

# HOBIE EPO<sup>2</sup>

HOBIE CAT COMPANY - USA / AUSTRALIA

## EPO2 RUDDER BLADES

The return of the famous EPO!! The legendary rudder shape but improved. Hobie Cat took the original EPO foil and digitized it to weed out imperfections in the original design. We also improved the trailing edge for better "out-of-the-box" performance. We developed the EPO2 rudder blade as the next generation performance rudder blade for the 14, 16, 17, 18 and 20. With this proven foil shape and a fine trailing edge, the EPO2 offers reduced cavitation and hum with smoother, more forgiving control. The EPO2 rudder is stiff where it counts due to its hand laid fiberglass construction incorporating extra cloth for longitudinal stiffness. We have placed extra glass in all the right places to ensure that it is tough enough for the most demanding sailors using extreme mast rake. You will experience supreme performance and handling not found with other rudder blades. Black Carbon: Gucci looks, stiff and light weight.

- 20490020 EPO2 Black Carbon Epoxy blade – Each **\$250.00**
- 20493000 Std Nylon Plastic blade, White – Each **\$132.00**



EPO2 Carbon Epoxy

**The EPO Story:** Years ago when Hobie Cat was part of the Coleman Company we had a sister company which built the original EPO rudders for us. It was a highly advance production process. The EPO was very popular, handled great and was very durable. Sailors LOVED them! In the late 80's the EPO production capability was lost to us. We are very pleased, as many a sailor will be, that the EPO has been re-born!

### TECH TIP!

#### RUDDER RAKE

Excessive weather helm (when you must pull hard on the hiking stick to keep the boat from turning towards the wind) can be corrected by cocking the rudders farther (forward) under the boat. If you have too much lee helm (very little pull on the hiking stick, with the boat tending to turn away from the wind), this is corrected by unscrewing the adjustment and cocking the rudders back (aft). The amount of rudder rake needed depends on how far back the mast is raked and how much weight is being carried. The biggest problem with rudder adjustment is when a skipper changes the blade adjustment screw without reseating the cam plate in the upper casting. Even a very minor adjustment to the rudder could cause the cam to lock partially rotated, dramatically reducing the kick-up resistance. That means every time you make a blade rake adjustment, you must also reseat the plate AFTER you have finished adjusting the blade rake. There are three very important adjustments that should be made to the rudder assembly.



1. The rudder rake screw which adjusts blade angle.
2. The cam plate bolt which holds the blade forward.
3. The cam tension screw which adjusts kick-up tension.

**When system adjustments are made improperly, the system won't work right. You must follow these steps in order!**

1. Lift the rudder arm to unlock the assembly.
2. Using an allen wrench, adjust the rudder rake screw to give the desired rudder blade angle (rake).
3. Make sure that the blade is seated forward against the adjustment screw, loosen the cam plate bolt and lock down the assembly. Slide the plate back a little and then forward as far as it will go up into the cam. Retighten the bolt with a 1/2" socket.
4. Adjust the kick-up tension screw with a screw driver. You can calibrate the tension with a fish scale by making a loop of rope and putting it on the rudder blade about 24" down from the front bolt hole. Hook the scale to the loop and pull. Factory kick-up tension is set between 18-22 pounds.



#### DIE CAST GUDGEONS

Standard on current production Hobie 16s, these die cast aluminum gudgeons are now available for your Hobie 16, 17 or 18. Their one piece construction and plastic bushed pin holes guarantee pin hole alignment, reducing rudder pin wear, slop and drag.

- 50102011 H16 Each **\$42.29**
- 60102011 H17-18 Each\* **\$59.49**

(\*H18 Cast Gudgeon includes a rudder pin, cotter keys and washers.)



#### LOCKING GUDGEON SCREWS

No more re-tightening gudgeon screws. As of 1996, Hobie Cat changed gudgeon screws on all new boats to "long lock" screws. Similar to a Nylock Nut, this screw has a nylon insert almost the full length of the threads. The nylon insert screws into the aluminum transom plate and provides the same resistance to movement that the nylock nut does.

- 8030401 Screws, 12-24 Long Lock Gudgeon Screws **Pack of 16 \$19.50**
- 8030402 Screw, 12-24 Long Lock **1ea \$1.25**



#### STAINLESS STEEL RUDDER PINS

Made from 3/8" stainless steel rod, these rudder pins are extremely durable. Sold Each.

- 20880011 H14,16 Pair **\$14.79**
- 60880011 H18 Each **\$21.29**

#### FIBERGLASS RUDDER PINS

Durable, wear resistant fiberglass rudder pins won't corrode in salt water. 3/8" diameter provides tight fit and eliminates some of the slop due to worn out gudgeons. Sold in pairs.

- 5051 H14/16 Pair **\$9.99**
- 5052 H17/18 Pair **\$11.99**

#### STANDARD RUDDER PINS

Sold Each.

- 10881000 H14 Nylon **\$14.39**
- 20880001 H14/16 Alum **\$11.69**
- 60880001 H17/18 Alum **\$16.49**



#### RUDDER CASTING BUSHING

Are you plagued by sloppy rudders? Do your nylon liners keep slipping out? Open up the holes in your rudder castings to 7/16" and install these insulating, self lubricating nylon bushings.

