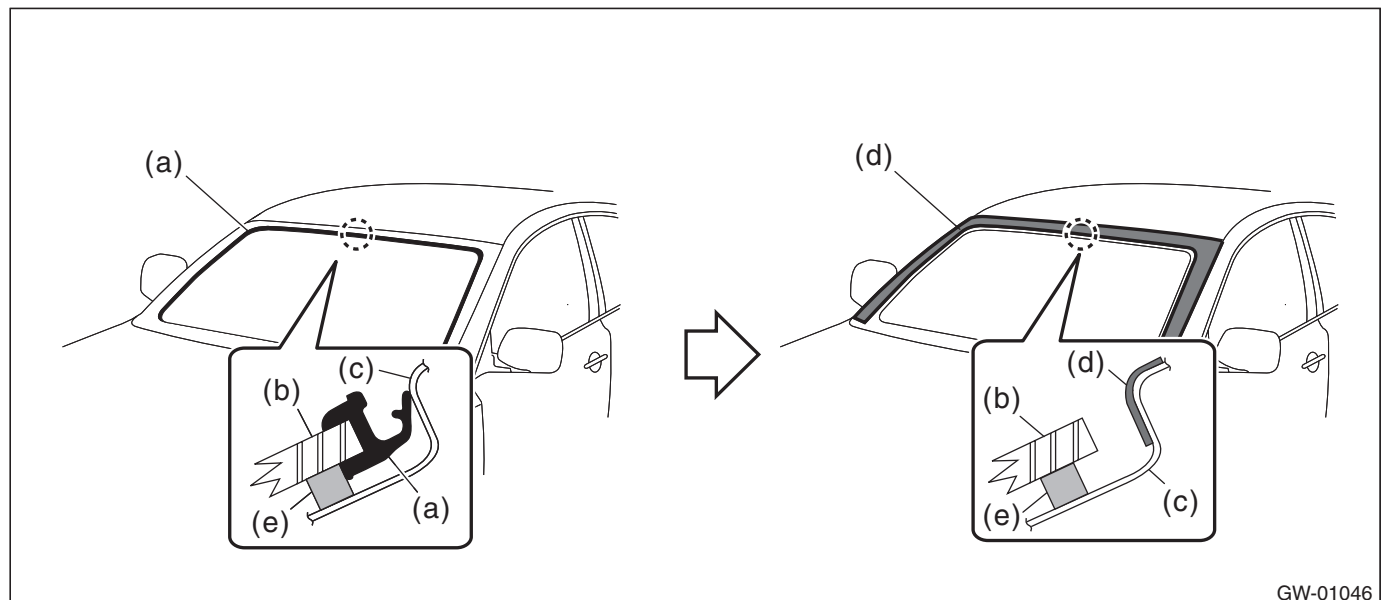
For models other than STI model, disconnect the ground terminal from battery sensor.

2) Remove the trim panel - front pillar UPR. <Ref. to EI-85, REMOVAL, Upper Inner Trim.>

3) Remove the cowl panel assembly. <Ref. to EI-45, REMOVAL, Cowl Panel.>

4) Disconnect the wiper deicer connector. (Models with wiper deicer)

5) Remove the molding - front window from the glass - front window, and attach protective tape on the body side of the circumference of the glass - front window.



