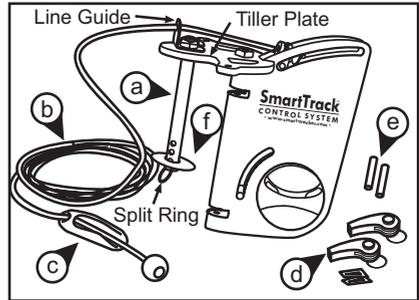


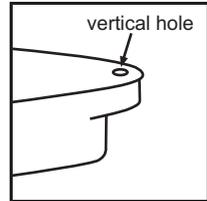
SmartTrack Control System Top Mount, Long Pin #03815

This style of Blade Housing installs on a kayak that has either an extension at the rear of the kayak with a vertical hole all the way through it or it may have some type of metal casting attached to the rear of the kayak with a vertical hole. Sometimes the vertical hole has a plastic or nylon sleeve inserted. The Tiller Pin on the Long Pin is 3/8 in. x 3 5/8 in. long with 3 holes to accept a split ring for retention. This split ring is the method by which the rudder is held down in place.

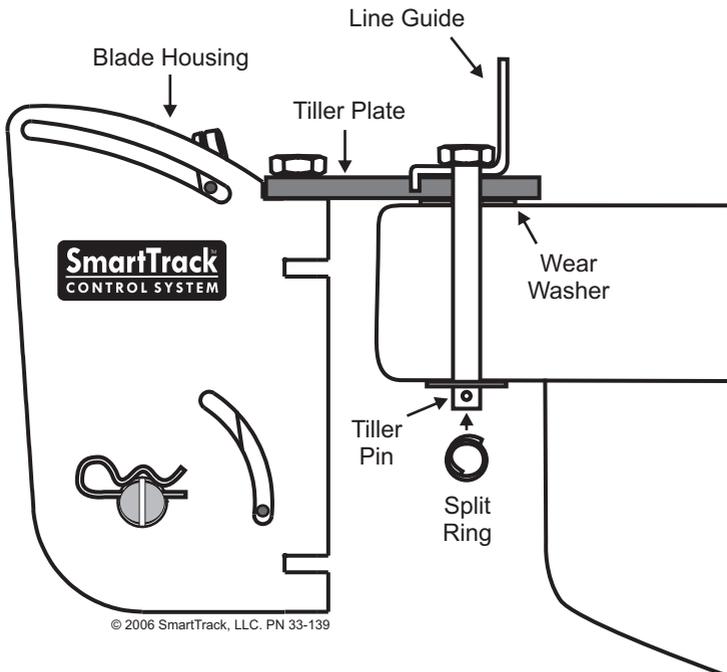
1. Disconnect existing rudder cables.
2. Remove split ring and lift out rudder assembly. Note use of any nylon wear washers under tiller bar or on the lower end of the existing pin.
3. Install SmartTrack rudder. Observe height of the Line Guide. Use of one or more nylon Wear Washers under the Tiller Plate will accomplish two things: One, it will raise the Line Guide for easier clearance of the Rudder Cord across the rear deck. Two, it will reduce the friction under the Tiller Plate.
4. Insert the split ring into the uppermost available hole. May need an addition nylon washer or spacer to prevent the rudder pin from "walking up".



Parts in the Long Pin Rudder Mount kit:
 a) Blade Housing with 3 5/8" x 3/8" Long Pin
 b) Rudder Cord with Ball End
 c) V-Cleat
 d) Cool Rudder Wedgie
 e) Shrink Tubing f) Wear Washer



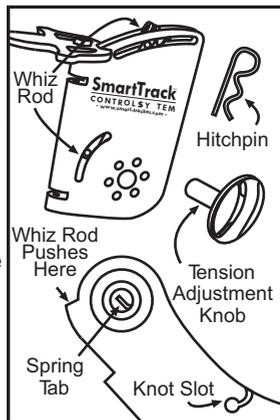
Typical Top Mount -
Long Pin Kayak.



Attaching the Foil Blade Rudder

The SmartTrack Foil Blade has a Coil Spring on the right side where it attaches to the Blade Housing. The Tension Adjustment Knob engages this Spring and can be used to adjust the tension of the Foil Blade depending on anticipated paddling conditions.

1. Remove Hitchpin and Tension Adjustment Knob.
2. Insert Blade into Housing with straight edge forward. Make sure to catch the bottom of the Whiz Rod with the upper notch on the Blade.
3. Align the pivot hole in the Blade with the large center hole in the Blade Housing and reinsert the Tension Adjustment Knob. Line up the slot in the Tension Adjustment Knob with the Spring Tab in the Blade and push until the Knob engages the spring.
4. Wind the Tension Adjustment Knob clockwise until the desired Blade tension is achieved.



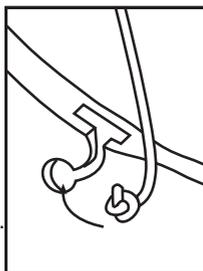
Insert Blade into Blade Housing.
Note notch for Whiz Rod on Blade.

NOTE: If you can not tighten the Tension Adjustment Knob, it may be in the locked position. Pull it out slightly and try turning it again. Do not tighten the Tension Adjustment Knob more than 180 degrees, or 1/2 turn.

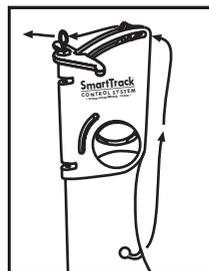
5. With the Tension Adjustment Knob tightened as desired, push it all the way into the Blade Housing, engaging the locking knobs. You may need to rotate the Knob slightly to engage locking knobs.
6. Insert Hitchpin back onto Tension Knob, making sure Clip lies flat.

Attaching Rudder Cord

The SmartTrack system only requires one cord to be routed and because of the unique design, the amount of force required to raise the rudder is significantly less than many other designs. Plan out how you might use existing deck fittings to route the cord to reduce labor and maintain minimum friction. Look inside the kayak at the length of the machine screws used to attach fittings along your planned route for the new Rudder Cord. Often times you only need to use a slightly longer machine screw through a deck fitting, slip a cable guide under the fitting and feed the "new" machine screw into place and tighten in place with the nyloc nut.



Insert knot in Knot Slot



Routing of the Rudder Cord. (Rear Mount Blade Housing shown.)

1. Tie a tight overhand knot in the end of the cord. Press it into the Blade Knot Slot, center it and pull cord to seat knot in hole. If knot sticks up it can create drag inside the Housing. If the knot still protrudes, melt knot edge with a lighter and flatten. For added security, a spot silicone sealant may be used on the knot.
2. Thread cord from Knot Slot in blade up through the guide in top of Whiz Rod and into Line Guide.
3. Mount cord guides on deck, if necessary, and thread cord. Mount V Cleat in appropriate location. Remember to take into consideration bulkhead location, and hand position when paddling, etc.
4. Lower blade, run cord through the Jam Cleat, and tie Ball End onto the Rudder Cord as close to the V Cleat as possible. Melt the cord end to prevent fraying.