

2008 Ford Fusion

Vehicle information

Vehicle type: Four-door sedan

NAGS® numbers*:

Windshield part number DW1622, solar, with moldings; and back glass DB11179, solar, heated



Helpful tools or supplies: Padded cold-knife blades, windshield cutout wire

Watch for: The back glass has exposed edges on all sides. Take care to avoid damage during cutout.

*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 DW1622.
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 any vulnerable areas on the vehicle to protect against possible damage. Tape up the defroster vents to prevent debris from falling into the openings.
4. Remove the rearview mirror by removing the underside auto-dimming sensor and tapping the base of the mirror off the pad.
5. Remove the windshield-wiper nut covers.
6. Remove the windshield-wiper nuts using a 13-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. The driver- and passenger-side wipers are marked. **Note:** Wipers can sometimes be hard to remove. Use a wiper puller to avoid stressing the post.
7. Cut or pull off the side moldings. The replacement glass part comes with new moldings.
8. To remove the three-piece cowl panel, remove the two faux Phillips-screw retainers from each corner piece. **Caution:** Be careful not to drop the retainers into the fender.
9. Remove the two 30T Torx screws, two faux Phillips-screw retainers and two sandwich clips from the center part of the panel.
10. Release the underside retainers and slide the cowl panel from under the glass edge.
11. Disconnect the washer hoses. Place the cowl panel in a safe place. **Note:** Before beginning windshield removal, verify 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 Never use outdated products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

12. Before cutting out the glass, tape up the roof panel to protect against damage. The top glass edge is exposed and in close tolerance to the pinchweld wall. Use a padded cold-knife blade or windshield cutout wire to cut the top bead.
13. Make sure cutting blades are sufficiently sharp.
14. Before cutting out the windshield, remove contaminants from the glass and pinchweld to prevent contact with the urethane.
15. Use the cutting tools of your choice to remove the glass from the adhesive bead. **Note:** When using any power tool, lubricate the cutting area with water. Spray the top, sides and bottom; then make your cuts. **Caution:** Be careful not to hit or cut the gravity stops; mark their location with a marking pencil or retention tape.
16. Take the windshield out of the opening using vacuum cups. **Note:** Make sure the vacuum cups do not overlap a crack in the glass.
17. Lift the glass and place it on a windshield stand or suitable workstation.

Installation

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

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

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

21. Set the windshield onto the old urethane.

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

23. 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.

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

25. 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.

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

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

28. 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 you have prepped the area.

29. Apply the pinchweld primer only to the areas where needed, and follow the urethane manufacturer's recommendations. **Caution:** Do not prime areas that will be visible after the glass is set. Allow preps and primers to dry as recommended by the urethane manufacturer.

30. 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.

31. 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.

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

33. 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.

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

35. 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.

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



B. Back glass

Removal

1. Make sure you have the right glass. Back glass part number is DB11179.

2. The back glass has exposed edges on all sides. Take care to avoid damage during cutout.

3. If the glass is broken, tape up the vehicle around the glass perimeter to prevent damage to the exposed paint.

4. Remove the interior garnish moldings at the quarter panel using your hands and fingers.

5. Disconnect the defroster wiring harnesses on each side.

6. Use the tool of your choice to cut out the back glass.

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

Installation

7. After cutting the back glass out, remove contaminants such as dirt, moisture and debris from the pinchweld.

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

9. Place your vacuum cups on the back glass in the appropriate location.

10. Set the back glass onto the old urethane.

11. With the back glass resting in the opening, make sure it is in the right spot.

12. 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.

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

