

Owner's Manual



Hobie **mirage** *Pro Angler*

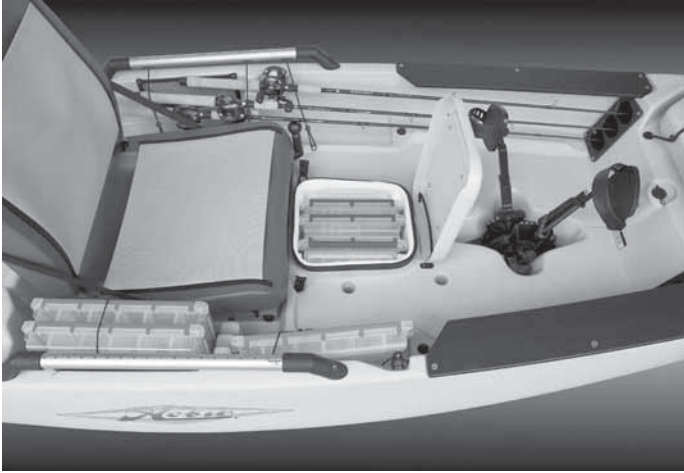
Welcome to the Hobie Way of Life



Thank you for choosing the Hobie Mirage™ Pro Angler. As a member of the Hobie way of life, you are now on the road to pure adventure on the water. This owner's manual is designed to help you get maximum enjoyment from your new Hobie. But more importantly, it is designed to help you use it safely.

Reference the Product Support pages at Hobiefishing.com to check for updated Owner's Manual versions.

About the Design of your Pro Angler



Cockpit

Open-top cockpit design allows the operator to enter and exit the boat easily from the shore, dock or water. Drainage scupper holes make the floor self-bailing.

Seat

Mesh covered seat back & seat bottom breathe and stay dry. Adjustable seatback that can be tuned to maximize comfort.

Hull Design

The design of the Pro Angler hull maximizes stability and a shallow draft without sacrificing speed. Wave piercing bow for speed and a silent approach, multi-hull transom for rock solid stability.

Maneuverability

Your rudder system comes pre-installed by our factory. This rudder is mounted forward of most traditional boats which shortens the turning radius and ensures the rudder is out of the way of your fishing lines.

Scupper Holes

Drain holes (scuppers) in the cockpit and cargo area allow any water that enters the cockpit to immediately flow back out.

Graphics

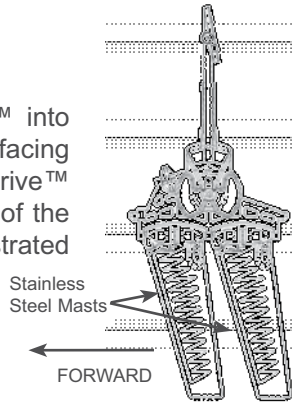
Graphics are molded into the hull, so they will not peel or flake off for the life of the boat.



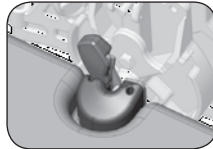
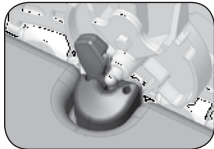
Hobie MirageDrive

Drive Installation

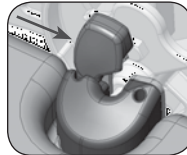
1. Insert the Hobie MirageDrive™ into the opening of the hull so it is facing forward. The front of the MirageDrive™ can be determined by the location of the fin masts. The forward edge is illustrated to the right.



2. To lock the Drive into the hull, lower the Drive into the hull so that the drum shaft posts drop down into the Click-N-Go cams and lock into place.



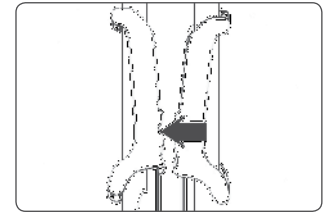
3. To remove the MirageDrive™, flip the Click-N-Go cam back and pull the drive out. The cams should automatically reset themselves for installation, but if they do not just flip the cam forward.