GW-01046

(a) Molding - front window

(b) Glass - front window

(c) Body panel

(d) Protective tape

(e) Adhesive

Windshield Glass

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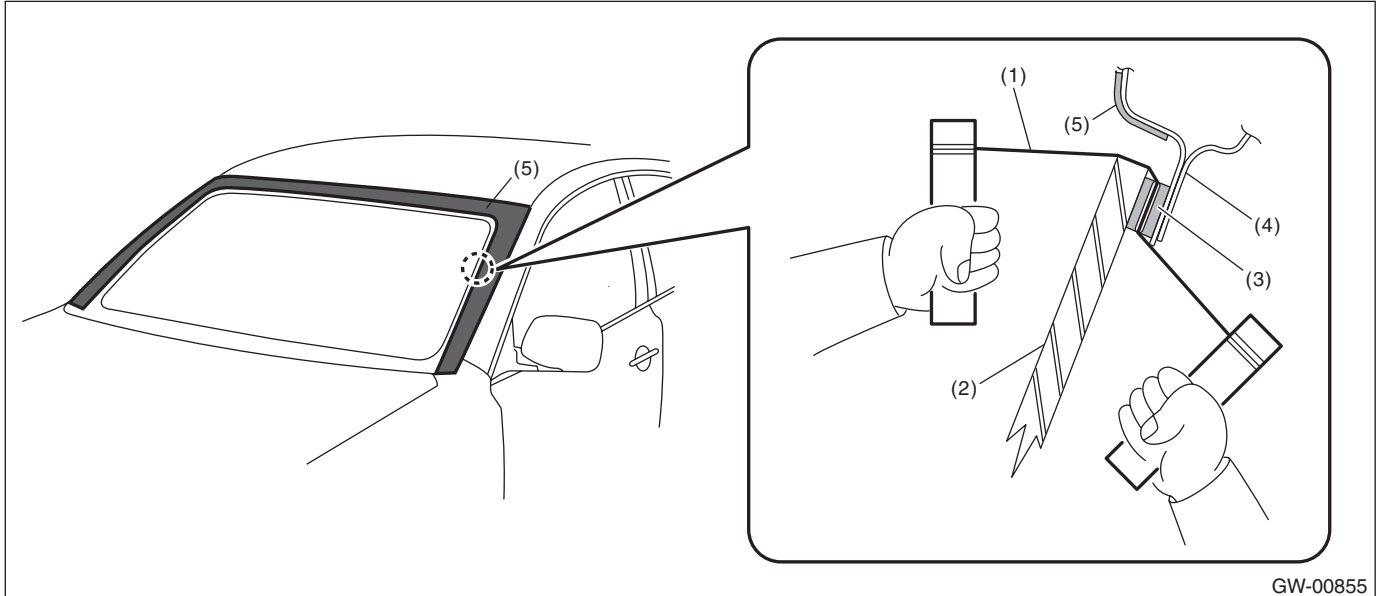
6) Remove the glass - front window.

(1) Using a drill, make a hole in the adhesive part.

(2) Pass the piano wire through the hole, and pull the wire ends alternately to cut off the adhesive part and the locating pin - front window.

CAUTION:

Attach a piece of wood to both piano wire ends.



GW-00855

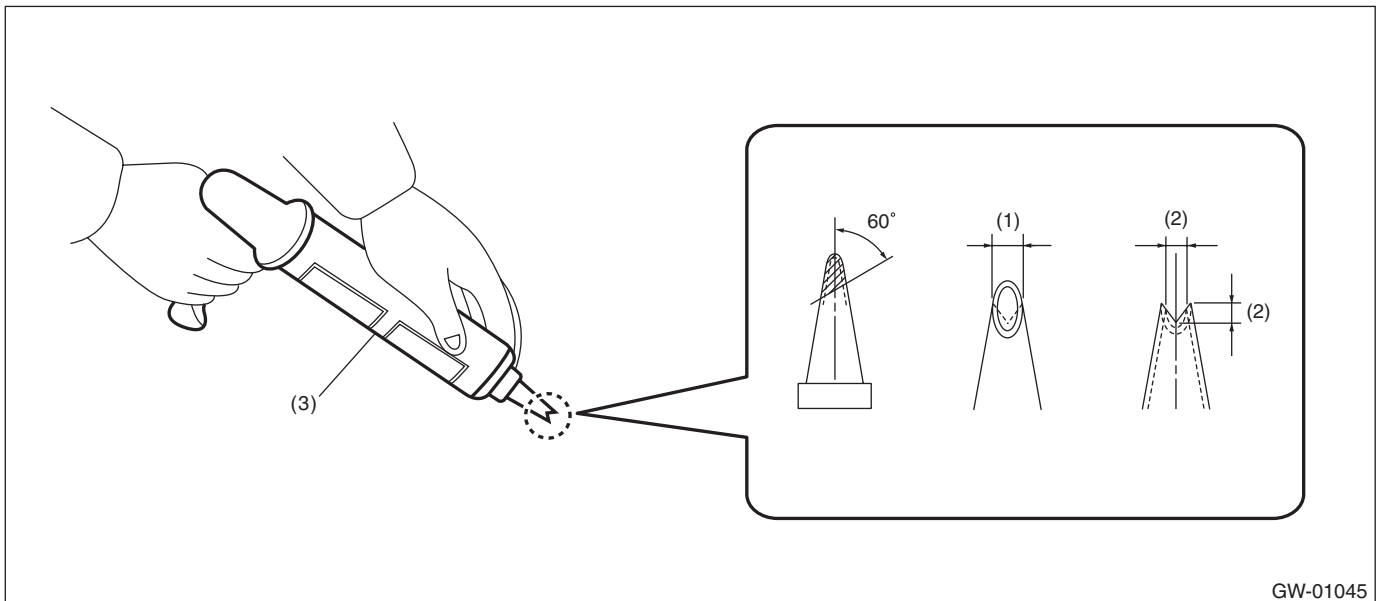
- (1) Piano wire
(2) Glass - front window

