WILDERNESS SYSTEMS®

Helix PD™ Owner's Manual

HELIX PD
PEDAL DRIVE™

WILDERNESS SYSTEMS®

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1. INTRODUCTION

Congratulations on your purchase of the Wilderness Systems Helix PD Pedal Drive. For your safety and to ensure your highest level of enjoyment from the Helix PD it is imperative that you read and comply with this Owner's Manual prior to use.

The Helix PD is intended for use in select Wilderness Systems Helix PD compatible kayaks.

The Helix PD is state-of-the-art technology. It has been designed and manufactured with the utmost care and with a special focus on performance, user-friendliness, and safety.

2. IMPORTANT SAFETY AND OPERATING INFORMATION

The Helix PD is designed to operate safely and reliably as long as it is used according to the Owner's Manual.
Please read this manual carefully before you start to use the Helix PD. Ignoring these instructions can result in damage or personal injury. Confluence Outdoor accepts no liability for damage caused by actions that contradict this Owner's Manual.

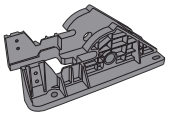
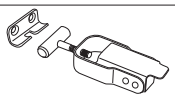
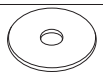
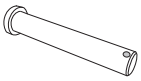
- **STAY CLEAR/ USE CAUTION WHEN RAISING THE SPRING LOADED MAST OF THE HELIX PD**
- Remove system from kayak when transporting kayak
- Keep hands and limbs clear of scupper area when deploying or raising the Helix PD
- Keep gear and other object clear of scupper area when deploying or raising the Helix PD
- Use stowage straps on the Helix PD when in rough water or during surf launches
- Stowage straps should not be used for transporting or securing your kayak
- Do not operate with mast in the zero draft (raised vertical) position for extended periods
- Rinse the system with fresh water after use in brackish or salt water
- Be aware of your environment when operating the Helix PD
- Avoid collisions and impacts to the system
- Raise unit when launching and coming ashore
- Ensure the Helix PD is fully secured and locked into mounting brackets before operating
- Always take a paddle and PFD with you on board
- Never exceed a distance pedaling from which you are not willing to paddle back
- Do not exceed the capacity limits
- Do not operate the propeller if someone is in the water near the boat
- Inspect the unit often for damage. Do not use if damaged
- Follow the recommended maintenance schedules
- After use, always take the Helix PD out of the water
- Do not operate the Helix PD deployment mechanism when not installed in a kayak
- **DO NOT DISASSEMBLE THE HELIX PD UNLESS GIVEN SPECIFIC DIRECTION TO DO SO BY A WILDERNESS SYSTEMS CUSTOMER SERVICE REPRESENTATIVE**
- If a different propulsion method is used (towing the boat, sailing, use of motor), the Helix PD must be removed or in the stowed position.
- Follow local laws for the use of permissible mechanized means or registration of your kayak

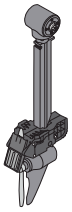
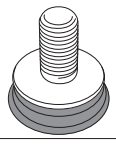
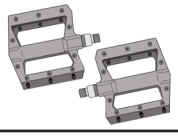
In addition to these selected warnings, please comply with the complete operating manual.

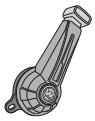
3. EQUIPMENT

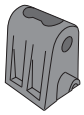
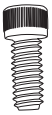
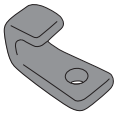
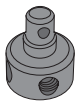
3.1 Items Supplied

PARTS OVERVIEW

MOUNTING BRACKET	IMAGES	DESCRIPTION	INSTRUCTION CODE	PART NUMBER	QUANTITY
INDEPENDENT		Mounting Bracket	A	18160049	1
KIT A		(A1) Latch Hanger (A2) Latch Base	A1 & A2	30700091	2
		¼-20 X 1" Screw	A3	1FAS0011	6
		¼-20 x 1" x 1⁄16"	A4	1FAS0125	6
		Cotter Pin with Tether	A5	30700087	1
		Quick Release Pin	A6	30700086	1
		4-40 X 3/4" Screw	A7	3000067	4
		4-40 Nylcok Nut	A8	30100021	4
		6-32 X 1/2" Screw	A9	30000068	4

HELIX™ CORE UNIT	IMAGES	DESCRIPTION	INSTRUCTION CODE	PART NUMBER	QUANTITY
INDEPENDENT		Helix PD™ Pedal Drive	E	18501090	1
		Crank Arm (Left & Right)	F	18160026 18160027	1 Set (Left & Right)
		Crank Arm Bolt	G	30200010	2
		Pedal (Left & Right)	H	18160043	1 Set (Left & Right)

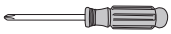
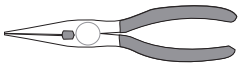
STEERING CONTROL	IMAGES	DESCRIPTION	INSTRUCTION CODE	PART NUMBER	QUANTITY
INDEPENDENT		Steering Control	J	18501089	1

RUDDER SYSTEM	IMAGES	DESCRIPTION	INSTRUCTION CODE	PART NUMBER	QUANTITY
INDEPENDENT		Rudder	B	17060035	1
KIT B		Rudder Mounting Bracket	B1	14820041	1
		¼-20 x ⅝” Socket Head Screw	B2	30000015	2
		¼” Lock Washer	B3	3730-0103	2
		Round Deck Fitting	B4	3455-0099	4
		10-32 x ¾” Screw	B5	3585-0223	4
		Rudder Deployment Control Line Assembly	B6	18500163	1
		Rudder Hold-Down Strap	B7	15440072	1
		J- Hook	B8	2FAS041	1
		Cord Lock	B9	30700078	2
		¼ x ⅝” Neoprene Washer	B10	59602000	2
		⅝” Split Ring	B11	2RUD01	2
		10-32 x 5⁄16” Set Screw	B12	30000054	2

BAFFLES	IMAGES	DESCRIPTION	INSTRUCTION CODE	PART NUMBER	QUANTITY
INDEPENDENT		Fiber Brush Baffle	D	18501091	2

STOWAGE STRAP	IMAGES	DESCRIPTION	INSTRUCTION CODE	PART NUMBER	QUANTITY
KIT C		Stowage Strap with Male Buckle Stowage Strap with Female Buckle	C	15440075	1
		Deck Loop	C1	14830022	2
		10-32 x ¾” Screw	C2	3585-0223	4
		10 x ⅝” Neoprene Washers	C3	1FAS090	4
		10-32 Cap Nut	C4	2RUD004	4

3.2 Tools Required

TOOLS REQUIRED *(Not Supplied)*	TOOL DESCRIPTION
	Phillips Screw Driver
	8mm Allen Wrench
	3/16” Allen Wrench
	3/32” Allen Wrench
	15mm Wrench
	3/8” Wrench
	Cordless Drill
	7/32” Drill Bit (#21)
	Needle Nose Pliers

Note: All direction references for left or right in these instructions are given from the perspective of being seated in the boat and looking forward towards the bow of the kayak.