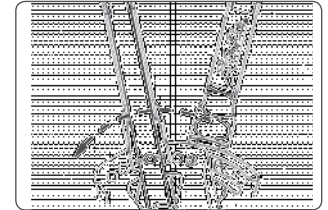
Pedal Adjustment

The pedals of the Hobie MirageDrive™ are adjustable to accommodate different leg lengths. To adjust the pedals:

1. Squeeze the adjuster handles located on the pedal cranks.



2. While squeezing the adjuster handle, move the pedal crank to the most comfortable position. Like a bicycle, it is best to adjust the pedals so your legs do not fully extend causing your knees to lock. Make sure that the metal pin on the crank fully engages the adjustment hole.



Drum Casting

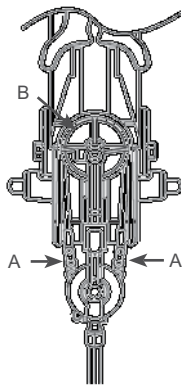
When turning cable adjusting nuts, turn the nut with a 7/16 inch open-end wrench, only giving it one-half a turn at a time, then do the same to the remaining three nuts. Re-check the tension and adjust accordingly.

Note: Keep the pedal shafts and masts parallel. When the shafts are together, both masts must be straight down. The idler pulley cable (see item B in the illustration below) will be tightened automatically when the front chain assembly is tightened.

Cable Adjustments

Determining if adjustment is needed...

Occasionally the cables may need to be re-tightened. The cables should be kept taut; however, the front chain should be a little tighter than the rear chain. Push with your thumbs at the points marked (A) with moderate pressure (see the image to the right). The side of the chain should not go beyond the inside edge of the drum casting.



Washing

After using in salt water or dirty water, wash the Hobie MirageDrive™ with fresh water. Allow to dry, then spray metal parts with water-displacing oil or lube equivalent. Special attention should be paid to threaded cable ends, lock nuts, chain, shafts, pedals, and adjustment pins.



Miscellaneous Maintenance

Periodically check for loose screws or frayed cables. If a cable has a broken strand, replace it with new cable.

CAUTION

Care should be taken to avoid striking objects with the Hobie MirageDrive™. If you bend a mast, it usually can be straightened. To straighten, remove the MirageDrive™ from the boat and insert the Drive into something solid, such as a vise. Remove the fin, then carefully bend the mast until straight. To test for "true", roll mast on a flat surface and straighten as needed until the masts roll evenly. If the mast cannot be straightened or becomes cracked or fatigued, replace the mast.

Pro Angler Rudder System

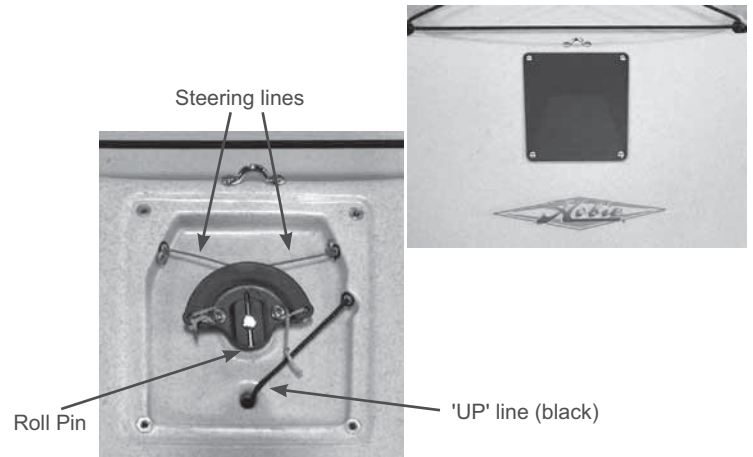
Pro Angler Rudder Features

The rudder is easy to control and responsive enough to turn the Pro Angler in its own length. It is spring loaded and will automatically retract when encountering underwater obstructions.

Manually it can quickly retract recessing safely under the hull.

