

propelTM *pedal drive*

OWNERS MANUAL

ASSEMBLY, MAINTENANCE, AND WARRANTY

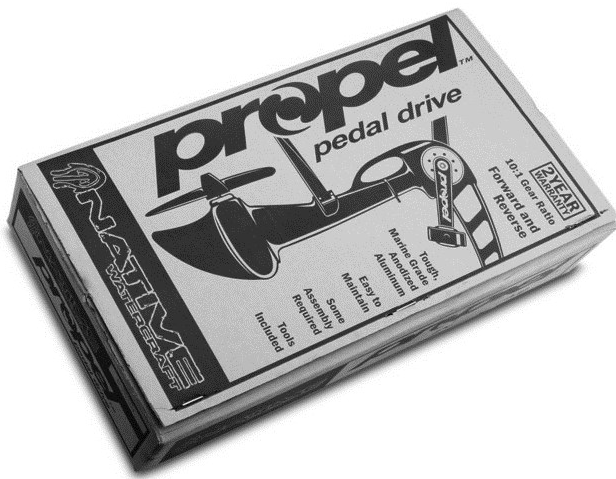


Although the Propel Drive is very dependable, never pedal out farther than you are willing to paddle back.



NATIVE

WATERCRAFTTM



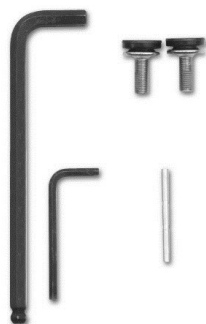
Your Propel comes shipped to you in this robust box to help prevent shipping damage and requires some assembly.



Propel Parts Bag.*

Main Propel Assembly

Left and Right Crankarm Assemblies



*The Propel Parts Bag includes:

- 1) 4mm Hex Wrench
- 1) 8mm Hex Wrench
- 2) Crank Arm Bolts
- 1) Spare Shear Pin

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.



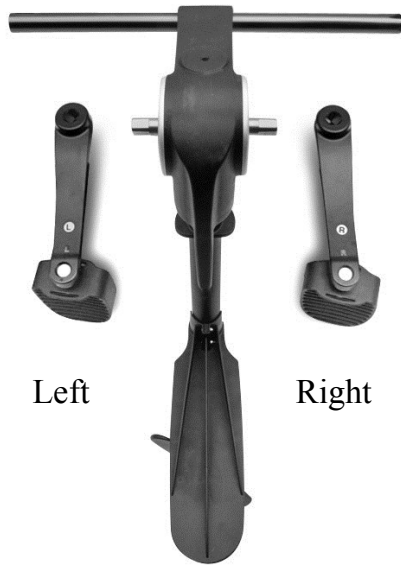
Center the thwart tube on the thwart clamp.

Secure the thwart tube in place by tightening the screws to **35 in/lbs (4Nm)** of torque, utilizing the included 4mm hex wrench. This is just enough pressure to keep the bar from spinning when rotated with a firm grip.

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



2. Install the Left and Right Crankarms



The Crankarms on the Propel, like a bike, are Left and Right specific. The correct orientation of the Propel is with the prop facing you and the thwart away from you, as you would pedal it in your kayak.

On the Crankarms and caps are color coded “L” and “R” stickers. There is also a “L” and “R” laser etched into the Crankarms for future reference.



Left side color coded Orange



Right side color coded Green

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



3. Install your Propel™ in 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 Propel™, push the slider latch backward to unlock the tube, repeat on opposite side.



4. Lock Propel™



Lower the Propel™ through the drive box. Lock the Propel™ 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 Propel™ will require routine inspection and maintenance. Native Watercraft 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 or Native Watercraft for assistance.

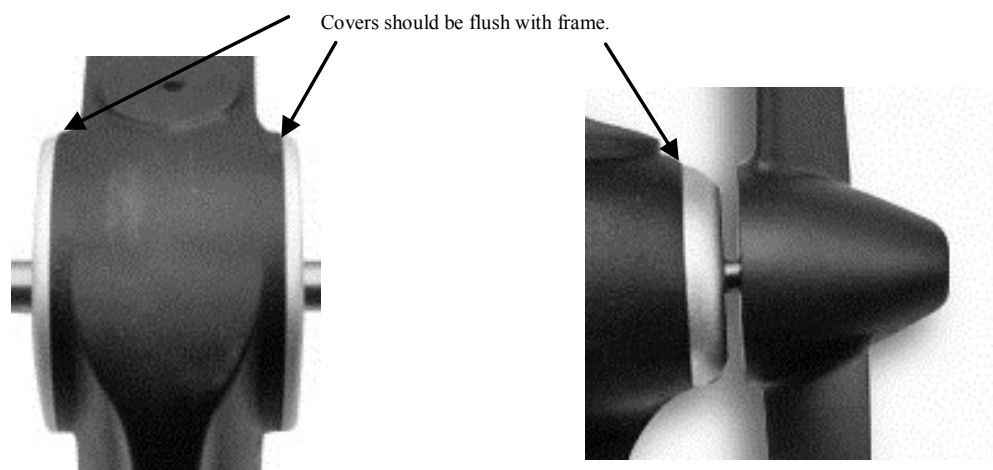
Cleaning of your Propel™

Spray off Propel™ with a water hose after each use, especially after use in saltwater. Do not use a high pressure car wash type sprayer.

