



OWNERS MANUAL

MAINTENANCE & WARRANTY

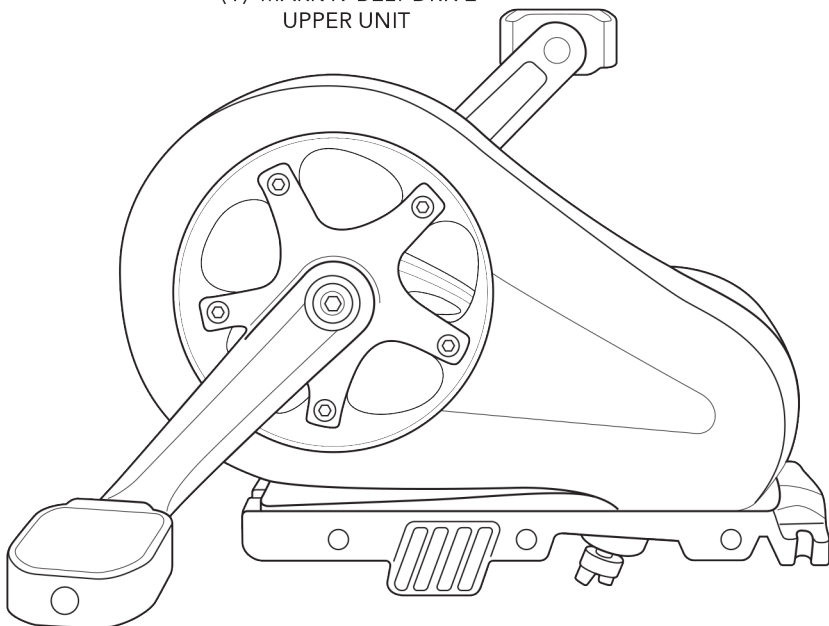
Your new Mark IV Drive is maintenance-free and ready to use immediately. The internal gearing on your drive is in a sealed oil bath, eliminating the need for gear maintenance, and the crank arms are factory-installed to the proper torque rating. The Flex Drive Mark IV gear ratio is a 1:12 system, and the propeller has been fine-tuned specifically for this system.

Jackson
kayak

Unpacking your FlexDrive Mark IV

Your package should contain:

(1) MARK IV BELT DRIVE
UPPER UNIT



NOTE: THESE ITEMS ARE CONTAINED IN A SEPARATE BAG

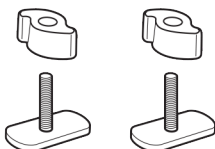
(1) M3 HEX KEY



(1) 2.5mm HEX KEY



(2) NYLON WING NUTS: 1/4-20



(1) GREEN
SPIDER COUPLING



(1) PROPELLER
SHEAR PIN

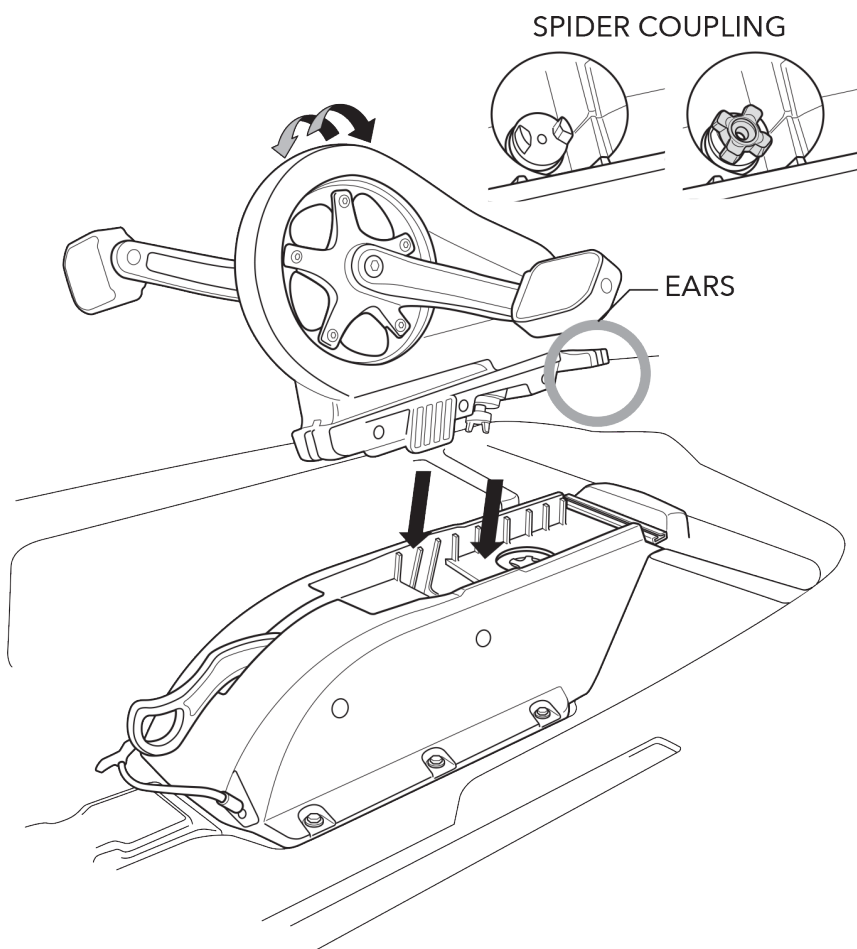


(2) T-BOLT: 1.5"

2. Connect Upper Drive Unit to Lower Drive Unit

- (A) Before lowering the Upper Drive Unit onto the Lower Drive Unit, turn the pedal cranks a few turns to note the rotating shaft; this will unite with the coupling in the lower unit to form the drive shaft's universal joint.
- (B) This shaft and coupling must align properly in order for the two drive units to seat correctly.
- (C) As you lower the Upper Drive Unit onto the trunk of the Lower Drive Unit, align the shaft coupling and gently seat the upper drive onto the trunk ensuring the "ears" of the upper drive align with gear track and seats fully with no gap.

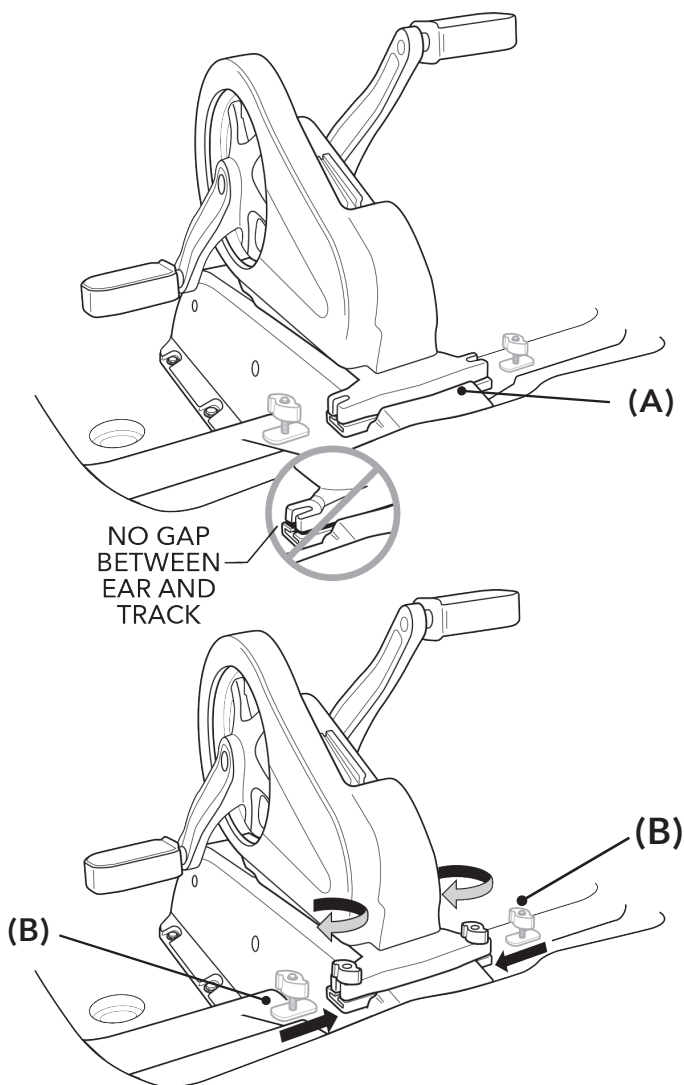
The "spider" coupling atop the flexible shaft is designed to wear over time. A complimentary replacement is included in your packaging.