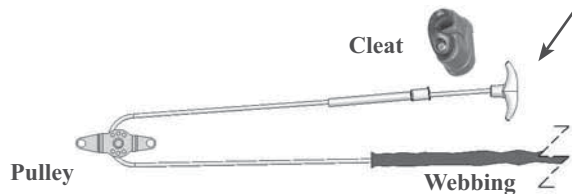


Access to the steering drum will be needed to make any trim adjustments to the steering lines or to replace the rudder blade. To begin use a phillips head screw driver and remove the four screws attaching the black plastic cover. Two more phillips head screws are used as dead-ends for the steering lines. Loosen and adjust each line to make trim adjustments. A roll-pin is used to attach the rudder shaft onto the steering drum. If you need to remove the pin, tap the forward end and slide the pin out the back. To remove or replace the rudder blade you will also need to untie and remove the up line from the back of the rudder blade.

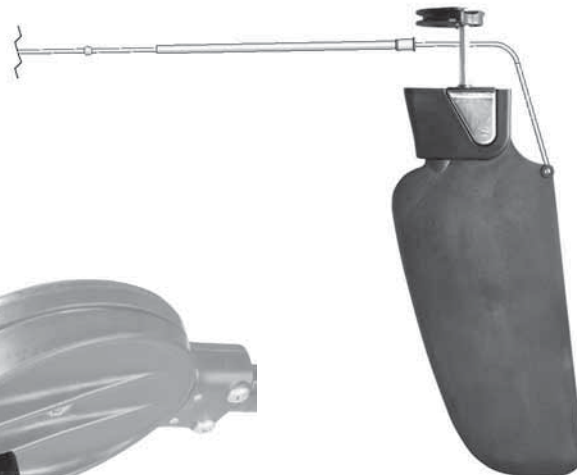


Rudder, Lock Up Operation

The following detail explains how the rudder manual lock 'up' control is set up inside the hull.

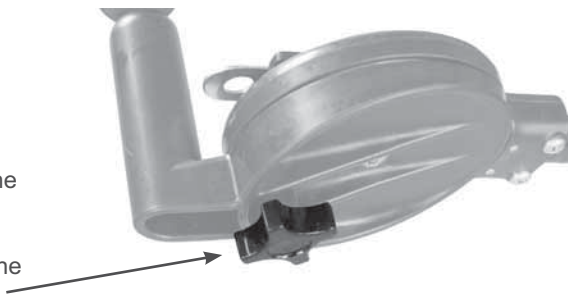


T Handle This T-handle on the starboard side operates the up/down control function of the rudder. Simply pull the handle and cleat the line to raise and lock rudder up. Release line from the cleat to lower the rudder. When the rudder is down, it is automatically held down with an internal spring.



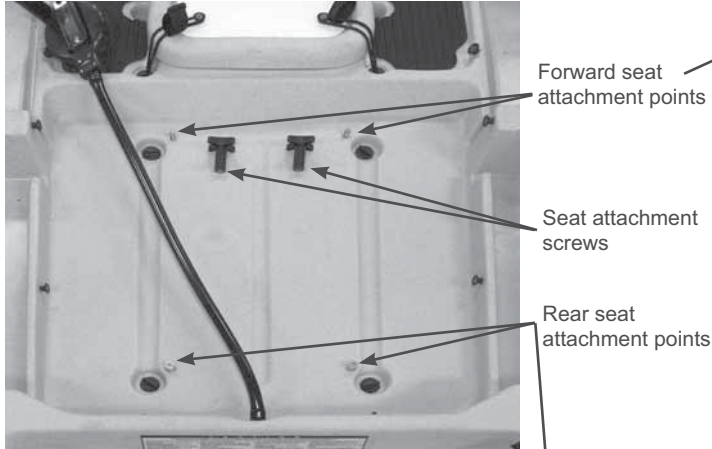
Steering Line Tension

To achieve a responsive feel with the rudder system, you can easily add or remove tension on the steering lines by turning the small knob on the bottom side of the tiller handle.



Seat Install

Installing and removing your seat is fun and easy. There are four attachment points, the rear two slide into place and the forward two are held down with the included seat screws.

