Assembly Instructions

Step 1. Install Thwart Tube

Retrieve your thwart tube from your kayak and insert the tube through one side of the thwart tube clamp.

Center the thwart tube on the thwart clamp.

Secure the thwart tube in place by tightening the screws to **35 in/lbs (4Nm)** of torque, utilizing the included 4mm hex wrench . Thwart tube can rotate slightly.

Do not over tighten these two screws. Over tightening will result in damage not covered under warranty.

Correct

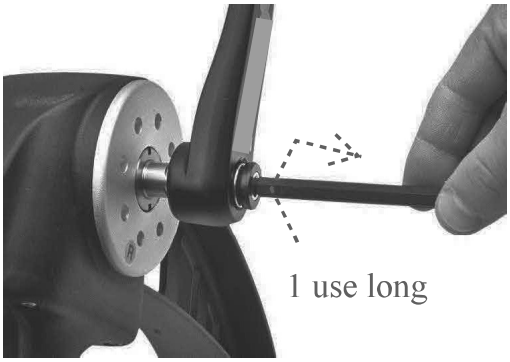
Incorrect

2. Install the Left and Right Crankarms

Slide Crankarms over square fittings on both sides.

One Crankarm facing up, one down, same as bike.

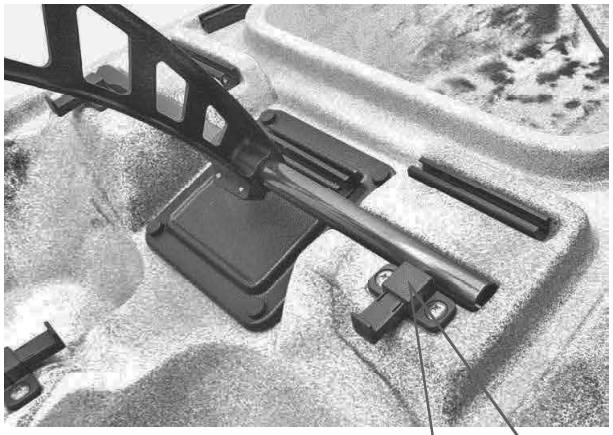
Install the Crankarm bolts; starting them by hand and then tightening to **25 ft/lbs. (35Nm)** utilizing the included 8mm hex wrench.



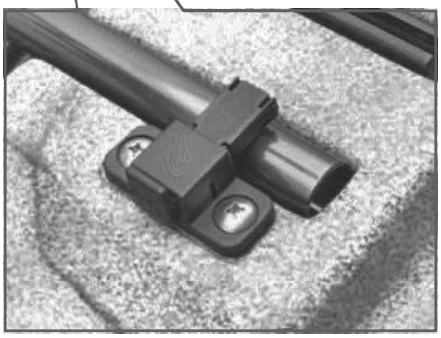
1 use long

2 use short

3. Install Pedal Drive into your kayak.

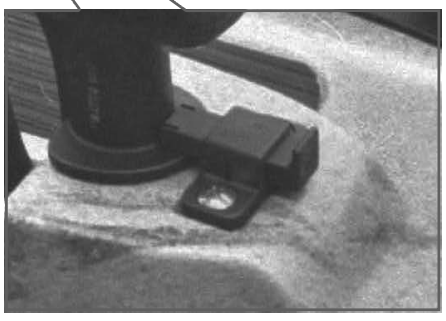


Set the aluminum thwart tube into the half round recesses located in front of the drive box. Push the slider latch forward to lock the tube in place. To remove the pedal drive push the slider latch backward to unlock the tube, repeat on opposite side.



4. Lock

Lower the pedal drive through the drive box. Lock the pedal drive in position with the slider latch installed on the front of your drive box. Replace the drive box cover.



