

Tips for Installing Rhinogear Products

The recommended sequence for installing our Rhinogear line of products on your Rhino. This sequence will help with ease of installation and help save time by eliminating repetitive steps.

1. If an RH-404 heater is to be installed, Do it First.
2. The next item to be installed should be the RH-401 Tip Out Windshield or the RH-411 Fixed Glass Windshield. Also at this time if you are installing our RH-412 Doors the hinge plate for the doors should be installed at this time because they use the same connection point as the lower attachment area on either of our windshields.
 - a. Refer to the Windshield installation booklet or the installation booklet for either RH-800 or RH-801 top and back panel kit and go to the “Mounting Brackets” section.
 - b. For installing the RH-412 Door Mounting Bracket refer to items 1-6 of Door instruction booklet.
3. If our RH-800 is being installed this would also be a good time to install the wiring harnesses as outlined in you instruction booklet.

A full WPS (Weather Protection System) installation provides increased utilization, comfort level and added value to your Rhino, it also slightly increases the weight of the machine.

To retain the original ride and comfort level, the shock absorber pre-loaders can be adjusted to a stiffer setting.

NOTE: Any time you tighten a fastener in fiberglass, which has a cushioned headliner material like ours installed, there will be some Dimpling of the fiber glass



RH-801-2

INSTALLATION INSTRUCTIONS

surface around the head of the fastener. A slight dimple is normal, overtightening, to where the head of the fastener is pulled deep into the fiber glass surface, will damage the fiberglass and cause cracking. It is best to undertighten at first, then return and tighten as necessary. Our fiberglass products are rugged but some caution is required during the installation to assure a professional looking job.

RHINO TOP AND BACK PANEL INSTALLATION PROCESS! RH-801-2

MOUNTING BRACKETS, WINDSHIELD & TOP

1. The two front windshield support brackets are located in the windshield box. Install the (2) top front windshield support brackets, there is a left and right bracket. Replace the bolts and snug up, do not tighten at this time. **Refer To Photo # 1**



2. Install the (2) top stand-off support brackets, there is a left and right bracket. Replace the bolts and snug up, do not tighten at this time. **Refer To Photo # 2**



NOTE: All brackets will be marked P-Passenger's Side, D-Driver's Side.

Tip: If the seats are not installed. When you remove the bolts from the passengers side of the cross roll tube and drop one, it goes under the fuel tank; every time. You can retrieve the bolt by tipping the Rhino over on its side, about 30 degrees, and shaking it a little. Use a magnet to go between the fuel tank and the side fairing and pull the bolt out. It works. Tip provided by Butterfingers.

MOUNTING WINDSHIELD – EITHER OUR FIXED GLASS OR TIP-OUT

1. Remove the (2) per side, lower front bolts from the roll cage tube. These are next to the rubber straps that hold the hood in place.
2. Set the windshield in place, install the steel spacers, ((NOTE: Bottom 2 holes are for 2006 and older models and the top 2 are for 2007 Model)) one per side, between windshield mounting tabs and the recessed area on the roll tube. Align the holes in the windshield tab, spacers and roll tubes and install the 2 1/2" buttonhead bolts supplied in the kit, do not tighten the nuts.

Refer To Photo # 3



3. Center the windshield frame on the two front roll tubes so the run parallel with the tubes. Snug the (4) bolts on the lower tab, they will be tighten later.
NOTE: Due to differences in the roll cage system, they are not always square; the two bolts on one side may be all the way at the bottom of the adjustment slots in the

tab, where the other side may be all the way to the top of the slots.

4. Pull the top of the windshield frame tight to the roll tube, it should be in the center of the tube and running parallel with the tube. Install the two carriage bolts, head on top and the Nylock nuts and then tighten till snug. You may need to move this slightly for alignment later.

Refer to Photo # 4



MOUNTING TOP PANEL AND BACK PANEL

NOTE: Before putting the back panel in place make sure that the top 2 rivets on the ABS Plastic shield, behind the driver seat, have the rivet head on the back side. If not change them or the back panel will not fit.