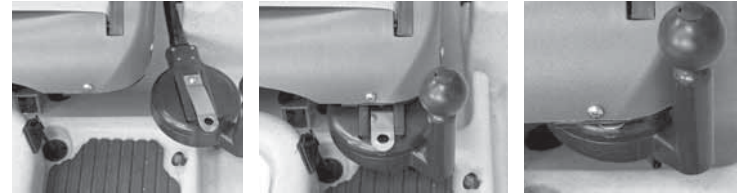


To install the seat begin by moving the steering line / tiller assembly to either side. Line the back of the seat up with the two rear attachment points. The seat frame is able to telescope in or out a small amount to account for tolerances. Once in line, simply slide the seat back and into place.



Once the back of the seat is in place the front should drop down. Thread the attachment screws down to secure the seat into place.

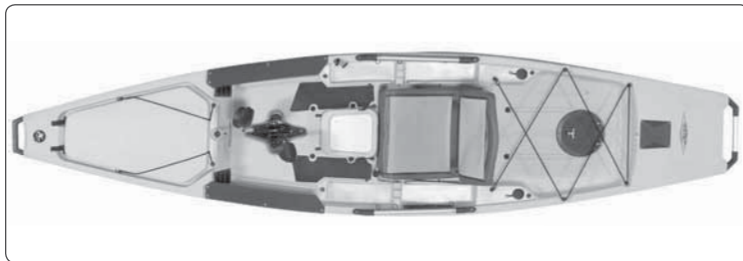
Steering Handle Install



Installing and removing the steering assembly is quick and easy. You'll need to install the assembly on a new boat and you'll need to remove it when you remove the seat. The steering handle assembly can also be switched to the right side of the seat if desired. Steering line calibration is required when switching sides, this adjustment should be made at the back of the boat under the rudder access cover (see page 5).

To install match the raised rectangle section on the top of the assembly to the matching notched section in the seat bottom, line up straight front to back and slide back in place until you hear and feel a snap. The snap comes from the metal tongue you see on the top of the assembly. To remove the assembly you'll need to press down on the metal tongue and slide the assembly forward.

Basic Watercraft Information



More Boat Features

Horizontal Rod Storage

Built into both sides of the boat so you can keep your favorite tackle ready but out of the way of over-hangings or a fighting fish.

Moveable Tiller

Move the steering to the right side if you prefer to hold your rods with your left hand. A simple steering line calibration is all that's needed to complete the swap (see page 5).

Center Hatch

Designed to hold a lure locker, tackle boxes and features a cutting board on top. *(note: while surf launching Hobie recommends removing both center and large front hatch bucket to improve the seal of the hatches)*

Recommended Equipment for Specific Types of Pedaling and Paddling

Basic Boating: Life Jacket, Paddle, Paddle, Backrest, Safety Whistle, Filled Water Bottle, Appropriate Safety Equipment.

Longer Distance Outings: Dry Bags, Chart, Compass, GPS.

Additional Equipment for Diving: Dive Flag, Anchor.

Fishing: Fishing Rod Holder, Rod Holder Leashes, Gear Bags, Anchor.

See the Hobie Parts & Accessories website or catalog for more ideas on available goodies and how to mount them.

(note: while surf launching Hobie recommends removing both center and large front hatch bucket to improve the seal of the hatches)

Safety

Paddle/pedal sports can be dangerous and physically demanding. The user of this product should understand that participating in watersports may involve serious injury or death. Observe the following safety standards when using this product. These are basic safety rules that all boaters should follow. Always use common sense and follow all safety rules at all times.



