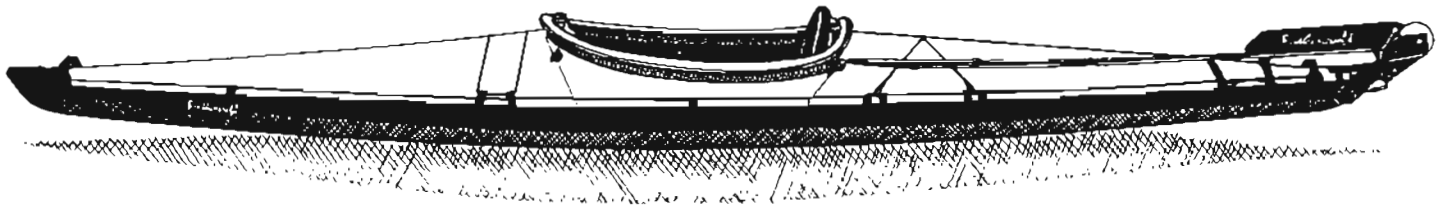
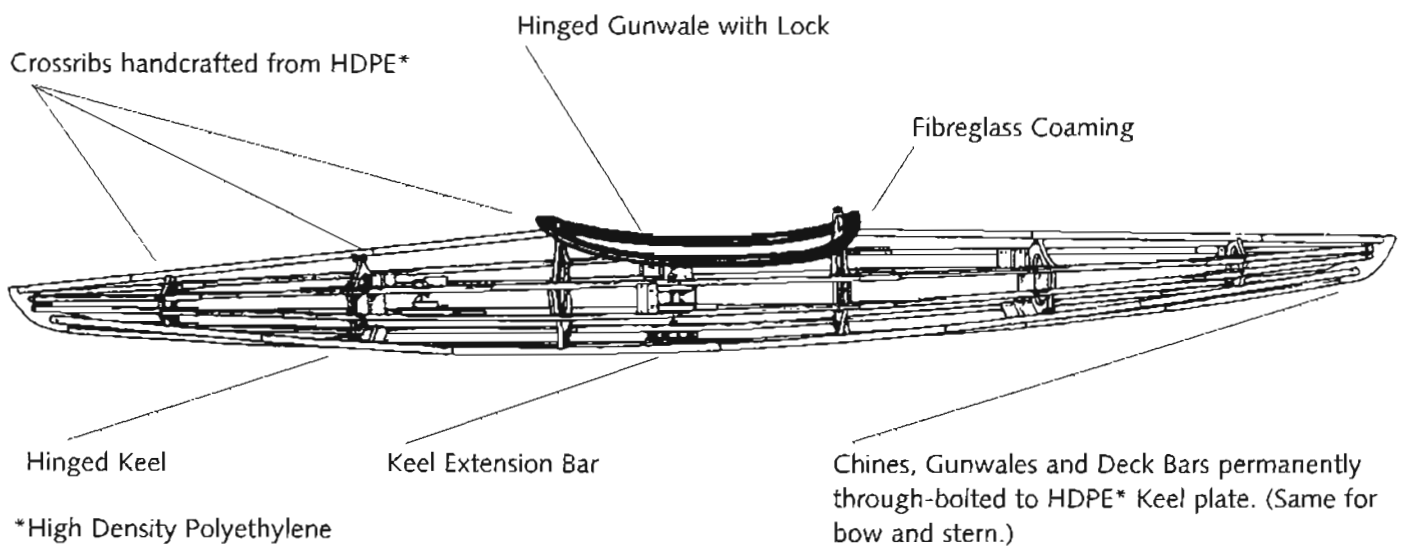


# ST Expedition Single Folding Kayak



ST Frame: 6061-T6 ANODIZED SEAMLESS DRAWN SQUARE AND ROUND TUBING



## Specifications

LENGTH:	4.11 m (13'6")	DECK:	Poly-Tech
BEAM AT COCKPIT:	69 cm (27")	HULL:	Hypalon rubber
PACK SIZE:	94 x 45 x 28 CM (37 x 18 x 11")	SEAT:	Closed Cell Regalite Foam Padding; 3/16" High Density Polyethylene Back Support
WEIGHT:	22 kg (48 lbs)	SPONSONS:	Urethane
FRAME:	Main Gunwale Members: 1/2" x 1/2" Square 6061-T6 Aluminum Alloy Tubing Main Keel Members: 5/8" x 5/8" Square 6061-T6 Aluminum Alloy Tubing	STANDARD ACCESSORIES:	Nylon Spray Skirt Sea Sock Adjustable Foot Braces/Rudder Controls Repair Kit Travel-style Back Pack Assembly Video and Written Instructions Flip-Up Surf Rudder Bow-Line Shockcord Cross-deck Tie-downs Perimeter Deck Line
RIVETS AND SPACERS:	Aluminum and Nylon		
SCREWS AND BOLTS:	Stainless Steel		
COCKPIT COAMING:	Fiberglass		
PROTECTIVE COATING:	Clear Anodized		

# Feathercraft<sup>TM</sup>

FOLDING KAYAKS AND ACCESSORIES

4-1244 Cartwright Street on Granville Island, Vancouver British Columbia Canada V6H 3R8 (604) 681-8437  
<http://www.Feathercraft.com> or [feathercraft@netminder.com](mailto:feathercraft@netminder.com)

# Care and Maintenance

## THE FRAME

The frame is very strong and corrosion resistant. We recommend that the frame be disassembled after extensive use (2-3 months) in salt water and the insides and outsides of the tubes be washed with fresh water. Try to keep the tube inserts, joins and hinges free of sand and grit. Use the teflon lubricant on all tube inserts.

