

Ranger*Ware*



WPS-132 Installation Instructions

Vehicle Preparation

All photos are in the back of the instruction book so that they can be easily removed and laid out in your work area for easy reference. Please check Photo 1 first to get yourself familiar with the parts you will be working with.

NOTE: Retain all Fasteners for reinstallation.

1. If a windshield or Top & Back Panel have been installed you will need to remove the windshield and loosen the bolts securing the top & back panel to the roll cage. The front edge of the door threshold fits “over the roll cage” and “under the Windshield.”
2. Remove the front side kick panels and do not replace until instructed to do so.
3. If a WPS-104 heater system is to be installed, consult the WPS-104 installation instructions for installing the air duct vents in the side kick panels.
4. Under the kick panel there are (2) 3/8” x 3/4” cap bolts securing the roll cage to the frame of the vehicle on each side. Remove and replace these, (putting the bolt through from the inside out) with the stainless steel 3/8” x 1 1/4” cap bolts. Replace the nuts and tighten the cage back to the frame. *These longer bolts will act as studs to secure the bottom of the hinge brackets (Shown in photo 6).*
5. The bottom outside edge of the kick panels need to be cut off just below the outside corner. Tape or mark a straight line as shown in Photo 2, make several cuts or (scores) with a razor knife.
6. The top lip of each side panel need to be trimmed off flush with top of the seat support. Remove the seat and tape or mark a line as shown in *Photo 3* ((you may wish to remove the side panel to avoid damaging the seat support)) and make several cuts or (scores) with a razor knife. Make sure the side panel does NOT extend above seat support.
7. Remove the 4 screws securing the outside edge of the floor panel to the frame on both sides of the vehicle.
8. Remove the front, top screw securing the side panel to the seat base. (*Photo 3*)

Threshold Installation

Note: The driver and passenger thresholds need to be positioned and loosely held in place before the windshield, hinge bracket, and front mounting brackets are positioned and fastened.

Repeat all steps until both sides are complete.

1. Position the roll cage clamps (3 per side) so the flat side is on the outside of the tube and the bolt holes are located inside the door opening. The bottom clamp is located in the space immediately above the arm loop. **(Photo 4)**
2. Position the threshold **(Photo 4)**. First slide the rear corner inside the roll cage support, then slide the bottom flange between the floor panel and the frame (now you know why we had you remove the 4 bolts holding the floor panel to the outer frame). The front edge should be as tight as possible to the roll cage and wheel well. Loosely fasten the clamps using 1/4" x 1" button head bolts, bonded washers, (outside) 5/16" flat washers (inside) and flange nuts (inside). Replace the 4 floor screws but do not tighten.
3. Loosely fasten the front mount bracket to the threshold using (2) 5/16" x 5/8" button head bolts and flange nuts. Install a door limiter bracket on the outside of the middle hole using a 1/4" x 3/4" button head bolt and flange nut. **(Photo 5)**
4. Set the windshield in position and loosely hold in place with the top clamps.
5. Position the hinge bracket, bottom over the extended bolts in the wheel well and fasten with flange nuts, finger tight. **(Photo 6)** Align the hinge bracket top with the holes in the windshield ((*see note below*)), threshold and front mounting bracket, fasten loosely using 3/8" x 1 1/4" button head bolts with flange nuts on the inside. Position the outer edge of the hinge bracket at 1" from the threshold and tighten securely. **(Photo 7)** Tighten the 5/16" nuts to secure the threshold to the bracket. Align the limiter bracket vertically and tighten. **(Photo 5)**

NOTE: Hinge brackets are slotted and may need to be adjusted in or out after the door is installed. If your windshield only has 1 mounting hole you will need to drill a 3/8" hole after securing the existing hole. Drill the hole at the same location within the hinge slot to allow for adjustment.

6. Loosely fasten the filler panel to the bottom of the striker support bracket using the 1/4" x 1/2" Button head bolts and flange nuts. **(Photo 1)** With the seat removed, align the striker support bracket with the threshold and install the striker bolt (washer outside)

and (3) 5/16" x 5/8" Button head bolts and flange nuts. Tighten the striker first. Align the slots in the bracket over the seat support and drill 3/8" holes thru the center of the seat support (*you should use an angle head drill*). Fasten loosely using 3/8" x 1 3/4" button head bolts, washers (top) and flange nuts. **(Photo 8)**

7. Adjust the threshold to provide as flat a surface as possible for the door to close against. First push the bottom of the threshold tight against the frame and tighten the 4 floor screws. Next hold the clamps and threshold parallel to the door opening and tighten. Push the door threshold and strike support bracket in or out to align and tighten in place. Position the filler panel tight against the plastic side panel and tighten.
8. Install the kick panels omitting the outside screws. Retain the screws for future use should the door threshold ever be removed.