3. Secure Upper Drive Unit to Lower Drive Unit

- (A) When properly seated, the Upper Drive Unit sits flush on the aluminum track. There should be no gap.
- (B) Tighten down the Upper Drive Unit using the included T-bolt and knobs.

IMPORTANT: Upper Drive Unit must be securely tightened at all times while on the water. In the event of capsizing, the Upper Drive Unit can become detached and lost if not securely fastened to the deck.



4. Raise and Lower the Prop

Before locking it down, use the lever to raise and lower the prop. Confirm the prop is fully deployed when the lever is in the up position. Turn the pedal cranks forward and backward to confirm FlexDrive Mark IV is functioning properly. Close and lock down the Cover.

Fully Retracted

- (A) Fully retract the drive in very shallow water where you will paddle or pole your boat, when landing, when cleaning the prop and during transport.

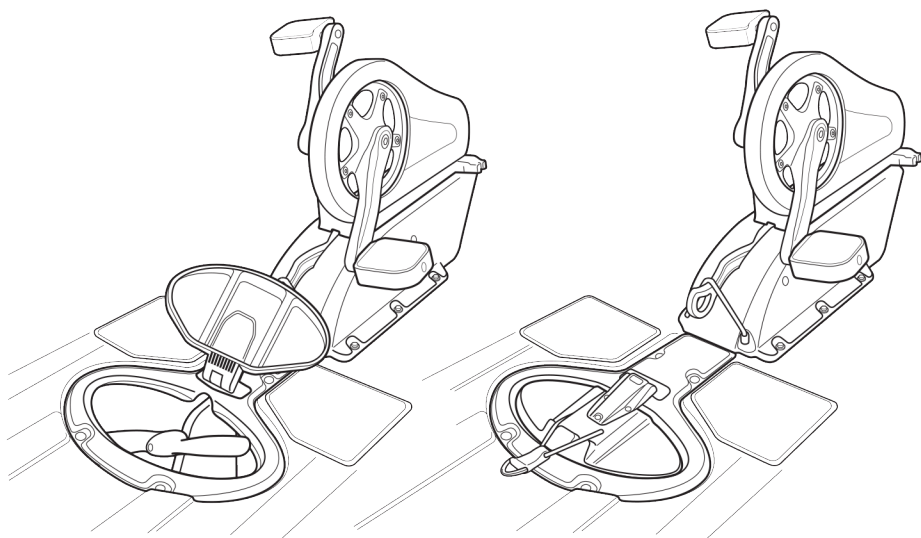
Mid-Position

- (B) Mid-position is for operation in shallow water (approximately 8" depending on load), to pass over submerged logs and rocks, and when it is desirable to run at lower speeds (when trolling, for instance).

