

# THE HAVEN Assembly Guide

ORU KAYAK



US PATENT NO. 8,316,788 OTHER PATENTS PENDING

WE'RE HERE TO HELP!

If you have questions, email us at [service@orukayak.com](mailto:service@orukayak.com)

## HOW TO GET STARTED

Read this entire Assembly Guide  
before assembling your Oru Kayak.

Watch the instruction video:  
[www.orukayak.com/pages/assembly](http://www.orukayak.com/pages/assembly)

Be patient! With practice your assembly  
time will get to 10 minutes or less.

# Explore outside the box.

With a few steps, the box you're looking at will unfold into a sixteen-foot long kayak that's just as fun for two people as one. It's inspired by the Japanese art of origami, and while it's not quite as easy as unfolding a piece of paper, your Oru Kayak is designed to be simple and intuitive to assemble.

With a bit of practice, your Oru Haven can be put together in ten minutes, but the first time will take longer as you learn the process and the folds break in. Be patient and don't force anything; components are custom-engineered to fit together precisely. We recommend doing it at home the first time, and also watching our assembly video.

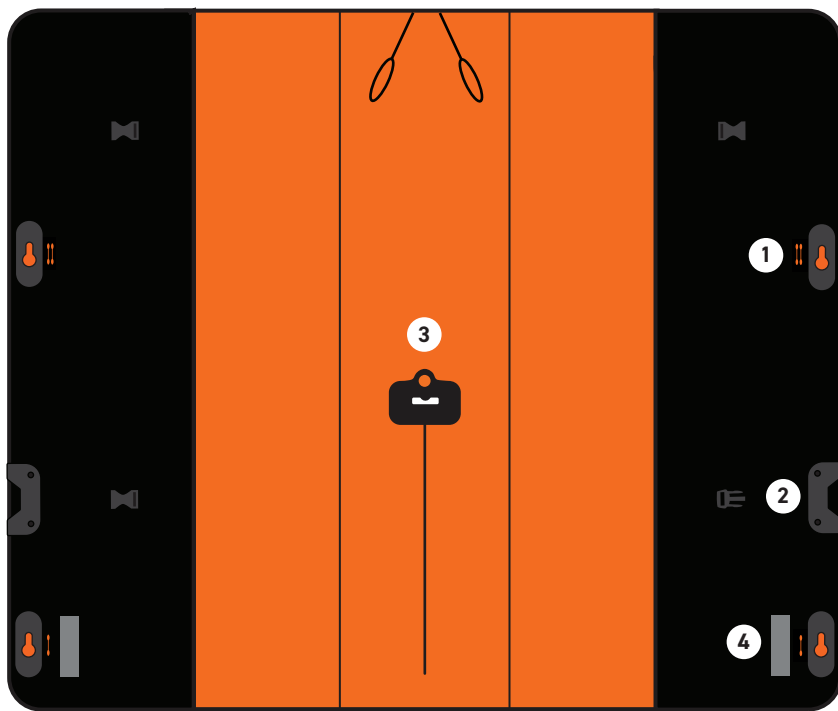
You'll be on the water in no time at all, and we can't wait to hear about your Oru Kayak journeys. Send your photos and videos to [info@orukayak.com](mailto:info@orukayak.com) or add [#orukayak](#) to share them with the community.

Enjoy your adventures!

The Oru Kayak team



# Getting Familiar floorboard components



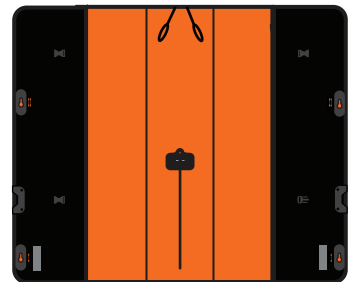
**1 Keyhole plates:** Hold the reinforcing rod in securely.

**2 Alignment plates:** Attached to the floorboards. Ensure proper installation of floorboards in boat.

**3 Seat column plates:** Connect to the seat column holding the seat system in place.

**4 Bowties:** Allow you to easily set up multiple seating configurations.

**5 Bow floorboard:** Reinforces kayak bottom and holds the front seat.



**6 Stern floorboard:** Reinforces kayak bottom and holds the rear and middle seat.



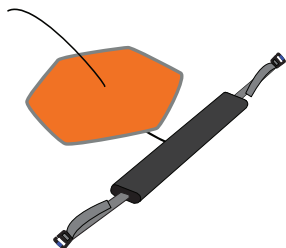
# Getting Familiar

assembly components

- 1 Shoulder strap:** Used to carry the kayak when in box form. Stow behind you while kayaking.



- 2 Bow footrest/bulkhead:** Attached to the front half of the kayak. Used in both the tandem and single paddler configuration.



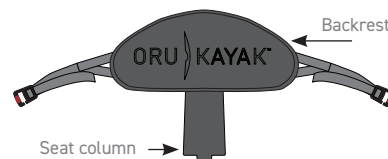
- 3 Cockpit tracks:** Attached to the skin. Connect the floorboards to the skin and provide a track for mounting accessories.



