



How to Align the Skimmer 45[®] Runners

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Iceboats do not sail well when the runners are out of alignment. All runners should face 0° when properly aligned. If toed out, 350° for example, or toed in, 10° for example, your boat will not sail. These instructions will help you check your alignment, and then correct it if needed. Happy Sailing!

Check Alignment

Tools Needed:

1. Two large Carpenter Squares (24" x 16")
2. Yardstick or other straight edge

Procedure:

1. Assemble and set the Skimmer[®] on a flat surface with the runners mounted [without the mast and sail].
2. Place the short [16"] side of one carpenter square on the ground inside the right runner as shown in photo 1.
3. Place the short side of the other carpenter square on the ground inside the left runner as shown in photo 2.
4. Place the straight edge against the long edges of both carpenter squares.
 - a. If the edge is flush, as shown below, the runners are in alignment – go have fun as shown in photo 3.
 - b. If the edge is not flush follow the alignment directions on the next page.

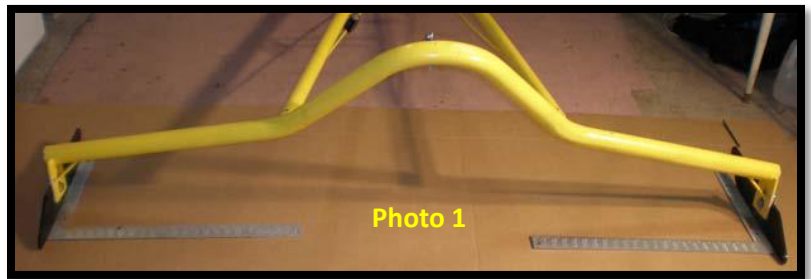


Photo 1

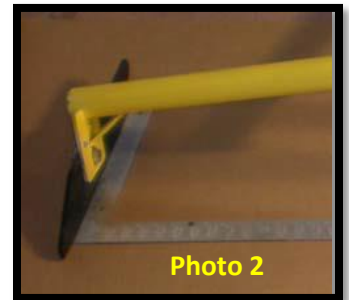


Photo 2



Photo 3

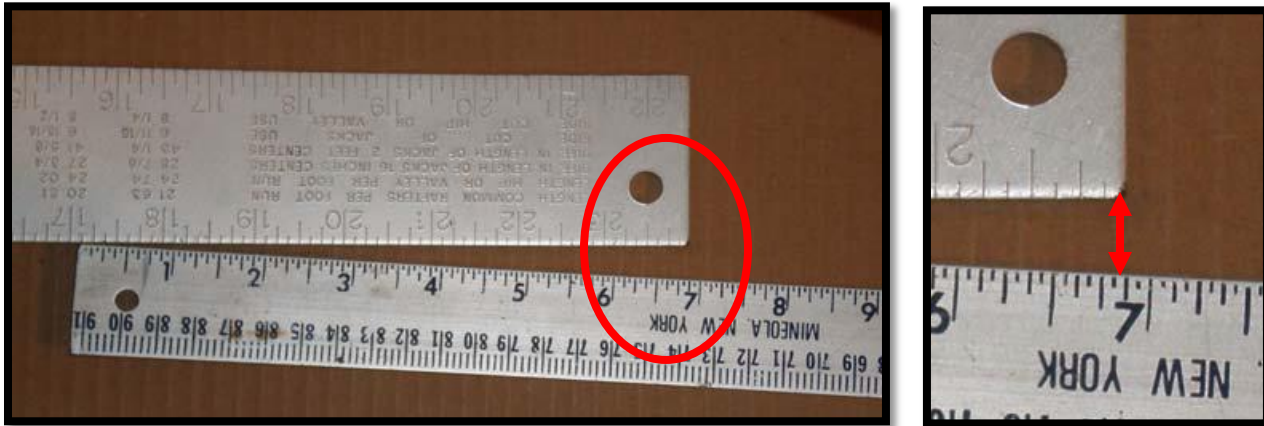
Alignment Directions

Tools Needed:

1. Two large Carpenter Squares (24" x 16")
2. Yardstick or other straight edge
3. Your favorite welder*

Procedure:

1. Measure the gap between the straight edge and the end of the long edge of the carpenter's square as shown below.



2. Weld* a small piece of metal to the front or back of the chock to align the runner. The thickness of the welded piece should match the gap measured in step 1 of this process.
 - a. If the runner is toed in, add metal to the front of the chock until the runner is square (photo 3).



- b. If the runner is toed out, add metal to the back of the chock until the runner is square.

* You can drill a hole in the chock, insert a screw and then ground the end to the correct distance in lieu of welding.