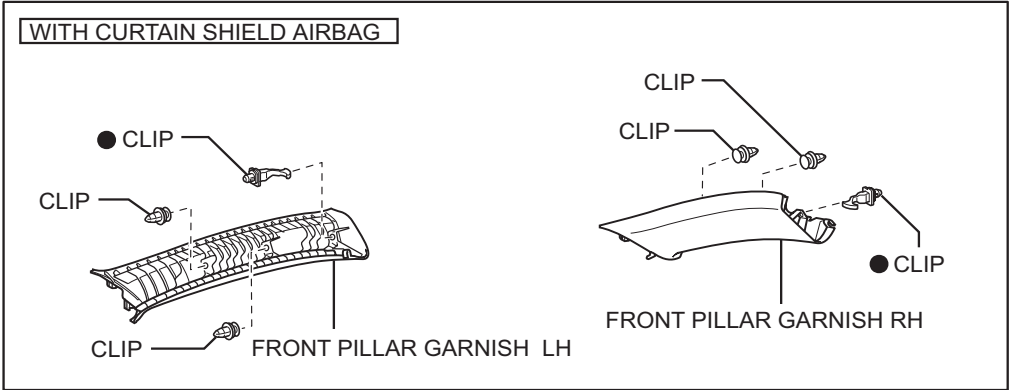
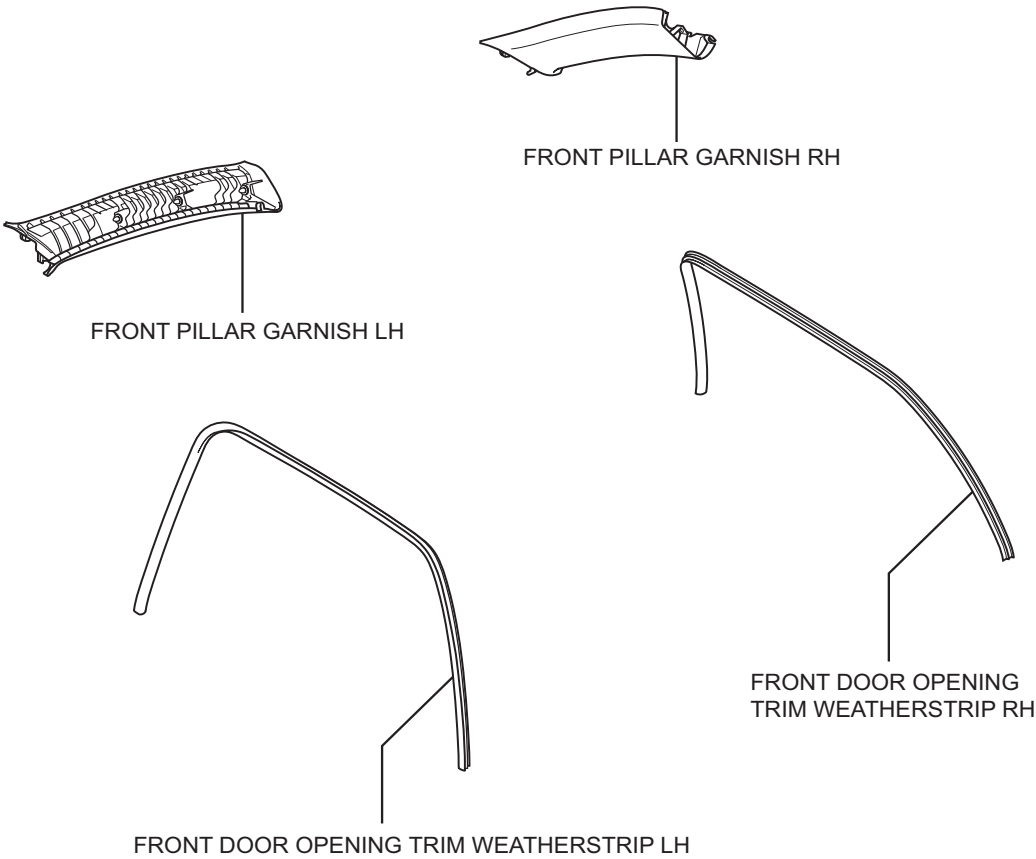