- 8062001 Set of Four **\$9.00**

## STANDARD HIKING STICKS

See the part diagrams on pages 43-61 for the standard hiking stick to fit your model Hobie.

## ALUMINUM HIKING STICKS

Fine quality budget priced hiking stick. Extend to the most comfortable length. Yoke is included. Available in silver only. Not class legal for racing.

<b>3201</b> 54"-96"	<b>\$59.00</b>
<b>3202</b> 43"-71"	<b>\$53.00</b>
<b>3203</b> 42"-96"	<b>\$65.75</b>
<b>3205</b> Yoke Connection	<b>\$7.69</b>

## ARRIBA "HOT STICK" HIKING STICKS

Impact resistant fiberglass telescoping hiking stick. Cam shaped internal shaft locks outer shaft with simple 20° twist of handle. Uni-directional lock for smooth sliding action. No moving cam parts. Full length grip surface allows twist lock/unlock along entire length. Elastically coupled hinge is tough. Yoke for attachment to tiller cross bar is included.

<b>FX3</b> 52"-96" (H16)	<b>\$147.00</b>
<b>FX4</b> 57"-105"	<b>\$154.00</b>
<b>FX6</b> 63"-120" (H17,18SX &21)	<b>\$160.00</b>

<b>3208</b> Replacement rubber grip	<b>\$6.00</b>
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## TILLER CARBON WILD CAT

<b>F99502360</b> Extendable	<b>\$250.00</b>
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## HIKING STICK SOFT GRIP

This soft grip for your tiller extension eliminates "slippery stick". Twelve inches long, made of UV tolerant closed cell foam. Glues on.

<b>3207</b> FX/Hot Sticks	<b>\$10.99</b>
<b>3206</b> Standard Tillers	<b>\$9.99</b>



## HIKING STICK BALL GRIP

Many sailors prefer the "feel" of a round grip. Install a 2 inch Ball Grip on your Arriba FX or Hot Stick hiking sticks for that solid contact between yourself and the rudders.

<b>FXGRIP</b> Kit	<b>\$16.95</b>
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## THIRD HAND

This is the closest thing you can get to "self-steering" on a Hobie Cat. This handy little device grips the hiking stick, holding the tiller at whatever position you please. Great for light air sailing or when paddling in if the wind dies. It also keeps the rudders from flopping around when on the beach. Attaches at each end of the traveler track. For the Hobie 14 & 16 only.

<b>204</b> Pair	<b>\$47.99</b>
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## BALL LOCK PINS

Remove hiking stick from the cross bar for trailering or storage without the hassle of unwinding and dropping "ring-dings".

<b>20303</b> Aluminum	<b>\$21.60</b>
<b>20304</b> Hot Sticks	<b>\$19.45</b>



## TILLER CONNECTOR (HOBIE MIRACLE 20 STYLE)

We've taken the tiller connection system for the Hobie 20 and adapted it to all of the Hobies. Now you can have the no slop, easy adjustment, 10 second assembly/disassembly convenience of the latest in tiller crossbar connection systems. There is no better tiller connection and adjustment available at any price! Now available in a version (1957) for Wave and Getaway (standard on newer boats / non-adjustable). Same easy release system.

<b>1953</b> Pair All Boats	<b>\$137.00</b>
<b>1957</b> Pair Wave/Gtwy	<b>\$72.99</b>



## RUDDER CAM KIT

Replace the rudder cam and flared pin with this kit that includes a pair of cams and a pair of binding post screws.

<b>5202</b> H14/16	<b>\$28.69</b>
<b>5204</b> Wave, 17 and up*	<b>\$33.89</b>
*(H18 '86 & up)	

## RUDDER CAM SISTER SCREWS

Replace your old flared pins with these reusable pins. No more riveting and drilling. These reusable binding post screws let you change rudder cams with the turn of a screwdriver. Sold by the pair.

<b>5201</b> H14/16	<b>\$17.99</b>
<b>5203</b> Wave, 17 and up*	<b>\$19.00</b>
*(H18 '86 & up)	



## RUDDER STIFFENING KIT

Beware of imitations! Features special high density polyurethane washers that will last and last. Highest quality components. These washers and stainless steel Nyloc nuts work great to give your rudders that tight fit. Eliminate wobble between rudder blade and upper casting. Don't settle for less—Get the ORIGINAL.

<b>136</b> Kit	<b>\$7.99</b>
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## TILLER CONNECTION KIT

Complete tiller linkage replacement kit. The contoured spacers fit snugly against the tiller end caps and crossbar alignment end cap to eliminate linkage sloppiness without spending a fortune. Includes all required parts.

<b>3052</b> Pair	<b>\$13.79</b>
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## KICK BACK KIT

Returns rudders to locking position quickly and effortlessly. Really great when sailing in weed filled waters. Installs on the existing rudder bolts. Fits all Hobie 14's/16's. Class legal.

<b>1544</b> Kit	<b>\$15.75</b>
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## TECH TIP!

To have that right feel... you have to have a rudder system from hand grip to the lower tip of the rudder, that is without slop and can be adjusted to your comfort and convenience. Whatever your steering system problems, you'll find the proper fix in this section.