4. ASSEMBLY OF THE HELIX PD

4.1 Items Supplied

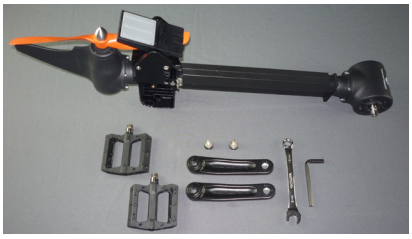
- Helix PD (E)
- (2) Crank Arm Bolts (G)
- Left & Right Crank Arm (F)
- Left & Right Pedal (H)
- (2) Latch Hanger (A1)

4.2 Tools Required (not supplied)

- 8 mm Allen Wrench
- 15 mm Open End Wrench
- #1 Phillips Head Screw Driver

4.3 Installing the Crank Arms to the Helix PD

Place the Helix PD (E) on a flat work surface with the propeller side facing upwards. Locate the right crank arm (F). It is marked with an “R” on the back side of the crank arm, below the hole for the pedal (H) spindle. Place the right crank arm (F) over the right crank arm shaft of the Helix PD (E) head unit. The crank arm (F) should be parallel with the propeller and the shaft of the Helix PD (E) and extending forward past the Helix PD head unit. Secure with a crank arm bolt (G). Use an 8 mm Allen wrench tighten the crank arm bolt (G) and crank arm (F) to the Helix PD (E).

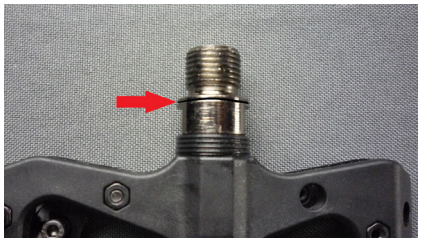


Repeat process with the left crank arm (F). The crank arm (F) should be parallel with the propeller and the shaft of the Helix PD (E) and extending back towards the Helix PD propeller.

Note: It is imperative the propeller and the crank arms are aligned properly for the drive unit to be removed from the kayak using the prop alignment marks on the drive unit head.

4.4 Installing the Pedals to the Crank Arms

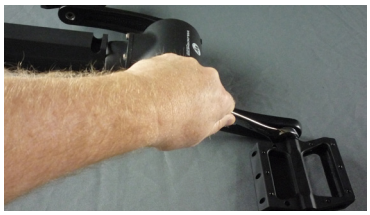
Locate the left pedal (H). It is identified by a score line mark on the threaded pedal (H) mounting spindle (Score line is just below the threading).



Thread the pedal (H) mounting spindle into the left crank arm (F). While holding the opposite crank arm in place to generate resistance, tighten the pedal (H) to the crank arm (F) with a 15 mm open end or adjustable wrench.

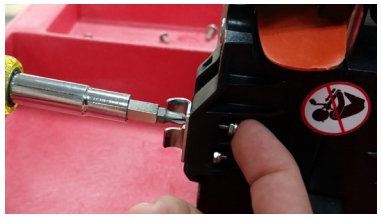
Note: The left pedal uses reverse threading so it requires a counter-clockwise tightening.

Repeat process with the right pedal (H) with clockwise tightening.



4.5 Installing the Latch Hanger (from Kit A)

Install the latch hanger (A1) with the two 4-40 x ¾" screws (A7) and (2) 4-40 nylock nuts (A8). Hold nut with finger to start, then use needle nose pliers to tighten.



Repeat the process on the opposite side of the upper housing blocks of the Helix PD (E).

The Helix PD (E) is now assembled.

5. INSTALLING MOUNTING BRACKET TO THE KAYAK

5.1 Items Supplied
- Mounting Bracket (A)

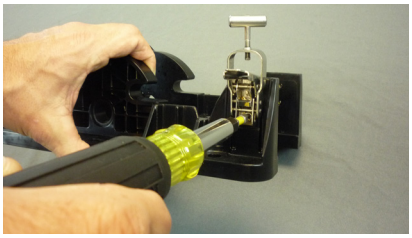
Kit A
- (2) Latch Base (A2)
- (6) ¼-20 X 1" Screw (A3)
- (6) ¼ x 1 x 1/16" Washers (A4)
- Cotter Pin with Tether (A5)
- Quick Release Pin (A6)
- (4) 4-40 X 3/4" Screw (A7)
- (4) 4-40 Nylock (A8)

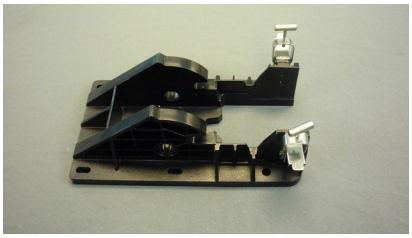
5.2 Tools Required (not supplied)

- #1 Phillips Head Screw Driver

5.3 Installing the Latch Base

Install the latch base (A2) with the two 6-32 x ½" screws (A9) from bag (A).