- (3) Adhesive
(4) Body panel

- (5) Protective tape

B: INSTALLATION

1) Fabricate the cartridge nozzle tip as shown and set the sealant gun with the adhesive.



GW-01045

- (1) 10 mm (0.39 in)

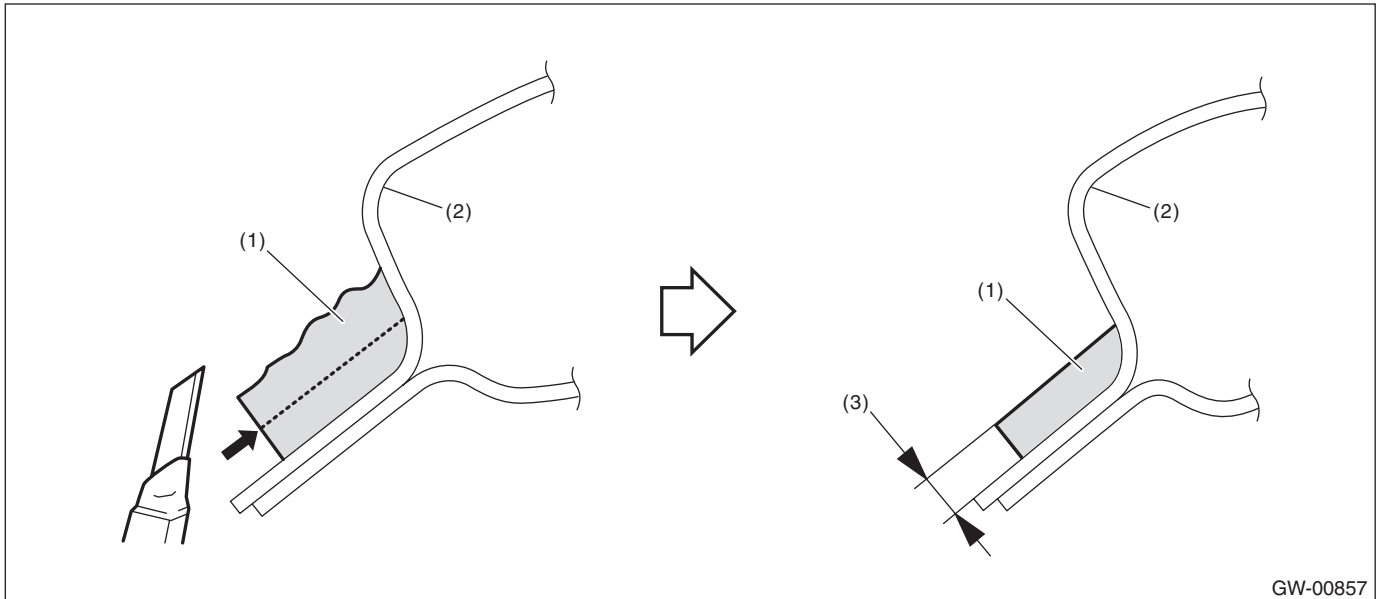
- (2) 8 mm (0.31 in)

- (3) Sealant gun

2) Remove the adhesive layer on the body using cutter knife to obtain smooth face of 2 mm (0.08 in) thick.

CAUTION:

- Be careful not to damage the body and paint surface.
- Be sure to keep some of old adhesive.



