



INSTALLATION INSTRUCTIONS FOR FRONT CASTING DECK RAIL Ranger

TOOLS REQUIRED FOR INSTALLATION: Drill motor, (1) 5/16 inch drill bit, (1) 13/64 drill bit, (1) 3/16 inch hex wrench (1) 3/32 inch hex wrench. One, 7/16, one, 1/2 inch and one, 9/16 inch combination wrench. One number 3 Phillips screw driver or 1/8" square bit. One right angle square and one partial roll of masking tape will also be required. A tape measure will also be required.

Step 1. Check the required parts list enclosed on your shipping order to verify that all parts are present for installation of your rail system.

FRONT CASTING DECK PARTS LIST:

- a. (1) #600 SS anchor plate with 4 each 5/16"x24x 3/4" SS hex cap bolts and 4 ea SS flat washers, 4 ea SS lock washers, 4 each 1/4"x2.5" Philips SS screws (included in screw pack) and one each 1/4"x 6" Phillips head SS Machine bolt with flat washer, lock washer and nut. One 3"x3" SS backing plate backing plate for installation on underside of the front starboard storage compartment.
- b. (2) #500 Universal tube clamps with closure bolts. One each required for connection of P-138 rail to starboard wall and to Z-rail.
- c. (1) #200 base mount plate with 4 each 1/4"x2.5" SS screws and 4 each 3/8"x3/4" SS hex cap bolts, lock washers and flat washers.
- d. (1) #400 Side brace mounting pad with backing plate and 3 ea 1/4"x2.5" SS bolts with Nylock hex nuts. One, 1/4" SS backing plate is supplied for the back side of the #400 mounting bracket.
- e. (1) #700 Side brace adjustable swivel brace with 3 each, 5/16"x18x3/4" bolts and lock washers.
- f. (1) Custom length, Z- rail.
- g. (1) P-138 standard, P- rail.
- h. (1) Pack of 1/4" X 2.5 inch Stainless steel screws. Pack of 8.
- i. (1) Packet of anti-seize.



REMEMBER TO BE CAUTIOUS AND CAREFUL WITH ALL COMPONENTS AND TOOLS WHILE INSTALLING YOUR RAIL SYSTEM.

Step 2. Thoroughly read the complete set of installation instructions. Failure to install your Fish'n Rail according to the enclosed instructions may void the equipment warranty.

Step 3. Remove the front casting deck seat and place the #600 plate engraved side up over the mounting hole with plate laying to the starboard position. The plate should be perpendicular to the keel. Using the masking tape apply a strip on both straight sides of the plate. Reinstall the seat and align the seat release button on the pedestal by centering the cut out on the #600 plate. DO NOT install any screws in the #600 plate (Fig# 1).



Step 4. Bolt the Z-rail to the #600 plate using the hardware fastened to the plate for shipping, but DO NOT fully tighten the hardware. Adjustment will be necessary before tightening the hardware. Bolts in the #600 plate come with anti seize on them. Assistance holding the Z-rail will be required. (Fig#2)



Step 5. Using one #500 rail clamp and the P138 rail insert the Z rail coped end over the clamp, add anti seize to the threaded fastener and install. Tighten the rail only tight enough to keep the clamp from sliding on the P rail. Measure from the top of the Z-rail to the casting deck both front and back to locate the square of the Z-rail to the #600 plate (Fig# 3a).

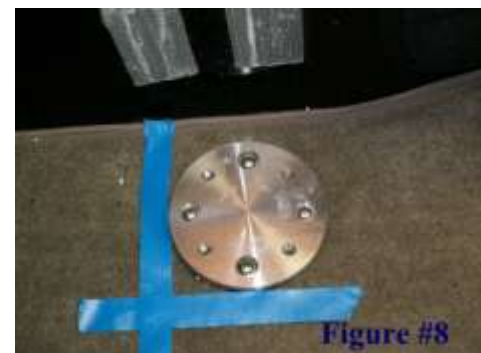
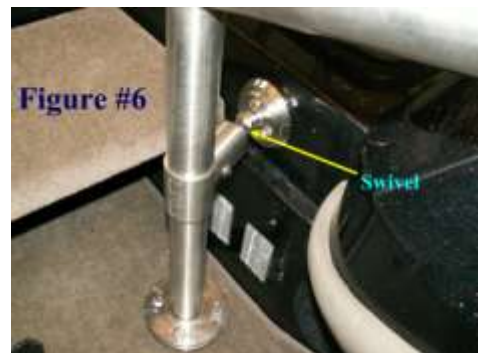


Step 6. Install the second #500 clamp on the lower P-rail and attach the #700 swivel brace to the clamp (Fig#4).