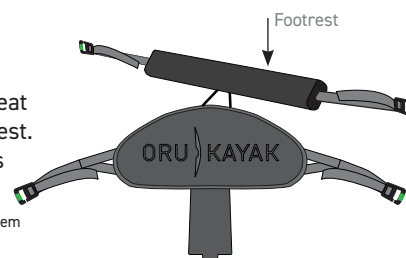
- 4 Bulkhead channels:** Attach to the inner hull. Hold the two bulkheads in securely.



- 5 Stern backrest:** Includes the seat column and adjustable backrest. (Note: This backrest is used in both the tandem and single paddler configuration.)



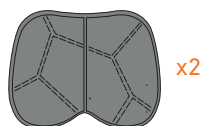
- 6 Bow backrest:** Includes the seat column and adjustable backrest. An attached footrest provides bracing for the rear paddler. (Note: This backrest is only used in the tandem configuration.)



- 7 Stern (back) bulkhead:** Provides structural rigidity.



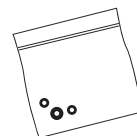
- 8 Seat pads:** Tuck under the bungee in the floorboard.



- 9 Reinforcing rod:** Adds additional rigidity to the kayak.



- 10 Spare parts kit:** Extra hardware for repairs and upkeep.



## Step 1: Open the box

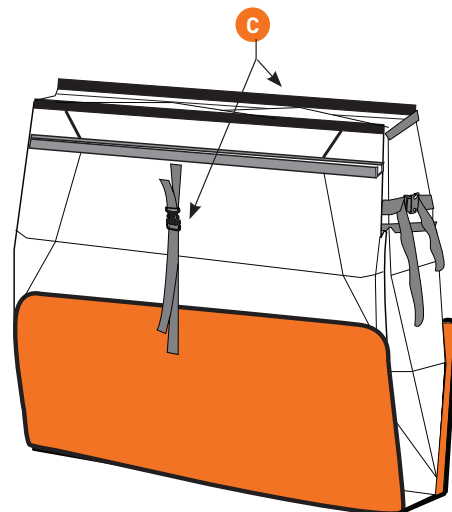
The box contains all the components needed for assembly.

- A** Unclip the shoulder strap from the D-rings on either side of the box. Set the shoulder strap aside (you won't need it while kayaking).

- B** Loosen and unhook the G-hook fasteners from either side of the lid. This will release the floorboard on top. Remove and set aside.

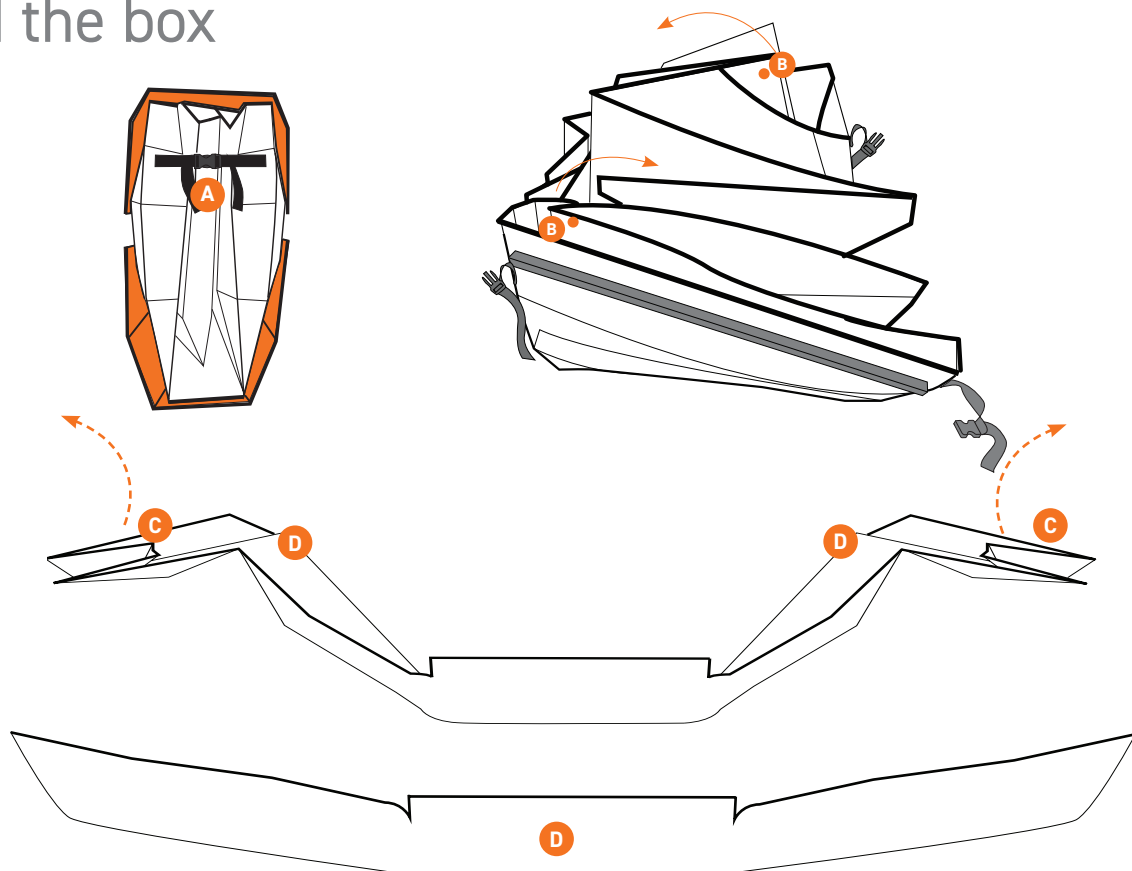
- C** Unclip the center buckle on either side of the box. This will release the floorboard on the bottom. Lift the box off and set aside.

