

2006 Jeep Commander

Vehicle information



Vehicle type: Four-door utility

NAGS® numbers*: Windshield part numbers DW1627 and DW1628 rain sensor; quarter glass DQ10989-90 R/L solar, bonded, encapsulated; and back glass DB10991 solar, heated, five holes

Watch for: Rain sensor is glued to the glass with a special adhesive pad.

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

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 that you have the right glass and moldings, and that the urethane systems you are about to use are current. Windshield part numbers are DW1627 and DW1628.

2. A rain-sensor bracket is attached to the replacement glass. To release the sensor from the bracket, slide the two clips from the sides of the sensor downward and separate the sensor from the lens and bracket. Disconnect the wiring harness and set aside.

3. The rearview mirror is mounted to the headliner console and does not have to be removed for windshield replacement.

4. Remove the windshield-wiper nut covers using an installation stick.



5. Remove the windshield-wiper nuts using a 12-millimeter wrench or socket.

6. Peel back the door weatherstrip and remove the five 20T Torx screws that attach the A-pillar moldings to the pillar. Remove the moldings.

7. The top molding is a wraparound, U-channel molding. Grasp the edge and pull it from the edge of the glass.

8. Remove the hood bulb seal from the leading edge of the cowl and pry upward to release the underside retainers. Remove the cowl panel from the lower edge of the glass.

Removal

9. Make sure cutting blades are sufficiently sharp.

10. Before cutting out the windshield, remove contaminants from the glass and pinchweld. This step will prevent contaminants from making contact with the urethane.

11. If using a cold knife, use a 3/4-inch cold-knife blade. Cut three sides; then use a long knife or power tool to cut the bottom of the windshield. **Caution:** Be careful not to hit or cut the gravity stops; mark their locations with a marking pencil or retention tape.

12. Spray the bottom of the windshield with water 5 inches above the urethane on the glass, so that the water flows down into the urethane while you make your final cut across the bottom of the windshield.

13. Take the windshield out of the opening using a set of vacuum cups. Lift the glass and place it on a windshield stand or suitable workstation.

Installation

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

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

16. Place your vacuum cups on the windshield in the appropriate locations.

17. Lift the windshield from the windshield stand using vacuum cups.

18. Set the windshield onto the old urethane.

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

20. 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.

21. Follow the urethane manufacturer's recommendations for installation. **Note:** It is crucial to verify that 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.

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

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

24. Prep the glass following the urethane manufacturer's recommendations.

25. Using a pinchweld scraper, remove as much of the original

urethane as the urethane manufacturer recommends. **Caution:** Try not to scratch the pinchweld. Before removing the old urethane, make sure there are no contaminants and do not touch the pinchweld after you have prepped the area.

26. Apply the pinchweld primer only to the needed areas, and follow the urethane manufacturer's recommendations. **Caution:** Make sure to allow preps and primers to dry as recommended by the urethane manufacturer.

27. 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.

28. Lift the windshield from the windshield stand or workstation using vacuum cups and set the windshield on the urethane at the mark you made during your 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.

29. Press firmly to ensure a good seal.

30. 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 more pressure to the spot or apply more urethane to the area. Then check your seal.

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

32. Allow the urethane to cure according to the urethane manufacturer's recommended cure time before returning the vehicle to the customer. **Warning:** Disregarding this step could jeopardize the structural integrity of the vehicle and the safety of its passengers.

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

B. Quarter glass

Removal

1. Make sure that you have the right glass. Quarter glass part numbers are DQ10989-90 R/L. **Note:** The glass is exposed on all sides. Take care to protect the exposed painted surfaces.

2. When using any power tool, use plain water to lubricate the cutting area. Spray the top, sides and bottom; then make your cuts.

Installation

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

4. Place your vacuum cups on the quarter glass.

5. Follow the urethane manufacturer's recommendation for installation. **Note:** It is crucial to verify that 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.

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

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

8. Prep the glass following the urethane manufacturer's recommendations.

9. Using a pinchweld scraper, remove as much of the original urethane as the urethane manufacturer recommends. **Caution:** Try not to scratch the pinchweld. Before removing the old urethane, make sure there are no contaminants and do not touch the pinchweld after you have prepped the area.

10. Apply the pinchweld primer only to the needed areas, and follow the urethane manufacturer's recommendations. **Caution:** Make sure to allow preps and primers to dry as recommended by the urethane manufacturer.

11. 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 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 and bodyline, make a mark on the nozzle with a pen or marker. Notch the nozzle up to the marked line.

12. Place your vacuum cups on the quarter glass.

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

14. Set the quarter glass in the opening.

15. Press firmly to ensure a good seal.

16. 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 more pressure to the spot or add more urethane to the area. Then check your seal.

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

18. Allow the urethane to cure according to the urethane manufacturer's recommended cure time before returning the vehicle to the customer. **Warning:** Disregarding this step could jeopardize the structural integrity of the vehicle and the safety of its passengers.

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

C. Back glass

Removal

1. Make sure that you have the right glass. Back glass part number is DB10991. **Note:** This part is easier to install with two people: one to hold the glass and the other to attach it to the vehicle.

2. Disconnect the defroster connectors.

3. Remove the two 10-millimeter nuts that attach the piston rods through holes in the glass on the sides. The backside of the L-bracket on the piston rods faces the interior of the glass.

4. Remove the two 30T Torx bolts at the hinges.

5. Place the glass on a windshield stand or suitable workstation.

Installation

6. Transfer the handle-latch from the old glass to the new glass by removing the two 30T Torx bolts and re-attaching them through the holes in the new glass. **Note:** Have a helper hold the glass in place while you re-attach the hinge bolts.

7. Re-attach the piston rods using a 10-millimeter socket.

Caution: Do not overtighten.

8. Reconnect the defroster wiring.

9. Check the operation of the back glass by opening and closing it several times.

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