WINDSHIELD GLASS

COMPONENTS

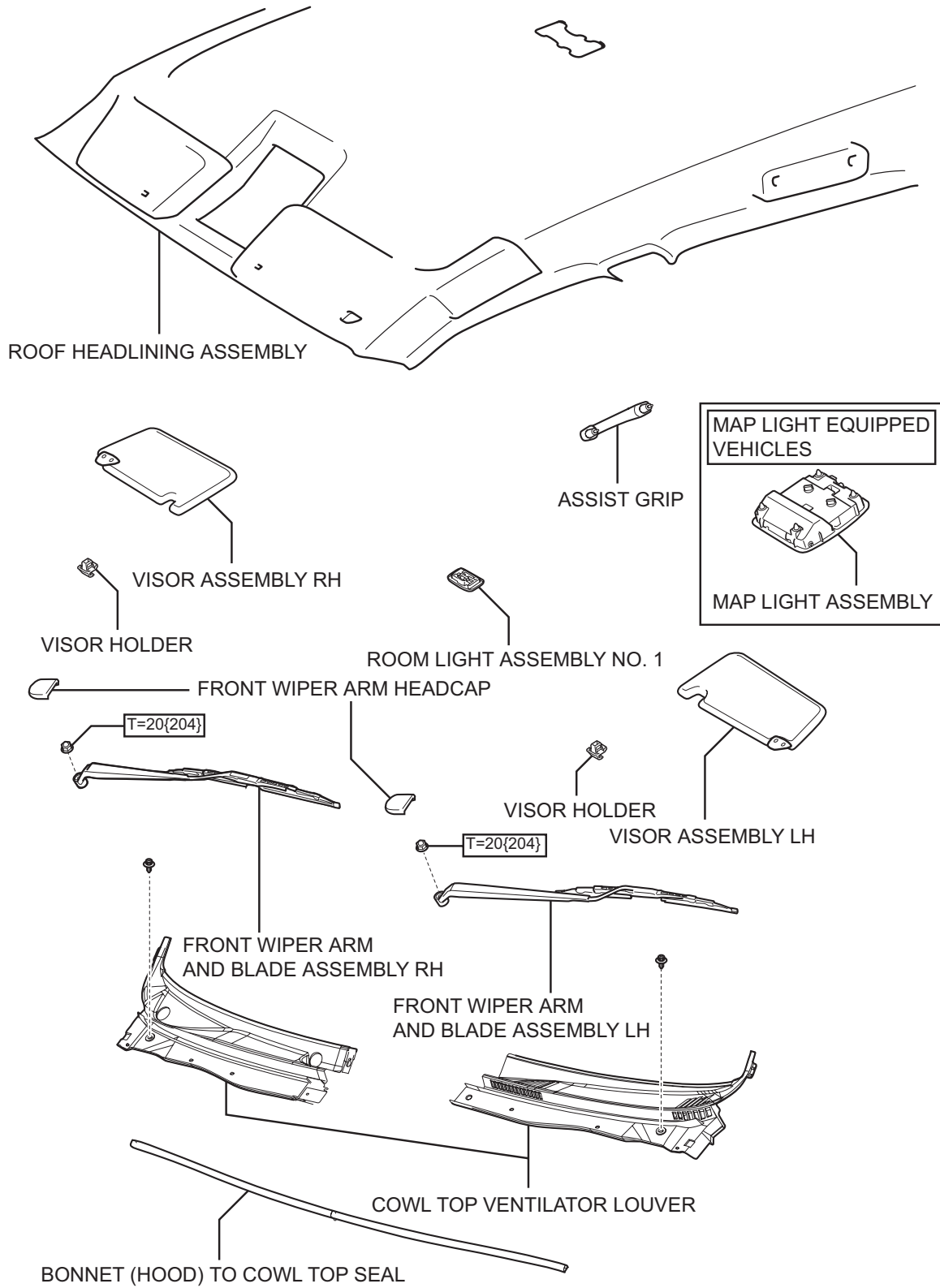


WS

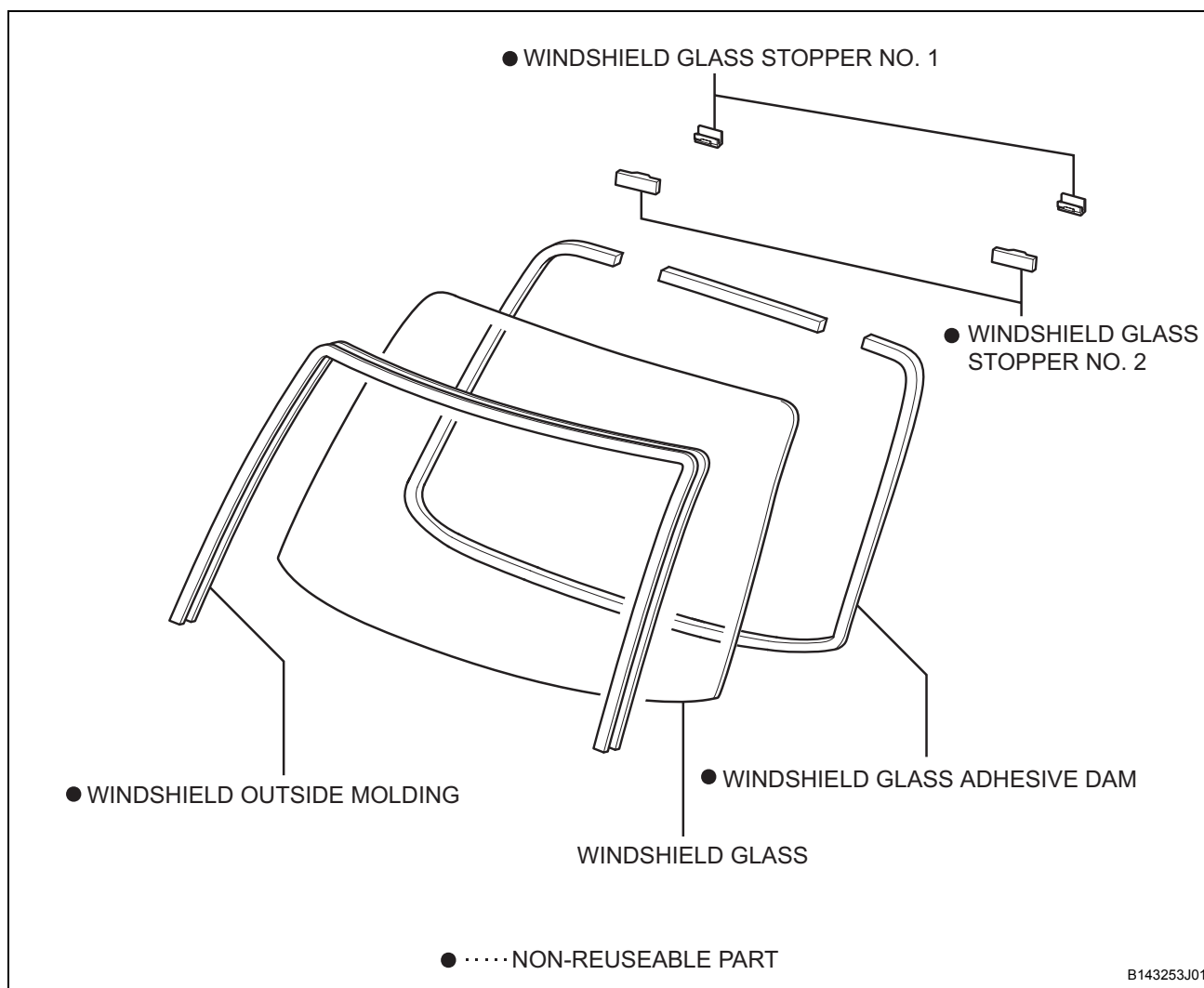


●.....NON-REUSEABLE PART





..... TIGHTENING TORQUE [N*m{kgf*cm}]



REMOVAL

1. DISCONNECT NEGATIVE BATTERY TERMINAL
2. REMOVE FRONT WIPER ARM AND BLADE ASSEMBLY RH (See page WW-5)
3. REMOVE FRONT WIPER ARM AND BLADE ASSEMBLY LH (See page WW-5)
4. REMOVE COWL TOP VENTILATOR LOUVER (See page WW-5)
5. REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP RH (See page IP-12)
6. REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP LH
7. REMOVE FRONT PILLAR GARNISH RH (WITHOUT CURTAIN SHIELD AIRBAG) (See page IP-12)
8. REMOVE FRONT PILLAR GARNISH LH (WITHOUT CURTAIN SHIELD AIRBAG)
9. REMOVE FRONT PILLAR GARNISH RH (WITH CURTAIN SHIELD AIRBAG) (See page IP-13)

10. REMOVE FRONT PILLAR GARNISH LH (WITH CURTAIN SHIELD AIRBAG)