Installing and Adjusting Doors

Note: Before making any adjustments regarding the seal or operation of the latch the door must be hung and adjusted on the hinges with the proper alignment of the latch and striker along with the proper clearance (1/8") between the plastic latch covers and the threshold.

1. Loosely install the hinges (pin down) to the outside of the lower half of the door using the 1/4" x 3/4" Button head bolts, stainless steel washers (outside) backing plates then flange nuts on the inside. Install the door limiter bracket under the nut on the top hinge, center bolt. The doors and the hinges are slotted for adjustment and must not be tightened at this time.
2. Set the Brass Washers on the hinge pins (works good to super glue them on to prevent future loss) and hang the door on the hinge bracket. Slowly attempt to close the door and adjust on the loose hinges to align the latch with the striker bolt. The latch should be centered or slightly high (*to compensate for the weight of the upper half of the door*) on the striker bolt. Allow 3/16" clearance between the plastic latch cover and the threshold. ***Using a 3/16" shim taped to the threshold on both sides of the striker bolt may help to maintain this clearance.*** Make sure the hinges are bottomed out against the hinge bracket and tighten securely. Slowly close the door several times to check for proper latch alignment and clearance. Adjust if necessary. Minor adjustments may be made to the latch after the top half of the door is installed.
3. Attach the top half of the door to the bottom using 1/4" x 3/4" hex head bolts with a lock then a flat washer on each bolt. The 2 inside bolts require flange nuts inside the armrest, the other have threaded weld nuts in place. Start all bolts first, then tighten securely. ((Make sure outside of the door halves are lined up before tightening.))

Final adjustment

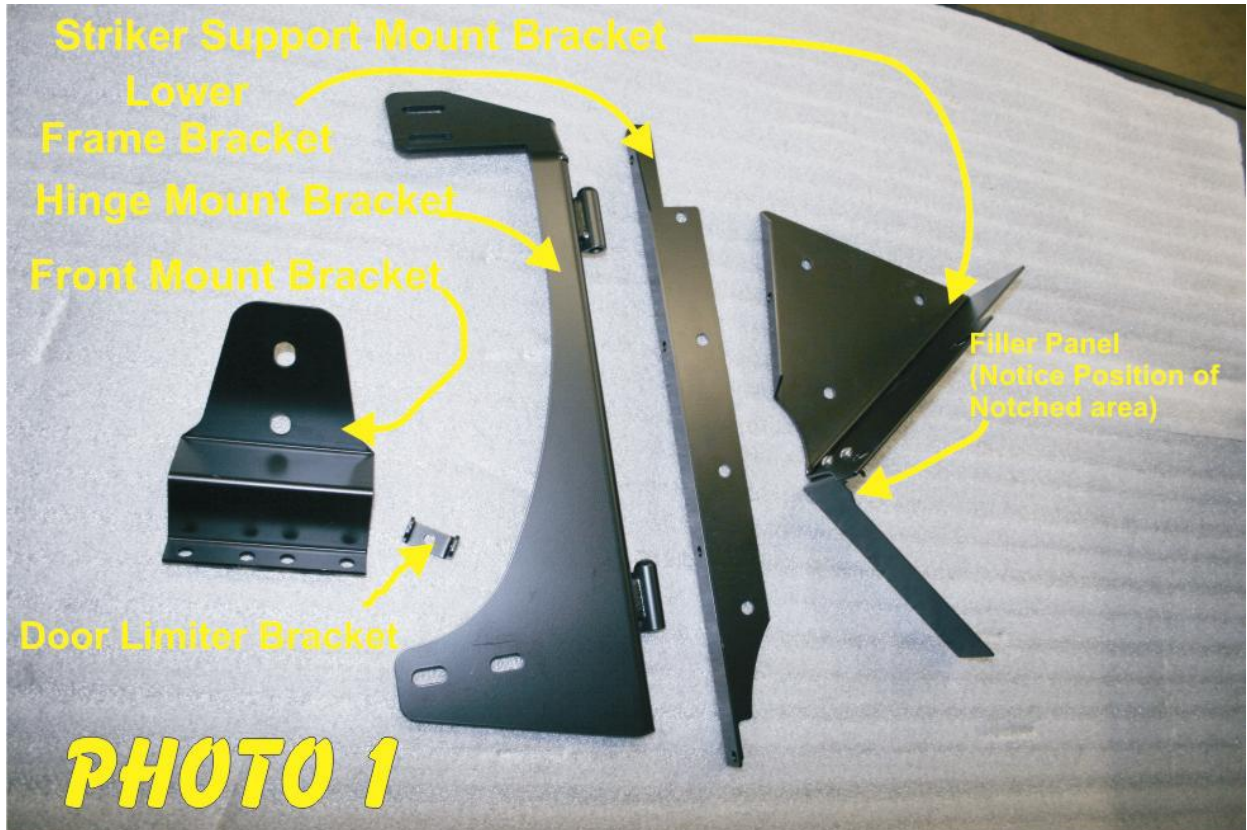
Note: When properly fit and adjusted, the door should close smoothly by use of the inside grab handle or a firm pressure in the latch area (just below the handle) from the outside. The bulb seal should contact the threshold with only slight compression. The latch is a double latch and must be in the second catch position for proper seal. Closing the door slowly you should be able to hear and feel the second catch in the latch.

