

By Gilbert R. Gutierrez

2007 Jeep Commander

Vehicle Information:

Vehicle type: Four-door sport utility vehicle

NAGS® numbers*:

Windshield part number DW01628GTY, GBY, or DW01627GTY, GBY; front door glass DD11129-30GTY R-L;

rear door glass DD10983-84 GNT, GTY R-L, or DD10985-86 YPN; vent glass DV10987-88YPY R-L; quarter glass DQ10989-90YPY; and back glass DB10991YPY.

Helpful tools and supplies: Retention tape or a rubber hose to protect the fender, hood, trunk lid and vent assembly bar; a PryBaby for molding and panel removal; and a TempSTOPs for setting the windshield.

Watch for: When removing the vent assembly, be careful not to bend the frame or scratch the paint on the door opening.

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

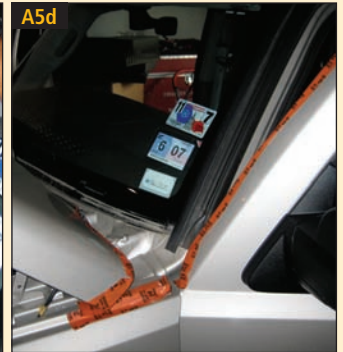
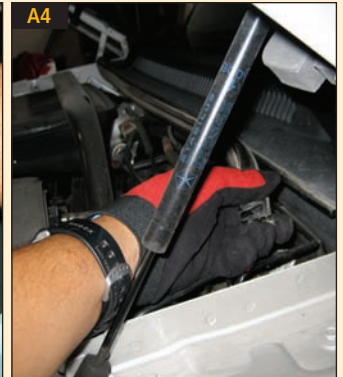


A. Windshield Preparation

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 you have the right glass and the urethane systems you are about to use are current. Windshield part numbers are DW01628GTY,GBY or DW01627GTY,GBY.

2. Remove the windshield-wiper nut covers using a hook tool, small flat-tip screwdriver, pick or No. 2 PryBaby. Mark the wipers with a piece of premium masking tape to ensure you



reinstall them on the correct side. **Note:** Before removing the windshield, verify the position of the wipers. This windshield has marks where the wiper blades should line up.

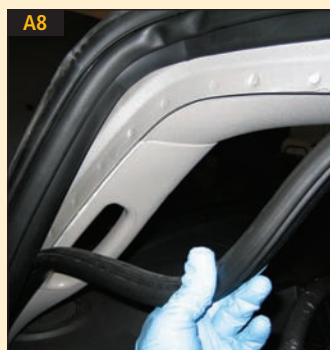
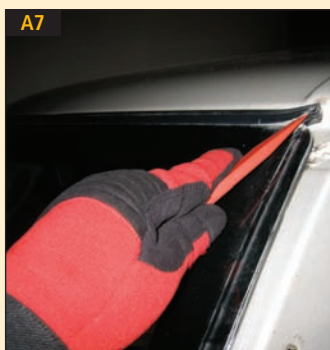
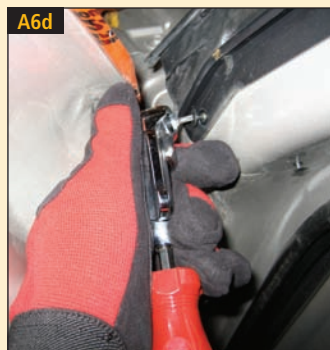
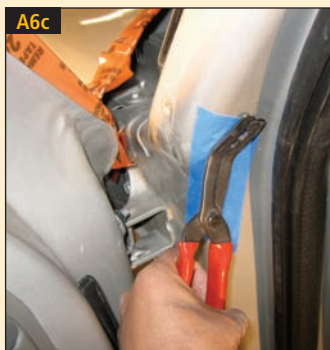
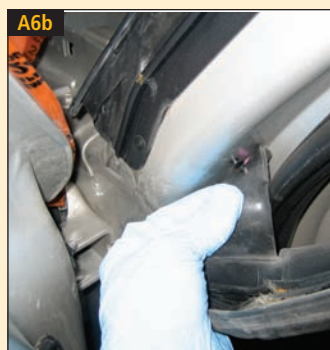
3. Using a wrench or socket, remove the nuts. If the nuts are tight, loosen them using a 13-millimeter wrench and then come back with your socket. Move the wiper arm in an up-and-down motion to break it loose from the post or use a wiper puller.