11. REMOVE MAP LIGHT ASSEMBLY (WITH MAP LIGHT) (See page IR-6)
12. REMOVE ROOM LIGHT ASSEMBLY NO. 1 (WITHOUT MAP LIGHT) (See page IR-7)
13. REMOVE ASSIST GRIP (See page IR-7)
14. REMOVE VISOR ASSEMBLY RH (See page IR-7)
15. REMOVE VISOR ASSEMBLY LH
16. REMOVE VISOR HOLDER (See page IR-8)
17. REMOVE ROOF HEADLINING ASSEMBLY

HINT:

Partially remove the front side of the roof headlining assembly to allow the windshield glass to be removed or installed.

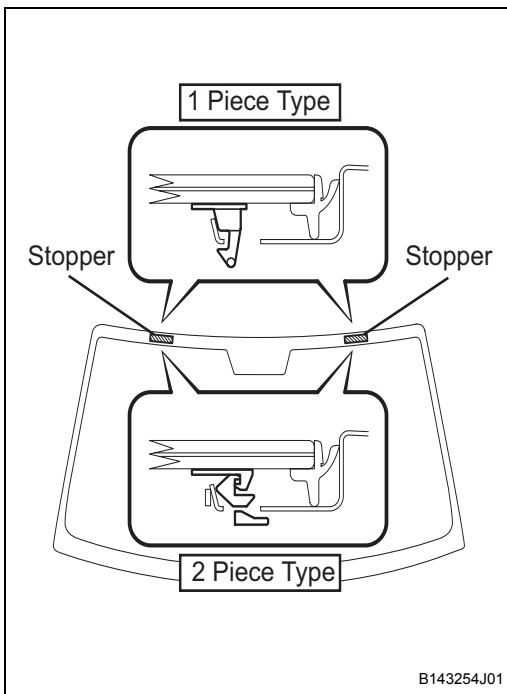
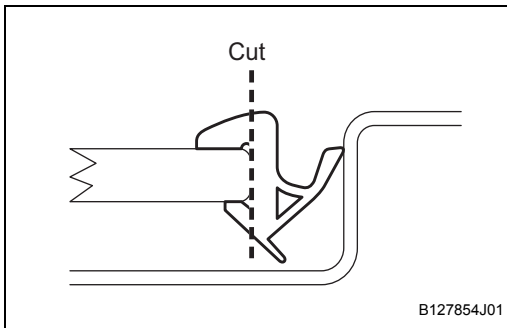
18. REMOVE WINDSHIELD OUTSIDE MOULDING

- (a) Using a cutter knife, cut off the part of the windshield outside moulding as illustrated.

NOTICE:

- Do not damage the windshield glass and body.
- If the body surface is damaged, apply an antirust treatment after removing the windshield glass.

- (b) Remove the windshield outside moulding by using your hand to pull it out.