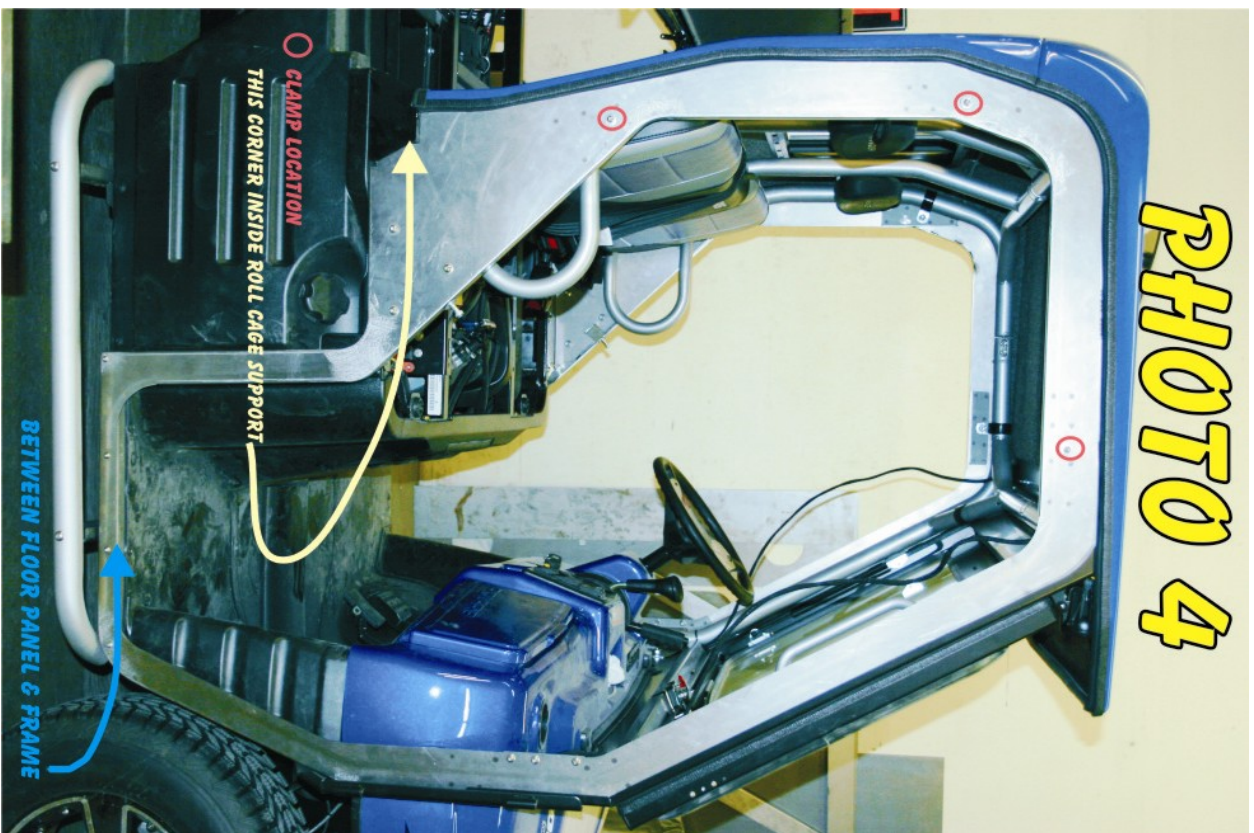
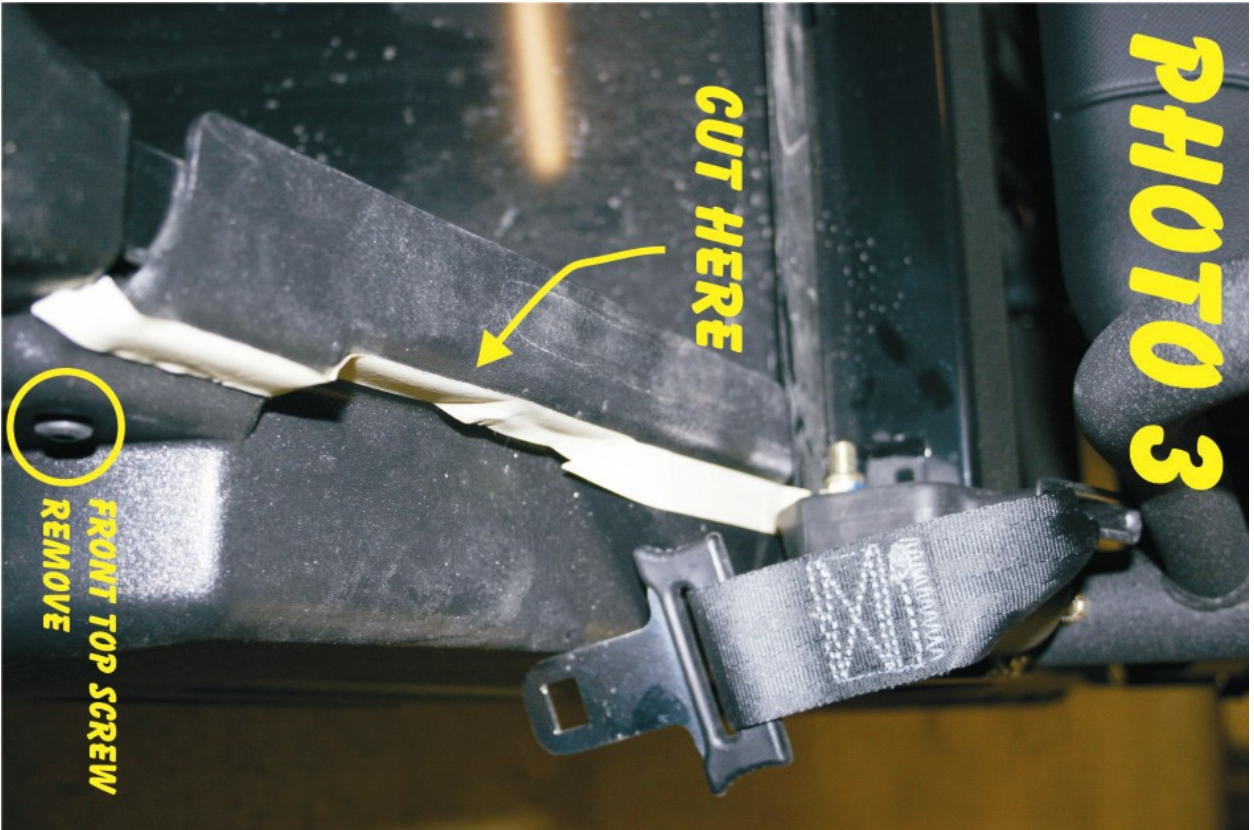
(See Photo's 9 & 10)