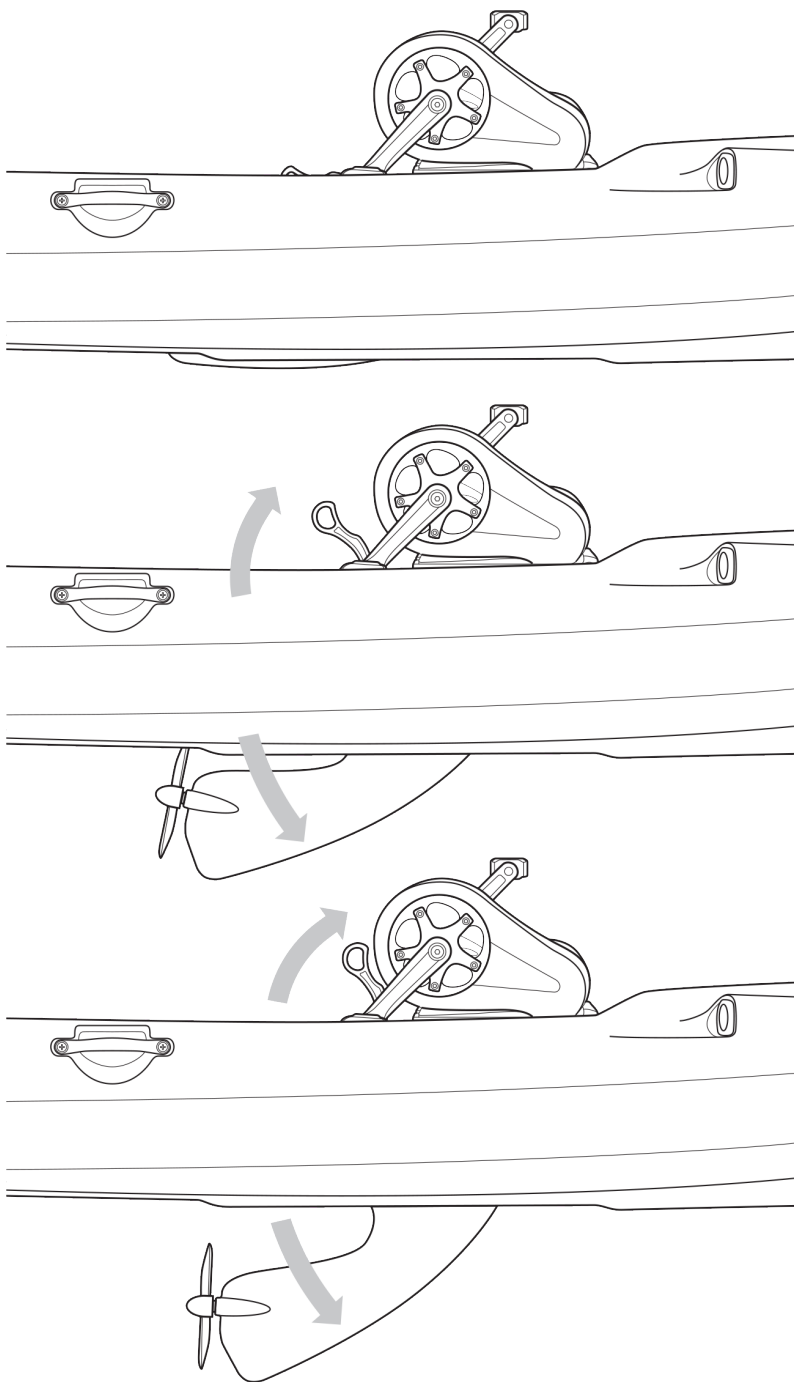
Fully Deployed

- (C) Full deployment of FlexDrive Mark IV is for normal operation in deeper water and for pedaling at full speeds and covering water fast.

Close the scupper cover to prevent backwash from the prop.



4. Raise and Lower the Prop (cont)



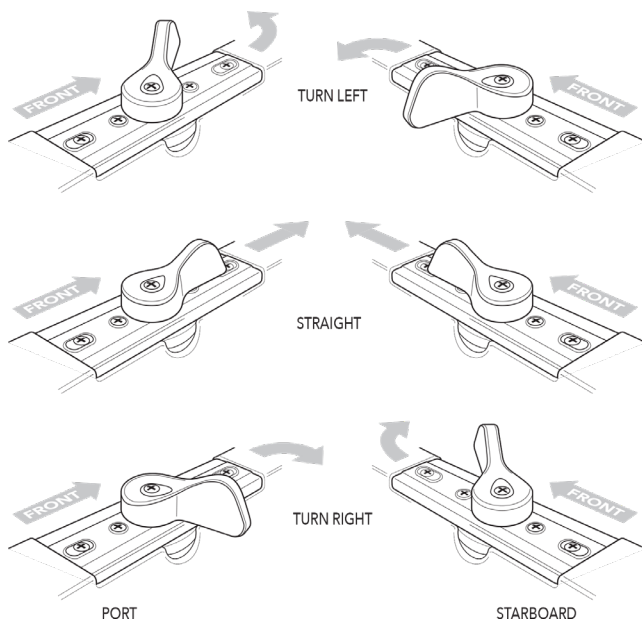
5. Knarr FD Rudder Operation

Your new steering is designed for both single and/or double-handed operation. To turn your boat, simply rotate the steering handle(s) counterclockwise (left) to turn left and clockwise (right) to turn right. The new steering system has been engineered to allow for a tighter turning radius and better maneuverability when targeting your favorite gamefish.