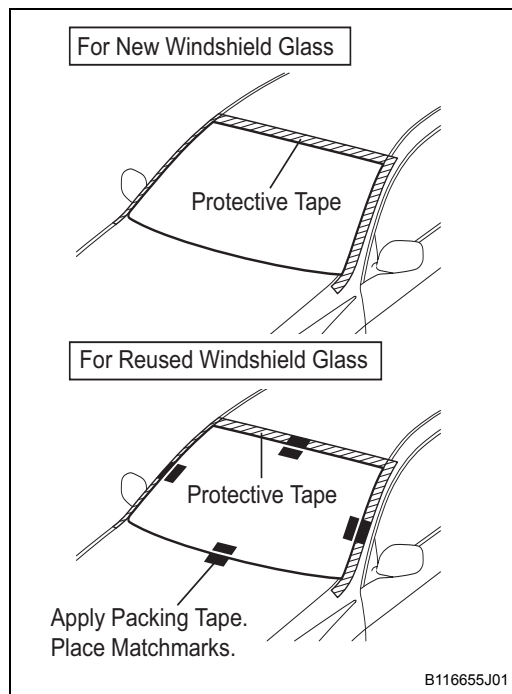
19. REMOVE WINDSHIELD GLASS

NOTICE:

- Windshield glass stoppers No. 1 and No. 2, as well as the windshield glass retainer are installed in the area of the windshield glass shown in the illustration. Therefore, be sure not to damage the windshield glass when cutting it.
- Use a windshield knife or piano wire depending on the areas to be cut or conditions.
- Have a helper hold the windshield glass from the outside using rubber suction to prevent the windshield glass falling during the operation.

HINT:

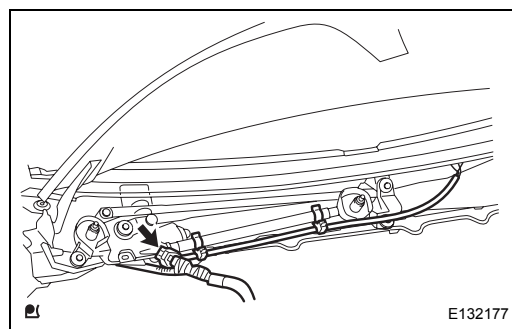
There are two types windshield glass stoppers depending on the vehicle: a 1 piece type and a 2 piece type.



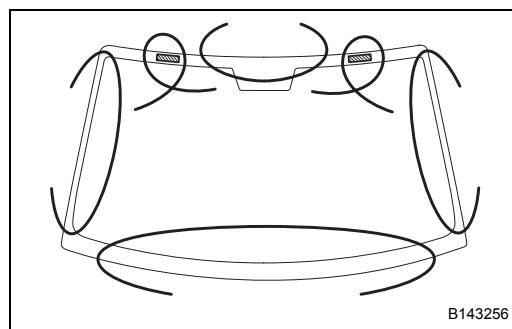
- (a) Put protection tape on the body surface around the outside line of the windshield glass.

NOTICE:

When re-using the same windshield glass, use a pen to mark the masking tape on both the windshield glass and the body panel areas before removing it. This will allow you to be able to align the glass when reinstalling it later.



- (b) Disconnect the connector of the windshield deicer. (For vehicles with cold weather specifications)
- (c) Apply suction cups to the windshield glass.



- (d) Put piano wire (0.6 mm is appropriate) through the locations shown in the illustration, and tie each end to wood blocks or pinch with vice pliers or a similar tool.
- (e) Pull the piano wire end alternately and leave the windshield glass stopper, then cut off adhesive.

NOTICE:

- Do not let the piano wire touch the windshield glass edge with force.
- When working on the air bag area of the curtain shield, make sure not to damage it with piano wire.
- When working on the instrument panel (safety pad) area, use a plastic protective board to prevent damage by the piano wire.
- Be careful not to cross the piano wire to prevent the wire from snapping.

- (f) Hold the suction cups, disconnect the claws of the windshield glass stopper No. 1 and remove the windshield glass.

NOTICE:

Make sure that the windshield glass does not fall.

- (g) Remove windshield glass stopper No. 2 (2 piece type, when reusing windshield glass).

- (1) Remove windshield glass stopper No. 2 with a scraper.

NOTICE:

- **Do not damage the windshield glass.**
- **Make sure to replace the previously installed windshield glass stopper No. 2 with a new part.**

- (h) Remove windshield glass stopper No. 1 (1 piece type, when reusing windshield glass)

- (1) Remove windshield glass stopper No. 1 with a scraper.

NOTICE:

Do not damage the windshield glass.

HINT:

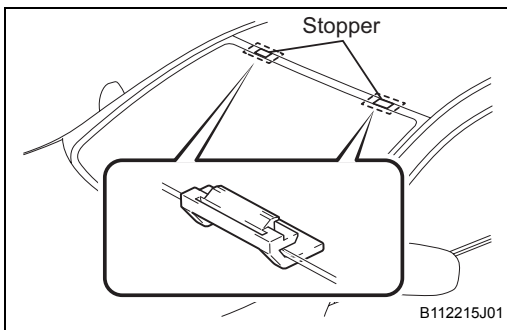
When installing the windshield glass, use a 2 piece type windshield glass stopper No. 1.

- (i) Remove windshield glass stopper No. 1 (2 piece type)

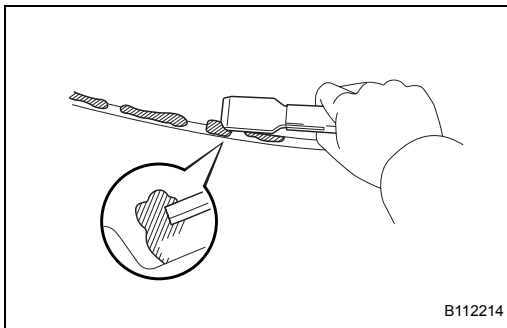
- (1) Remove the windshield glass stopper No. 1.

NOTICE:

Make sure to replace the previously installed windshield glass stopper No. 1 with a new part.