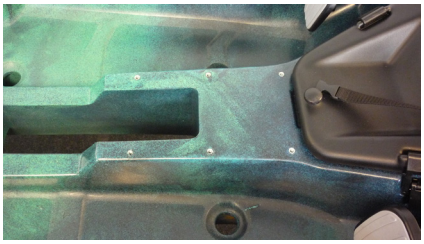


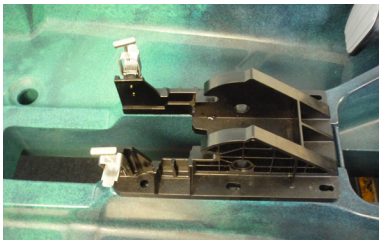


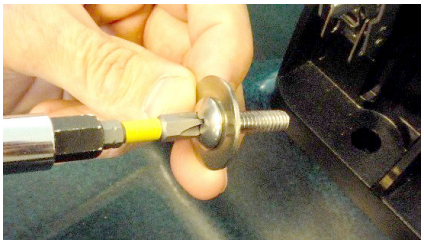
Repeat the process on the opposite side of the mounting bracket (A).

5.4 Installing the Mounting Bracket to the Kayak

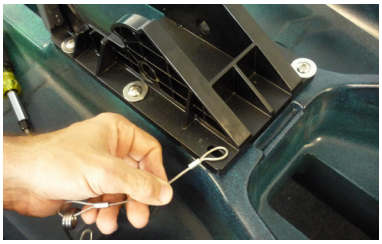
Align the mounting bracket (A) with the molded-in inserts located on top of the Helix PD™ kayaks console area. The open end of the u-shaped mounting bracket (A) should face the stern of the boat. Place the ¼ x 1 x 1/16" washers (A4) on the 1/4-20 x 1" screws (A3) and secure the mounting bracket (A) to the inserts with the screws (A3). Before installing the right side, bow-most 1/4-20 x 1" screw (A3) place the looped end of the tether and cotter pin (A5) between the mounting bracket (A) and the ¼ x 1 x 1/16" washer (A4) and then install screw (A3) to secure the cotter pin (A5) in place.

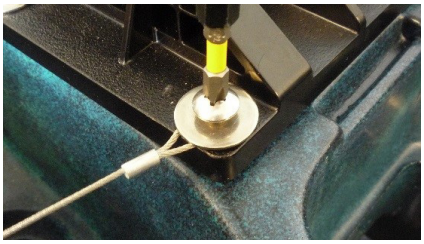




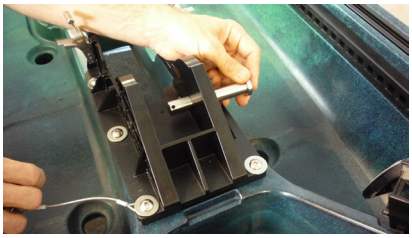


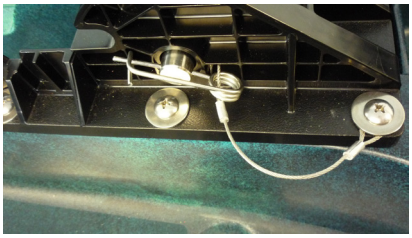
(A3). Before installing the right side, bow-most ¼-20 x 1" screw (A3) place the looped end of the tether and cotter pin (A5) between the mounting bracket (A) and the ¼ x 1 x 1/16" washer (A4) and then install screw (A3) to secure the cotter pin (A5) in place.





Insert the quick release pin (A6) into the receiver from the left side and use the cotter pin (A5) to tether the quick release pin (A6) into place until you are ready to install the Helix PD (E) to the kayak. (See section 9)



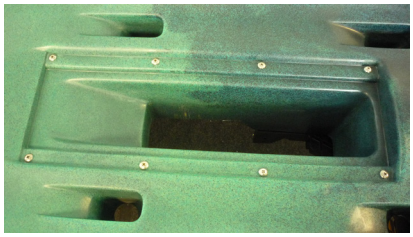


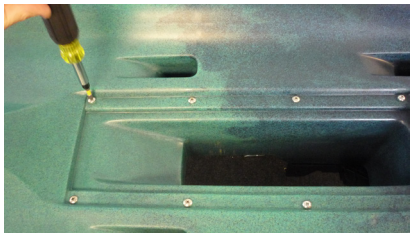
6. INSTALLING THE NOISE REDUCTION BAFFLE SYSTEM

6.1 Items Supplied
- (2) Fiber Brush Baffles (D)
- (8) 10-32x ⅜” Screws (included with Helix PD kayak)

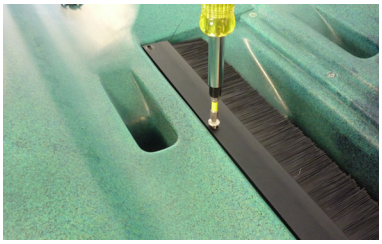
6.2 Tools Required (not supplied)
- #2 Phillips Head Screw Driver

6.3 Installing the Noise Reduction Baffle System
Turn over your Helix PD kayak so the hull bottom is exposed. Locate the 8 insert locations surrounding the Helix PD scupper area of the kayak. Remove the filler screws included with the Helix PD kayak from the inserts.





Place the baffles (D) into the stepped recess of the scupper. The face of baffle plate (D) that has the step on it aligns with the detent in the scupper molded into the hull of the kayak.
Use the filler screws that were included with your Helix PD kayak to secure the baffles (D) to the inserts so that the fiber brushes create a gate covering the scupper recess.



Note: The 10-32 x ⅜” Philips truss head screws required for this step were included and installed with your Helix PD kayak.

7. INSTALLING THE STOWAGE STRAPS

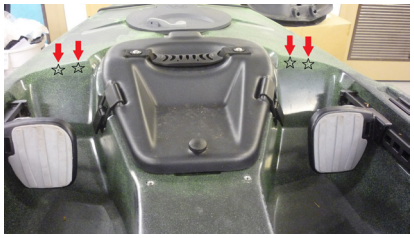
7.1 Items Supplied

Kit C
- Stowage Strap with Male Buckle (C)
- Stowage Strap with Female Buckle (C)
- (2) Deck Loops (C1)
- (4) 10-32 x ¾” Screws (C2)
- (4) 10 x ⅝” Neoprene Washers (C3)
- (4) 10-32 Cap Nut (C4)

7.2 Tools Required (not supplied)
- #2 Phillips Head Screw Driver
- ⅜” Wrench
- 7⁄32” Drill Bit
- Drill

7.3 Installing the Stowage Straps

Locate the four drill locations marked with star symbols on vertical wall surface to the left and right side of the Flex Pod OS Pod Scupper. Drill the center of the star drill locations with a 7⁄32” drill bit.