GW-00857

(1) Adhesive

(2) Body panel

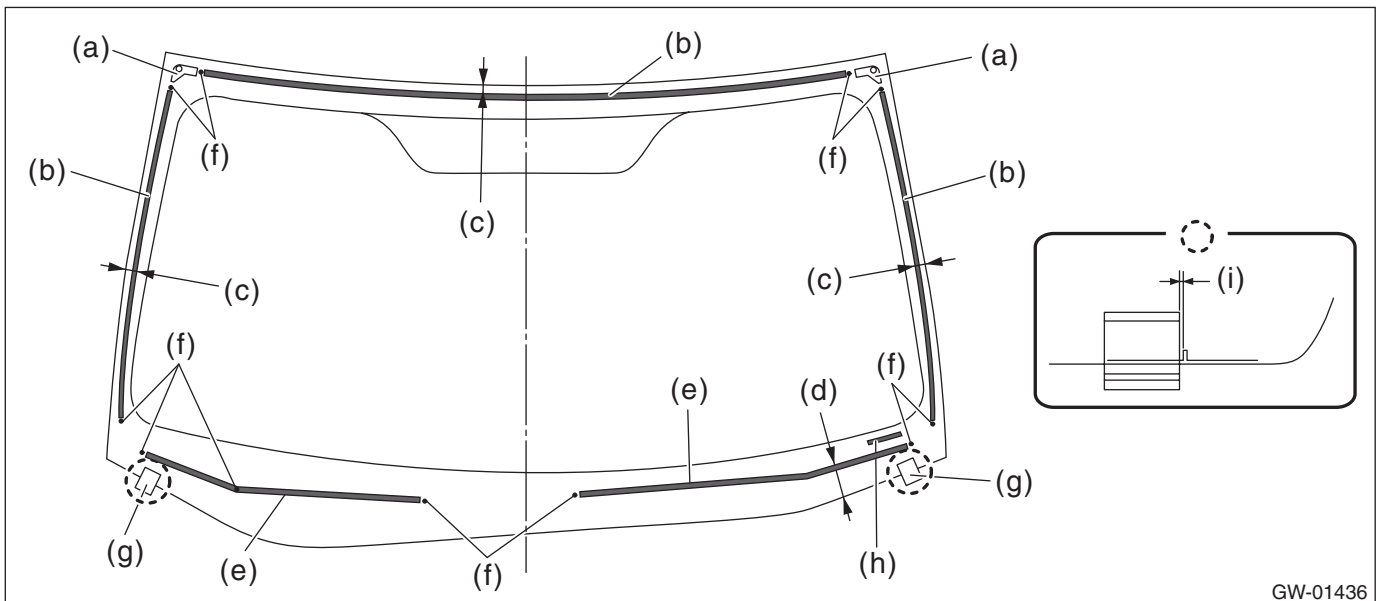
(3) 2 mm (0.08 in)

3) Clean the glass - front window and the body with alcohol or appropriate cleaning solvent to completely eliminate cutting powder, dust and dirt.

4) Attach the dam rubber - front to the glass - front window.

CAUTION:

- Attach the driver's side dam rubber - front lower to the constant distance of 19.1 mm (0.75 in) from the glass end.
- Attach the passenger's side dam rubber - front lower straight between the dam rubber set marks while aligning with the dam rubber set mark.



GW-01436

(a) Locating pin - front window

(b) Dam rubber - front upper

(c) 16 mm (0.63 in)

(d) 19.1 mm (0.75 in)

(e) Dam rubber - front lower

(f) Dam rubber set mark

(g) Seal - lower

(h) Seal - lower VIN

(i) 0+5 mm (0+0.2 in)