## THE SKIN

The surfaces of the skin will not rot. They are stable in sunlight and are very tear-resistant. The skin loosens slightly when wet, and contracts after drying. Areas likely to be exposed to abrasion have been reinforced. However, we recommend care when approaching shore. Sharp rocks, barnacles, etc. can penetrate the skin. Never haul the boat over rocks. A patch kit is provided. Seam-sealer is supplied for waterproofing all deck seams. We recommend that you seal the gunwale and deck sponson seams from the outside; and other seams from the inside. The hull comes complete with keel and chine reinforcements. Replacement strips are available.

## IF THE SKIN IS TOO TIGHT

On hot days, or if the skin has been stored folded, it may be helpful to thoroughly wet the skin before stretching the frame.

## Tie-Downs

The shockcord across the bow deck is very handy for holding a chart. There are four strong web loops for attaching gear near the cockpit. The webbing straps across the stern deck are useful for attaching a spare paddle. Along the seam between deck and hull are web loops for attaching additional shockcord.

## Sponsons

Due to the tight fit of the skin, the sponsons are under considerable pressure and some seepage of air may occur. It is advisable to periodically reinflate the sponsons. After paddling on hot days, release air from sponsons.

### TO REPAIR/REPLACE SPONSON

The sponsons can be completely removed from the sleeve sewn to the inside of the skin. Turn the skin inside out. The sponson chamber is open at bow and stern ends. Tie a long string through the hole in the tab at the end of sponson. Pull sponson through the center opening of the chamber (where sponson hose is attached). To reinstall, pull the cord attached to the new sponson back through the chamber. Ensure sponson is not twisted in the chamber. Repeat with the opposite side. Urethane glue and patches are included in the repair kit.

## Disassembly

Let the air out of the sponsons. Remove Cockpit Coaming, seat and seat sling. Follow the assembly steps in reverse order.

## Packing the kayak in the bag

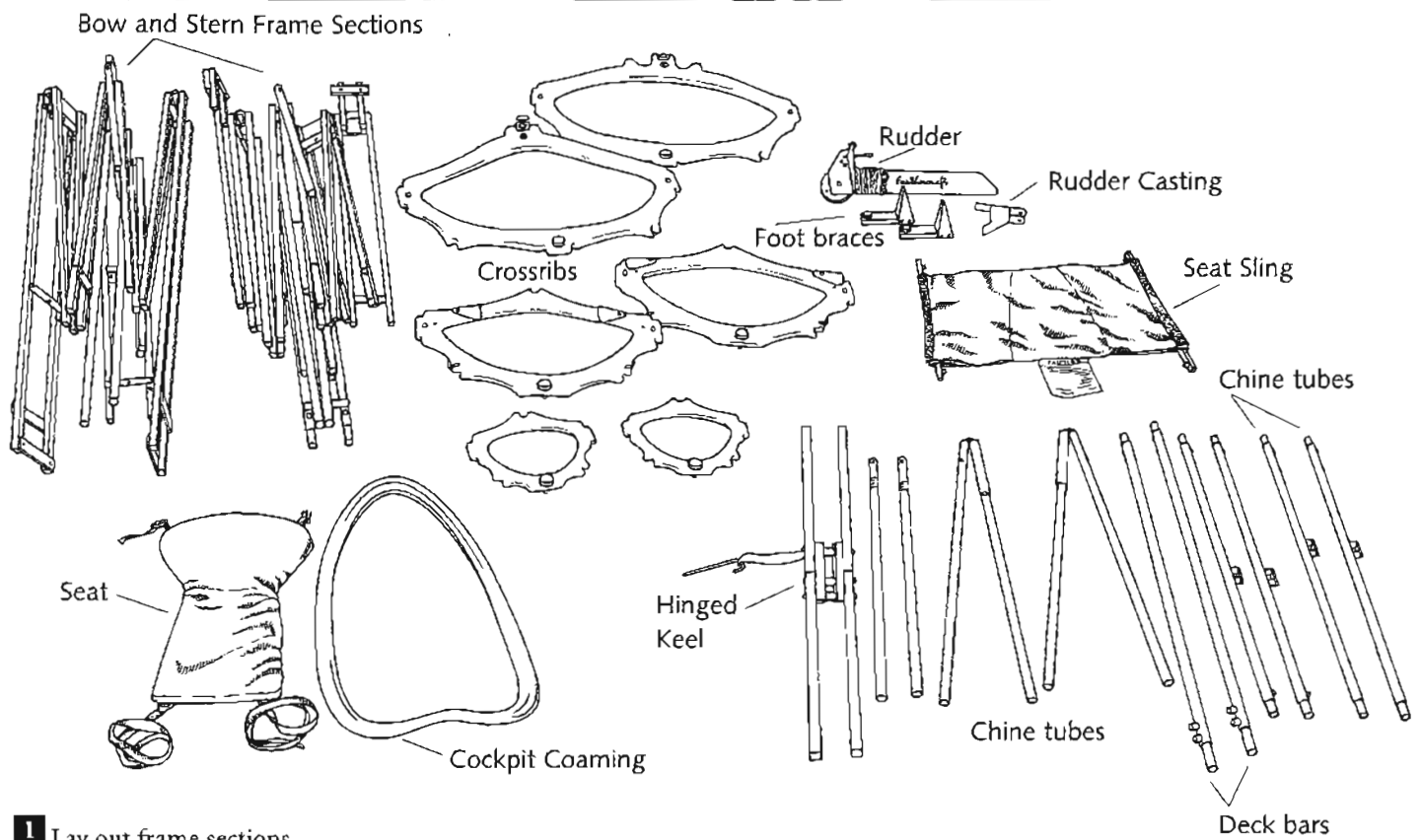
Put the seat cushion in the bag first, with the cushion facing down, to give padding for your back. Next arrange the white plastic crossribs over the seat. Stretch the sprayskirt over the fiberglass coaming. Place this in the bag, over the crossribs. Roll the kayak skin up tightly – fold the ends to the center of the kayak; fold in half; roll tightly; secure with webbing ties. Place this bundle in one side of the bag. Put all aluminum frame parts beside the rolled up skin. With all additional pieces, (ie: rudder, sea sock, repair kit) tuck these into any available space.