Note: Wipers can sometimes be hard to remove.

4. Remove the cowl weatherstrip by pulling it outward.

5. Pop the five cowl fasteners at the base of the windshield using a No. 1 PryBaby. Remove the cowl by pulling it in an upward motion toward the windshield, disengaging the cowl from the base of the hood and fender area. Make sure to tape the hood and fender with premium masking tape to avoid gnarling or scratching the cowl.

6. Remove the weatherstrip from the backside of the side metal windshield molding, at the base of the windshield. Use a door upholstery remover to remove the clip; then pull the



weatherstrip away in an upward-outward motion. There are five T-15 Torx screws hidden beneath the weatherstrip that you must remove before pulling the molding. **Note:** You might need an angle screwdriver to remove the lower screw at the doorjamb.

7. Remove the top windshield-molding strip using a hook tool or installation stick.

8. Remove the door weatherstrip.

9. If using a cold knife or power tool, remove the A-pillar trim panels, as the windshield fits close to the pinchweld.

10. Remove the trim covers from the A-pillar trim handle assembly using a small flat-tip screwdriver or No. 2 hook and pick.

11. Remove the two 10-millimeter bolts behind the trim covers.

12. In an upward-outward motion, gently pull the A-pillar trim panel, disengaging it from the dash.

13. Tape off exposed areas that might come in contact with your power or hand tools. Use premium masking tape to protect the painted surfaces. **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

14. Make sure cutting blades are sufficiently sharp.

15. Before cutting out the windshield, remove contaminants from the glass and pinchweld.

16. If using a cold knife, use a 3/4-inch blade. Cut three sides; then use a long knife or power tool to cut the bottom of the windshield. **Note:** There are no gravity stops on this windshield. Insert a TempSTOPs before removing the windshield to aid in setting the glass.

17. If trying to save the windshield, use an Equalizer with an 8-inch blade.

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

19. After cutting the sides and top, place a Pumper in the top center of the windshield to open the cutting area on the bottom. **Caution:** Never use your head to push. This could result in back and neck injuries.

20. Spray the bottom of the windshield at least 4 to 5 inches above the urethane on the glass, so water flows down into the urethane while you make your final cut across the bottom of the windshield.

21. Using a set of vacuum cups, take the windshield out of the opening. Lift the glass and place it on a windshield stand or suitable workstation.

Installation

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

23. Dry fit the new glass to the opening. Mark your glass using a grease pencil or molding hold-down tape.

24. Place your vacuum cups on the windshield in the appropriate location for a one-person set.

25. For driver-side setting of the windshield using a windshield-setting kit, place the arm-protector setting pad on the driver's side of the hood area; then lift the windshield from the windshield stand using the vacuum cups.

26. Reach over, place your elbow on the setting pad and set the windshield onto the old urethane.

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

28. 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.

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

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

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

32. Apply the glass prep, then primer, following the urethane manufacturer's recommendations.

33. Using a pinchweld-preparation tool, remove as much of the original urethane as the urethane manufacturer recommends. **Note:** Before removing the old urethane, make sure there are no contaminants and do not touch the pinchweld after you have prepped the area.

34. 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.

35. Apply a triangular bead of urethane to the same path as the freshly cut urethane on the pinchweld. **Note:** Before cutting your V-notch with a Top Notch tool, cut the tip off of your nozzle using 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.

36. Using vacuum cups, lift the windshield from the windshield stand or workstation. Reach over, place your elbow on the setting pad on the hood area 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.

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

38. Before reinstalling 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, ensuring the glass makes contact with the wet urethane.

39. Reinstall the removed parts in reverse order.

40. 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.

41. 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 DD11129-30GTY R-L.

2. To remove the door panels, first undo the trim cover on the door-handle assembly using a small flat-tip screwdriver or No. 2 hook and pick.