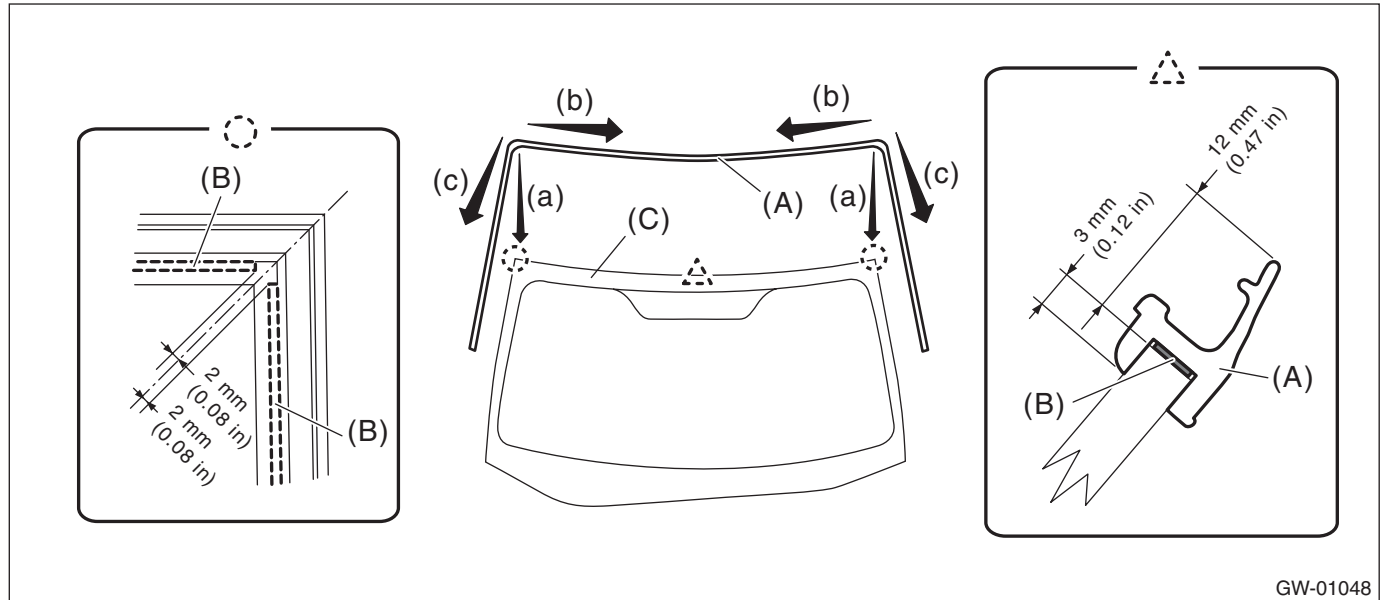
Windshield Glass

GLASS/WINDOWS/MIRRORS

5) Attach the molding - front window to the glass - front window.

CAUTION:

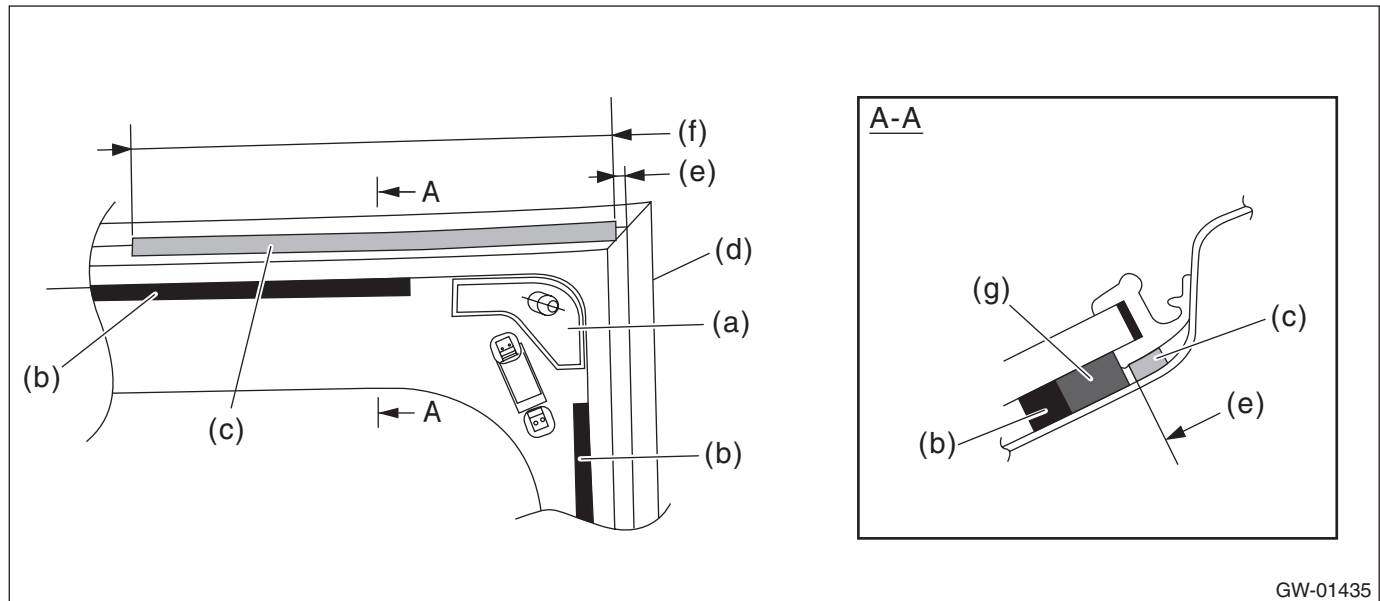
Be careful to attach the molding - front window so that the molding has no loose or undulating part.