The box becomes the kayak's hull and deck.



## Step 2: Unfold the box

- A** Unclip the side buckles that are keeping the kayak closed.
- B** Hold the two folds at the orange stickers. Pull as indicated in the illustration to open. The skin will be stiff.
- C** Pull the two flaps indicated in the diagram out to extend the box into a long sheet.
- D** Pop the hull flat with your hands as you extend it, pushing down the inverted folds, creating a bowl shape.

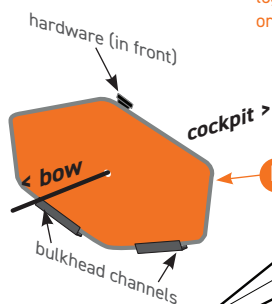
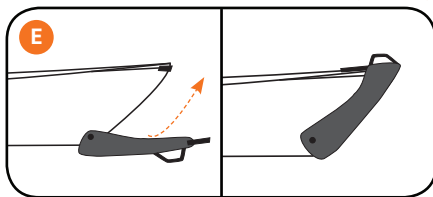
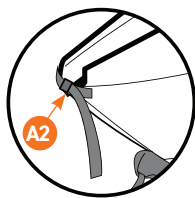
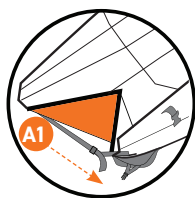


### TIP

For help on this step, reference the assembly video at [www.orukayak.com/pages/assembly](http://www.orukayak.com/pages/assembly)

## Step 3: Close the front of the kayak

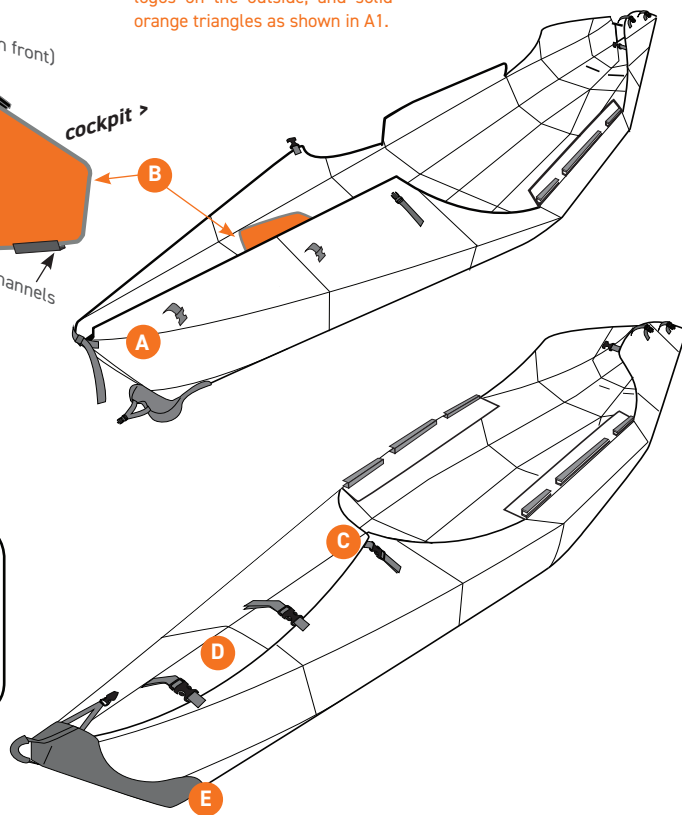
- A** 1 Make sure the end is inverted correctly.  
2 Fully tighten the end strap at bow. See note.
- B** Place the attached bow bulkhead in the bulkhead channels. You may have to hold it there while starting the next step.
- C** Place the flap with the curved edge over the flap with the straight edge, as shown. Connect the cockpit side release buckle. Make sure the hardware is in front of the bulkhead. Tighten by pulling the strap.
- D** Buckle the other two straps. Tighten by pulling the strap.
- E** Stretch the front fairing over bow, and clip the small buckle onto the deck buckle. Tuck the end strap into the fairing.



**NOTE**  
If the fairings won't stretch over, make sure the ends are inverted (see 3A1.)

### NOTE

The front of the kayak has orange logos on the outside, and solid orange triangles as shown in A1.