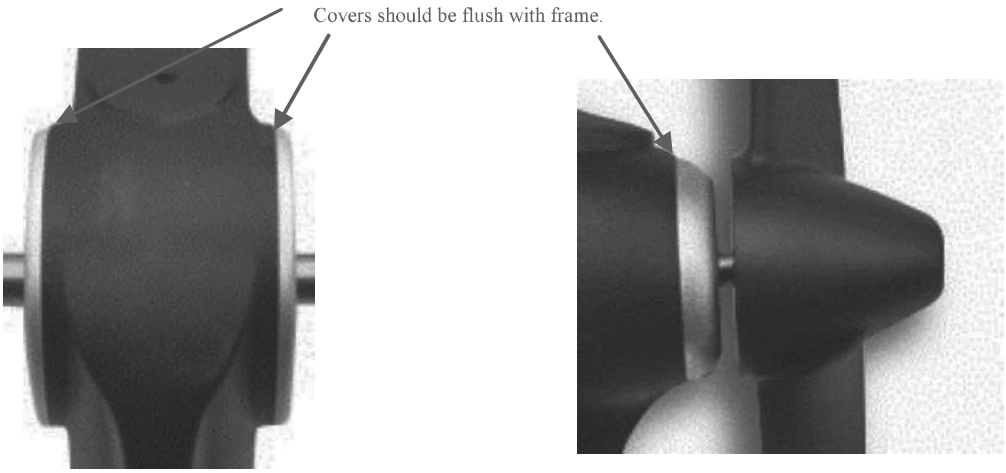
Maintenance and Service

Much like the drive train of a bike,the pedal drive will require routine inspection and maintenance. Drive manufacturer recommends maintenance every 6 months, or 75 days of use. The main purposes of these services are to ensure the internal gears of the unit remain properly lubricated and the covers remain tight and sealed. Failure to maintain these two key points may result in abnormal wearing of the gears and eventual failure of the unit. If you do not feel comfortable performing the prescribe maintenance, please contact your local dealer

Regular Maintenance Instructions

- **Check Covers**

The covers are threaded into the ped. drive frame and use thread locker to ensure they do not come loose due to vibration and the rotational motion of the spindle. However, to ensure the proper function of the internal gears, it is important that the covers are completely threaded and flush to the frame. Visually inspect the top and bottom covers and, if necessary, use a spanner wrench to tighten. These covers should be inspected before every use. If the covers are loose, or have been removed, they should be reassembled using blue thread locker on the cap threads.



- **Lubricate Upper Gear Set**

Your foot drive utilizes gears that have been specifically designed for the most efficient and quiet transmission of your pedaling power. In order to ensure the same smooth function from the day you first purchased your boat, the gears will require a small amount of lubrication. Through the convenient grease port, you will be able to apply grease directly to the gears using an extended nozzle and Teflon grease. A lubrication kit can also be purchased from your local dealer.

Remove grease port screw using a 3/16" hex wrench.

Use an extended nose grease gun to reach gears.

Inject 2 to 3 pumps of grease and replace grease port screw. Rotate crank arms slowly to apply grease throughout the gear assembly.

- **Lubricate Lower Gear Set**

Remove the propeller by following the "Shear Pin Replacement" instructions on the facing page. Next, remove the cartridge using a spanner wrench with 3/16" pins.

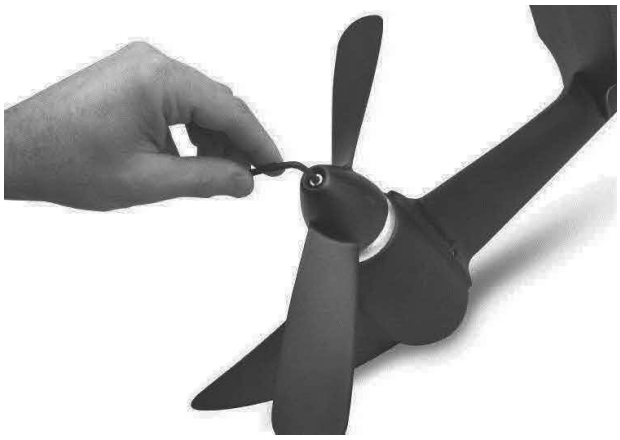
Grease the Propeller Gear on the cartridge with 2 pumps from the grease gun.

Grease the Lower Transmission Gear by inserting the extended nose grease gun and injecting 2 pumps onto the gear.

Return the cartridge to the main body. **Be careful of gear conflict during the replacement of the housing.** To avoid damage to gears, tighten by hand as much as possible, and if you feel resistance, stop and rotate the propeller spindle counterclockwise a few degrees .

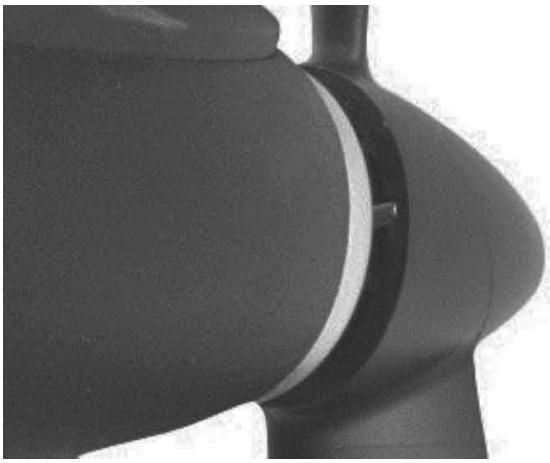
Shear Pin Replacement

In order to ensure that the gears of the pedal drive are not damage if the prop is hit during rotation, your propeller is fixed to the drive shaft with a shear pin.



Remove the end bolt using a 4mm hex wrench. Pull the prop straight back to remove the prop and expose the shear pin.

Replace the shear pin.



Replace the prop, making sure the pin sets into recesses the in prop. Replace the bolt and tighten 1/2 turn past the bolt engagement with the propeller.

Note: The prop bolt only holds the prop to the shear pin, it does not drive the propeller, so it does not need to be very tight..