## Carrying a loaded Kayak

Do not lift from the bow and stern painters. It is better for one person to position themselves halfway between the cockpit and the bow and the other halfway between the cockpit and the stern.

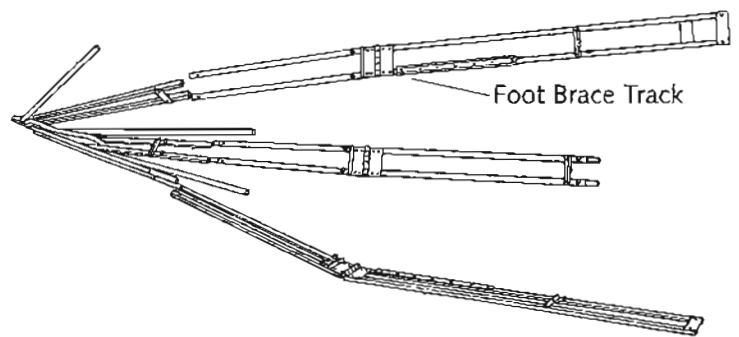
## Storage

Once dry, the kayak can be stored assembled or disassembled in a shaded, dry place.

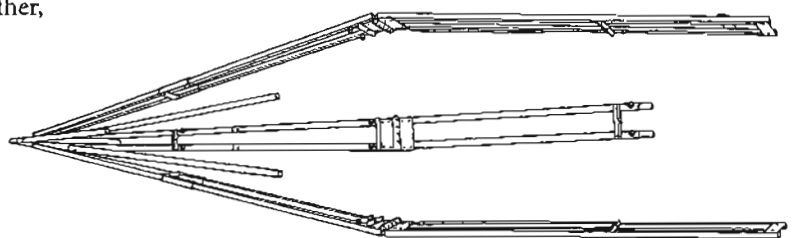


**1** Lay out frame sections.

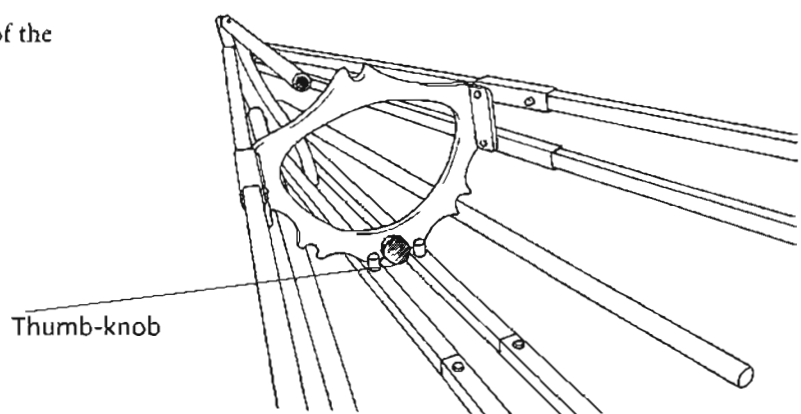
**2** Fold out bow frame. The bow frame section has sections of aluminum track on gunwales for foot braces.