INSTALLATION



1. CLEAN WINDSHIELD GLASS

- (a) Remove any adhesive or double-sided tape that is remaining on the windshield glass surface using a scraper or other tools. (when reusing windshield glass)

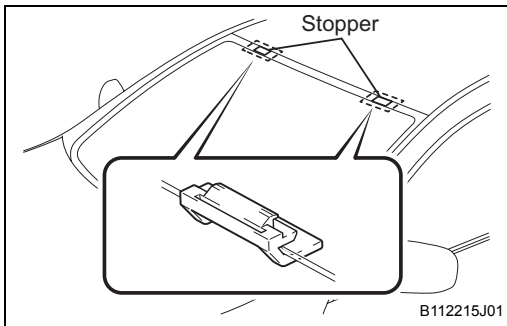
NOTICE:

Do not damage the windshield glass.

- (b) Clean the circumference of the windshield glass with a solvent.

NOTICE:

Always clean the windshield glass, even when using a part.



2. INSTALL WINDSHIELD GLASS STOPPER NO. 1

- (a) Install the new windshield glass stopper No. 1 to the body side.

HINT:

The new windshield glass stopper No. 1 comes only in a two piece type. Therefore, even when working on a windshield with a 1 piece type stopper, you must use a two part stopper.

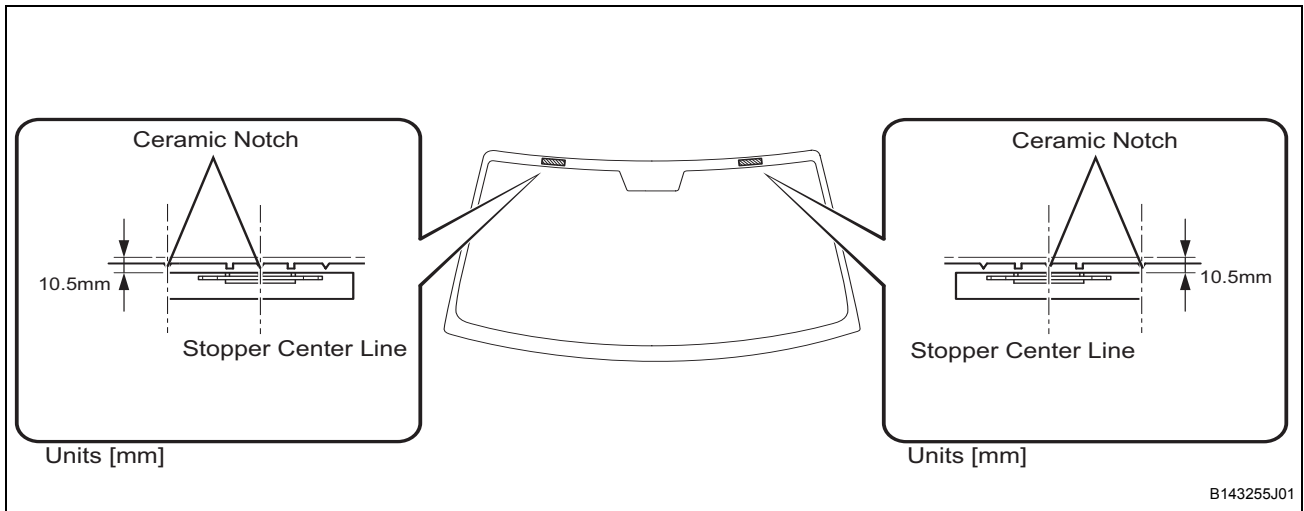
3. INSTALL WINDSHIELD GLASS STOPPER NO. 2

- (a) Apply a primer to the installation part of the windshield glass stopper No. 2 of the windshield glass. Make sure to use the appropriate primer.

NOTICE:

Do not apply too much primer.

- (b) Install the new windshield glass stopper No. 2 to the windshield glass as shown in the illustration.



NOTICE:

- Wait for the primer to dry. (The primer will dry in approximately 3 minutes.) Then install windshield glass stopper No. 2.
- Be careful to install windshield glass stopper No. 2 in the correct direction.

4. INSTALL WINDSHIELD GLASS ADHESIVE DAM

- (a) Apply a primer to the installation part of the adhesive dam of the windshield glass. Make sure to use the appropriate primer.

NOTICE:

Do not apply too much primer.

- (b) Install the new windshield glass adhesive dam at the location shown in the illustration. Install the dam along the adhesion center line of the windshield glass.

NOTICE:

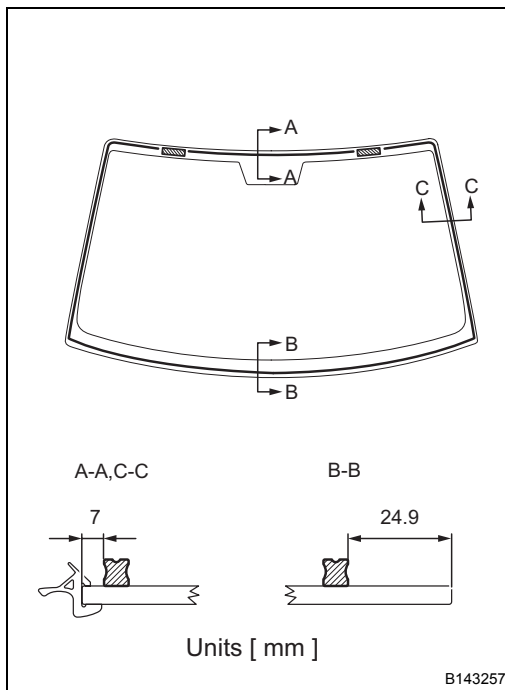
Wait for the primer to dry. (The primer will dry in approximately 3 minutes.) Then install the windshield glass adhesive dam.