Thread one of the deck loops (C1) through the loop at the end of the stowage strap (C) with female buckle. Attach the deck loop (C1) to the left side of the boat with two 10-32 x ¾” screws (C2). Utilize access through the bow hatch to secure the deck loop (C1) on the inside with a neoprene coated 10 x ⅝” washers (C3) and 10-32 cap nuts (C4). Neoprene side of the 10 x ⅝” washer (C3) should be pressed against the inside hull of boat. Tighten the hardware assembly with the ⅜” wrench and screw driver.

Repeat the process with the stowage strap (C) with male buckle on the right side of boat.

Tip: You may have to work the neoprene 10 x ⅝” washer (C3) up onto the 10-32 x ¾” screw (C2) with your hand to allow room for the cap nut (C4).

Tip: The neoprene 10 x ⅝” washer (C3) is intended to fit securely on the 10-32 x ¾” screw (C2). A screw driver must be used to completely drive and secure the hardware assembly against the hull of boat. This is critical to ensure a watertight seal.

8. INSTALLING THE RUDDER SYSTEM

8.1 Items Supplied

- Rudder (B)
- Kit B

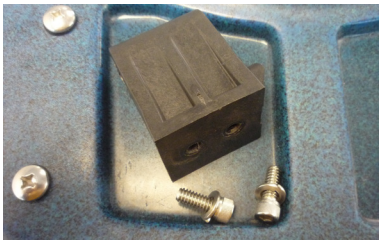
8.2 Tools Required (not supplied)

- 3⁄16” Allen Wrench
- #2 Phillips Head Screw Driver
- Scissors

8.3 Installing the Rudder Mounting Bracket

Items needed:
- Rudder Mounting Bracket (B1)
- (2) ¼-20 x ⅝” Socket Head Screws (B2)
- (2) ¼” Lock Washer (B3)

At the stern transom of the kayak locate, remove and discard the two filler screws from the transom inserts. Place a ¼” lock washer (B3) on each ¼-20 x ⅝” socket screw (B2). Align the rudder mounting bracket (B1) screw receivers with the inserts. Position the rudder mounting bracket (B1) so the raised knob is on top. Using the 3/16” Allen wrench secure rudder mounting bracket (B1) to transom with ¼-20 x ⅝” socket screws (B2) and ¼” lock washers (B3).

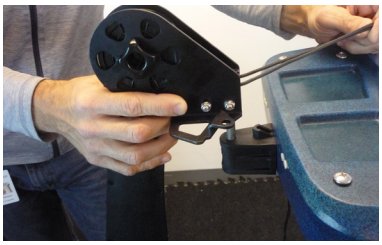


Tip: To help install the bracket (B1), start one screw (B2) through the bracket and into an insert to hold bracket (B1) in place while the second screw (B2) is installed, then tighten both screws.

8.4 Installing the Rudder to Rudder Mounting Bracket

Items needed:
Rudder with pre-attached lift line (B)

Remove rudder (B) from packaging and unwrap the lift lines from the rudder. Remove and save the ⅝” split ring from the rudder post. Insert rudder post of the rudder (B) in to the rudder post receiver on rudder mounting bracket (B1) at stern of kayak. Re-install ⅝” split ring to rudder post to secure rudder to bracket.



Note: The ⅝” split ring comes pre-attached to the rudder.

8.5 Installing the Rudder Lift Line Round Deck Fittings

Items needed:
- (3) Round Deck Fittings (B4)
- (3) 10-32 x ¾” Screw (B5)

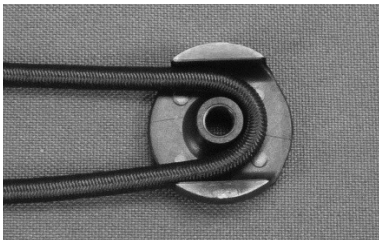
Locate the three round deck fitting recess that are molded into the right side of the kayak between the stern transom and the stern of the seating well. Remove and discard the filler screw from the insert of each recess location. Secure the three round deck fittings (B4) to each recess insert with a 10-32 x ¾” screw (B5). Orientation of the round deck fittings (B4) should be so that the openings on each side the round deck fittings (B4) allow the lift lines to pass horizontally through from left to right in a straight line.

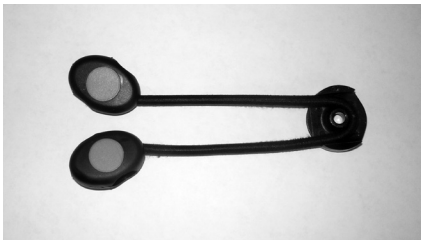
8.6 Installing the Rudder Deployment Control Line Assembly

Items needed:

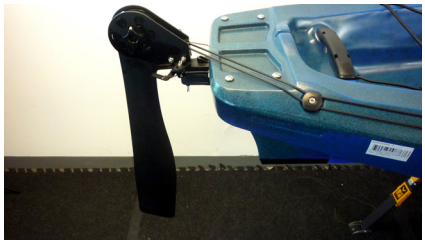
- Rudder Deployment Control Line Assembly (B6)
- Round Deck Fitting (B4)
- 10-32 x ¾" Screw (B5) Screw
- Tape Measure

Locate the final round lift line deck fitting recess molded into the right side of the Kayak behind the paddle park at the seating well. Remove and discard the filler screw from the insert. Place the rudder deployment control line bungee (B6) into the slots on the back of the round deck fitting (B4) and secure to the insert in the recess with 10-32 x ¾" screw (B5). See illustration for proper configuration.