**3** Sections of the frame are shock-corded. Slide these together, and attach with the spring buttons.

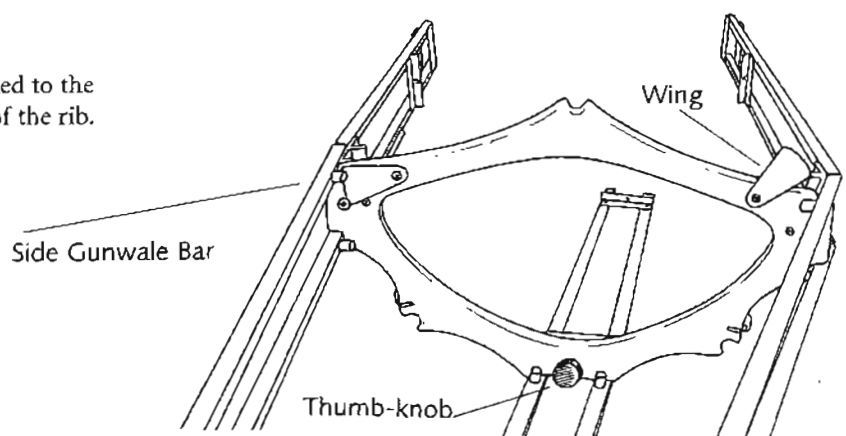


**4** Attach the small crossrib to the bottom section of the frame using thumb-knob.

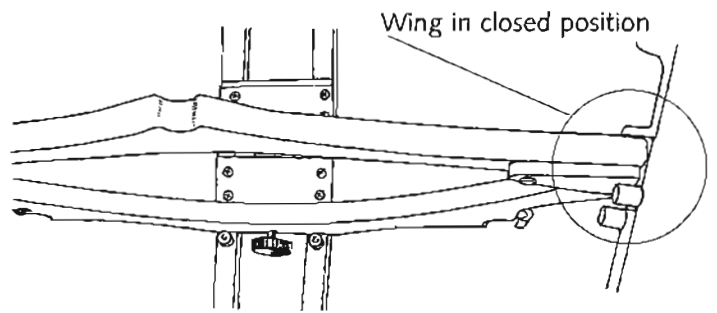


**5** Attach mid-size cross-rib.

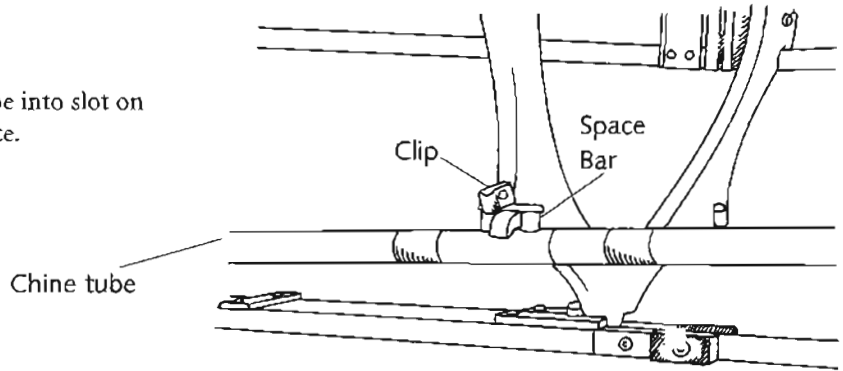
a) The bottom of the mid-size crossrib is attached to the frame with the thumb-knob on the bottom of the rib.



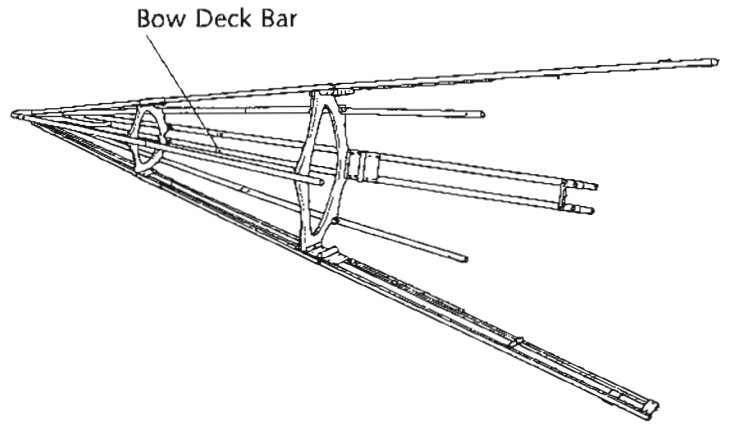
- 5** b) The sides of the rib slide into the bow gunwale bars. Close the side "wings" to fix into place.



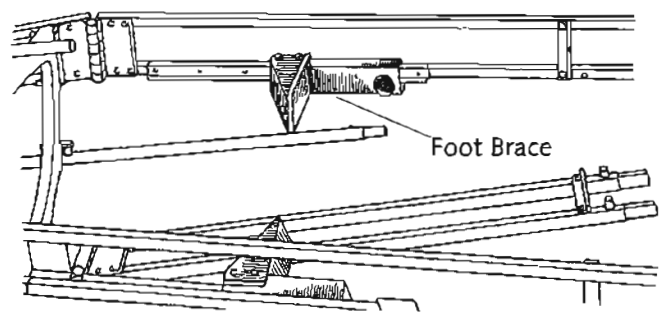
- 6** Attach bow chine tubes. Lock into place by turning spacer on chine tube into slot on crossrib. Turn clip on crossrib to lock into place.