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Safety Checklist

- To avoid damage to the Hobie MirageDrive™, push either pedal completely forward before beaching or in shallow water. Use small, partial pedal strokes with one pedal nearly all the way forward until there is adequate water depth for the MirageDrive to have complete clearance in the water.
- Consult your physician prior to beginning paddle/pedal sports.
- Always carry the spare paddle provided with the boat.
- Obtain paddle/pedal sports instructions from your dealer specific to this type of craft.
- Obtain certified first aid training and carry first aid and rescue/safety equipment.
- Always wear a Coast Guard approved personal flotation device.
- Wear a helmet where appropriate.
- Dress appropriately for weather conditions; cold water and/or weather can result in hypothermia.
- Check your equipment prior to each use for signs of wear or failure.
- Never pedal or paddle alone.
- Always tie a leash to your paddle.
- Do not pedal or paddle in flood conditions.
- Care must be made to ensure that the access hatches on your kayak remain closed while on the water. Water can enter a hatch that is left open and possibly flood the hull making the boat unstable or cause inadequate flotation for the passenger(s).
- Be aware of appropriate river water levels, tidal changes, dangerous currents, obstacles in and above the water and weather changes.
- Scout unfamiliar waters; portage where appropriate.
- Do not exceed your paddling/pedaling ability; be aware of your limitations.
- Hobie Kayaks were not designed for fast moving water.
- Follow the manufacturer's recommendations for use of this product.
- If additional outfitting is added to this craft, use manufacturer-approved materials only; do not impair entry or exit access.
- Read owner's information package prior to using this product.
- The user of this product acknowledges both an understanding and assumption of the risk involved in paddle/pedal sports.

- When paddling in a new area, check with the locals regarding currents, shoreline conditions and weather patterns. Plan an "escape route" -- an alternative place to get off the water should environmental conditions dictate. Beware of offshore winds that may make it difficult to return to shore.
- DO NOT use alcohol or mind-altering drugs prior to or while using this product.

The Shakedown Cruise

As with any new product, it is important that you become familiar with the craft and all its features. It is also important to determine if the boat is sound before long trips. We recommend that you do what we call a "shakedown cruise" after shipping or transport, before long trips and after installing any through hull fittings. This test is typically done in shallow, calm conditions. Things that you should check or practice are

- Rudder Operation
- MirageDrive Adjustment
- Practice getting in and out of the hull from a capsized state
- Drain plug locations to make sure they are properly installed
- Closing the hatches properly
- Taking the optional sail down while on the water (if applicable)

Performing a Self Rescue

The Pro Angler is built to be very stable and secure but in the event you fall out of the boat here are some tips that will help you. You may find the easiest way to remount the boat is from the back. The rear handle of the Angler can get you started up and onto the back of the hull. Once your hands are on the deck you can find places to grab such as the back of the rear cargo area, molded in rod holders, scupper holes and raised wall behind the seat.

Another option to re-board the boat is from the side, utilize the side rails and seat to climb up on the hull. Keep your center of gravity low while loading, also beware of straps from your lifejacket getting caught on rigging while climbing aboard.

If your Pro Angler turns upside down in the water, the best way to right the hull is with a righting line. A simple line at least 5 feet in length, tie one end to the side handle and toss the loose end over the hull. Pulling up on the loose end of the line will lift the far side of the hull while you use your body to push down on the nearside.

Storing Your Pro Angler

Hobie has chosen a blend of plastic that has an added measure of ultraviolet inhibitors to provide superior protection from ultraviolet light. However, to ensure extra years of flexibility and bright colors, avoid storing the boat where it will be exposed to direct sunlight.

Pro Anglers should be stored flat, standing up on either end, or suspended in the air. When hanging your Angler, make sure that the straps support most of the weight near the cockpit or the side of the boat. A word of caution: hanging by the scupper holes will likely cause distortion, and hanging from handles (bow, stern or midship grab handles) will place undue strain on them and void your warranty. Kayak storage systems are available from your dealer.

The plug-in accessory cart is a great tool for transporting your Pro Angler short distances but should be removed during storage to prevent distortion to the hull bottom.

To prevent theft of your kayak, simply run a cable through a scupper hole or the MirageDrive and lock it to something secure.

Pedaling

First adjust the pedals to accommodate your size as shown on page 3. Adjust the pedal positions equally. Sit with one pedal all the way forward so your knee stays slightly bent when your leg is fully extended. Then you simply pedal back and forth to propel the boat forward. For pedaling in shallow water, partial strokes with one pedal forward and one aft allow for retraction of the sails in shallow water. When there is adequate water for clearance of the fins, full strokes can be used.

Before beaching or launching, push one pedal completely forward to retract the Hobie MirageDrive fins up against the hull and kick up the rudder by pulling and clearing the up rudder line. To take off from the beach, push out to deeper water or paddle out before putting the rudder down and pedaling the MirageDrive.

