



Quest 150 Rudder System Installation Instructions



Introduction.

The Quest's rudder system is designed to make installation easy. Even more important, it is designed to minimize the effort of installing the rudder each time the kayak is assembled. Control cables and pull-up cord are in plastic hoses and stay in place when the Quest is disassembled. Simply disconnect the cables from the rudder housing with spring hooks and remove the screw holding the stern end of the pull-up cord, and the rudder housing can be removed. Disconnect the rudder cables next to the seat, and the foot controls can be removed (the foot control/foot pegs clip to the kayak frame with almost no effort). It really is that simple.

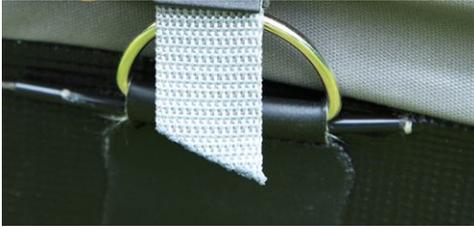
Installation (*the kayak should be assembled during installation*).

1. Installing the rudder bracket on the stern.

The bolts for the rudder bracket are already in place. Remove only one bolt and reinstall it from inside the hull through one of the holes in the bracket. Reinstall the lock nut loosely. Remove the other bolt and repeat the above procedure. Tighten the nuts. *Note: The bolts keep the pieces of the stem in the correct position. If both bolts are removed at the same time, it may be hard to get them reinstalled correctly.* The Rudder housing can now be attached to the bracket.



- 2. Installing the hoses for the rudder cables.** *Note: The rudder system comes with 3 plastic hoses, each with a preinstalled Technora cord. All the hoses are cut to the correct length for the Quest 150, and all are identical. Please use two as rudder cables and one for the pullup cord.*

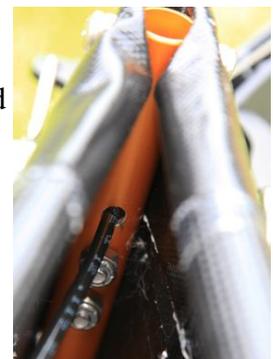


Using an awl, large nail or drill, make a hole in the side fabric through the center of a preinstalled reinforcement patch just in front of the stern handle. Take care to avoid damaging the inflatable tube. Locate one of the plastic hoses. At one end, the cord has a loop. This is the stern end. Undo the knot in the

cord at the other end and push the hose through the channel that holds the handle's D-ring, then through the hole you just made with your awl. Feed the hose along the inside of the hull between the side fabric and the inflatable tube forward towards the seat. At each cross rib position, insert the hose through 1 of the ties that hold the air tube in position. Leave about 2 inches (5 cm) of the hose exposed behind the handle's D-ring. Repeat with a matching hose on the other side of the hull.

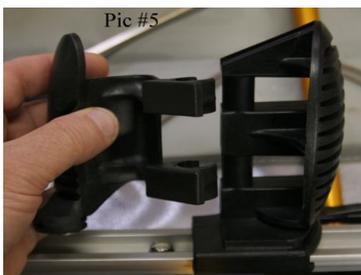


- 3. Installing the hose for the pull-up cord.** There is a hole through the stern stem above the bolts. Insert your awl through this hole from inside the hull and push it through the kayak skin. Undo the knot in the third cord and press the end of the plastic hose against the awl. Push the hose against the awl, through the hole you made with the awl, letting the awl guide the hose through the hole, all the way through the stem. Run the pullup hose along the side of the hull like you did with the rudder cables, leaving 1 - 2 inches exposed at the stern. *We run the pullup cord on the right, but it works just as well on the left. Your choice.*



- 4. Installing the rudder cables.**

Your rudder cables are Technora cord. Technora works with swages and it holds knots very well. Feed a cable loop at the stern through the eye of one spring hook, then around the hook itself and tighten. Repeat with the other cable. Clip the rudder cables to the rudder housing.



- 5. Installing Foot Control Pedals.**

First, locate the foot control pedals and springs. Please note that each pedal has a wheel opening for the cable on one side. That side should be next to the side of the kayak once the pedal is installed. Each pedal clips to the foot pegs as shown in Picture 5. Please complete the foot pedal installation by installing the two springs for each pedal (Picture 6).