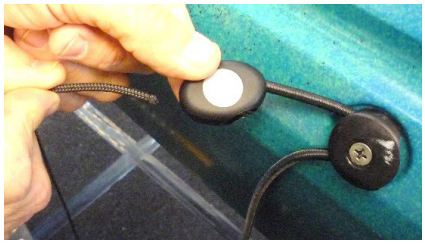
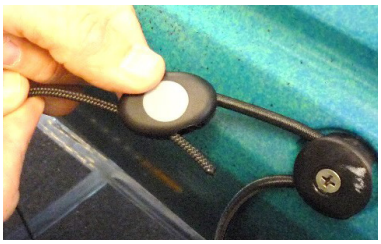
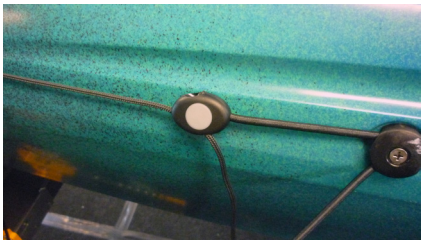


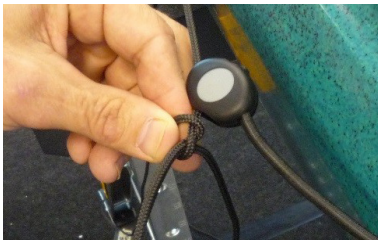


Lower the rudder (B) to the vertical deployed position by hand. Ensure the rudder is in a straight steer position. Thread the lift lines from the rudder forward through the three round deck fitting (B4) that you have secured to the kayak. The lift line from the left side of the rudder (B) routes through the top of the round deck fittings (B4) and the lift line from the right side of the rudder (B) routes through the bottom of the round deck fittings (B4).

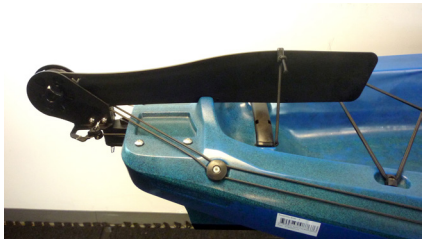
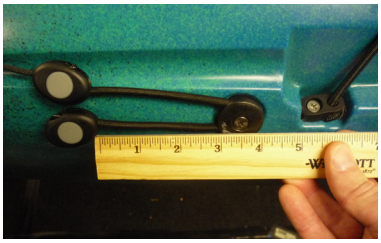


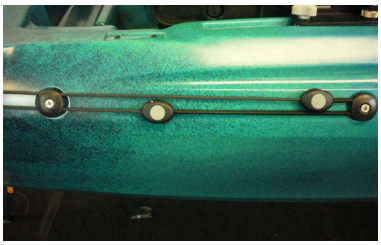
Insert the top rudder lift line through the hole in the top fitting of the rudder deployment control line (B6) and pull until all slack in rope is taught. Position the top control fitting of the rudder deployment control line (B6) so that it is 3 ½" behind the final round deck fitting (B4) and tie an overhand knot. Pull knot into the fitting.



Raise the rudder (B) so the blade is resting in the rudder rest slot on the stern deck of the boat. Insert the bottom rudder lift line through the hole in the bottom fitting of the rudder deployment control line (B6) and pull until all slack in lift line rope is taught. Position the bottom control fitting of the rudder deployment control line (B6) so that it is 3 ½" behind the final round deck fitting (B4) and tie an overhand knot. Pull knot into the fitting.



Test the rudder deployment control line assembly (B6). Pull the stern most control fitting of the rudder deployment control line (B6) forward to deploy the rudder (B) and then pull the opposite control fitting of the rudder deployment control line (B6) to stow the rudder (B).

Once you are satisfied with the operation of your rudder (B), trim the excess lift line from the rudder deployment control line (B6) assembly and burn the ends to prevent fraying.

Tip: Online video instruction of this assembly and many other assemblies are available at wildernesssystems.com

8.7 Installing the Rudder Hold-Down Strap

Items needed:
- Rudder Hold-Down Strap (B7)
- J-Hook (B8)

Attach the J-hook (B8) to the bungee on the Rudder hold-down strap (B7) and tie an overhand knot to secure.

Remove the screws from stern handle. Remove the handle and then reattach handle with the rudder hold-down strap (B7) positioned on the right screw between the handle and the deck of the boat.

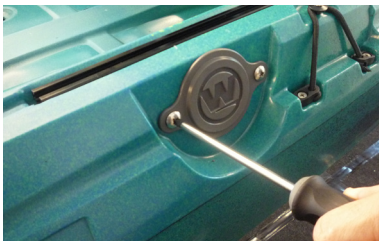
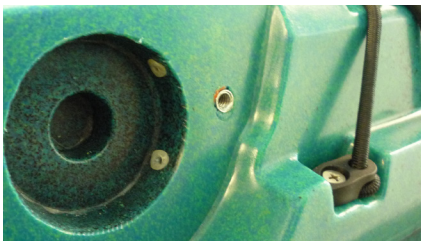
9. INSTALLING THE STEERING CONTROL

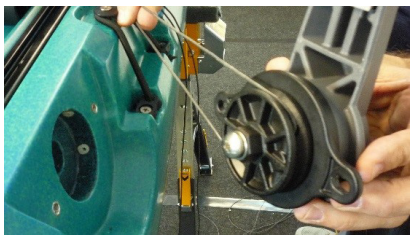
9.1 Items Supplied
- Steering Control (J)
- Kit B
- (2) Cord Lock (B9)
- (2) ¼ x ⅝” Neoprene Washer (B10)
- (2) ⅝” Split Rings (B11)
- (2) 10-32 x 5⁄16” Set Screw (B12)

9.2 Tools Required (not supplied)
- Phillips Head Screw Driver
- 3⁄32” Allen Wrench

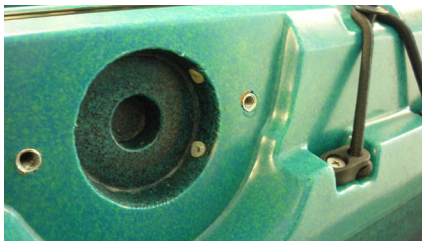
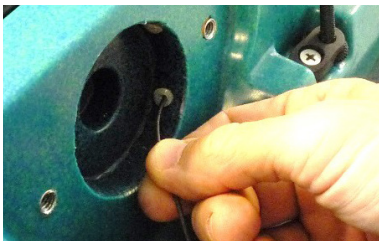
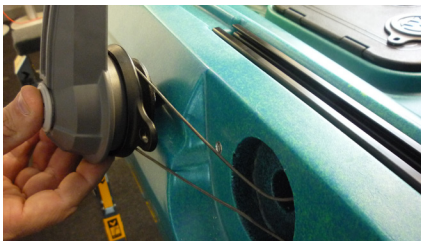
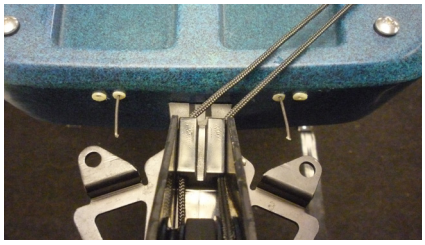
9.3 Installing the Steering Control