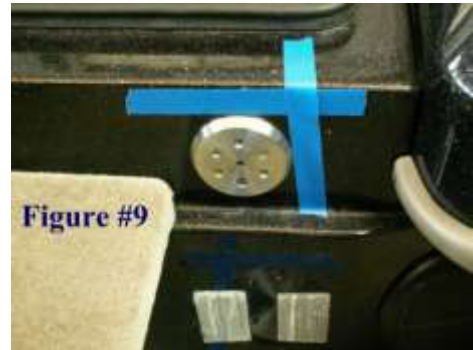


Step 7. Place the #200 mounting pad under the P-rail base plate (Fig#5) keeping the adjustment slots on the P-rail as close to mounting plate hardware bolt center as possible, add anti seize to the provided hardware and snug. Next, place the #400 side mounting plate in line with the #700 swivel and locate the horizontal position as close to 90 degrees as the starboard wall allow (Fig#6). Particular attention should be paid to the positioning of the P rail and the distance from the console (Fig#7). User may prefer an angle suited for hand clearance that should be addressed at this point of installation. Check for interference on the inside of the starboard wall of the compartment. Confirm that there are no obstructions or uneven surfaces that will inhibit the backing plate when final positioning is made and hardware is to be tightened. Check that the rod locker and starboard storage locker will fully open.

Step 8. Once again use the masking tape squared along two sides of the #400 and the #200 mounting plate. Remove the P-rail base plate hardware and relocate the plate to the tape for pilot drilling screw holes (Fig# 8). Check the alignment of the entire rail system ensuring that the Z-rail is square to the #600 plate before pilot drilling. Drill the four holes for the #200 plate using only a 13/64" drill bit being careful not to over drill the pilot holes. (DO NOT USE ANY OTHER SIZE DRILL BIT FOR PILOT HOLES.) Use a 3 point Phillips tip to tighten the four 1/4"x2.5 SS screws through the #200 plate and into the pilot holes. (DONOT USE A POWER DRILL TO FINISH TIGHTEN THE SCREWS. HAND TIGHTEN THE SCREWS THROUGH THE #200 BASE PLATE).



Step 9. Next locate the #400 mounting plate to the taped position on the starboard wall (Fig#9) and mark the 3 holes for drilling. Remove the plate and using a 5/16" drill bit, drill the 3 holes in the starboard wall. Hold the backing plate on the inside of the compartment and align the plates for installation of the three 1/4"x3"SS bolts through the backing plate (Fig #10). Continue verifying the entire rail system is still square to the casting deck. Add anti seize to the threaded ends and tighten the three bolts that you have drilled for the #400 plate.



Step 10. Move the #700 swivel to align the slots to the holes on the #400 starboard wall mounted plate (Fig#11). Add anti-seize and install the 5/16x18x3/4" bolts with the flat and lock washers provided and snug the hardware. Using the square and measuring tape make sure the rail is perpendicular to the floor. Tighten the P rail flange bolts at the floor position. Adjust the swivel and square to the floor by measuring and squaring the P-rail.



Step 11. Check the rail alignment. Move to the casting deck plate and check the #600 plate alignment with the seat pocket hole and the tape. Mark the holes for pilot drilling. Next take the 5/16" drill bit and drill a quarter inch deep hole for the two holes under the seat. (The seat pocket mounting plate is Stainless steel. Only drill through the metal portion which will be 1/4 inch or less.) Using the 13/64" bit complete the pilot holes for all four screws and install the screws. Now move to the end hole on the 600 plate and drill one, 5/16" hole through the existing fastening hole. Insert the 4.5" x 1/4" x 20 SS bolt install the backing plate. Apply anti seize to the threaded end install the hardware inside the boot of the starboard storage locker. Check alignment and tighten all hardware on the front plate. (HAND TIGHTEN THE STAINLESS STEEL SCREWS WITH #3 PHILLIPS TIP)



Fish'n Rail

Step 12. Remove the mounting bolts from the Swivel bracket and screw the threaded rod adjusting bar in. Using the 3/32" hex wrench to tighten the set screw on the blind side of the 700 swivel. Reposition the 700 plate, add anti seize and reinstall the hardware. Tighten securely and then check all hardware and alignment one final time.

NOTE TO USER: When removing and reinstalling your Fishing Rail always reapply anti seize to your hardware.



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