- 6. Installing the Rudder Cable through the Foot Control.**

If you have not installed the foot rests in your kayak, please do it now. *Disconnect the front ends of the seat side rails. Insert the narrow end of the foot peg rod. Clip the front end of the foot peg rod to the cross rib (up high to have enough room) and press it down to the*

preinstalled plastic ring on the cross rib.

Install the foot control pedals and springs on the foot pegs. Add the grey adjustment screw at the front end of the foot peg rail.

7. Adding Rudder cable to Foot Controls.

Tie a knot at the end of one of the shorter cord pieces (*the knot should be large enough to prevent it from slipping through the adjustment screw*), insert the cord from the front, through the grey adjustment screw, under the foot peg and over the foot control pedal as illustrated.



8. Connecting front to rear parts of the Rudder Cable.

Insert the rear part of the cord through the barrel lock adjuster and tie a knot to hold it in roughly the position shown. Insert the forward part of the cable through the other part of the barrel lock adjuster and tie a knot as illustrated. (*You can undo the knots and fine tune later.*) Repeat on the other side of the kayak.

9. Adjusting the Rudder Cable.

Lock the rudder housing in the straight forward position. (*This may be easier with some help.*) Move the knots on the rudder cables so that the adjustment screws are in a position you like and the foot control pedal is vertical. Both adjustment screws should be about half way in when you are done so that you have a good range of adjustment. Cut off extra cord inside the barrel lock adjuster. Repeat on the other side of the kayak.

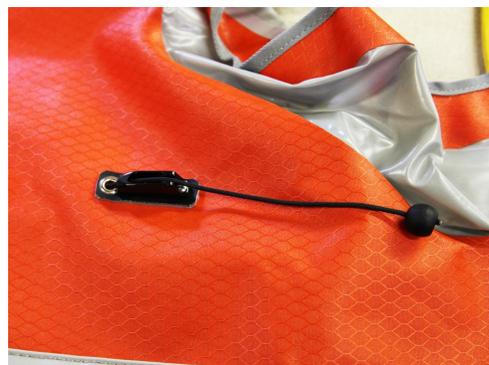
10. Installing the Jam Cleat for the Pull-up Cord.

Locate the black plastic jam cleat. It is screwed to a black piece of fabric. Using the repair kit adhesive, glue it to the inside of the kayak skin as illustrated. Insert the cord through the hole in the back of the jam cleat and through the rubber ball. Tie the end of the cord to the small washer and secure with a knot. The washer will secure the cord so the end will stay inside the rubber ball. This works with or without the deck installed, but you cannot reach the pullup cord with the spray skirt on.



11. Alternative Jam Cleat Installation.

Place the foam backed jam cleat patch in the desired position on the deck. With the awl, make a hole through deck at one of the screw positions. Install the screw through the aluminum backing and tighten the lock nut. Repeat with the other screw. With the awl make a hole under the grommet. The cord can now be inserted through the hole in the deck, through the grommet and through the hole in the back of the jam cleat. Insert the cord through the rubber ball and secure with a knot and washer.



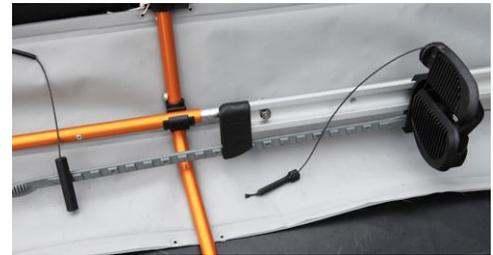
12. Installing the pull-up cord rear.

Run the cord back over the top rear corner of the rudder housing and down to the hole in the rudder blade. Feed the loop through the hole. Wrap the loop at the rear end of the cord around the short steel bolt. Screw the bolt into the hole. Pull on the cord to make sure the pull-up works smoothly.



Disassembling your Quest.

1. Separate the parts of the Barrel Lock Adjuster and remove the Foot Pegs/Foot Controls.
2. The Quest can be packed with the rudder blade and housing in place, but this takes more room in the bag.
3. If you prefer to remove the rudder and housing, disconnect the rudder cables from the rudder yoke, disconnect the pull-up cord by removing the bolt. To remove the rudder assembly from the hull, push the hose for the pull-up cord to the side and lift the housing off the rudder bracket. Attach the rudder cables to the rudder bracket on the stern. *Hoses, rudder cables and pull-up cord stay in place and get packed with the boat skin.*



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