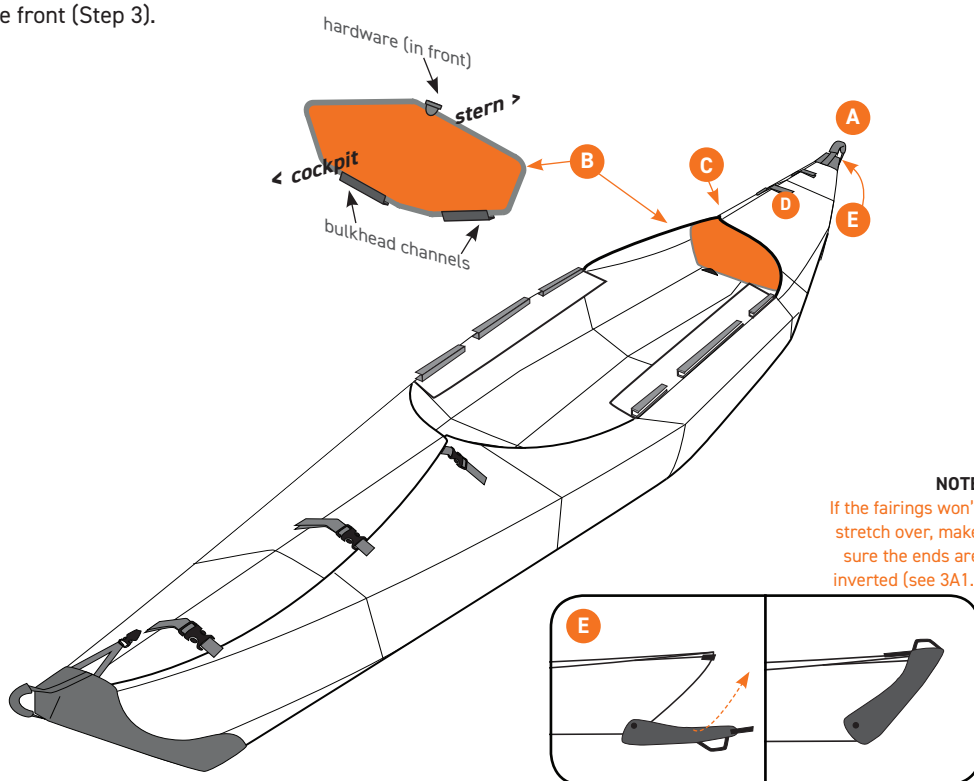




## Step 4: Close the back of the kayak

Closing the back of the kayak is similar to closing the front (Step 3).

- A** Make sure the ends are inverted correctly. Fully tighten the end strap at stern (back).
- B** Place the loose stern bulkhead in the bulkhead channels as shown. You may have to hold it while starting the next step.
- C** Place the flap with curved edge over the flap with straight edge, as shown. Connect the cockpit side release buckle. Make sure the hardware stack is in front of the bulkhead. Tighten by pulling the strap.
- D** Buckle and tighten the other two straps.
- E** Stretch the rear fairing over stern, and clip the small buckle onto the deck buckle. Tuck the end strap into in the side of the fairing.

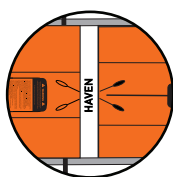


### NOTE

If the fairings won't stretch over, make sure the ends are inverted (see 3A1.)

## Step 5: Insert the floorboards

- A** Orient the floorboards relative to the hull as shown.