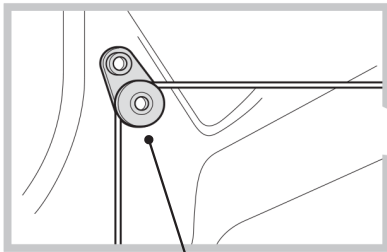
Your kayak will expand and contract slightly with temperature fluctuations. These temperature swings will cause the factory-set tension to loosen slightly in cooler weather and tighten in warmer weather. This can be remedied by adjusting tension at the rudder disc.

You'll notice bungee assemblies attached to your boat and steering cables when you look in your hatches. These assemblies are used to tension the steering lines eliminating or mitigating the amount of slack in the system. This will be most beneficial in cooler weather or climates. If you feel your steering handles are too tight, you may introduce slack in the system by removing the bungees. Simply remove the bungees by unclipping the j-hooks. Alternately you can loosen the cables at the 'rudder disc' at the stern. To adjust tension on the rudder disc please see rudder disc diagram below or refer to the link below for a full walkthrough and additional information on how to dial in and tension your new steering system.

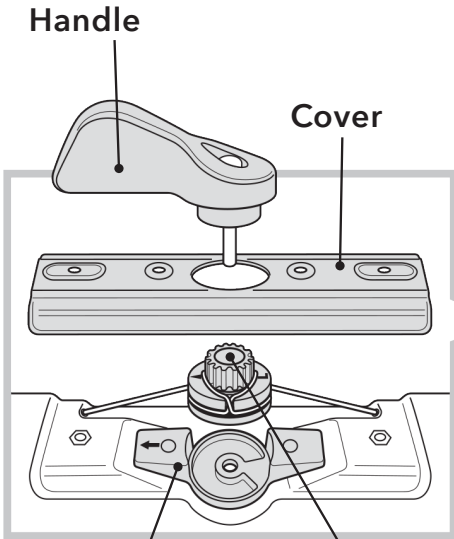
<https://jacksonadventures.com/flex-drive-mark-iv/>



Your steering cables are set internally by a series of pulleys which are then routed into the handle spool, terminating in the rudder disc under the stern hatch.