3. Remove the No. 2 Phillips screw behind the trim cover.

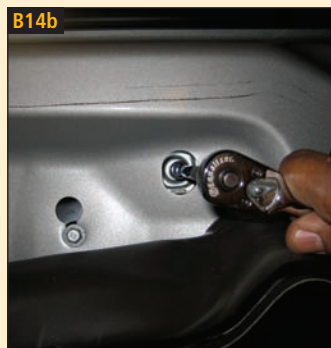
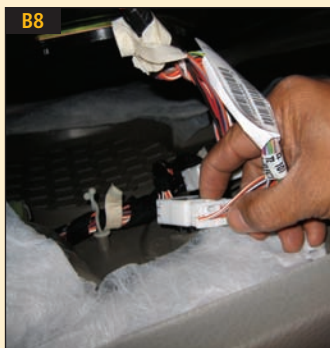
4. Remove the No. 2 Phillips screw from the armrest-pull handle.

5. Remove the No. 2 Phillips screw from the upper right corner, near the door mirror assembly.

6. Remove the trim panel using a door-panel remover or plastic trim-panel remover. Use a No. 2 PryBaby to disengage the seven plastic fasteners. **Note:** If the plastic fasteners stay on the door when you remove the panel, use a No. 5 PryBaby to save them and prevent scratches to the painted area around the door.

7. Disengage the door-handle rod by pulling or pushing it





away from the assembly. Use a No. 2 PryBaby to disengage it; then slip the rod off the door-latch clip on the mechanism.

8. Disconnect the three electrical harnesses using a small flat-tip screwdriver, No. 4 hook and pick or your fingers.

9. In an upward-outward motion, gently pull the door panel to disengage it from the door.

10. Set the door panel in a safe place.

11. Remove the interior, upper weatherstrip from the door-frame using a No. 2 PryBaby.

12. Remove the sound-weather barrier.

13. Lower the glass to align the mounting hardware with the opening.

14. Remove the front and back 10-millimeter bolts on the door glass assembly rails.

15. Remove the glass by lifting the backside first to disengage it from the weatherstrip channel.

Replacement

16. Slip the glass back into the door in the same manner



you removed it. Make sure it is fully in the weatherstrip channel and aligned before pressing it back onto the regulator rails.

17. Check the operation of the glass before replacing the door panel to ensure proper installation.

18. Reinstall the removed parts in reverse order.

19. You have completed the removal and replacement of the front door glass.

C. Rear door glass

Removal

1. Make sure you have the right glass. Rear door glass part numbers are DD10983-84 GNT,GTY R-L or DD10985-86 YPN.

2. To remove the door panels, first undo the trim cover on the door-handle assembly using a small flat-tip screwdriver or No. 2 hook and pick.

3. Remove the No. 2 Phillips screw behind the trim cover.

4. Remove the No. 2 Phillips screw from the armrest-pull handle.

5. Remove the trim panel using a door-panel remover or plastic trim-panel remover. Use a No. 2 PryBaby to disengage the seven plastic fasteners. **Note:** If the plastic fasteners stay on the door when you remove the panel, use a No. 5 PryBaby to save them and prevent scratches to the painted area around the door.

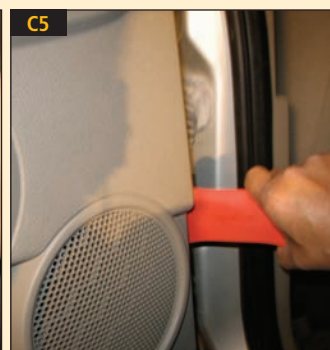
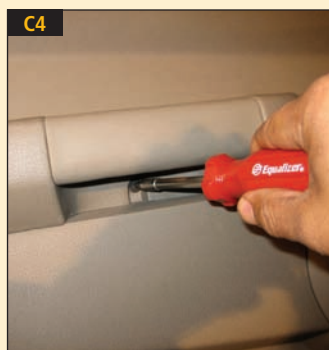
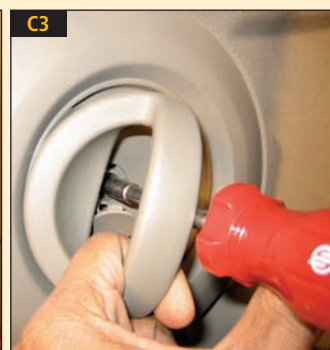
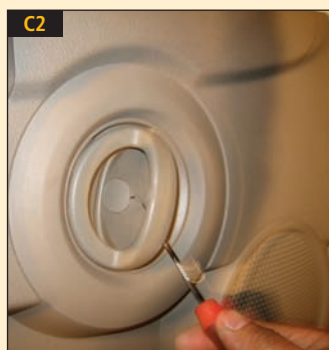
6. Disengage the door-handle rod by pulling or pushing it away from the assembly. Use a No. 2 PryBaby to disengage it; then slip the rod off the door-latch clip on the mechanism.