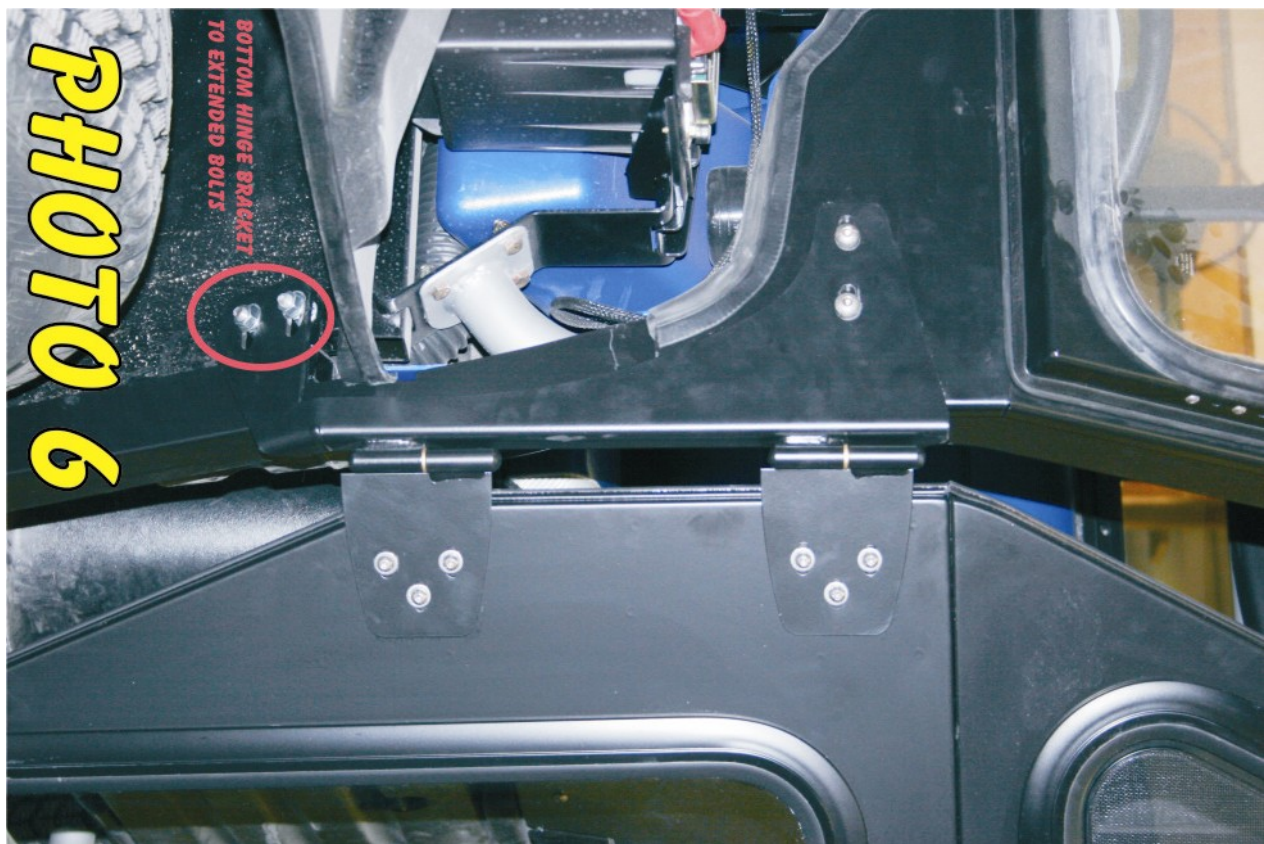
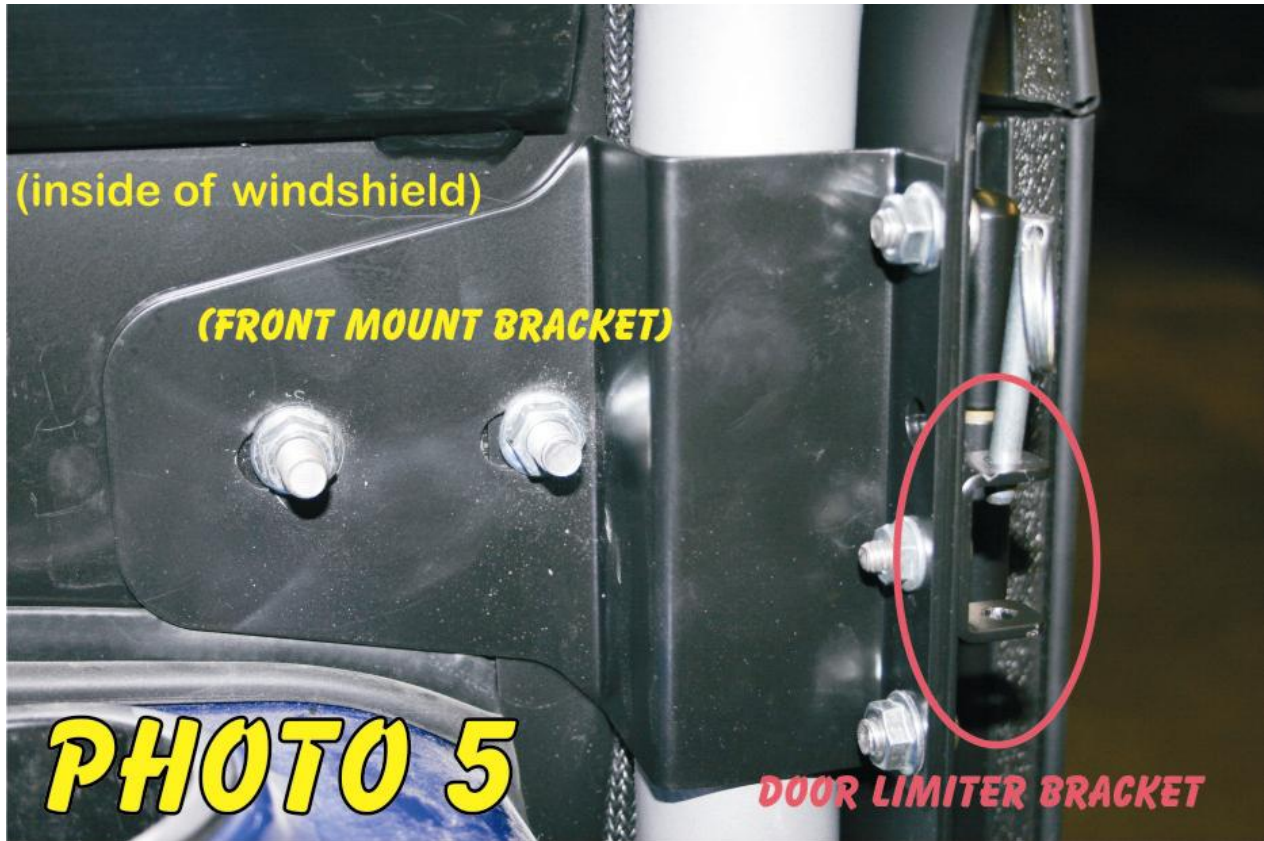
1. Slowly try the door several times to check the alignment of the latch and the striker along with clearance of the plastic latch cover. If needed loosen the hinges bolts and adjust.
2. The hinge bracket may be moved in or out to adjust the seal on the front edge of the door. Loosen the 4 nuts securing the bracket and adjust the top or bottom as needed. Too much compression of the bulb seal on the front portion of the door will cause a binding effect.
3. The striker support bracket may be moved in or out to adjust the seal at the rear of the door. Loosen the 2 bolts securing the bracket to the seat support and adjust as needed. Moving the striker may effect the operation of the latch and the pressure needed to close the door. The latch may need to be adjusted to compensate for the seal adjustments, see the next step.
4. The latch has 2 adjustments. It may be moved in or out to adjust the compression of the bulb seal and the amount of force necessary to close the door. It can also be moved from front to back to adjust the latch clearance. To adjust the latch remove the retaining screw and the plastic latch cover. On the end of the latch are 2 screws which hold the latch to the bracket. Loosening these screws will allow you to move the latch in or out from the striker. To move the latch front to back you will need to remove the plastic cover on the front of the inside handle with a screwdriver and loosen the nut. Loosen the nuts under the latch which secure the bracket to the door. Make sure the retaining screw for the latch cover is in place and move the handle and latch as needed.
5. Install the limiter strap using the quick release pin on the threshold and the ¼"x 1 ¾" button head bolt and nylock nut on the door mounted bracket.