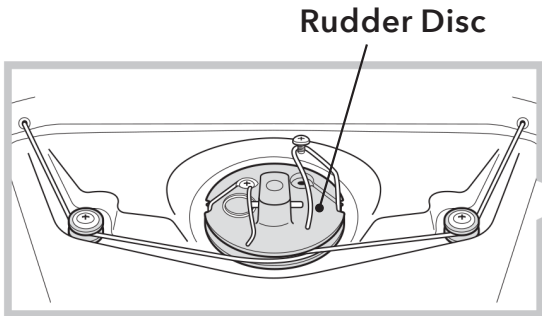
Pulley



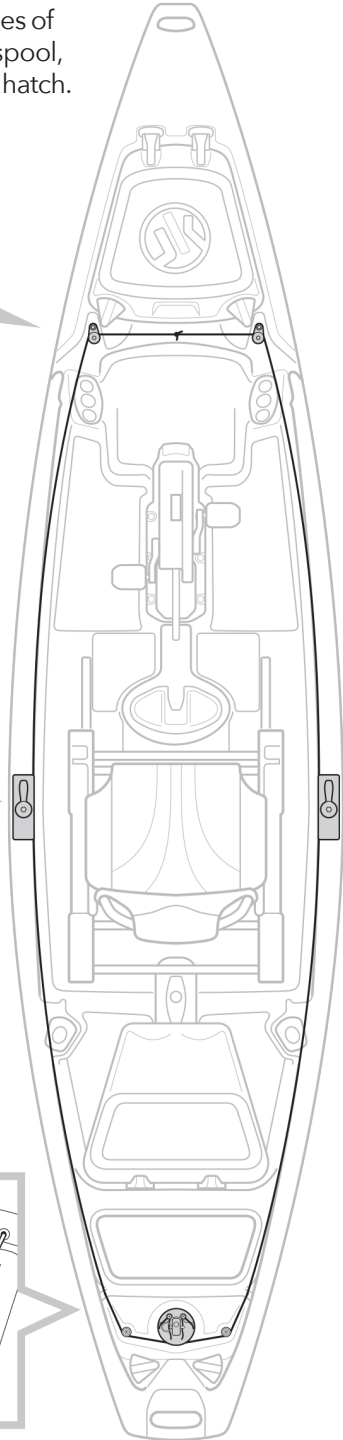
Handle

Cover

Handle Spool
Spool Housing



Rudder Disc



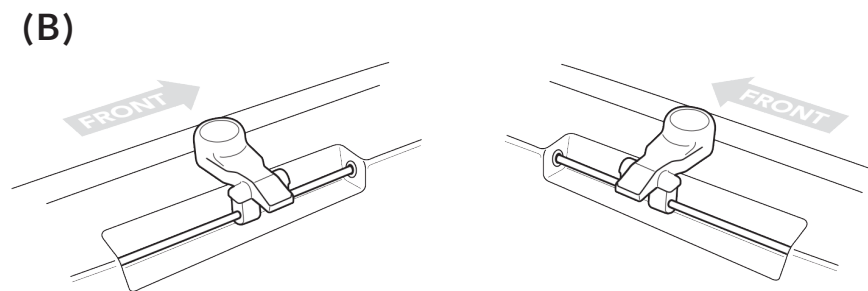
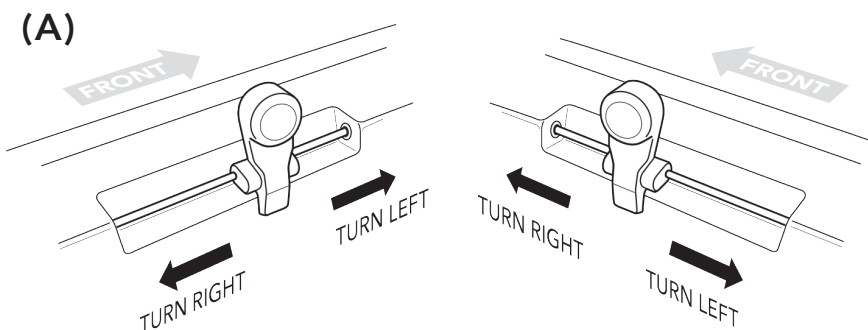
5. Coosa FD & Bite FD Rudder Operation

Jackson FD Rudder controls are located on left and right side gunwale to control the rudder with either hand. If controls feel stiff, lubricate the fiberglass rods with silicone spray (not included).

- (A) **From the left rudder control**, to turn your boat left, push the control forward (toward the bow). To turn right, pull the control back (toward the stern).

From the right rudder control, to turn your boat right, push the control forward (toward the bow). To turn left, pull the control back (toward the stern).

- (B) Rudder control knob flips down and lays flat when not in use.