If launching from a rocky or wavy shore, to avoid damage to your MirageDrive, paddle into deeper water before installing it. (Be sure to tether the MirageDrive to your kayak when it is not installed.) You may also prefer to remove the drive before beaching.



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Padding

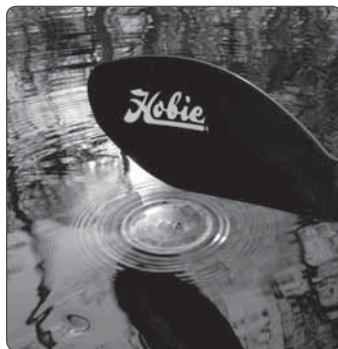
You can choose to paddle, pedal or combine the two. These guidelines will help you to get started.

To start, sit in your boat. Your backside should be all the way back in the seat and your knees comfortably bent.

For proper hand placement on your paddle, start with your hands about a shoulder's width apart and centered. If you place the center of the paddle on top of your head, your elbows should form slightly less than a 90 degree angle. There should be an equal amount of paddle shaft beyond each of your hands.

Some paddles may have the blades offset, or "feathered", at some degree from parallel. A feathered paddle presents less surface area for the wind to catch as that blade moves forward through the air.

The basic paddle stroke will give you forward power. Place a paddle blade in the water near your toes. Pull the paddle blade back alongside the boat to approximately your hip area while your opposite hand and paddle blade move forward.



Then lift the first paddle blade out of the water while lowering the second blade into the water and take a stroke with the other side.

If you pull the paddle out and away from the hull in an arc, it will force the bow of the boat to swing away from the paddle blade. This is called a "sweep stroke" and is used to turn the boat.

More Paddling Tips

Relax your hands when paddling; a tight grip is not necessary!

For greater efficiency use not only your arms, but your torso and shoulders as well. Start out easy until you get the feel of the paddle and the steering strokes. Most experienced paddlers use an offset (feathered) paddle, but beginners may prefer to keep the paddle blades square.

Standing in your Pro Angler

Standing in your boat can be dangerous. It is possible to tip or fall overboard. Always exercise common sense and caution when standing. Never stand in a moving boat or while the boat is motoring. Hobie reminds you to always take precautions while on the water and to be careful while getting in or out of the boat.

Transporting Your Pro Angler

The easiest way to transport your Angler is to purchase a trailer from your dealer. A custom set of hull cradles can be purchased from your dealer as well. An alternative to a trailer would be a roof rack system. A set of approved cradles will be required to keep the hull free from any distortion.

A line run from the bow and stern of the boat to each bumper is required. If your bumpers do not have a gap to pass a rope around, look underneath. Many people like to use the scupper holes to tie the boat to the car. This helps prevent the boat from sliding back and forth or the tie-down rope from slipping off the hull. This is a perfectly acceptable method for tying the boat down.

Plug-in Cart

Our wide wheelbase carts are required to be used with your Pro Angler as well as our post collars/clamps, these collars will properly distribute the load and keep the keel from deforming. Using earlier versions of Hobie's plug-in kayak carts that were not designed for the Pro Angler can damage your hull.



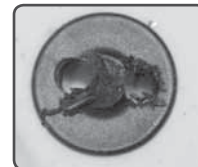
Collar part #80044201



How can I replace or exchange the screw-in fittings?

You may find it necessary to replace some of the pad eyes or hooks if they are damaged. To replace them, or to swap from one fitting to another without the specialized tool, follow the instructions below.

1. Drill two 3/16" holes opposite one another on the top surface of the screw-in fitting. Be careful not to go all the way through the part and into the kayak.
2. Insert the two prongs of a pair of needle nose pliers into the two holes and rotate the part counterclockwise.
3. Grip the new part with your pliers and install it into the hole. Be sure to put a little pressure into the hole so that the threads on the new part install in properly.