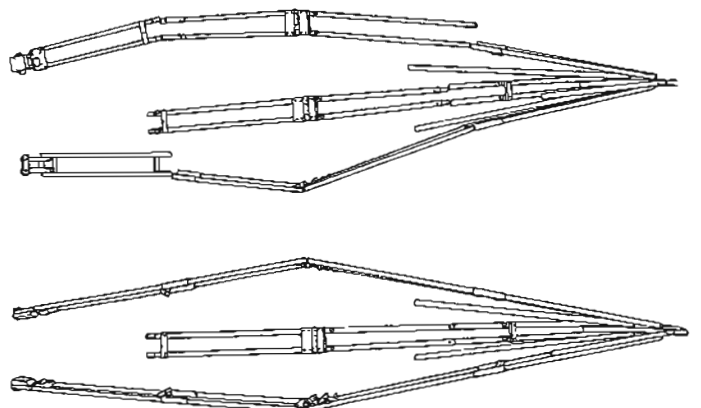
- 7** Attach bow deck bar. The deck bar has two white spacers on it. Slide on to the small bow tube permanently joined to the bow section.

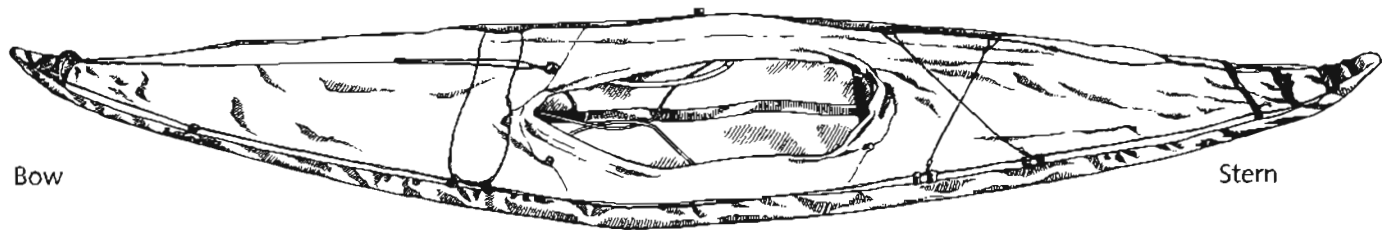


- 8** Attach foot braces.



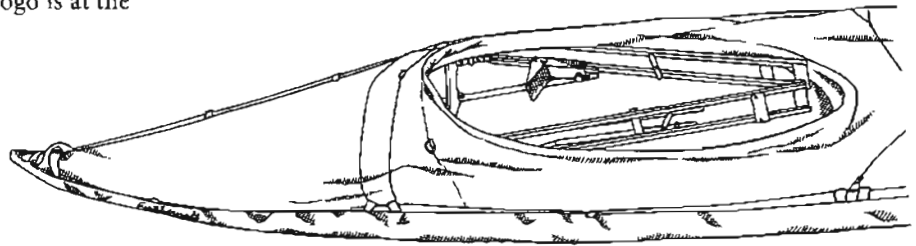
- 9** Repeat steps 2 through 7 with the stern frame section.





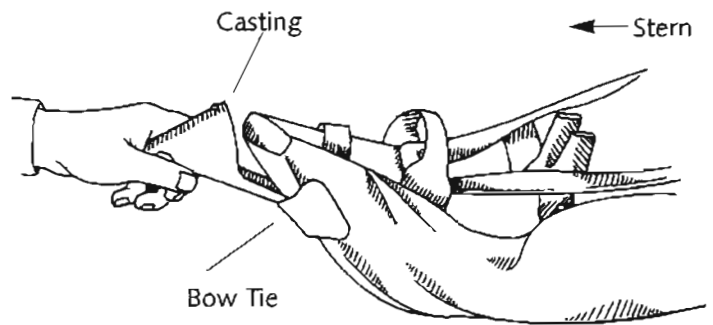
**10** a) Fold out the skin. The Feathercraft logo is at the bow end of the skin.

b) Slide bow frame section into skin.

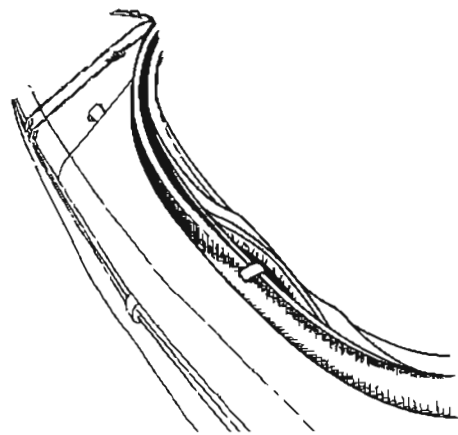


**11** Slide stern frame section into skin (as you did with bow section.)

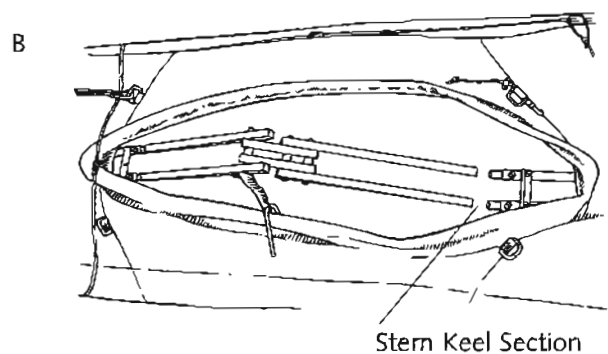
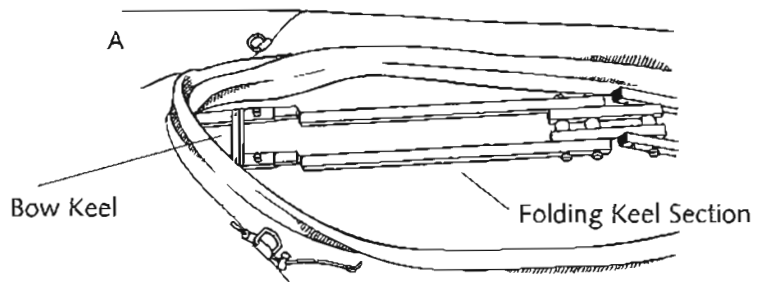
**12** Attach rudder casting. Slide rudder casting (found in the repair kit) onto the stern end of the kayak. The bottom of the rudder casting slides into the "bow-tie" loop on the stern.



