

2008 Infiniti G35X

Vehicle information

Vehicle type: Four-door, all-wheel drive sedan

NAGS® numbers*:

Windshield part number FW2717, molding comes attached; front door glass FD23311-12, solar; rear door glass FD23313-14, solar; rear vent glass FV23315-16, solar; and back glass FB23317, heated, antenna, solar



Watch for: The A-pillar moldings are thin and easily bent.

*With permission from National Auto Glass Specifications. Call NAGS at 800/551-4012 or visit www.nags.com.



A. Windshield Preparation

1. Always wear eye and hand protection when working with glass. Make sure you have the right glass and moldings and the urethane systems you are about to use are current. Windshield part number is FW2717. The new part

comes with the top molding.

2. Cover the front seats, floorboards, dash and steering wheel with a clean drop cloth or disposable plastic covers.

3. Drape a fender cover over the fender and tape up vulnerable areas on the vehicle to protect against damage. Tape up the defroster vents to prevent debris from falling into the openings.

4. To remove the rearview mirror, depress the tab on the bottom edge of the mirror base and wiggle the mirror up and off the pad.

5. Remove the windshield-wiper nut covers.

6. Remove the windshield-wiper nuts using a 14-millimeter wrench or socket. Move the wiper arm in an up-and-down motion to break it loose from the post, or use a wiper puller.

Note: Wipers can sometimes be hard to remove. Use a wiper puller to avoid stressing the post.

7. Remove the battery and brake-fluid lids at the leading edge of the cowl.

8. Remove the 12 retainers on the leading edge of the cowl and under the lids.

9. Release the hidden retainers under the cowl fascia with your hands and fingers. Remove the cowl panel and set it in a safe place.

10. The A-pillar moldings are held down by clips and extend from the top of the front fender to the top of the back glass.



At each A pillar, there are two body retainers attached to the wall of the pinchweld with rivets. They hold four clips attached to the underside of the molding.

11. Use a stiff plastic stick or taped-up molding tool to pry up the molding from the vehicle body and lift it toward the glass in a rolling fashion.

12. Release the top clips using a stiff plastic stick or taped-up molding tool to pry them up. Pry from the driver's side, rolling toward the passenger's side of the vehicle.

13. Repeat on the other side.

14. Pull the top molding from the glass edge, or cut it off.

Note: Before beginning windshield removal, make sure the new windshield is the correct one and the urethanes and primers are current. Never use outdated products as this could jeopardize the

structural integrity of the vehicle and the safety of its passengers.

Removal

15. The top molding comes with the new glass part. It attaches on the underside of the glass.

16. Before cutting out the windshield, remove contaminants from the glass and pinchweld to prevent contact with the urethane.

17. Make sure cutting blades are sufficiently sharp.

18. Position your cold-knife blade between the glass edge and the molding to cushion the wall of the pinchweld. Remove the glass from the adhesive bead. **Caution:** Be careful not to hit or cut the gravity stops; mark their location with a marking pencil or retention tape.

19. Take the windshield out of the opening using vacuum cups. **Note:** Make sure the vacuum cups do not overlap a crack in the glass.

20. Lift the glass and place it on a windshield stand or suitable workstation.

Installation

21. After cutting the windshield out, remove contaminants such as dirt, moisture and debris from the pinchweld. Clean the dashboard.

22. Dry fit the new glass to the opening. Mark your glass using a grease pencil or molding-retention tape.

23. Place your vacuum cups on the windshield in the appropriate location.

24. Set the windshield onto the old urethane.

25. With the windshield resting in the opening, make sure it is in the right spot.

26. Adjust both sides to the correct setting, marking the passenger's side, then the driver's side. Lift the glass and place it on a windshield stand or suitable workstation.

27. Follow the urethane manufacturer's recommendations for installation.

28. Clean the inside of the windshield using a urethane manufacturer-recommended product. **Note:** Do not touch the bonding area of the windshield after cleaning, prepping or priming it.

29. Wear powder-free Nitrile gloves to keep off chemicals.

30. Apply the glass prep and primer following the urethane manufacturer's recommendations.

31. Using the tool of your choice, remove the original urethane bead, leaving 1-2 millimeters of existing urethane on the pinchweld. **Note:** Make sure there are no contaminants, and do not touch the pinchweld after prepping the area.