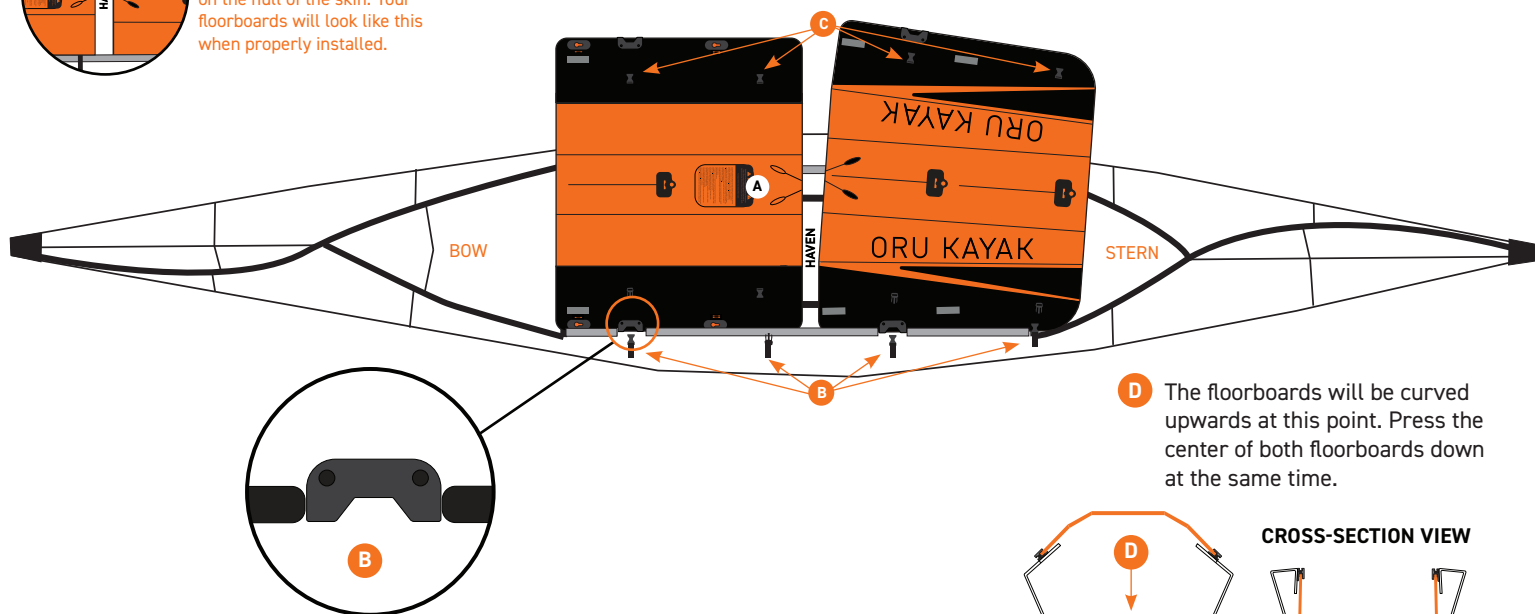


### CLOSE-UP

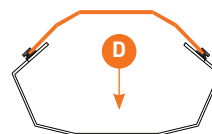
Make sure the paddle graphics match the graphics located on the hull of the skin. Your floorboards will look like this when properly installed.

- B** Place the alignment plates into the gap between the track. Insert **one side of both floorboards** as shown and connect the four corresponding buckles. Make sure the straps are tight before proceeding.

- C** Repeat on the other side, connecting the remaining four buckles on the boat to the floorboard. Make sure the straps are tight before proceeding.



- D** The floorboards will be curved upwards at this point. Press the center of both floorboards down at the same time.



### CROSS-SECTION VIEW





For Tandem  
Assembly  
reference  
pages 11-12  
and 15



For Single  
Paddler  
Assembly  
reference  
pages 13-15

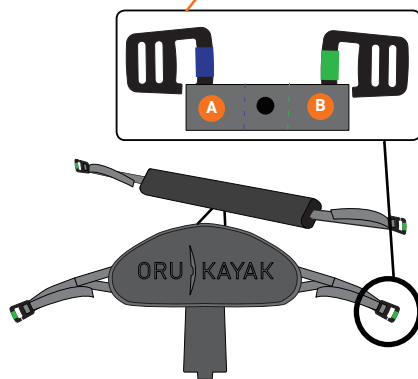
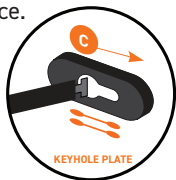
## Step 6: Insert the bow seat/footrest and rod

### TANDEM

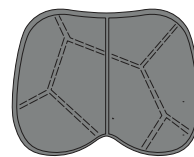
- A** Using the G-hooks on the bow (front) footrest, connect to the **blue** stitching loop on the frontmost bowtie.

- B** Insert the seat with the attached footrest into the forward most seat column plate. Connect the **green** seat back G-hooks to the same bowtie as the bow footrest (blue and green bowtie).

- C** Install reinforcing rod into rear keyholes on sides of cockpit: insert tube head on each end of rod into keyhole and gently tap rod backward to lock into place.