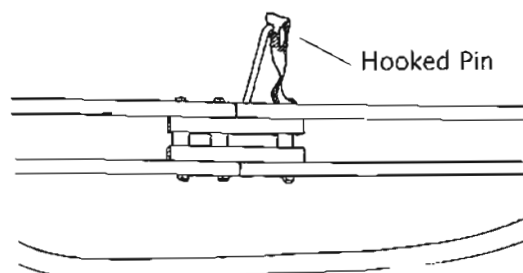
**13** Attach fiberglass cockpit rim. Center the rim over the cockpit opening with the pointed end of the rim facing towards the bow. A rubber strip is sewn inside the fabric around the cockpit opening. Insert the rubber strip into the groove of the coaming, pushing it in with your thumbs. Start by inserting a small section at the bow, and a small section at the stern, followed by the sides. The fit of the rubber strip is snug inside the groove.



**14** Attach folding keel section to bow and stern keel frame sections



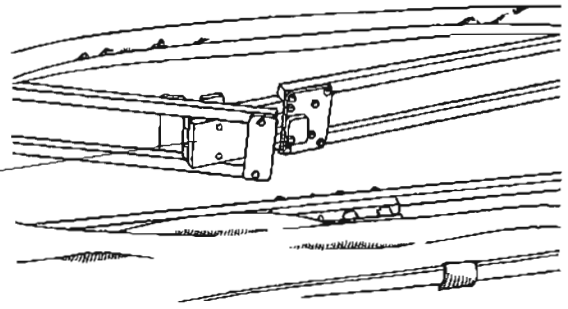
**15** Push down keel section, and lock into place with long, hooked pin.



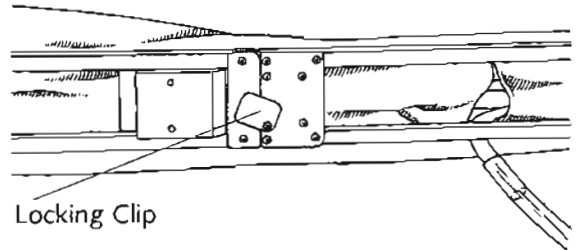
**16** Bring gunwale bars together.

a) Interlock gunwale bars, with white block coming through bar section with two aluminum bars.

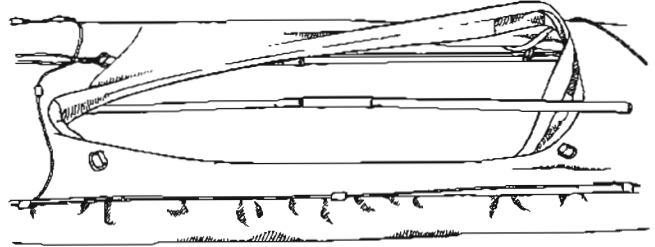
White Block



b) Push locked bars outward, toward skin. Turn locking clip to close. Repeat with opposite side.

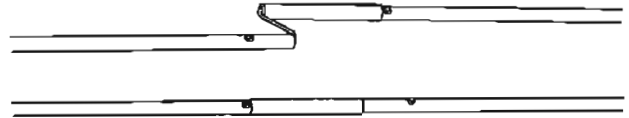


**17** Install shockcorded mid-chine bars. Attach both ends of the mid-chine bar to the bow and stern chine bars. To easily slide one tube over the other, pull chine bar towards center of kayak to align with shockcorded chine bar.

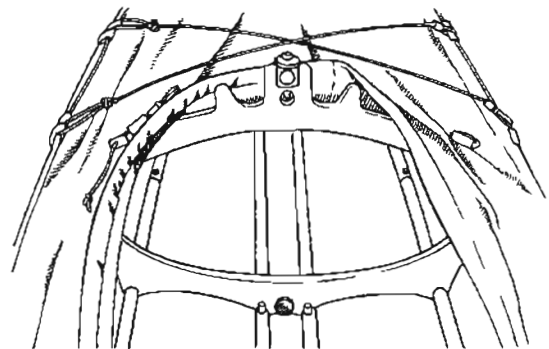


Oversleeve tube

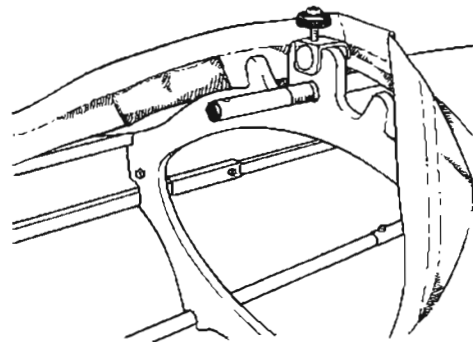
**18** Slide short oversleeve tube to connect chine sections.