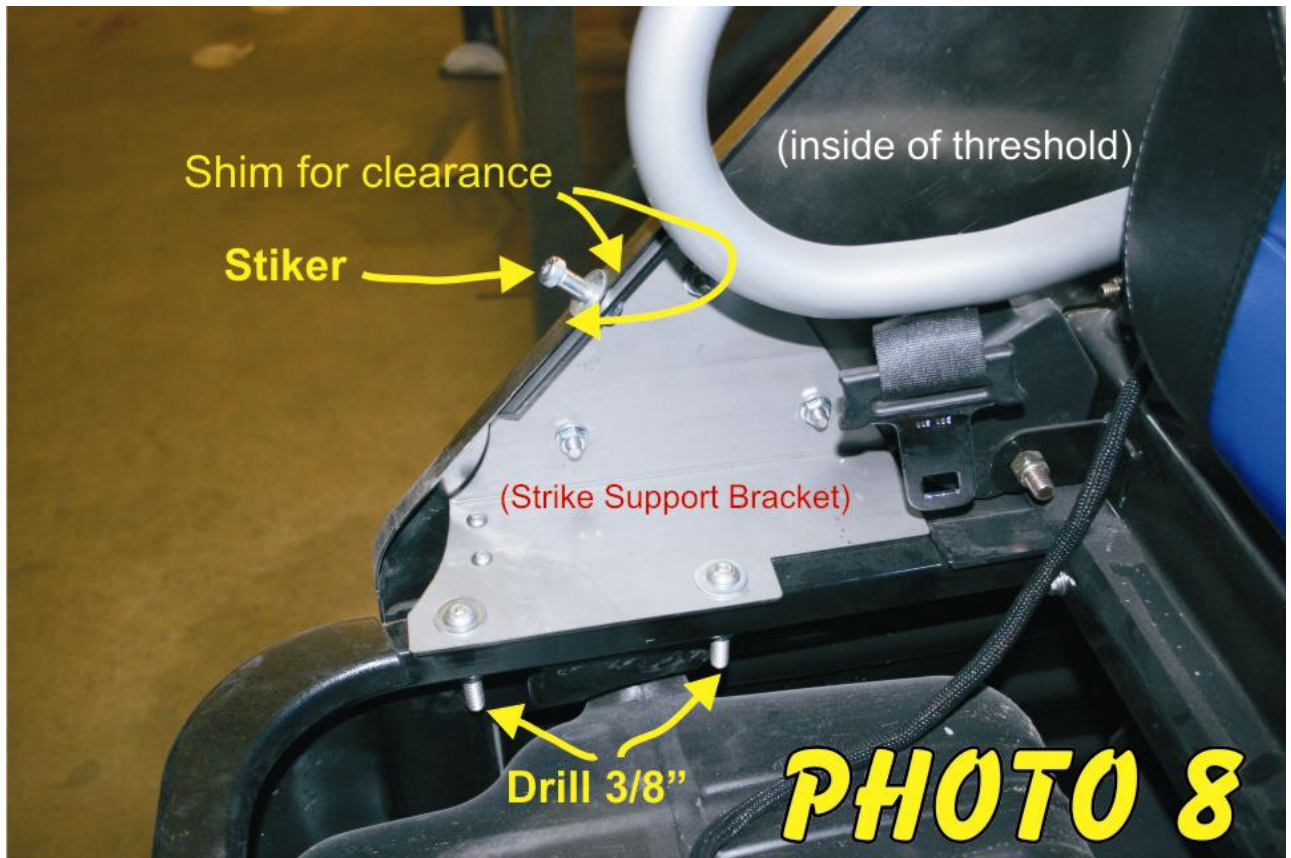
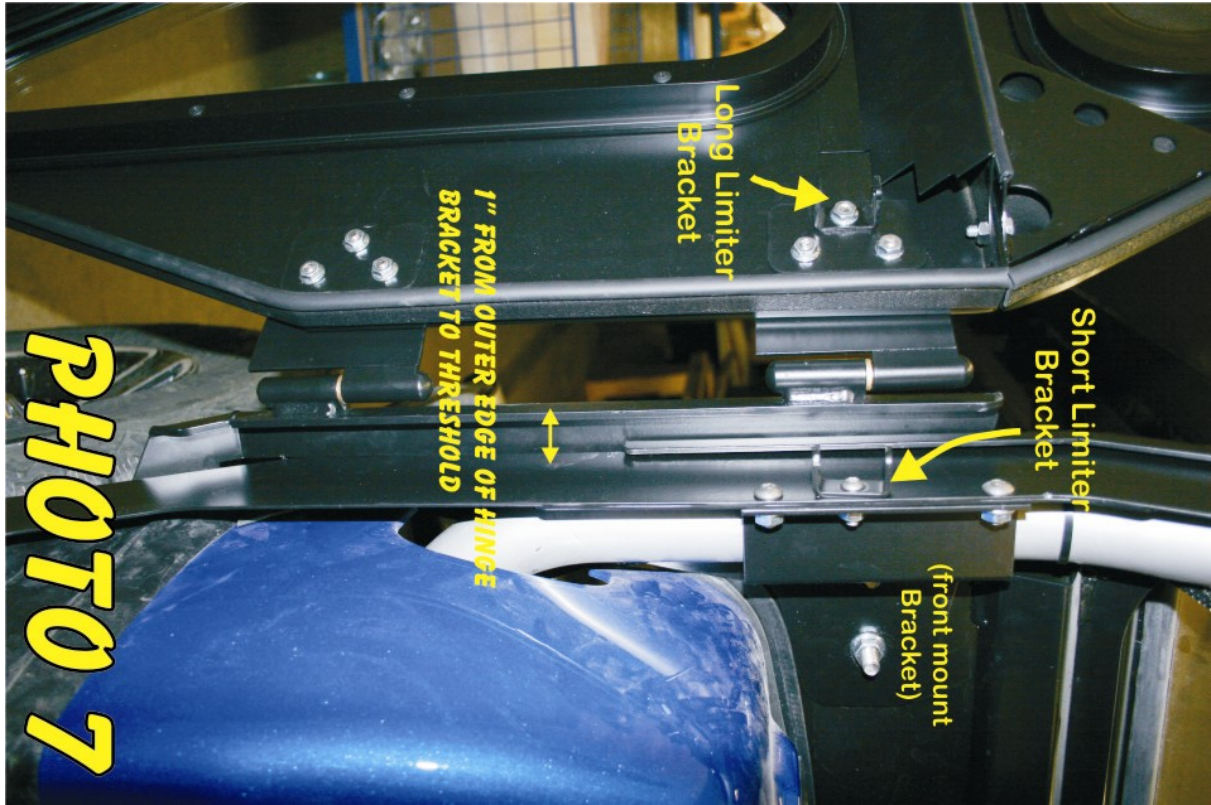
At this point your door installation should be complete. Double check all fasteners, reinstall your seat and take it for a test ride. You earned it!