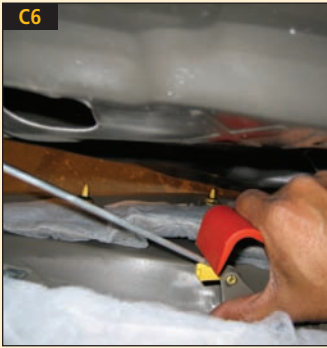
7. Disconnect the electrical harness using a small flat-tip screwdriver, a No. 4 hook and pick or your fingers.

8. In an upward-outward motion, gently pull the door panel to disengage it from the door.

9. Set the door panel in a safe place.

10. Remove the interior, upper weatherstrip from the door-frame using a No. 2 PryBaby.





11. Remove the sound-weather barrier.
12. Lower the glass to align the mounting hardware with the opening.
13. Remove the front and back 10-millimeter bolts on the door glass assembly rails.
14. Follow the vent glass removal steps in Section D.
15. Remove the glass by lifting the backside first to disengage it from the weatherstrip channel.

Replacement

16. Slip the glass back into the door in the same manner you removed it. Make sure it is fully in the weatherstrip channel

and aligned before pressing it back onto the regulator rails.

17. Check the operation of the glass before replacing the door panel to ensure proper installation.

18. Reinstall the removed parts in reverse order.

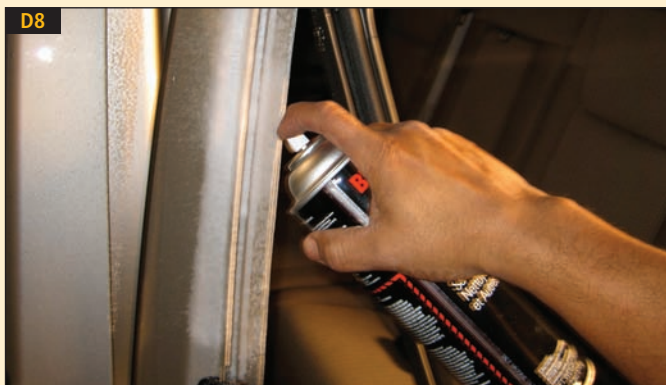
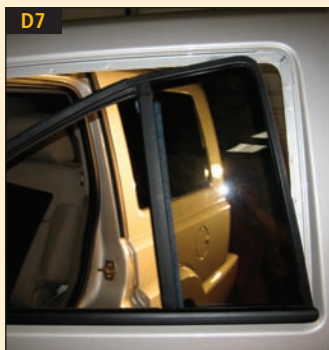
19. You have completed the removal and replacement of the rear door glass.

D. Vent glass

Removal

1. Make sure you have the right glass. Vent glass part numbers are DV10987-88YPY R-L.
2. Pull the weatherstrip channel felt away from the door frame.
3. Remove the vent glass assembly division bar's 10-millimeter bolt, located in the door right below the vent glass frame. **Caution:** Make sure to mask the vent assembly division bar to prevent scratching during removal.
4. Pull the vent glass assembly free and lift it out using an upward-outward motion.
5. Guide the vent glass assembly through the notch at the weatherstrip and the upper doorframe.
6. Follow the rear door glass removal steps in Section C.