32. Apply the pinchweld primer only to the areas where needed, and follow the urethane manufacturer's recommendations. **Note:** Allow preps and primers to dry as recommended by the urethane manufacturer.

33. Apply a triangular bead of urethane to the same path as the freshly cut urethane on the pinchweld. Before cutting your V-notch, cut the tip off of your nozzle with a nozzle-cutter. With the cut nozzle, measure to the top of the roofline, and at $\frac{1}{16}$ -inch higher than the roofline, make a mark on the nozzle

with a pen or marker. Notch the nozzle up to the marked line; this will give you the appropriate triangular bead.

34. Lift the windshield from the windshield stand or workstation using vacuum cups. Set the windshield on the urethane at the mark you made during dry fit. Lower the driver's side of the windshield onto the urethane and line it up with the dry-fit mark; it is now in place.

35. The windshield is ready to be decked. Press firmly to ensure a good seal.

36. Before re-installing the parts, check for leaks. Use a leak detector to go over the perimeter of the windshield. If you find a leak, apply pressure to the spot to ensure the glass makes contact with the wet urethane.

37. Re-install the removed parts in reverse order.

38. Allow the urethane to cure according to the urethane manufacturer's recommended cure time before returning the vehicle to the customer. **Warning:** Disregarding the safe drive-away time your urethane manufacturer recommends could jeopardize the structural integrity of the vehicle and the safety of its passengers.

39. You have completed the removal and replacement of the windshield.

B. Front door glass

Removal

1. Make sure you have the right glass. Front door glass part numbers are FD23311-12.

2. Remove the screw cover under the door latch. Remove the 10-millimeter bolt.

3. Pry out the window-switch instrument panel, starting at the back edge, and disconnect the wiring harnesses. Remove the



two 10-millimeter Phillips-screw bolts underneath.

4. Remove the side-view mirror assembly's interior cover and the door-panel retainers around the panel perimeter. **Note:** There are three panel retainers along the top edge of the panel.





5. Remove the door panel and put it in a safe place.
6. Remove the interior beltline weatherstrip by prying it upward using a door-pad tool or peeling it back with your fingers.
7. Remove the five 10-millimeter bolts around the perimeter of the speaker housing, and disconnect the wiring harness to expose the front access hole.
8. Remove the black adhesive tape that covers the small, oblong rear access hole. Plug the window switch into the wiring harness and lower the regulator until the mounting hardware is visible through the access holes. Remove the 10-millimeter bolts.
9. Lift the glass from the door and place it in a safe place.
10. If the interior of the door needs cleaning, clean through the speaker access hole, or remove the 10-millimeter bolts around the mechanism housing and tilt it out to facilitate cleaning.

Installation

11. Insert the glass into the doorframe and lower to the mounting plate on the regulator.
12. Attach the mounting bolts through the mounting plate and into the tabs on the bottom edge of the glass. Tighten the bolts.
13. Re-install the speaker assembly and door panel in the reverse manner you removed them. **Note:** This vehicle is not equipped with an express-up feature, so re-initialization is not necessary.
14. Check operation of the glass to ensure proper installation.
15. You have completed the removal and replacement of the front door glass.



C. Rear door glass and vent glass

Removal

1. Make sure you have the right glass. Rear door glass part numbers are FD23313-14. Vent glass part numbers are FV23315-16.
2. To remove and replace the entire rear door glass, you must remove the vent glass, and vice versa. Instructions for both glass parts follow.
3. Remove the screw cover under the door latch. Remove the 10-millimeter bolt.
4. Pry out the window-switch instrument panel, starting at the back edge, and disconnect the wiring harnesses. Remove the two 10-millimeter Phillips-screw bolts underneath.
5. Release the door-panel retainers around the panel perimeter. **Note:** There are three panel retainers along the top edge of the panel.
6. Remove the door panel and set it in a safe place.
7. Remove the interior beltline weatherstrip by prying it upward using a door-pad tool or peeling it back with your fingers.
8. Black adhesive tape covers the front and rear access holes. Remove the tape and re-attach the wiring harness for the window switch. Lower the regulator until the mounting hardware is visible in the access holes.
9. Remove the two 10-millimeter bolts from the mounting plate and lift the door glass from the door.
10. Peel back the door weatherstrip near the top of the division bar.
11. Remove the Phillips screw underneath. Remove the 10-millimeter bolt from the access hole near the bottom of the division bar.
12. Separate the division bar from the front edge of the glass and lift it from the doorframe. Slide the vent glass from the doorframe channel and remove.