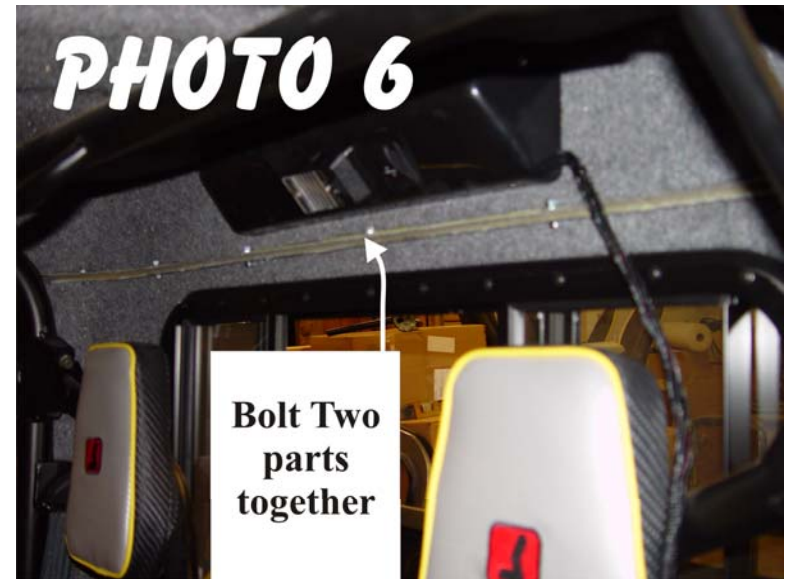
1. Set the top panel in position, place the (8) 1/4" buttonhead bolts through the top panel but do not install the nuts

NOTE: Place one of the 1/4-3/4" Rubber Backed Stainless Steel washers under each of the buttonhead bolts.

2. Open the dump box then, ((At this point do not close dump box until installation is completed)) set the rear panel in place, pay special attention to the bottom edge to assure it is in position. The two bottom corners must be just inside the roll tubes, align the top and back panels and clamp together. Refer to Photo # 5



3. Using the (7) 1/4" hex bolts, nuts and washers, bolt the top and back panel together. When tightened, install the 3/8" piece of trim-lock over the exposed edges. Refer to Photo # 6



NOTE: Place the washer under the head of the BOLT; the nut has a built in serrated flange. Tip: It helps if you have the rear sliding window open.

4. Position the top and back panel assembly on the upper brackets, checking the fit and alignment with the top and back roll cage tubes. Install a 1/4" flat washer and Nylock nut, on the bolts through the stand off bracket and tighten.
5. Install the 1/4" flat washers and Nylock nuts on the (6) bolts going through the top panel and windshield frame, tighten to snug.
6. Make sure the windshield frame is still tight against the front roll tubes, then tighten the (2) carriage bolts and the (4) bolts holding the windshield brackets in place. If it's not tight to the roll tubes, adjust it, then tighten.
7. Tighten all (6) bolts going through the top and windshield frame.

8. Insert a 1 3/4" vinyl covered clamp, long flat side facing outward, between the vertical roll tube and the back panel. There is enough give in the rubber bulb seal around the panel to slip the clamp in place. One clamp goes on each side. Refer to Photo # 7

NOTE: To keep both sides the same, you can either measure up from the bottom corner of bulb seal 3 1/2" and align the bottom edge of the clamp or



using the top edge of the clamp, sight along the top edge of the seat back.

9. We need to draw the back panel tight against the roll tube. Using a ratcheting strap, place the strap around the back panel and the roll tubes, just below the rear sliding window. Tighten the strap, pulling the bulb seal tight against the roll tubes. Refer to Photo # 8



10. Using a 9/32" bit, drill a hole through the back panel centered on the hole in the clamp. Use the rubber backed washer under the head of the 1/4-20 x 1 1/2" button head bolt and the zinc washer under the nylock nut on the clamp side. Install the bolt and tighten.

Refer to Photo 5 for step 11

NOTE: When installing the RH-412 door system install the striker bolt assembly before the next step.

11. Remove the seats and position the bottom rear corners of the back panel so the lower trim is even with the center of the roll cage tube. a piece of duct tape may be used to hold the panel in position. Feed the duct tape thru the opening behind the seat belt recoil and fasten to the panel surface. Push the panel forward into position and fasten the tape to the roll cage. With both corners secured carefully lower the dump box,

checking for clearance between the box and the cab. A minimum of 1/8" clearance is necessary- adjust corners if needed. Drill a 9/32" hole thru the plastic side panel and fiberglass back panel. The hole should be located 1 1/4" down on the plastic and 7/8" forward of the fiberglass panel corner. (use caution when drilling to avoid damage to the seat belt) Position the plastic spacer between the side panel and back panel, using the 1/4 x 20 x 1 1/2" button head bolts with rubber backed washer go thru the Side panel, Space and Back panel. Secure with flat washers and nylock nuts.

Watch for more exiting

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