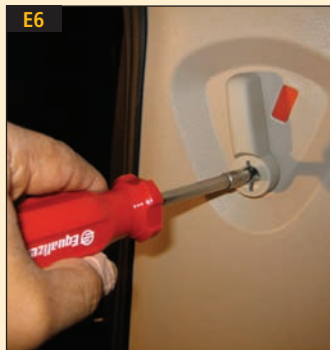
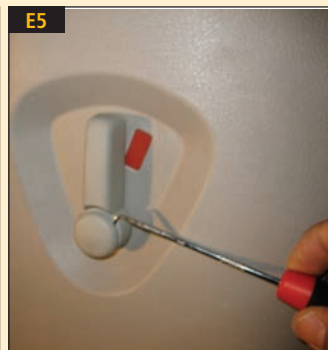
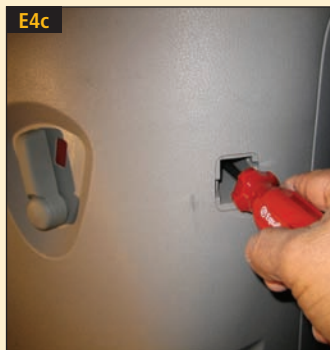
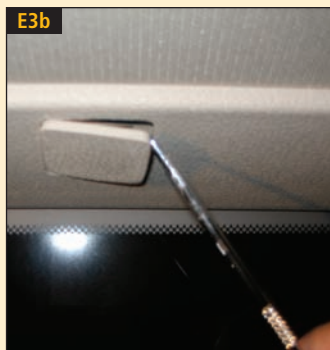
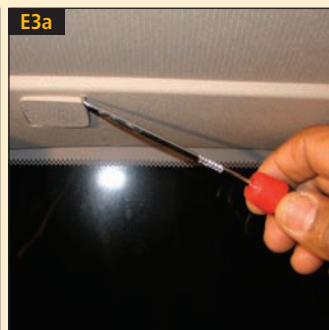
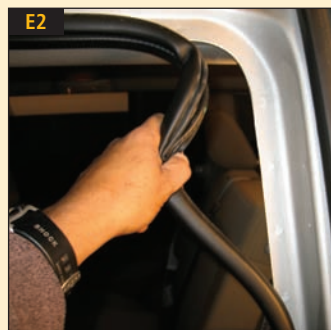
Replacement

7. Re-install the vent glass assembly by sliding it into the opening and firmly pulling it into the doorframe.
8. When re-installing the weatherstrip channel felt, use glass cleaner to lubricate the weatherstrip. This will allow you to slip the weatherstrip back into its original position.
9. Reinstall the removed parts in reverse order.
10. Follow the rear door glass replacement steps in Section C.
11. You have completed the removal and replacement of the vent glass.

E. Quarter glass

Preparation

1. Make sure you have the right glass. Quarter glass part number is DQ10989-90YPY.
2. Remove the weatherstrip from the rear door opening.
3. Remove the three small covers on the upper trim that hide a T-15 Torx screw.
4. Remove the T-15 Torx screws.
5. Remove the small covers on the rear seat latch that hide a T-15 Torx screw.
6. Remove the T-15 Torx screws.

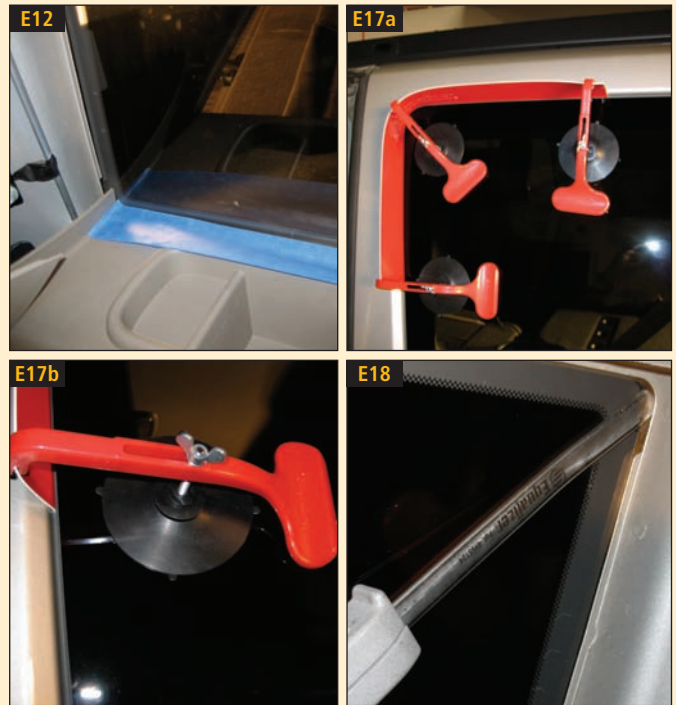


7. Partially remove the back glass upper trim panel using a No. 4 PryBaby or panel remover. Three push-in fasteners are on each side.
8. Remove the quarter glass upper trim panel using a No. 4 PryBaby or panel remover. There are three push-in fasteners on the backside at the back seat latch and one on the upper section following the roofline.
9. Remove the small cover on the rear seatbelt trim panel that hides a No. 2 Phillips screw.
10. Remove the No. 2 Phillips screw.
11. Remove the rear seatbelt trim panel using a No. 4 PryBaby or panel remover. There are three push-in fasteners.