Installation

13. Attach the weatherstrip to the vent glass edge on all sides.
14. Lubricate the weatherstrip with water or glass cleaner. Slide the vent glass assembly into the doorframe and seat it firmly in place.
15. Re-insert the division bar and seat the glass into the division bar channel.

16. Insert and tighten the Phillips screw in the top of the division bar and the 10-millimeter bolt in the bottom.
17. Re-install door glass parts in reverse order of removal.
18. Check operation of the door glass to ensure proper installation.
19. You have completed the removal and replacement of the rear door glass and vent glass.

D. Back glass

Removal

1. Make sure you have the right glass. Back glass part number is FB23317. The new glass part comes with an underside molding attached.
2. Starting in the top corner, remove the interior quarter panel using your hands to pull it away from the vehicle body. This is difficult; however, the retainers are strong and will not get damaged.
3. Disconnect the wiring harnesses. There are three on the driver's side and one on the passenger's side.
4. The glass is close to the wall of the pinchweld. Take extra care during cutout.
5. Use the tools of your choice to cut out the back glass.

Note: When using any power tool, lubricate the cutting area with water. Spray the top, sides and bottom; then make your cuts.

Installation

6. After cutting the back glass out, remove contaminants such as dirt, moisture and debris from the pinchweld.
7. Dry fit the new glass to the opening. Mark your glass using a grease pencil or molding-retention tape.
8. Place your vacuum cups on the back glass in the appropriate location.
9. Set the back glass onto the old urethane.



10. With the back glass resting in the opening, make sure it is in the right spot.
11. Adjust both sides to the correct setting, marking the passenger's side, then the driver's side. Lift the glass and place it on a windshield stand or suitable workstation.
12. Follow the urethane



manufacturer's recommendations for installation. Verify the urethanes and primers are up-to-date.

13. Clean the inside of the back glass using a urethane manufacturer-recommended product. **Note:** Do not touch the bonding area of the back glass after cleaning, prepping or priming it.

14. Wear powder-free Nitrile gloves to keep off chemicals.

15. Apply the glass prep and primer, following the urethane manufacturer's recommendations.

16. Using the tool of your choice, remove as much of the original urethane bead as the urethane manufacturer recommends. **Note:** Make sure there are no contaminants, and do not touch the pinchweld after prepping the area.

17. Apply the pinchweld primer only to the areas where needed, and follow the urethane manufacturer's recommendations. **Note:** Allow preps and primers to dry as recommended by the urethane manufacturer.

18. Apply a triangular bead of urethane to the same path as the freshly cut urethane on the pinchweld. Before cutting your V-notch, cut the tip off of your nozzle with a nozzle-cutter. With the cut nozzle, measure to the top of the roofline, and at $\frac{1}{16}$ -inch higher than the roofline, make a mark on the nozzle with a pen or marker. Notch the nozzle up to the marked line; this will give you the appropriate triangular bead.

19. Lift the back glass from the windshield stand or workstation using vacuum cups. Set the back glass on the urethane at the mark you made during dry fit. Lower the driver's side of the back glass onto the urethane and line it up with the dry-fit mark; it is now in place.

20. The back glass is ready to be decked. Press firmly to ensure a good seal.

21. Before re-installing the parts, check for leaks. Use a leak detector to go over the perimeter of the back glass. If you find a leak, apply pressure to the spot to ensure the glass makes contact with the wet urethane.

22. Re-install the removed parts in reverse order and reconnect the wiring harnesses.

23. Check the operation of the back glass by checking the defroster and antenna system to ensure they work properly.

24. Allow the urethane to cure according to the urethane manufacturer's recommended cure time before returning the vehicle to the customer.

25. You have completed the removal and replacement of the back glass. **AG**