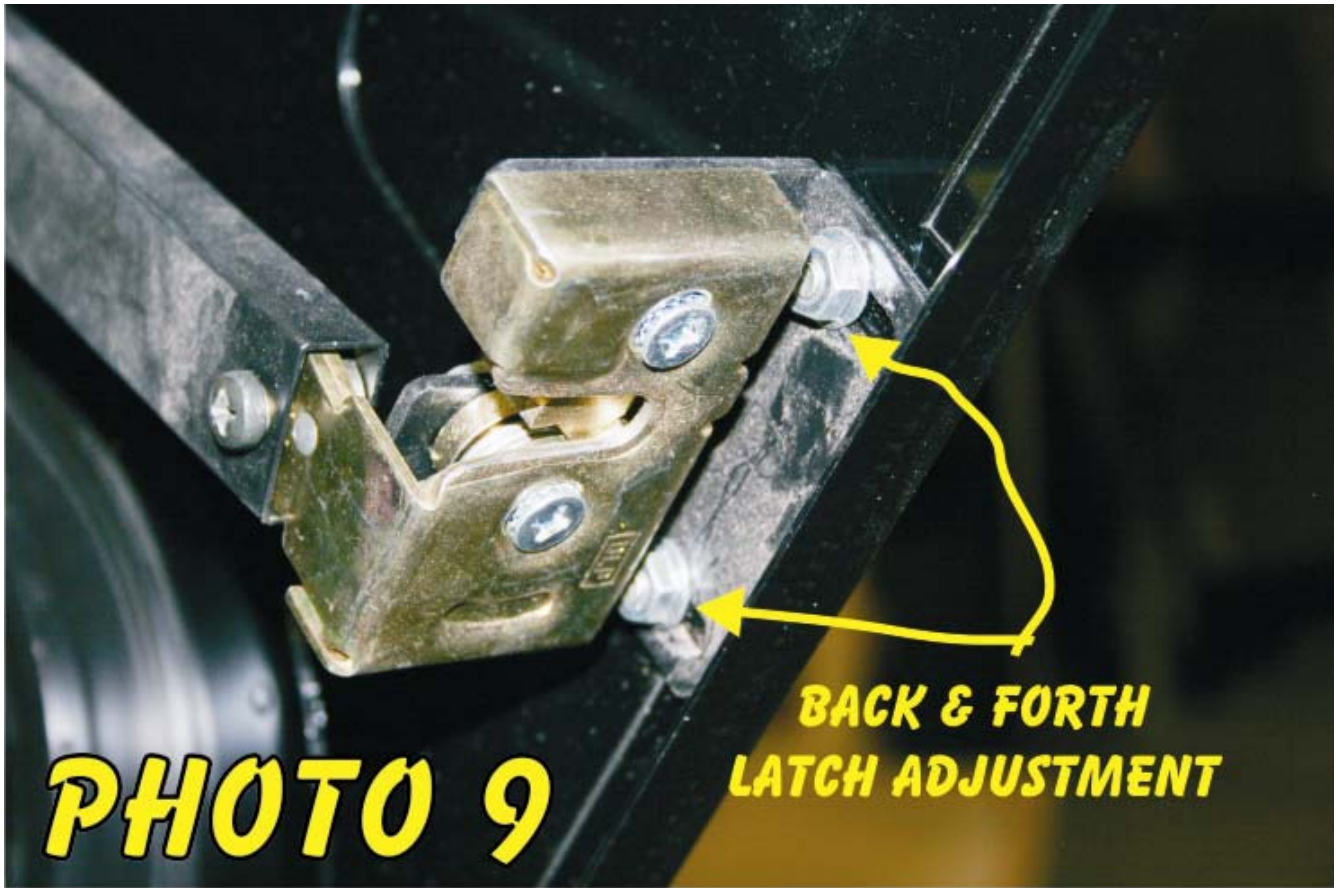
NOTE: After several hours of use with the new doors installed it is recommended to go through the steps of the installation and tighten and or readjust and align as needed.













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