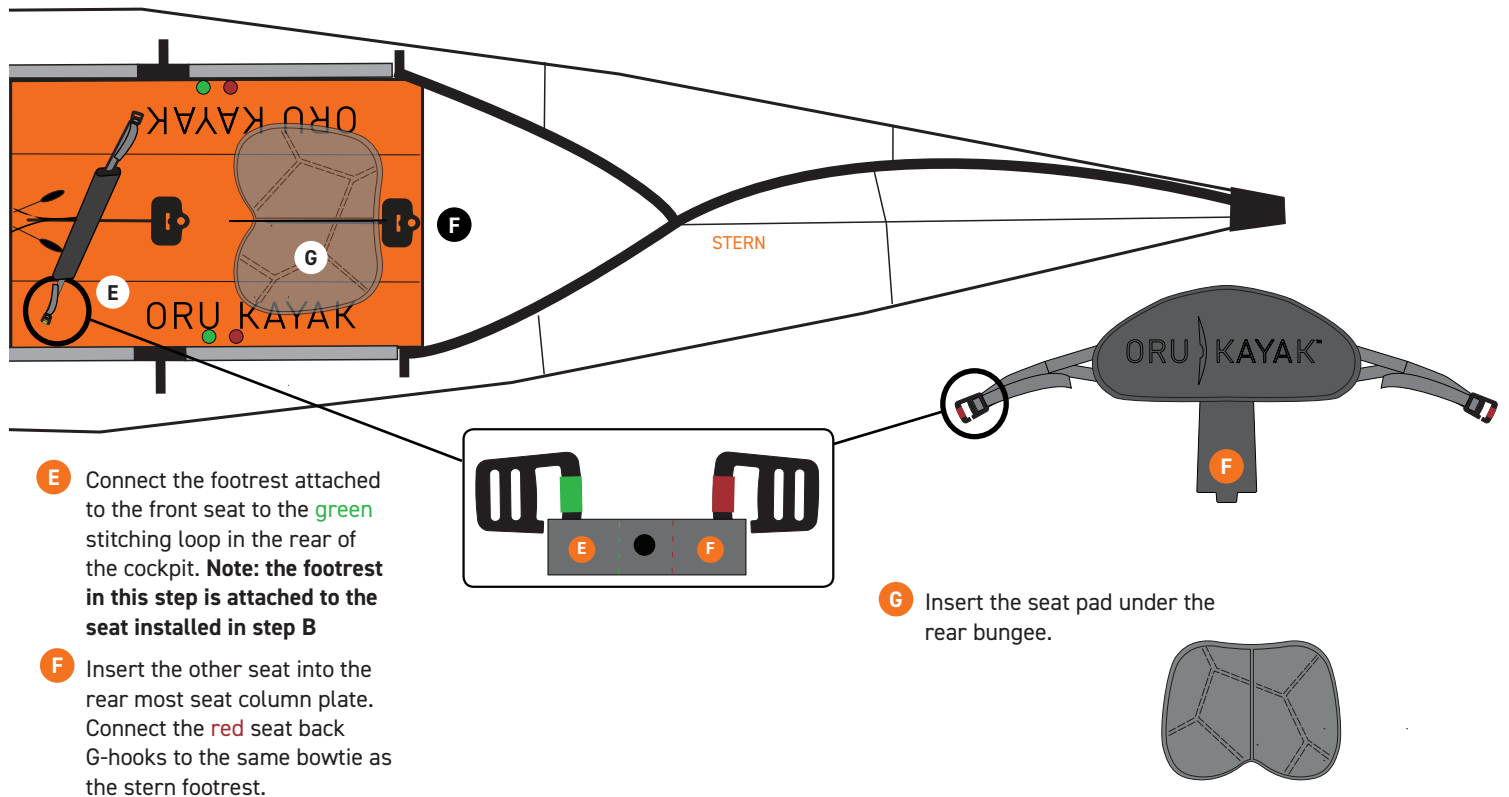


- D** Insert the seat pad under the front bungee.