To make this job easier you can purchase the Screw-in Fittings Tool, part number: 71115101



Frequently Asked Questions

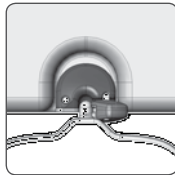
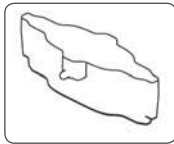
About Polyethylene

Continuing Hobie's tradition of offering the latest in technology at an affordable price, your new kayak is made of rotomolded Super Linear Polyethylene II. Polyethylene offers a major advantage because it is virtually indestructible under normal use. Being somewhat flexible, it gives on impact and derives its stiffness from compound curves. Polyethylene is very abrasion-resistant.

Mirage Scupper Plug

Your Hobie Mirage Pro Angler is shipped with a Mirage Cassette Plug. The plug is provided as standard equipment and is used to fill the space where the MirageDrive™ fits in through the hull. It is inserted when the MirageDrive is removed to provide added safety and to "fair" the bottom of the hull when paddling or using other forms of propulsion.

To install the cassette plug, simply place the plug in the hole for the MirageDrive mechanism and lock it down using the Click-n-Go cams.



Is my boat repairable?

Hobie Pro Anglers are very durable, however, on occasion they may need some minor repairs. Linear polyethylene is repairable. Check with your dealer concerning repairs for your hull.

Is my boat recyclable?

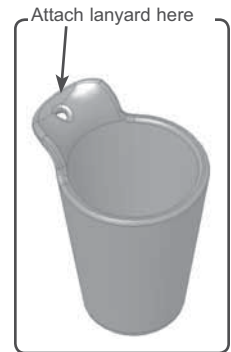
Hobie will recycle your boat when you are done with it. To recycle a Pro Angler, it must be cut up so it fits in a box with the following dimensions (for UPS): may not exceed 130" length plus girth, and 108" in height. Ship the boat to:

*Hobie Cat Company
4925 Oceanside Blvd.
Oceanside, CA 92056*

It is our hope that no Hobie boat will ever end up in a landfill!

What is the best way to use the scupper plugs?

The scupper plugs are useful when you would like to keep the inside of your boat dry and is most helpful in calmer water conditions. Simply press the plug firmly into the scupper hole from the top side of the boat. To prevent loss of the plugs, lanyards are provided with the plugs so that you can attach them to the boat.



Warranty Information

Hobie provides a limited two year hull warranty.

Your warranty registration card is packaged with this owner's manual and should be completed and returned to Hobie Cat within 30 days of the date of purchase. If you have problems with your boat, contact your dealer first. If you need further assistance, contact Hobie Cat. To help process any warranty problems, please complete your warranty card and give it to your dealer or mail it directly to Hobie Cat.

Hobie warrants each kayak to be free from defects in materials and workmanship for the period listed below. For retail customers in the United States, U.S. possessions and Canada, Hobie will repair or, at its discretion, replace defective parts.

The warranty period for the hull is two years and one year for the Hobie MirageDrive, rudder, seat and paddle.

This warranty does not cover:

- Normal wear and discoloration.
- Damage caused by abuse or failure to perform normal maintenance.
- Damage caused by hitting submerged objects or beaching without retracting or removing the MirageDrive and rudder.
- MirageDrive™ Sails are not covered for impact and wear damage.
- Damage caused by mooring or storing boat in water.
- Damage caused by alterations or modifications.
- Transportation of boat or parts to Hobie or its dealers.
- Any boat used as a rental or placed in commercial service.
- Any other consequential damage, incidental damages or incidental expenses, including damage to property. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

To Obtain Warranty Service: Within 30 days of discovering a defect, take your boat, along with the proof of purchase (sales receipt) to the authorized Hobie dealer from whom you purchased your boat, unless you have moved or are traveling. In that case, take it to the nearest authorized Hobie Dealer.

Implied Warranties: Any implied warranties, including implied warranty of merchantability and fitness for a particular purpose, shall be no longer than the duration of this express warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. Hobie makes no express warranties in addition to this limited warranty. Hobie Dealers have no authority to make warranties on behalf of Hobie Cat Company in addition to, or inconsistent with, those stated herein.

To the extent any provision of this warranty is prohibited by Federal, State or Municipal law and cannot be preempted, it shall not be applicable. This warranty gives you specific legal rights.

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REV 4/13/09
PN 89510

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