PORT

STARBOARD

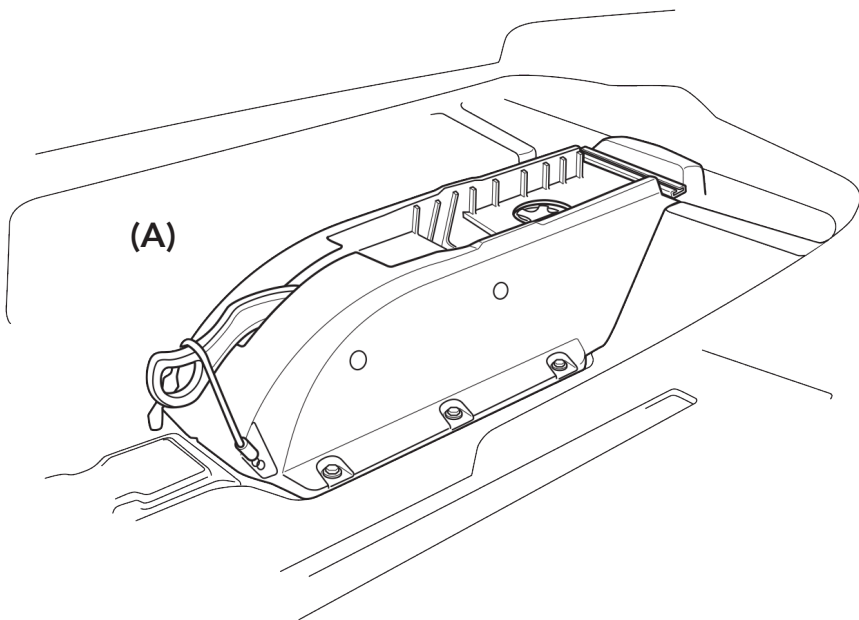
6. Transporting FlexDrive Mark IV

IMPORTANT:

Remove the Upper Drive Unit from the boat whenever your boat is in transport. Make sure the lower drive unit is not deployed, so that the propeller is flush with the bottom of the boat.

- (A) Wrap the bungee around the deployment lever to prevent the Lower Drive Unit from deploying and possibly damaging the unit or the car's roof (if the boat is car-topped).

When Drive Unit is fully retracted and secured, it is safe to transport your boat on racks upside down or right side up.



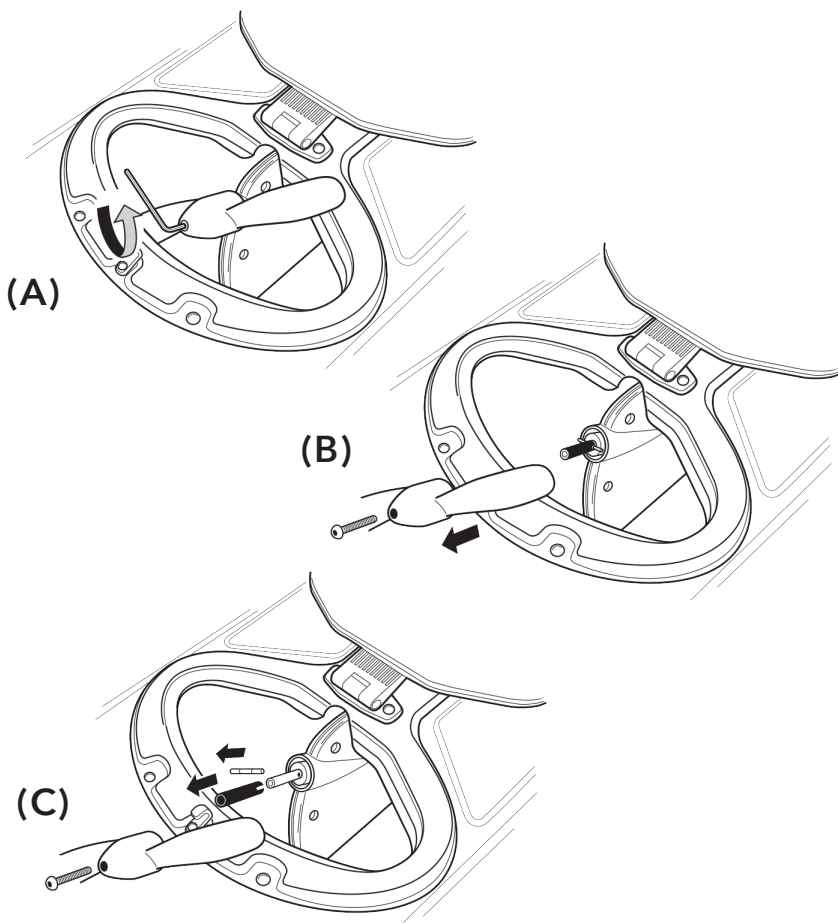
IMPORTANT! Use bungee to secure handle during transport.

7. Changing Prop Shear Pin

In the event of a severe bump, the prop pin should break to avoid damaging the bottom unit or the propeller. We have supplied a spare prop shear pin that is easily replaced to quickly make your drive system operational again.

IMPORTANT: Removing the prop should take place on land in the event you drop any of the components.

