

2009 Hyundai Sonata

Windshield removal and replacement instructions

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Vehicle type: Four-door sedan

Watch for: There are two guide pins/gravity stops on the underside of the glass that may pose a problem if your goal is to salvage the windshield..

A. Windshield Preparation

1. Cover the front seats, floorboards, dash and steering wheel with a clean drop cloth or disposable plastic covers. *Note:* Always wear eye and hand protection when working with glass. Make sure you have the right glass and moldings and the urethane systems are current.
2. Drape the fender with a fender cover 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.
3. Remove the rearview mirror. Using a padded tool or your hand, tap downward on the mirror to remove it from the pad.
4. Remove the windshield-wiper nut covers.
5. Remove the windshield-wiper nuts using a 15-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.
6. To remove the cowl panel, first remove the two push-in-the-center-type retainers in the two corners.

7. Remove the hood bulb seal from the front leading edge of the cowl panel using a tack puller or door-pad tool.
8. Slide the cowl panel toward the engine compartment and remove. There are several hooks that slide under the lower glass edge. Put the panel in a safe place.
9. Remove the side moldings. They run the entire length of the vehicle roof and are held in place with clips that you can easily release with your fingers. Pull the molding toward the A pillar and lift up the backside with your fingers. To release the last clip on the roof near the back glass, push the molding toward the back glass. It will release without damage.
10. The top molding is an underside molding that does not come with the glass. You can use a universal underside molding as a replacement. *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 Never use outdated products as this could jeopardize the structural integrity of the vehicle and the safety of its passengers.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

11. Make sure cutting blades are sufficiently sharp.
12. Before cutting out the windshield, remove contaminants from the glass and pinchweld to prevent contact with the urethane.
13. Use the cutting tools of your choice to remove the glass from the adhesive bead. There are two guide pins/gravity stops on the underside of the glass. These may pose a problem if your goal is to salvage the glass. *Caution:* Be careful not to hit or cut the gravity stops; mark their location with a marking pencil or molding-retention tape. When using a power tool, lubricate the cutting area with plain water. Spray the top, sides and bottom; then make your cuts.
14. Take the windshield out of the opening using vacuum cups. *Caution:* Make sure the vacuum cups do not overlap a crack in the glass.
15. Lift the glass and place it on a windshield stand or suitable workstation.

Installation

16. After cutting the windshield out, remove contaminants such as dirt, moisture and debris from the pinchweld. Clean the dashboard.
17. Dry fit the new glass to the opening. Mark your glass using a grease pencil or molding-retention tape.
18. Place your vacuum cups on the windshield in the appropriate location.
19. Set the windshield onto the old urethane.
20. With the windshield resting in the opening, make sure it is in the right spot.
21. 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.
22. Follow the urethane manufacturer's recommendations for installation.

23. 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.
24. Wear powder-free Nitrile gloves to protect against chemicals.
25. Attach the underside moldings to the top underside of the glass edge. There are usually marks in the frit to guide molding application.
26. Apply the glass prep and primer, following the urethane manufacturer's recommendations.
27. 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.
28. Apply the pinchweld primer only to the areas where needed, following the urethane manufacturer's recommendations. *Note:* Allow preps and primers to dry as recommended by the urethane manufacturer.
29. 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 using a nozzle-cutter. With the cut nozzle, measure to the top of the roofline, and at 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.
30. 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.
31. The windshield is now ready to be decked. Press firmly to ensure a good seal.
32. 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.
33. Re-install the removed parts in reverse order.
34. 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 the urethane manufacturer recommends could jeopardize the structural integrity of the vehicle and the safety of its passengers.
35. You have completed the removal and replacement of the windshield.