Regular Maintenance Instructions

- **Check Covers**

The covers are threaded into the Propel™ 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.



Note: Operating the Propel™ with loose covers may result in damage to the gears that is not covered under warranty.

- **Lubricate Upper Gear Set**

Your Propel™ 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.

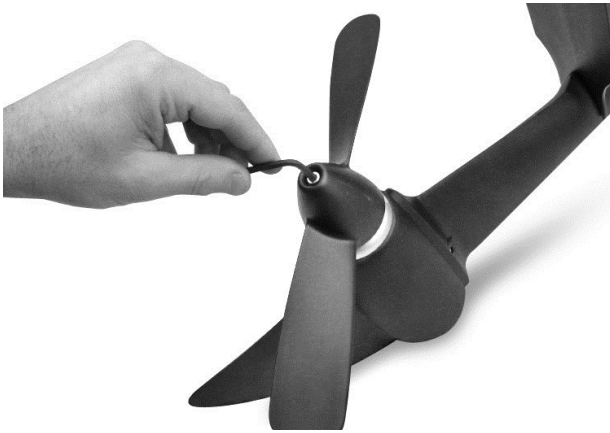


Grease the Lower Transmission Gear by inserting the extended nose grease gun and injecting 2 pumps onto the gear.

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 your Propel™ are not damage if the prop is hit during rotation, your propeller is fixed to the drive shaft with a shear pin. An extra shear pin is included with your new boat to ensure you are never without your Propel™. In the event that you need a new shear pin, please contact your local dealer to order replacement components.



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.

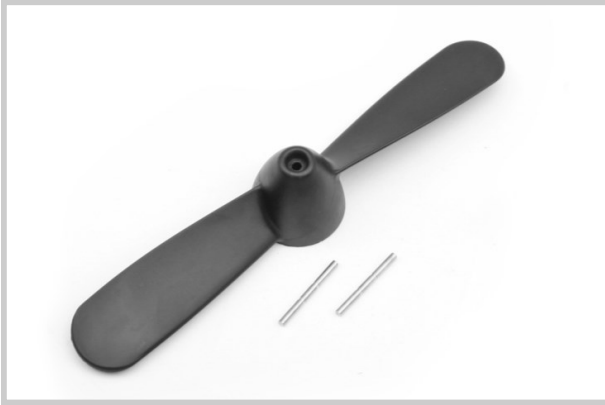


Replace the prop, making sure the pin sets into recesses the in prop.
Replace the bolt and tighten 1/2 turn past the bolt engagement with the propeller.

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..

Propel™ Kits

Kit # APRO002



Propel™ Easy Cruz Kit

- Propeller and Shear Pin Replacement Kit.
- Includes Propeller and 2 Shear Pins.

Kit # AKIT001



Propel™ Lubrication Kit

- For recommended maintenance of the Propel™ gear system.
- Includes 3.5 oz. of Teflon lubricant, pump with an extended nozzle, and 3/16" hex key to access fill port.

Two Year Limited Warranty

We at Native Paddlesports take great pride in the Propel™ line of boats we produce. Your Propel™ is manufactured to stringent standards, built for endurance, and sold exclusively by our outstanding dealer network. Native Watercraft guarantees and warrants your new Propel™ against defects in workmanship and materials for two years from its purchase date.

For warranty to be valid, the original purchaser must have registered their boat via the Native Watercraft website within two weeks of the purchase. Warranty is only valid to the original owner.

To submit a warranty claim:

The warranty claim must be submitted to Native Watercraft by the dealer from which the Propel™ was originally purchased. In submitting the claim, the dealer will need:

- Serial Number of the Boat
- Serial Number of Propel™
- Proof of purchase
- Physical inspection of the Propel™ or pictures of the area in question

This warranty does not cover:

- Normal wear to the Propel™
- Damage caused by abuse or misuse
- Damage caused by failure to perform routine maintenance
- Failure due to improper transportation
- Issues resulting from modifications to the boat or Propel™ that were made by anyone other than a Native Watercraft Authorized Dealer.



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