Remove the screws from steering control cover plate located on the left side of the boat. Retain the screws. Save the steering control cover plate for possible future use. Unwrap the steering control cords from the steering control (J). Align the handle of the steering control (J) to the vertical position so that is centered vertically between the mounting holes on the wings at the base of the steering control (J) handle. The cord exit holes on the back of the steering control (J) assembly should be on the left side. Pull the top cord to right and drape it into the top groove of the steering control (J) pulley. Pull the bottom cord down and to the right and align on the underside of the steering control (J) pulley.

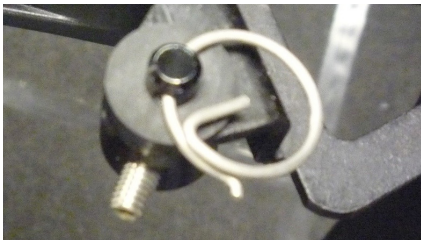


Locate the preinstalled tubing entrances on the right side of the inside lip of the steering control mounting recess location of the kayak. Thread the end of the top cord from the steering control (J) into the top tubing entrance and feed until the cord exits the left tubing exit at the stern transom of the boat where the rudder (B) is attached. Thread the end of the bottom cord of the steering control (J) into the bottom tubing entrance and feed until the cord exits the right tubing exit at the stern transom of the boat where the rudder (B) is attached.

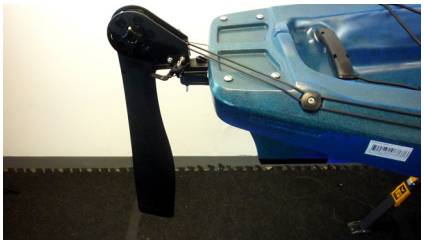
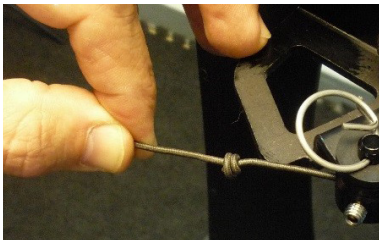





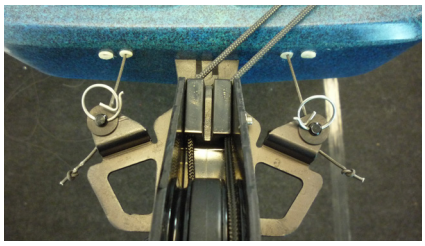
Carefully insert the steering control (J) into the mounting recess of the kayak. Ensure the top cord stays to the top of the pulley and the bottom cord stays to the bottom of the pulley. Make sure the cords do not become pinched between the mounting recess of the kayak and the steering control (J) base when inserting into the recess. Install and secure the steering control (J) with the two screw removed from the steering control cover plate.

Make sure the steering control (J) handle is in the upright vertical position. Move to the stern transom of the kayak. Attach a cord lock (B9) through the bottom of each of the rudder (B) wings and re-secure at the top with a ¼ x ⅝" neoprene washer (B10) and ⅝" split rings (B11).



Make sure the rudder (B) is in the down deployed and straight steer position. Use a 3⁄32" Allen wrench to start the 10-32 x 5⁄16" set screws (B12) in the threaded hole on each of the cord locks (B9). Pull the cords taught, making sure not to affect the position of the steering control (J) handle, and thread cord into the corresponding cord locks (B9) of the rudder (B) wings. Keep the cords taught and tighten the 10-32 x 5⁄16" set screw (B12) to capture the cords. Tie a double overhand knot at the end of cord and tighten until ½" from cord lock (B9).



Test the steering control (J) assembly. Push the steering control (J) handle forward to control the rudder to the left and then pull the handle to the rear to control the rudder to the right.

Once you are satisfied with the operation of your rudder (B), trim the excess cord leaving ½" of a tail from the knot.

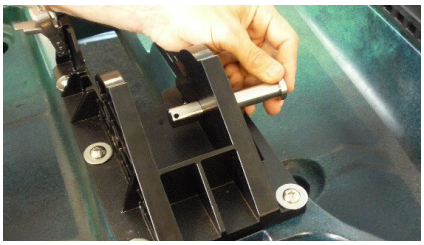
Note: The steering control cover plate and associated screws were included with the purchase of the Helix PD kayak.

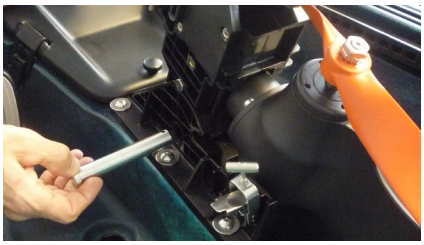
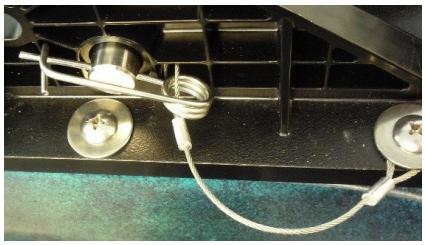
Note: A kit and instructions to reconfigure the steering control to the right side of your kayak is available at wildernesssystems.com

Tip: Online Video Instruction of this assembly and many other assemblies are available at WildernessSystems.com

10. INSTALLING THE HELIX PD TO YOUR KAYAK FOR USE

Remove the quick release pin (A6) from the mounting bracket (A). Holding the Helix PD (E) at an angle, lower the upper housing block portion of the Helix PD (E) into the mounting bracket (A) and align the mounting bracket (A) receiver hole with upper housing receiver hole of the Helix PD (E) and insert the quick release pin (A6) until it is fully engaged through the receiver holes and the cotter pin hole is exposed. Secure the quick release pin (A6) with the cotter pin (A5). Pivot the Helix PD forward into the stowed position until ready for use in the water.