## Step 6: Insert the stern seat/attaching footrest

### TANDEM

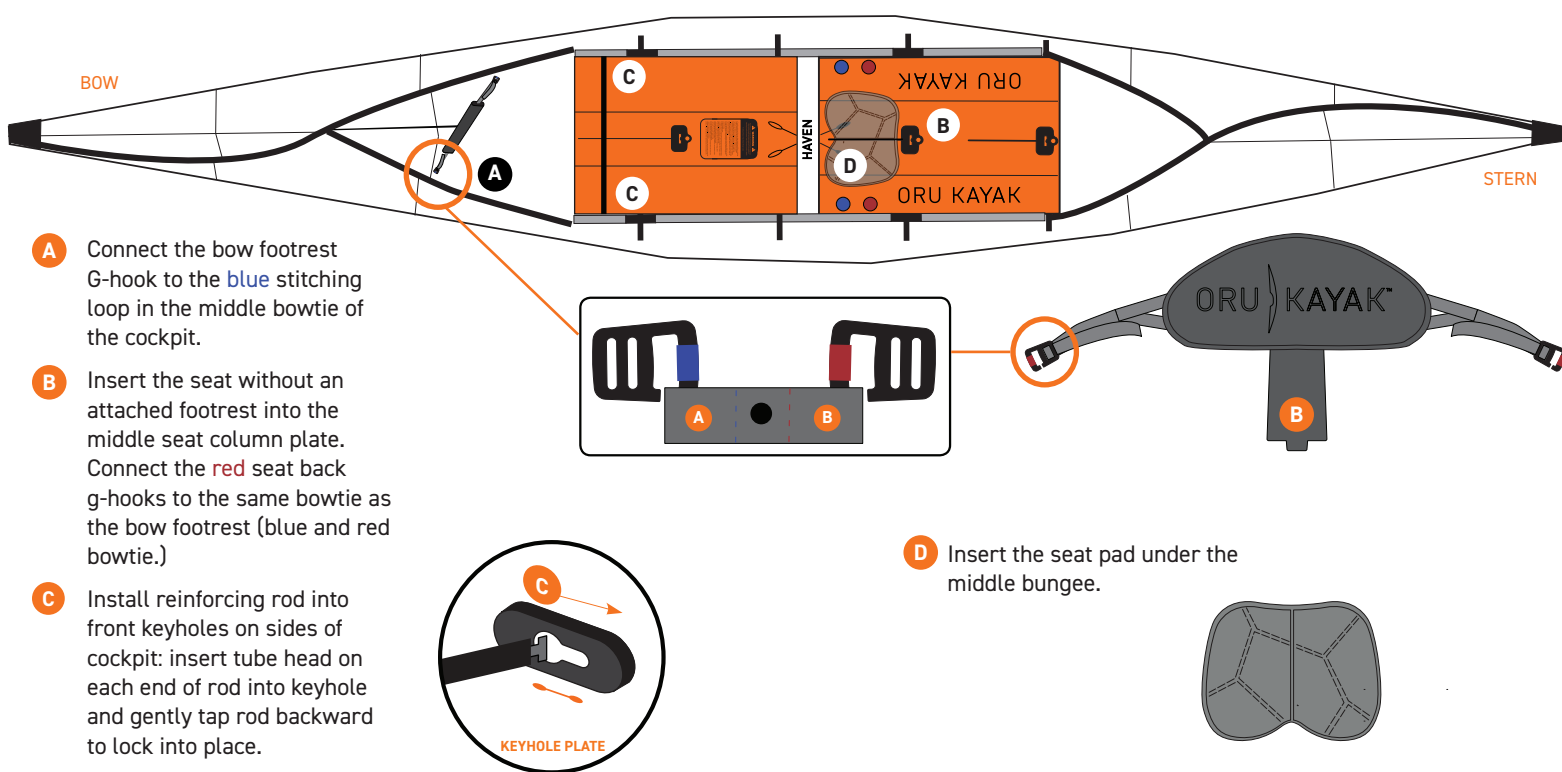




## Single Paddler Assembly

## Step 6: Insert the stern seat/attaching footrest

### SINGLE



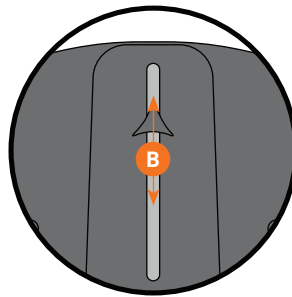
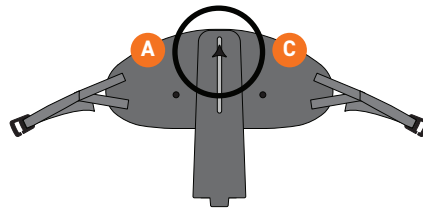


# Final adjustments

## BEFORE YOU GET IN:

### ADJUST THE BACKREST

- A** Loosen the knob on the rear of the seat one full turn counter-clockwise (over-turning may cause the knob to fall off.)
- B** Slide the backrest to the desired height.
- C** Re-tighten the knob until the seat back is secure.



## ONCE YOU'RE IN:

### ADJUST THE BACKREST AND FOOTREST TENSION

- D** Tighten, or loosen the seatback straps, while leaning against the backrest. To tension the strap, pull the taught strap to the desired position and then cinch the slack.
- E** The footrest should keep your legs comfortably bent, with your knees splayed outward. To adjust its distance from you, tighten or loosen adjustable straps.

#### TIP

The backrest should provide support, with your lower back and buttocks forming a 90-degree angle, with your chest slightly forward

#### WARNING

Do NOT attempt to carry the assembled kayak loaded with gear. Carry gear separately.

## ASSEMBLY CHECKLIST

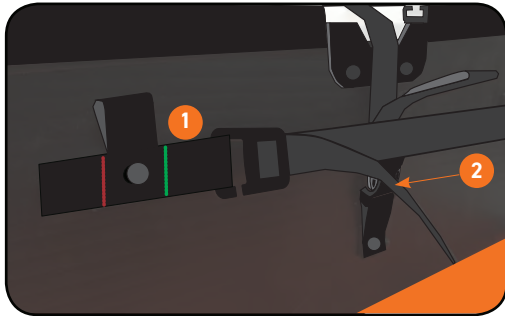
- Bow and stern bulkheads are in bulkhead channels.
- Both ends of reinforcing rod are locked into keyholes.
- All footrest and seat buckles are hooked and tightened.
- All deck buckles are secure.
- Bow and stern straps are tight and the fairings cover both ends.

Congratulations!  
Your Oru Haven is ready for the water.

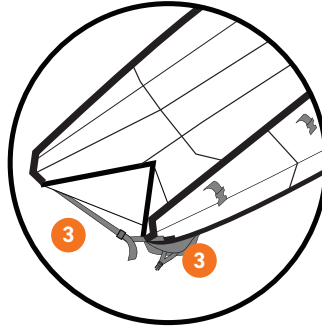


## Back on land: Folding your Oru Kayak into its box

Disassembling the Oru Kayak is basically a reversal of the assembly; however there are a few tricks. Follow these simple directions to learn how to pack your Oru Kayak back into its box quickly and easily.



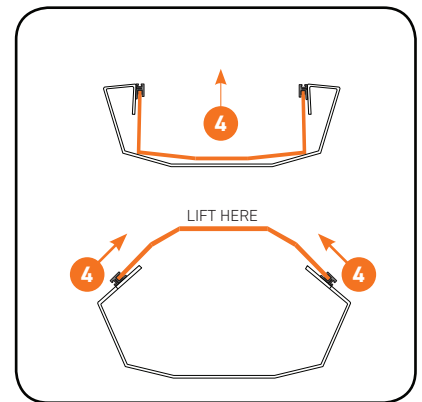
- 1 Unhook all G-hooks, removing any seat backs, seat pads, and footrests. Remove reinforcing rod from keyholes by gently tapping forward. Detach seat backs from floorboards.
- 2 Moving from bow to stern, unbuckle and loosen all side-release buckles.