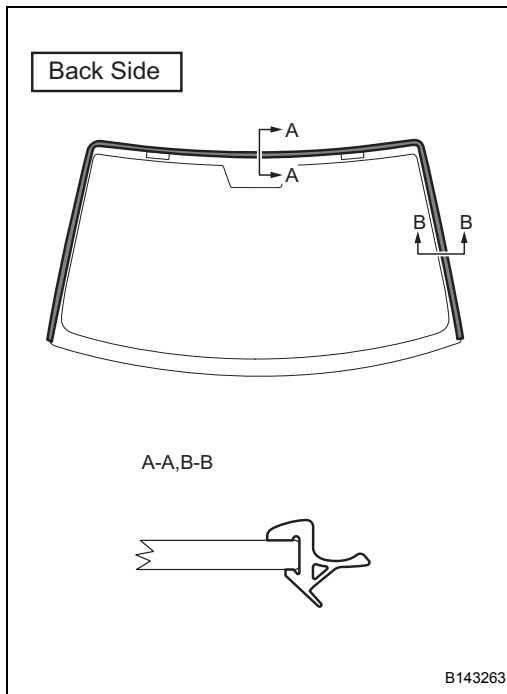
5. INSTALL WINDSHIELD OUTSIDE MOULDING

- (a) Apply a primer to the installation part of the outside moulding of the windshield glass. Make sure to use the appropriate primer.

NOTICE:

Do not apply too much primer.

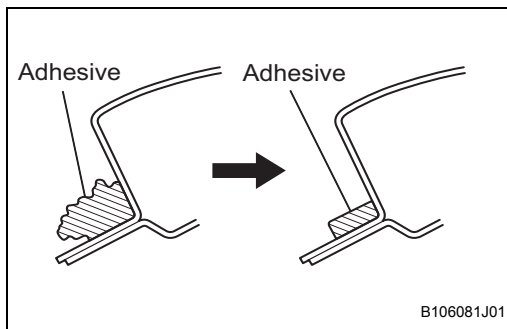




- (b) Install the new windshield outside moulding to the windshield glass as shown in the illustration.

NOTICE:

Wait for the primer to dry. (The primer will dry in approximately 3 minutes.) Then install the windshield glass outside moulding.

**6. INSTALL WINDSHIELD GLASS**

- (a) **CLEAN INSTALLATION SURFACE OF BODY**

- (1) If the adhesive remaining on the surface of the vehicle body is rough, use a cutter knife to smooth it down.

NOTICE:

Make sure to leave a little adhesive.

- (2) Clean the installation surface of the body with a solvent.

- (b) **PREPARATION FOR WINDSHIELD GLASS INSTALLATION**

- (1) Apply suction cups to the windshield glass.
 (2) Place the windshield glass on the body, and align the top and side of the windshield glass evenly (making sure that the gap between the body and the windshield glass edges is even around the circumference of the glass).

- (3) Apply masking tape or a similar tape to the windshield glass and body panel parts, and mark them with a pen to help alignment during installation. (when using new windshield glass)

NOTICE:

From inside the cabin, make sure that windshield glass stopper No. 1 and windshield glass stopper No. 2 are securely engaged.

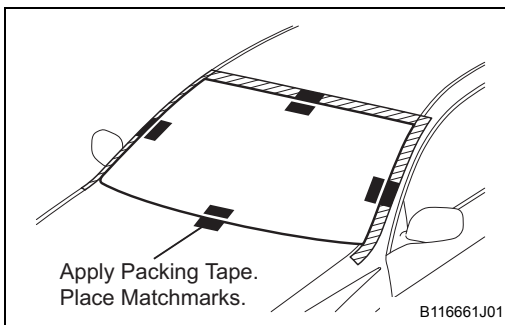
HINT:

When reusing the windshield glass, check or correct the position of the installation marks.

- (4) Remove the windshield glass.
 (5) Coat the exposed part of the vehicle body (places where there is no adhesive left on the body) with primer. Make sure to use the appropriate primer.

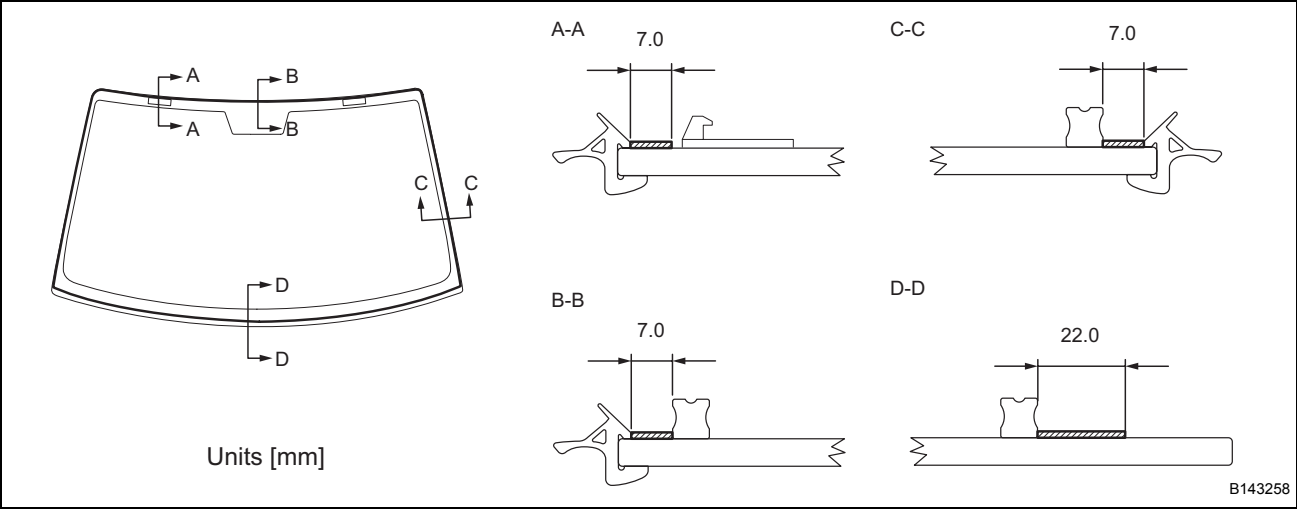
NOTICE:

- Do not apply too much primer.
- Do not apply primer to the adhesive.



- Use extra care when applying primer to panel joints or to areas that have been spot welded.

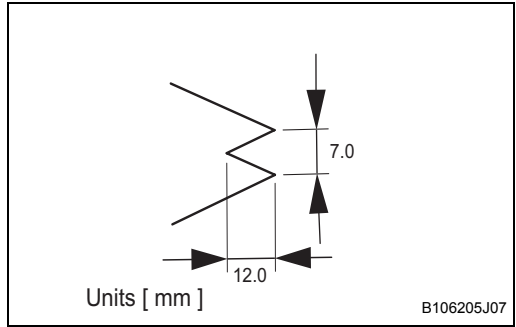
(6) Apply primer to the windshield glass as shown in the illustration. Make use to use the appropriate primer.



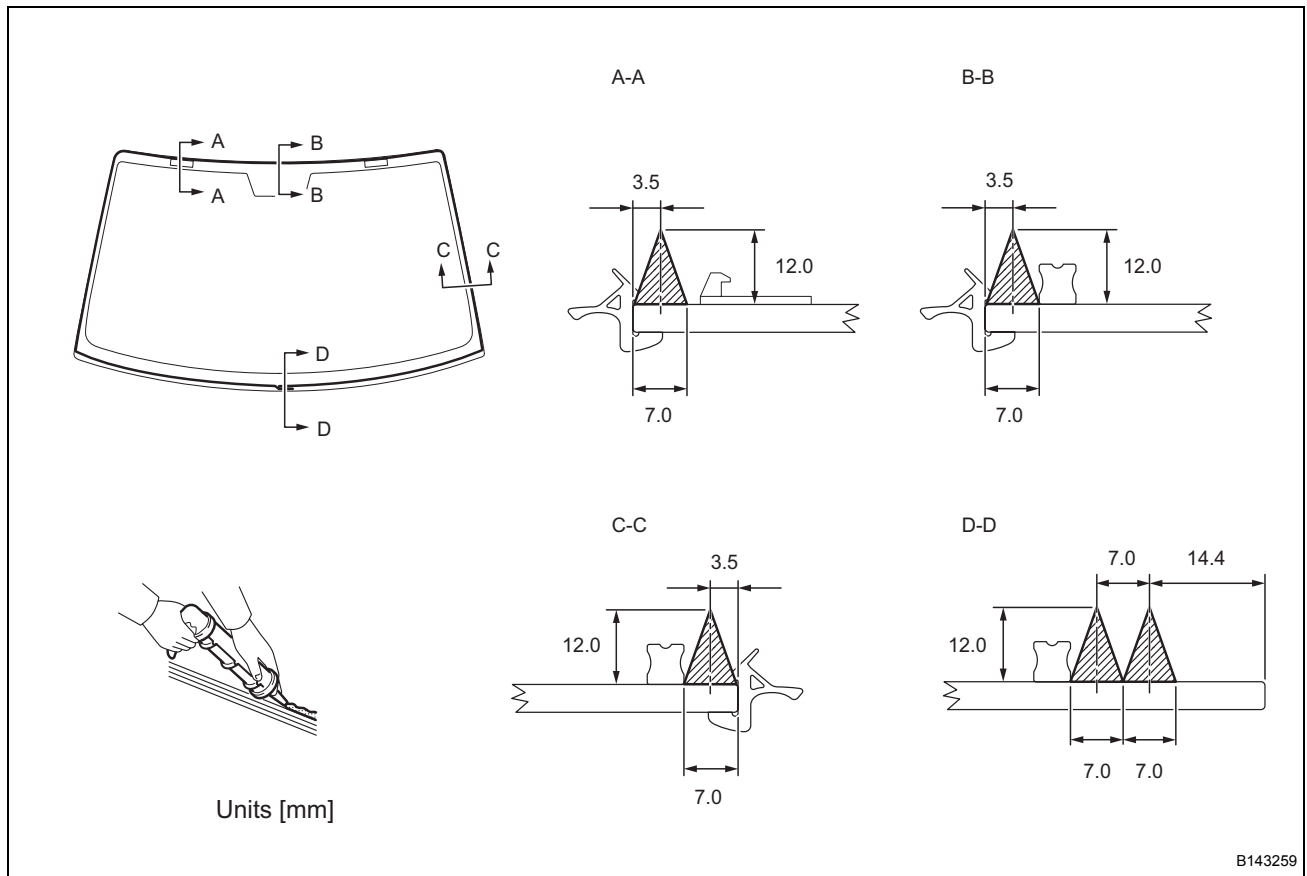
NOTICE:
Do not apply too much primer.