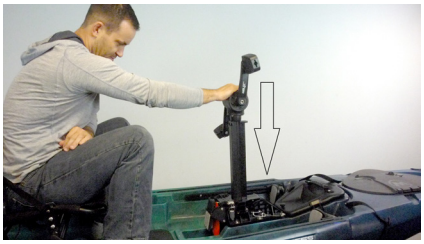



Tip: Never transport your kayak with the Helix PD unit attached to it.

11. OPERATING THE HELIX PD

11.1 Launching and Landing

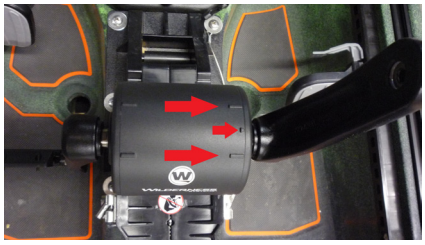
With the Helix PD (E) attached to your kayak and in the stowed position, launch your kayak into the water. Pull the Helix PD (E) upwards and towards you to pivot the Helix PD (E) in to the vertical zero daft position. On each side of the Helix PD (E) and mounting bracket (A) secure the blade of the latch base (A2) into the hook of the latch hanger (A1) and tighten the draw latches down. To fully deploy the Helix PD (E) into the pedaling position, push the Helix PD (E) down until it locks and you hear it click into place. You are now ready to pedal the unit.

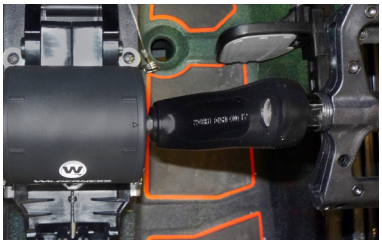


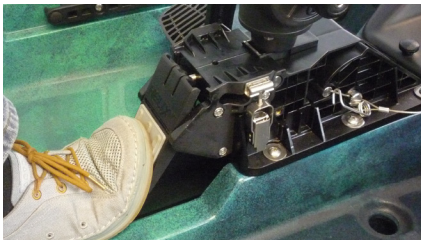
NOTE: The tension on the draw latch system is adjustable. Do not over-tension the latches to the point that you are forcing the latches closed or you can damage the system. Please take some time to tune-in the proper amount of tension required to stabilize movement within the Helix PD system during pedaling.

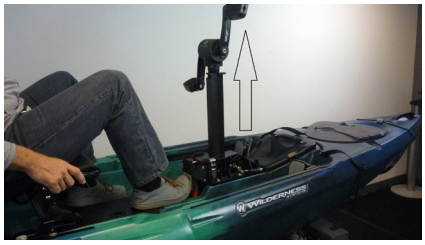
NOTE: Ensure that your kayak is in a sufficient depth of water to accommodate the full depth of a deployed Helix PD (approx. 18").

To raise the Helix PD (E) to the zero draft position, align the crank arms (F) to a vertical position so that the right crank arm (F) and pedal (H) is positioned between the marks on the Helix PD's (E) head unit. This will align the propeller to a vertical position so that the unit can be raised through the scupper. To raise the Helix PD (E), depress and hold the release pedal and the Helix PD (E) mast will raise automatically to the zero draft position.



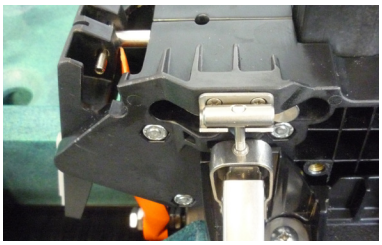




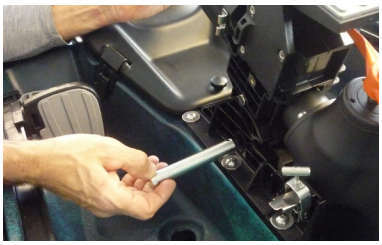


Caution: Keep clear of the scupper when releasing the Helix PD (E) mast to zero draft to avoid possible injuries.

From the zero draft position you can lower the Helix PD into a stowed position. Disconnect the latches (A1) (A2) on each side and lower the Helix PD (E) forward by hand to pivot it into the stowed position.



The Helix PD (E) can be completely removed from the kayak when it is in the zero draft or stowed position by removing the quick release pin (A6) and lifting the Helix PD (E) from the mounting bracket (A).



Caution: Always raise the Helix PD (E) to the zero draft position or stowed position when approaching the shore to avoid impacts to the Helix PD (E).

Tip: Look through the scupper and baffles (D) to help visually align the propeller.

11.2 Pedaling

With the Helix PD (E) fully deployed, and your feet on the pedals (H), adjust your seat until you are in a comfortable pedaling position. Generally, this means that there is a slight bend in your extended leg when the pedals (H) are horizontal. When you are comfortable, tighten your seat into position.

The Helix PD (E) can be pedaled in forward and reverse to maximize your performance.

Tip: The Helix PD kayak utilizes the AirPro Max seating system. The Helix PD (E) is optimized for use from the high seat position.

11.3 Deploying the Rudder.

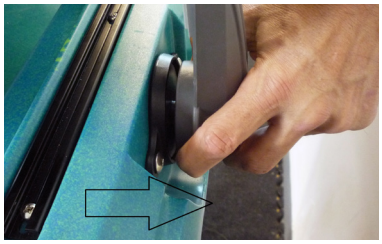
The Helix PD (E) is best utilized with a rudder (B) for steering. Before you launch make sure that the rudder hold-down (B7) has been disengaged from the rudder.

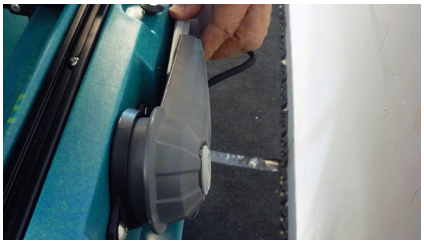
To lower the rudder, utilize the rudder deployment control line (B6) assembly that you installed. Pull the stern most control fitting of the rudder deployment control line (B6) forward to deploy the rudder and then pull the opposite control fitting of the rudder deployment control line (B6) to stow the rudder.