Removal

12. Tape off the lower trim panel with premium masking tape.
13. Make sure cutting blades are sufficiently sharp.
14. Before cutting out the quarter glass, remove contaminants from the glass and pinchweld.
15. Tape the outside of the quarter glass with molding retention tape to avoid scratching the paint.
16. Place the pinchweld paint protector in the pinchweld, between the glass and the painted area.
17. Attach the suction cup pressure arm-controller on the glass. Tighten the wing nuts to secure the pinchweld paint-protector strip.
18. If trying to save the quarter glass, use an Equalizer with an 8-inch round-tip serrated blade, making sure the unsharpened side faces the glass. This will ensure the blade does not cut through the pinchweld paint protector, touching the painted area.
19. When using any power tool, lubricate the cutting area with water or a urethane manufacturer-recommended product. Spray the top and sides; then make your cuts.
20. Tape the top of the quarter glass on the exterior to ensure it does not fall out during the final cutting stage.



21. Spray the bottom of the quarter glass at least 4 to 5 inches above the urethane on the glass, so the water flows down into the urethane while you make your final cut across the bottom of the quarter glass.
22. Take the quarter glass out of the opening using a set of vacuum cups. Lift the glass and place it on a windshield stand or suitable workstation.

Installation

23. After cutting the quarter glass out, remove contaminants such as dirt, moisture and other debris from the pinchweld.
24. Dry fit the new glass to the opening. Mark your glass using a grease pencil or molding hold-down tape.
25. Place your vacuum cups on the quarter glass in the appropriate location for a one-person set.
26. Lift the quarter glass from the windshield stand using vacuum cups.
27. With the quarter glass resting in the opening, make sure it is in the right spot.
28. Adjust both sides to the correct setting and make your mark. Lift the glass and place it on a windshield stand or suitable workstation.
29. Follow the urethane manufacturer's recommendations for installation. **Note:** It is crucial to verify the urethanes and primers are current. Never use outdated products.
30. Clean the inside of the quarter glass using a urethane manufacturer-recommended product; follow recommended steps. **Note:** Do not touch the bonding area of the quarter glass after cleaning, prepping or priming it.
31. Wear powder-free Nitrile gloves to keep off chemicals.
32. Apply glass prep, then primer, following the urethane manufacturer's recommendations.
33. Using a pinchweld-preparation tool, remove as much of

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

34. Apply 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.

35. Apply a triangular bead of urethane to the same path as the freshly cut urethane on the pinchweld. **Note:** Before cutting your V-notch with a Top Notch tool, 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.

36. Using vacuum cups, lift the quarter glass from the windshield stand or workstation. Set it on the urethane at the mark you made during your dry fit.

37. Line it up with the dry-fit mark; it is now in place.

38. The quarter glass is now ready to be decked. Press firmly to ensure a good seal.

39. Before reinstalling 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, ensuring the glass makes contact with the wet urethane.

40. Reinstall the removed parts in reverse order.

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

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

F. Back glass

Removal

1. Make sure you have the right glass. Back glass part number is DB10991YPY.

2. Remove the two 10-millimeter bolts that hold the gas lifters to the glass.

3. Disconnect the two defroster electrical connectors, one on each side, by sliding the connectors in a downward motion.

4. Remove the two T-20 Tork screws from the back glass hinges.

5. Remove the two T-20 Tork screws from the back glass lock striker.



Replacement

6. Reinstall the back glass and removed parts in reverse order.

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

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

The author is director of the Auto Glass Academy, Equalizer Industries Inc., in Round Rock, Texas. A special thanks to Equalizer for providing the vehicle.



Notes
