

2008 Kia Rondo

Vehicle information

Vehicle type: Four-door crossover vehicle

NAGS® numbers*:

Windshield part numbers FW2818, FW2819, heated, FW2820, heated, rain sensor; front vent glass FV23518-19, encapsulated; quarter glass FQ23526-27, encapsulated; and back glass FB23528, heated, solar.

*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 numbers are FW2818, FW2819 and FW2820.

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 damage. Tape up the defroster vents to prevent debris from falling into the openings.

4. Remove the rearview mirror by sliding it down and off the mirror pad.

5. Remove the rubber 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 remove it from the post, or use a wiper puller. The driver- and passenger-side wipers are marked. **Note:** Some wipers can be hard to remove. Use a wiper puller to avoid stressing the post.

7. The top and side moldings are rigid wraparound moldings that will need to be replaced. Pull the molding free from the glass, or cut it off the glass edge.

8. Remove the five faux Phillips-head retainers along the leading edge of the cowl panel.

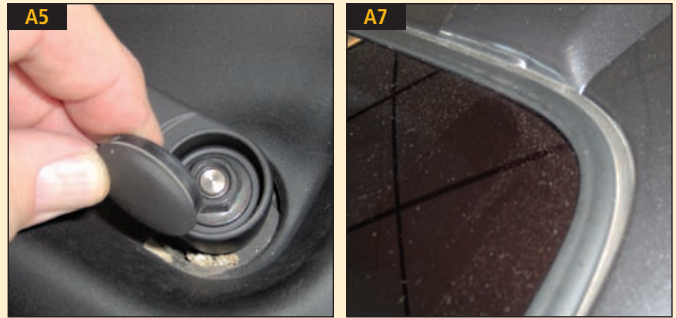
9. Use a door-panel tool or your fingers to release the underside retainers. Remove the cowl and set it in a safe place.

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 Never use outdated products as this could jeopardize the structural integrity of the vehicle and the safety of its passengers.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

10. Make sure cutting blades are sufficiently sharp.

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



12. Use the cutting tools of your choice to remove the glass from the adhesive bead. **Note:** When using power tools, 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.

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

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

Installation

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

16. Attach the new molding to the new glass edge.

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 keep off chemicals.

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

26. 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.

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

28. 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.

29. 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.

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

31. 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.

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

33. 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.

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

B. Front vent glass

Removal

1. Make sure you have the right glass. Front vent glass part numbers are FV23518-19. The front vent does not open with the door; it is bonded to the vehicle body much like the older Ford Aerostar vent.

2. The vent glass is small and encapsulated, making an inside cutout difficult. This also poses a problem if you are trying to salvage the glass.

3. Remove the interior garnish moldings held in place by typical clips.

4. Use the tools of your choice to cut out the glass. **Note:** When using any power tool, lubricate the cutting area with water. Spray the top, sides and bottom; then make your cuts.

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Installation

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

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

7. Set the vent glass onto the old urethane.

8. With the vent glass resting in the opening, make sure it is in the right spot.

9. Adjust both sides to the correct setting. Lift the glass and place it on a suitable workstation.

10. Follow the urethane manufacturer's recommendations for plastic-to-metal bonding. Verify the urethanes and primers are current.

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

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

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

14. Using the tool of your choice, remove as much of the original urethane as the urethane manufacturer recommends.

Note: Make sure there are no contaminants, and do not touch the pinchweld after prepping the area.

15. 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.

16. 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.

17. Set the vent glass on the urethane at the mark you made during dry fit.

18. The vent glass is ready to be decked. Press firmly to ensure a good seal.

19. Before re-installing the parts, check for leaks. Use a leak detector to go over the perimeter of the vent glass. If you find



a leak, apply pressure to the spot to ensure the glass makes contact with the wet urethane.

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

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

22. You have completed the removal and replacement of the front vent glass.

C. Quarter glass

Removal

1. Make sure you have the right glass. Quarter glass part numbers are FQ23526-27. The glass is encapsulated.

2. Remove the interior garnish molding.

3. Using the tools of your choice, cut out the quarter glass.

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

Installation

4. After cutting the quarter glass out, remove contaminants such as dirt, moisture and other debris from the pinchweld.

5. Dry fit the new glass to the opening.

6. Place your vacuum cups on the quarter glass in the appropriate location.

7. Set the quarter glass onto the old urethane.

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

9. Adjust both sides to the correct setting. Lift the glass and place it on a suitable workstation.

10. Follow the urethane manufacturer's recommendations for installation. Verify the urethanes and primers are current.

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

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

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

14. Using a pinchweld scraper, remove as much of the original urethane as the urethane manufacturer recommends. **Note:**

Make sure there are no contaminants, and do not touch the pinchweld after prepping the area.

15. 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.

16. 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 1/16-inch higher than the roof- and bodyline, 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.

17. Place your vacuum cups on the quarter glass in the appropriate location.

18. Lift the quarter glass from the windshield stand or workstation using vacuum cups.

19. Set the quarter glass in the opening.

20. The quarter 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 quarter 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.

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

24. You have completed the removal and replacement of the quarter glass.

D. Back glass

Removal

1. Make sure you have the right glass. The glass is bonded to the rear deck. Part number is FB23528.

2. Lift the rear-wiper nut cover and remove the 10-millimeter nut from the wiper post. Remove the plastic cap and the secondary fastener from the wiper post.

3. Remove the interior garnish moldings and locate the defroster connectors. Disconnect the defroster and pull the leads away from the cutting area.

4. The glass has exposed edges, so cut it out from the vehicle exterior using the tools of your choice. **Note:** When using any power tool, lubricate the cutting area with water. Spray the top, sides and bottom; then make your cuts.