11.4 Using the Steering Control

Control your rudder (B) with the steering control (J). Push the steering control (J) handle forward to control the kayak to the left and then pull the steering control (J) handle to the rear to control the kayak to the right. Position the steering control (J) handle in the neutral middle position to steer straight.

There is a storage position for the steering control (J) handle for transit or if you want the handle in a low-profile, out of the way position. To secure in the staging position, grip the steering control (J) handle from near the steering control (J) base, and pull out and away from the kayak. The steering control (J) handle will disengage from the steering control (J) mounting base by approximately ¼". Pull the steering control (J) handle down towards the stern in a horizontal position and secure in place with the bungee paddle park on the Helix PD.





To reengage the steering control (J) push the steering control (J) handle past the vertical neutral position, towards the bow, until you feel it reengage.

Tip: The rudder will lock in place in the position it is in when the steering control handle is disengaged, allowing for greater control of your kayak.

Tip: The steering control (J) handle is height adjustable. Loosen the screws on the back of the handle, adjust to your preferred height, and retighten screws.

11.5 Using the Stowage Strap

To help stow the Helix PD (E) when not in use or to stabilize unit in swells or surf launches use the stowage strap (C). Pivot the Helix PD (E) forward into the stowed position. Secure the stowage strap (C) over the Helix PD (E) and buckle the stowage straps (C) male and female buckles together. Tighten the strap stowage (C) by pulling on the strap end on the male buckle.

12. STORAGE AND CARE INSTRUCTIONS

12.1 General Care Advice

Materials were chosen with a high level of corrosion-resistance. All of the materials used in the Helix PD are, as with most leisure maritime products, classed as “seawater resistant”, not “seawater-proof”.

- After use you should always remove the Helix PD from the water.
- After operation wash all components in fresh water, especially after use in brackish or salt water.

12.2 Instructions for Rinsing the System

Perform a fresh water, low pressure rinse on the entire system after use in brackish or salt water.

Tip: While you are rinsing your unit is a good time to thoroughly inspect the unit for damage.

12.3 Storage

When not in use, the Helix PD (E) should be stored in a dry indoor environment.

12.4 Lubrication

Lubricate your Helix PD unit annually.

Remove the set screw from the lubrication port located at the right side of the drive unit head.
Using a manual hand pump and needle, inject 3-5 pumps of a quality lithium grease into the port. Re-install the set screw.

Tip: Online Video Instruction for Helix PD maintenance are available at wildernesssystems.com

13. WARRANTY CONDITIONS

13.1 Warranty Process

Adhering to the following warranty process is a prerequisite to the satisfaction of any warranty claims.

To initiate a warranty claim please contact Wilderness Systems customer service at (888) 525-2925, 9:00 A.M. to 5:00 P.M. (Eastern Time) Monday – Friday. The customer service representative will guide you through the warranty claim process. Additional contact info can be located at the bottom of the owner's manual.

Before shipping any assumed defective items, it is imperative to coordinate the delivery with Wilderness Systems customer service. We are unable to accept products which we have not been notified and will therefore refuse delivery. For returning the Helix PD to a Service Center, we recommend keeping the original packaging. If this is no longer available, packaging can be provided.

13.2 Extent of Warranty

The warranty ends two years from the date of purchase from an authorized Wilderness Systems retailer. You must possess a valid sales receipt of purchase for a warranty to be eligible for processing.

Wilderness Systems guarantees the original purchaser of Helix PD that the product is free from material and manufacturing faults during the period stated above. Wilderness Systems will indemnify the original purchaser for any expense for the repair of a material or manufacturing defect. This indemnification obligation does not cover the incidental costs of a warranty claim or any other financial losses (e.g. costs for towing, telecommunications, food, accommodation, loss of earnings, loss of time etc.). Wilderness Systems decides whether faulty units are repaired or replaced with a new or refurbished unit. Distributors and dealers who repair Helix PDs have no authority to make legally binding statements on behalf of Wilderness Systems.

13.3 Limitations and Exclusions

Wilderness Systems is entitled to refuse a warranty claim if:

- The warranty was not correctly submitted
- The user is not the original owner with proof of purchase
- The safety, operating, and care instructions in the manual were not observed
- Previous maintenance or repairs were not undertaken by organizations authorized by Wilderness Systems or parts that were not original spare parts were used unless the end user can prove that the use of such parts did not contribute to the development of the fault.
- The product was in any way altered or modified or parts and accessories were added that are not expressly permitted or recommended by Wilderness Systems.
- As well as the rights arising from this warranty, the customer also has legal warranty claim rights arising from the purchase contract with the dealer that are not hampered by this warranty
- The Warranty Also Does Not Cover:
- Normal wear and tear and aging of product
- Damage by extreme weather or environmental conditions
- Damage while in possession of a freight carrier, a dealer, consumer, or any party other than Wilderness Systems
- Damage by accident, neglect, improper use or handling
- Damage caused by hitting submerged objects or launching or landing your kayak without retracting the Helix PD unit
- Kayaks that have been towed by power or sail boats
- Units sold as “demos” (units used for commercial or rental purposes)
- Units determined to have been used for any activity other than an activity which is customary for the product
- Units that have been structurally or dimensionally altered or modified

This limited warranty excludes all other warranties, expressed or implied, including implied warranties of merchantability and fitness for a particular purpose, with regard to Wilderness Systems. Some state, country, or provincial laws do not allow the exclusion of certain implied warranties, so the above exclusion may not apply to you.

This limited warranty excludes any incidental or consequential damages or expenses resulting from any defects. Wilderness Systems aggregate liability shall be limited to an amount equal to Consumer’s original purchase price paid for the defective product. Some state, country, or provincial laws do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you. To the extent any limitation or exclusion contained herein is contrary to any country, state, or provincial law, such limitation or exclusion shall be severable and all other terms herein shall remain in full force and effect and are valid and enforceable. This warranty gives you specific legal rights and you may also have other rights. For Consumers who are covered by state, country or provincial consumer protection laws or regulations, the benefits from this warranty are in addition to all rights conveyed by such consumer protection laws.

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