GW-01048

- (1) Align the molding - front window (A) to the upper ends (a) of the glass - front window (C).
- (2) Install the molding - front window from both corners of the upper edge toward the center (b).
- (3) Install the molding - front window from both corners of the upper edge toward the lower side (c).
- (4) Firmly apply the double sided tape (B) of the molding - front window evenly to the surface of the glass - front window.

6) Attach the seal - upper to the molding - front window.



GW-01435

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|---------------------------------|----------------------------|--------------|
| (a) Locating pin - front window | (d) Molding - front window | (g) Adhesive |
| (b) Dam rubber - front upper | (e) 0+3 mm (0+0.12 in) | |
| (c) Seal - upper | (f) 165 mm (6.50 in) | |

7) Install the glass - front window.

(1) Apply the primer to the adhesive surface of glass - front window side and body side using sponge.

Glass primer:

Dow Automotive's

ESSEX U-401, U-402 or equivalent

Painted surface primer:

Dow Automotive's

ESSEX U-413 or equivalent

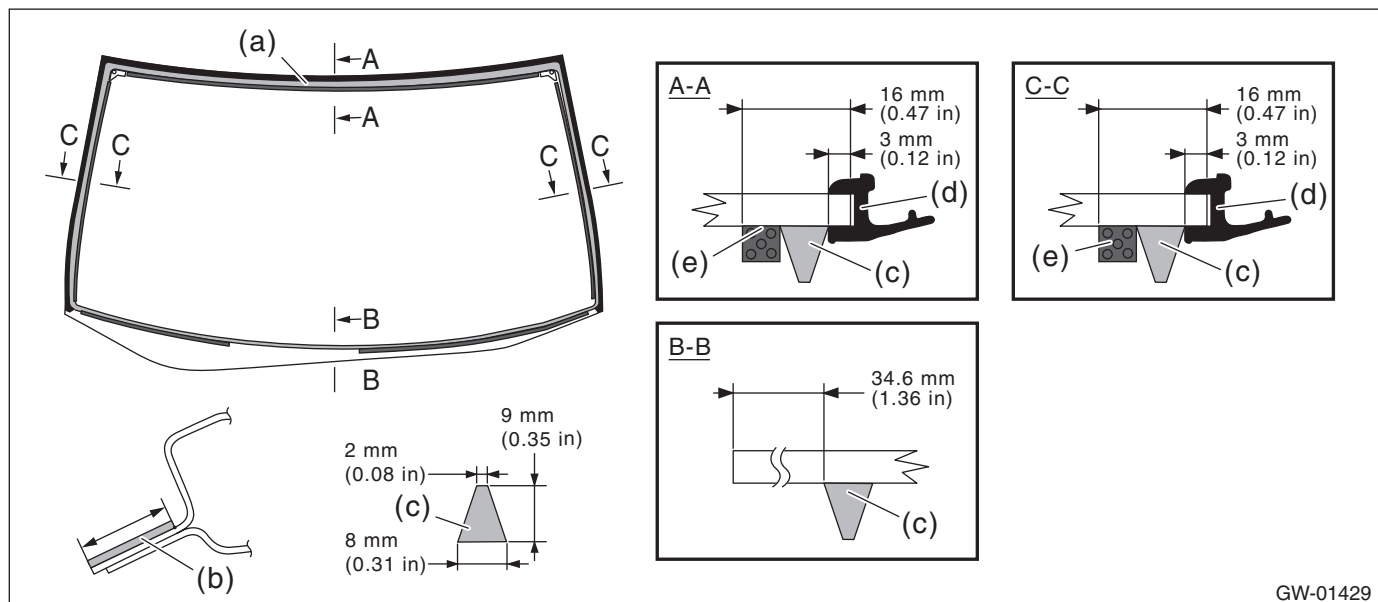
NOTE:

- Primer once attached to the painted surface of the body and internal trim is hard to wipe off. Mask the circumference of such area.
 - Let primer dry for about ten minutes before installing the glass - front window.
 - Do not touch the surface coated with primer.
- (2) Apply adhesive to the end back surface of the glass - front window.