- 3 Pull off both fairings and fully loosen both end straps.

FOR STEP-BY-STEP VIDEO INSTRUCTION  
WATCH THE ASSEMBLY VIDEO:  
[www.orukayak.com/pages/assembly](http://www.orukayak.com/pages/assembly)

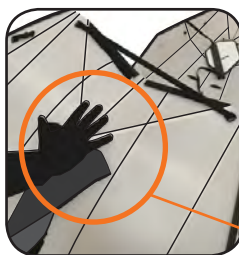
**TIP:** Some water may collect inside the plastic corrugated flutes. To let it drain, stand the assembled kayak vertically for about 10 minutes.



- 4 Lift up both floorboard to remove. If rubber trim sticks in channels, try wiggling it.
- 5 Remove bow/stern bulkheads. Note: the bow bulkhead will remain connected but should be outside of skin before starting the next step.

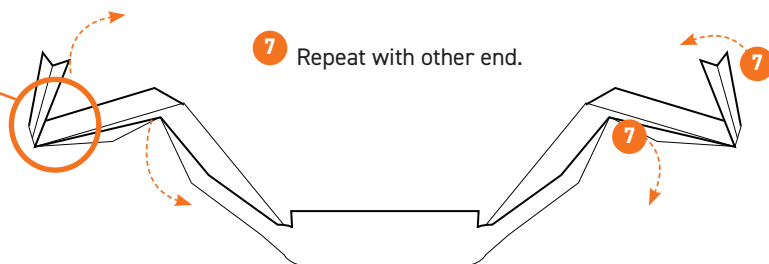
## Back on land: Folding your Oru Kayak into its box

- 6 Fold either bow or stern inward like an accordion. Using your knee helps!

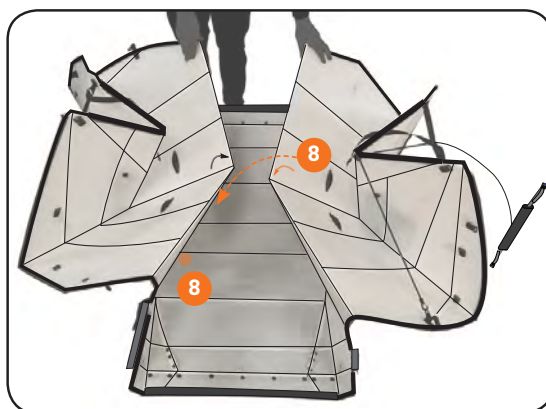


### CLOSE-UP

Make sure the inverted fold is flat when folding your boat up. The end strap will be completely loose as shown.



- 7 Repeat with other end.

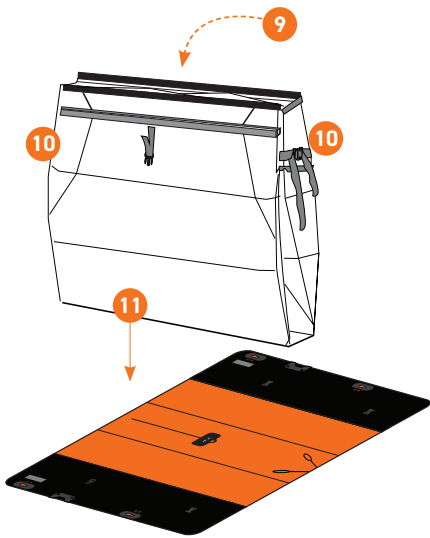


- 8 In a twisting motion, push the orange arrow towards the orange target, and the black arrow towards the black target until the box is formed.

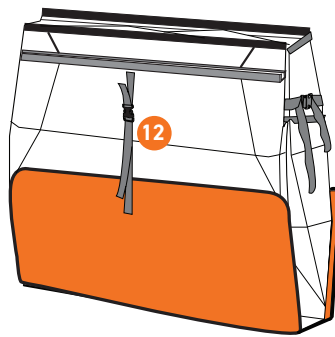
### TIP

Go slowly to make sure the edges of the kayak do not snag, creating unnecessary wear.

## Back on land: Folding your Oru Kayak into its box



- 9** Put all loose components in the kayak box.
- 10** Fully tighten the box closure straps.
- 11** Place the bow floorboard (has single column plate) on the ground with the print facing up. Place the folded boat on top, covering the seat column plate.



- 12** Lift each side of the floorboard and connect the female buckle to the male buckle below the track.

**FOR STEP-BY-STEP VIDEO INSTRUCTION**  
**WATCH THE ASSEMBLY VIDEO:**  
[www.orukayak.com/pages/assembly](http://www.orukayak.com/pages/assembly)



- 13** Place the stern floorboard on top of the folded boat. Connect the G-hook to the black loop on the center bowtie. Fasten securely.
- 14** Connect the shoulder strap to the D-rings on either side of the box. (You will find them on the box closure straps.)