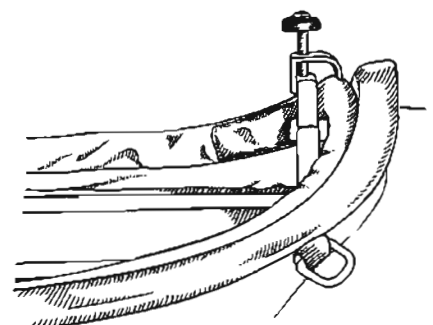
**19** Install large stern crossrib (with red dot). Unscrew coaming knob with aluminum "U".



**20** Install stern deck bar. Slide through hole at top of stern crossrib. Reach through crossrib opening, into kayak, and connect to forward deck bar section. Rotate deck bar so that the hole at the end near the plug button faces up.

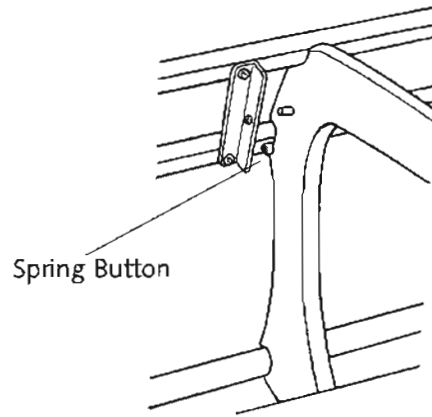


**21** Screw down thumb-knob on crossrib so that bolt extends into deck bar.



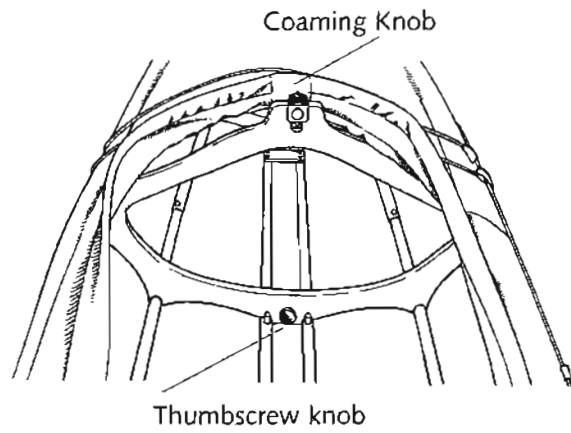
**22** Install large bow crossrib (blue dot).

- a) Depress spring button, and push crossrib so that pin enters hole in aluminum plate.



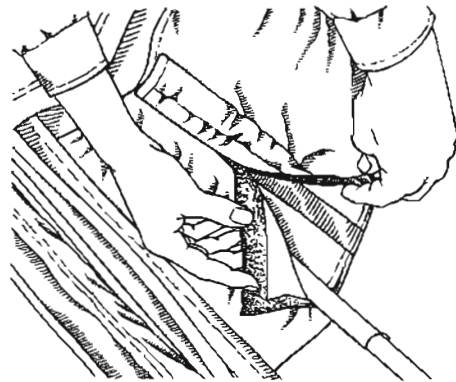
- b) Complete installation by turning thumb-screw knob at bottom of crossrib.

(Repeat steps 19 – 21 to insert bow deck bar.)

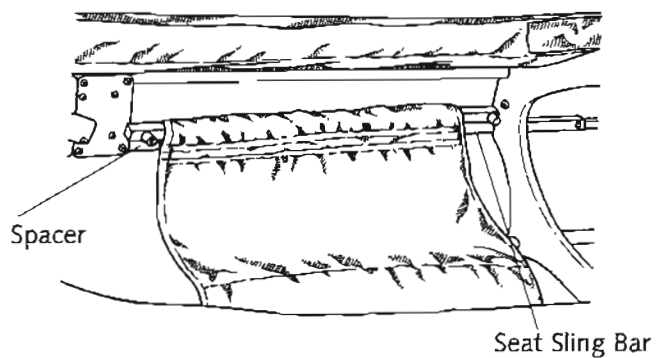


**23** Install seat sling.

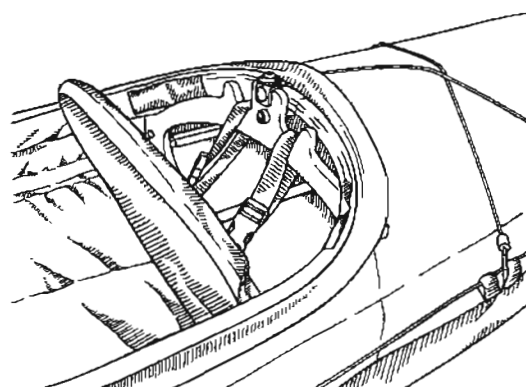
- a) The bow end of the sling has wider stitching; the stern end has narrower stitching. Starting with either side of the sling, wrap the lower section of the seat sling around the chine bar. Attach Velcro. Repeat with other side.