- (A) Use the 3mm hex key to loosen the prop screw
- (B) Remove the prop from the shaft
- (C) Remove the black plastic sleeve from the prop shaft. Remove the broken shear pin. Replace the shear pin and the black plastic sleeve. Replace the prop and tighten prop screw until snug.

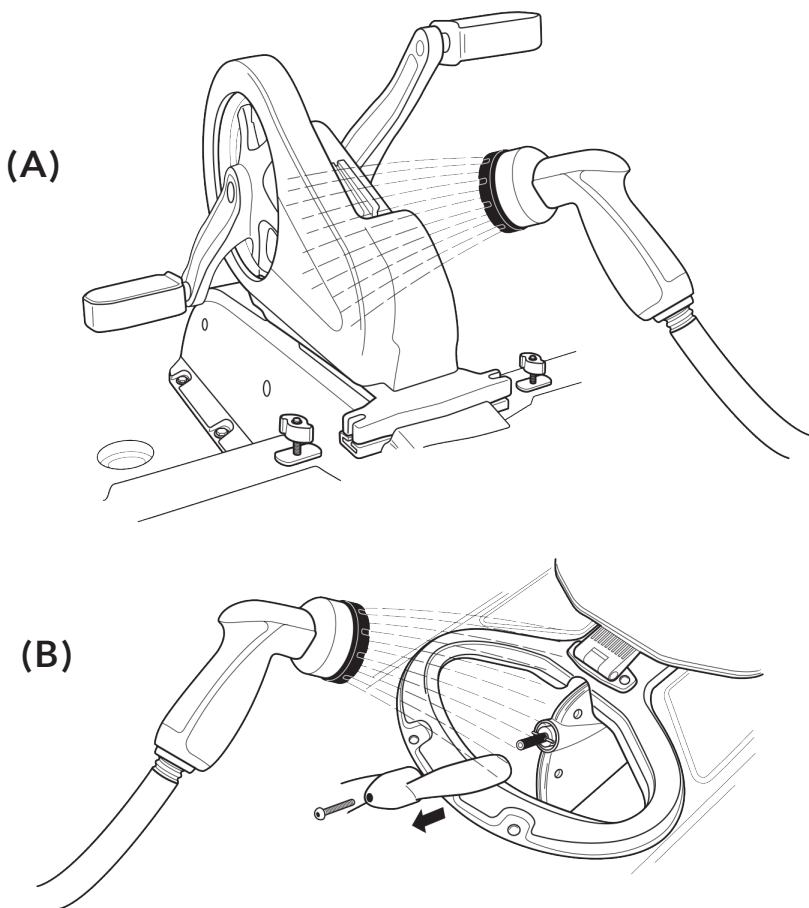


8. FlexDrive Mark IV Maintenance

The FlexDrive Mark IV is a sealed system only requiring occasional belt tensioning - suggested maintenance schedule below. All gearing resides in the Upper Drive Unit away from water contact.

Spray Off Your Flex Drive

- (A) It is a good idea to spray off your FlexDrive Mark IV with fresh water after each use (especially when used in salt water) to prevent build-up of dirt or salt.
- (B) Periodically remove the prop and inspect for any grit or sand build-up.



Do not disassemble the upper unit. If you are experiencing problems contact your dealer or Jackson Adventures customer service.

931-738-4800 warranty@jacksonkayak.com



TWO YEAR LIMITED WARRANTY

Jackson Kayak proudly manufactures the FlexDrive Mark IV to the highest standards of quality and dependability and will warranty your new FlexDrive Mark IV against defects in workmanship and materials for two years from purchase date.

Original purchaser must register their boat by way of the Jackson Kayak website within two weeks of purchase, here: <https://jacksonadventures.com/register-your-product/>. This warranty covers original purchaser only and is not transferable.

For warranty claims, contact the dealer who sold the boat. The dealer must submit your claim to Jackson Kayak and it must include:

Serial number of boat

Serial number of FlexDrive Mark IV

Proof of purchase

Photographic evidence of damage

Normal wear, damage caused by abuse or neglect, failure to perform maintenance, improper transport or any modifications to the original product invalidate this warranty.

www.JacksonKayak.com

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