Adhesive:

Dow Automotive's

ESSEX U-400HV or equivalent



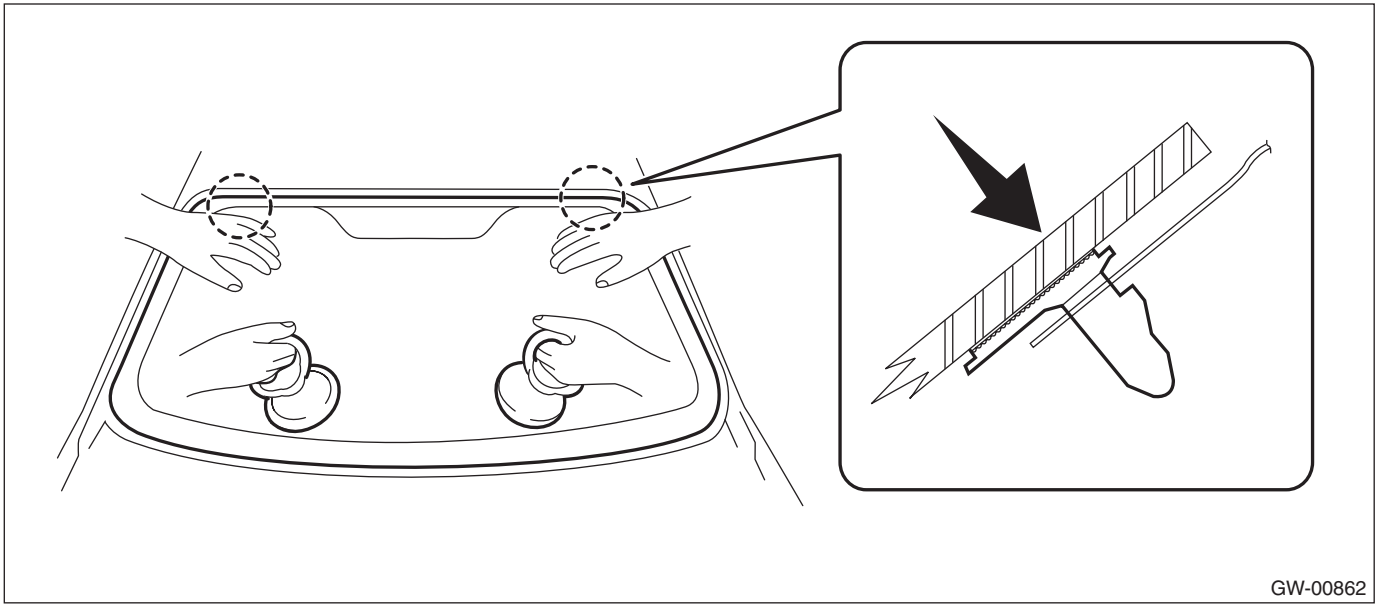
GW-01429

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| (a) Application of primer (glass side) | (c) Adhesive | (e) Dam rubber - front |
| (b) Application of primer (body side) | (d) Molding - front window | |

Windshield Glass

GLASS/WINDOWS/MIRRORS

- (3) Fit the locating pins - front window to the vehicle body using suction rubber cups to install the windshield glass.



- (4) Lightly press the entire perimeter of the glass - front window for tight fit.

- (5) Make flush the adhesive surface jugged out using spatula.

- 8) After completion of all work, allow the vehicle to stand for about 24 hours.

NOTE:

- When opening/closing the door after the glass - front window was bonded, always lower the glass assembly - door first, and then open/close it carefully.
- Move the vehicle slowly.
- For minimum drying time and vehicle standing time before driving after bonding, follow instructions or instruction manual from the adhesive manufacturer.

- 9) Connect the wiper deicer connector. (Models with wiper deicer)

- 10) Install the cowl panel assembly. <Ref. to EI-46, INSTALLATION, Cowl Panel.>

- 11) Install the trim panel - front pillar UPR. <Ref. to EI-87, INSTALLATION, Upper Inner Trim.>

- 12) Connect the battery ground terminal. (Models with wiper deicer) <Ref. to NT-5, BATTERY, NOTE, Note.>

NOTE:

For models other than STI model, connect the ground terminal to battery sensor.

- 13) After curing of adhesive, pour the water on external surface of vehicle to check that there are no water leaks.

NOTE:

When a vehicle is returned to the user, tell him or her that the vehicle should not be subjected to heavy impact for at least three days.