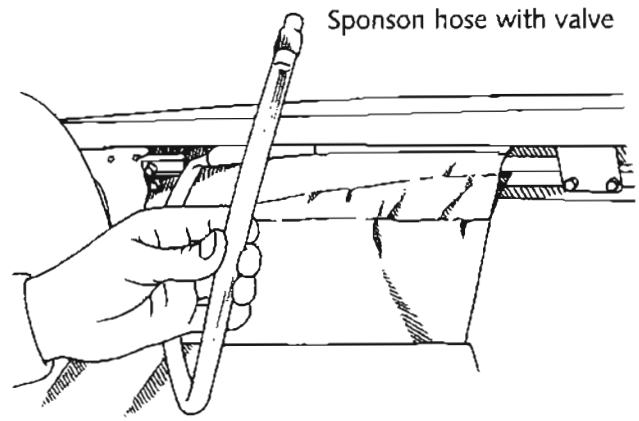
- b) The seat sling bar has white plastic spacers. Push the stern end of the bar behind the large crosspiece. The seat sling bar rests on the gunwale bar. The plastic spacer faces into the kayak. Push bow end of sling bar behind aluminum plate.



**24** Attach seat cushion.



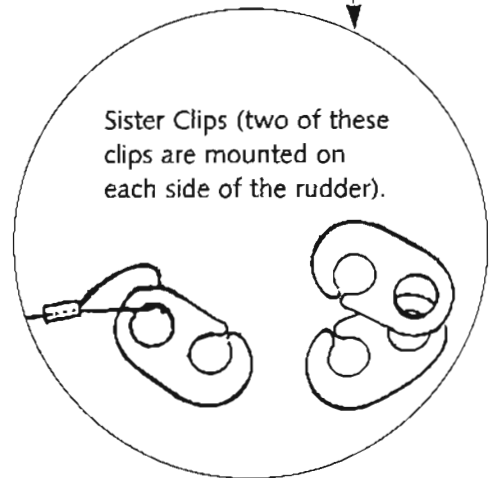
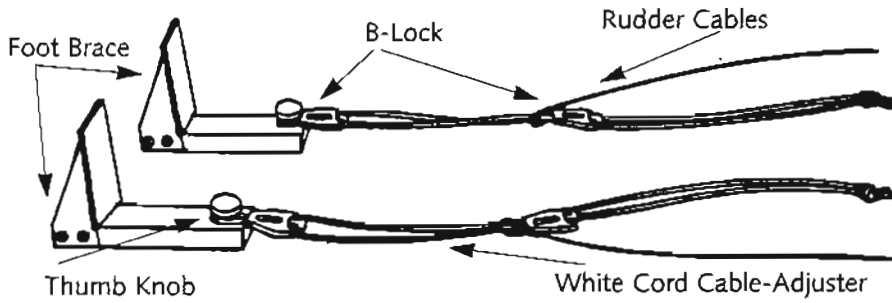
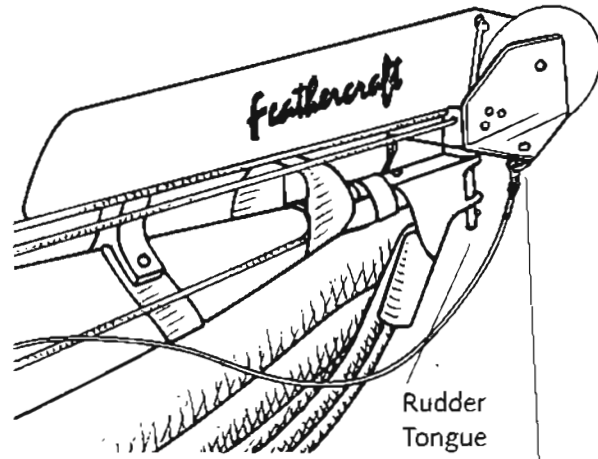
- 25** Inflate sponsons. Tuck hoses and valves out of the way so they are not stepped on.



- 26** Install rudder.

Insert "curved tongue" with keyhole under web strap on top of rudder bracket/casting. Push bottom of rudder with small pin sticking out of stainless steel shaft through the "key hole". Rotate rudder 180°. Attach cables with Sister Clips. White haul-cord is attached to clip near stern-end of cockpit.

Rudder cable adjusters (white cord) are attached to foot brace by slipping loop around black thumb knob. B-locks are then pushed into place to secure position.



- 27** Install sea sock.



#### THE FEATHERCRAFT SEA SOCK

Made from high-quality coated nylon, the sea sock is a great safety item. The top of the sock fits tightly around the cockpit coaming rim. Contoured to fit along the seatback and bottom, the "foot" is loose through the cockpit, creating a "pod". The paddler then sits in the sock. Legs and feet are not constricted. The spray skirt fits as usual. In the event of a capsize, water will only enter the sock, and not the whole boat. It's also great for keeping the inside of your kayak clean.

#### TIPS ON USAGE AND INSTALLATION

- The shiny side of the fabric faces in towards the kayak frame.
- When facing the bow of the kayak, the Feathercraft label should be on the right side.
- The center seam on the up-side of the Sea Sock should be centered on the bow point of the coaming.
- Once the Sea Sock is in place, sit in the sock, and "burp" it by lifting the edges, releasing trapped air that causes the sock to billow up.

#### Folding skin:

- Fold at middle
- Pull out sponson hoses and open valves
- Tuck ends under
- Roll up tight
- Close valves
- Tie up