- (c) Cut off the tip of the adhesive tube, as shown in the illustration.
(d) Put the adhesive tube into the sealant gun.

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- (e) Apply a bead of adhesive along the windshield glass adhesive dam and the windshield outside moulding, as shown in the illustration below.

**NOTICE:**

Wait for the primer dry. (The primer will dry in approximately 3 minutes.) Then apply the adhesive.

- (f) **INSTALL WINDSHIELD GLASS**

- (1) Using the appropriate suction cups to hold the windshield glass, align the new windshield glass using the installation marks and install.

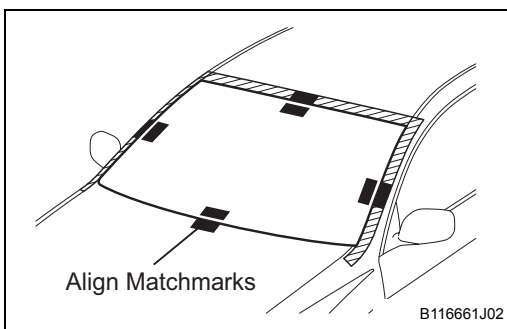
NOTICE:

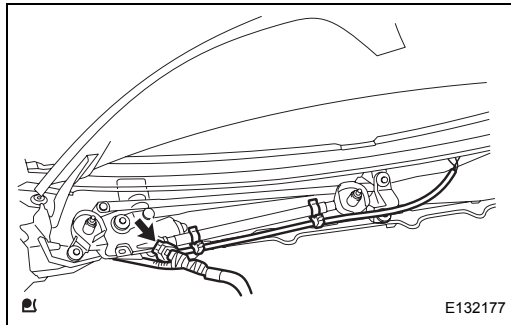
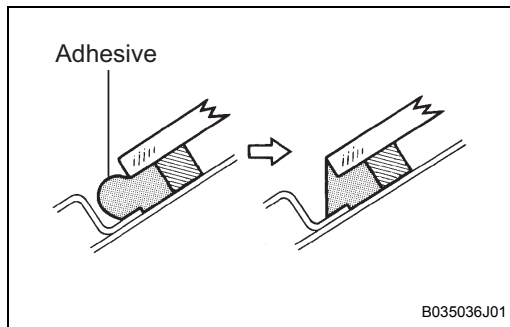
- **Allow the primer on the vehicle body to dry before installing the windshield glass. (The primer dries in approximately 3 minutes.)**
- **From inside the cabin, make sure that windshield glass stopper No. 1 and windshield glass stopper No. 2 are securely engaged.**

- (2) Press the front surface of the windshield glass lightly and it attach it securely.

HINT:

Pressing force: 98 N (10 kgf) or more





- (3) Using a scraper, clean away excess adhesive or add adhesive where necessary.

NOTICE:

Make sure to also apply adhesive to the glass edge surface.

- (4) Remove any excess adhesive before it hardens.
- (5) Press the windshield glass down with protection tape or similar until the adhesive hardens.

HINT:

Follow the instructions on the adhesive regarding minimum drying time or wait time required before the vehicle can be driven.

- (6) Connect the windshield deicer connector. (For vehicles with cold weather specifications)

7. CHECK FOR WATER LEAKS AND REPAIR

- (a) After the adhesive hardens, pour water on the outside of the vehicle and check that no water leaks into the cabin.
- (b) When a water leak occurs, refix the glass from the beginning after removing the water.

8. INSTALL ROOF HEADLINING ASSEMBLY**9. INSTALL VISOR HOLDER (See page IR-10)****10. INSTALL VISOR ASSEMBLY RH (See page IR-10)****11. INSTALL VISOR ASSEMBLY LH****12. INSTALL ASSIST GRIP (See page IR-10)****13. INSTALL MAP LIGHT ASSEMBLY (WITH MAP LIGHT) (See page IR-10)****14. INSTALL ROOM LIGHT ASSEMBLY NO. 1 (WITHOUT MAP LIGHT) (See page IR-10)****15. INSTALL FRONT PILLAR GARNISH RH (WITHOUT CURTAIN SHIELD AIRBAG) (See page IP-16)****16. INSTALL FRONT PILLAR GARNISH LH (WITHOUT CURTAIN SHIELD AIRBAG)****17. INSTALL FRONT PILLAR GARNISH RH (WITH CURTAIN SHIELD AIRBAG) (See page IP-16)****18. INSTALL FRONT PILLAR GARNISH LH (WITH CURTAIN SHIELD AIRBAG)****19. INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP RH (See page IP-17)****20. INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP LH****21. INSTALL COWL TOP VENTILATOR LOUVER (See page WW-8)****22. INSTALL FRONT WIPER ARM AND BLADE ASSEMBLY RH (See page WW-9)****23. INSTALL FRONT WIPER ARM AND BLADE ASSEMBLY LH (See page WW-10)****24. CONNECT BATTERY NEGATIVE TERMINAL**

25. PERFORM INITIALIZATION

(See page SS-10 for details.)

INSPECTION**1. CHECK WINDSHIELD GLASS**

- (a) Disconnect the connector of the windshield deicer.
- (b) Using the electrical tester, check the continuity between each of the connector terminals.

Standard:

Inspection Terminal	Standard
1↔3	Continuity
2↔3	Continuity

