

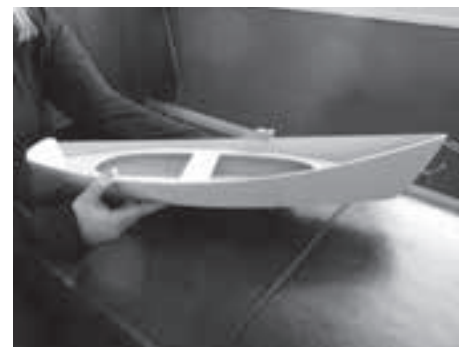
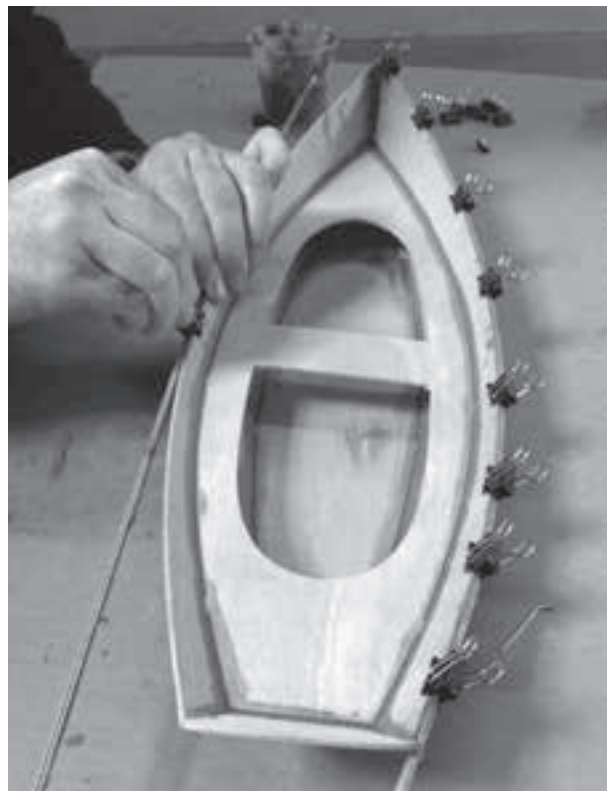


CHESAPEAKE LIGHT CRAFT

THE BEST BOATS YOU CAN BUILD

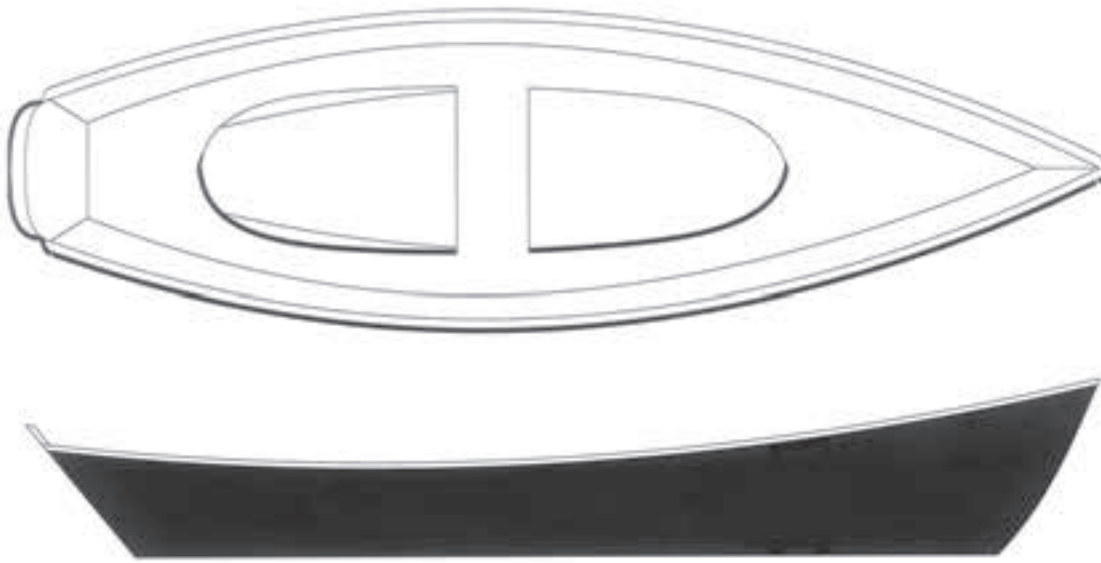
How to Build a Simple Dory Model

Simple Dory Model Kit



Version 1.3

Thanks for your purchase! Enjoy building this 24-inch by 7-inch Banks-style dory.



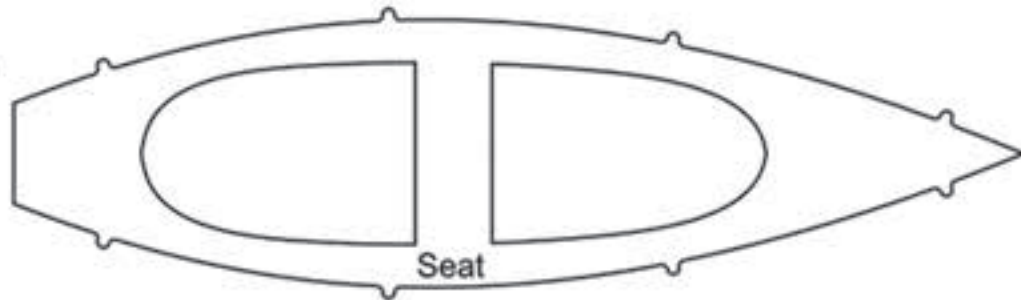
Model Dory Parts



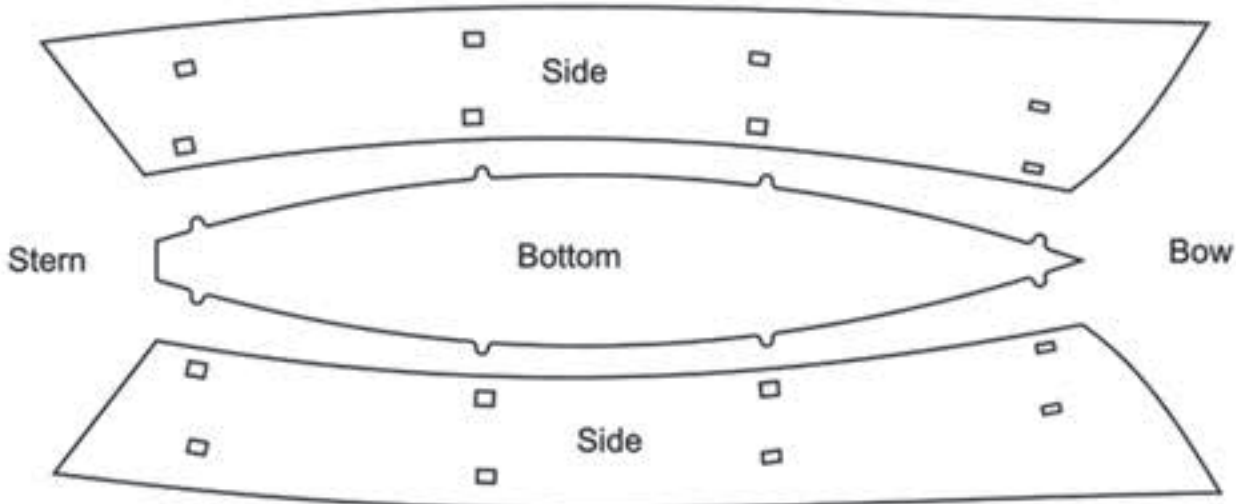
Rails (Three)



Transom



Seat



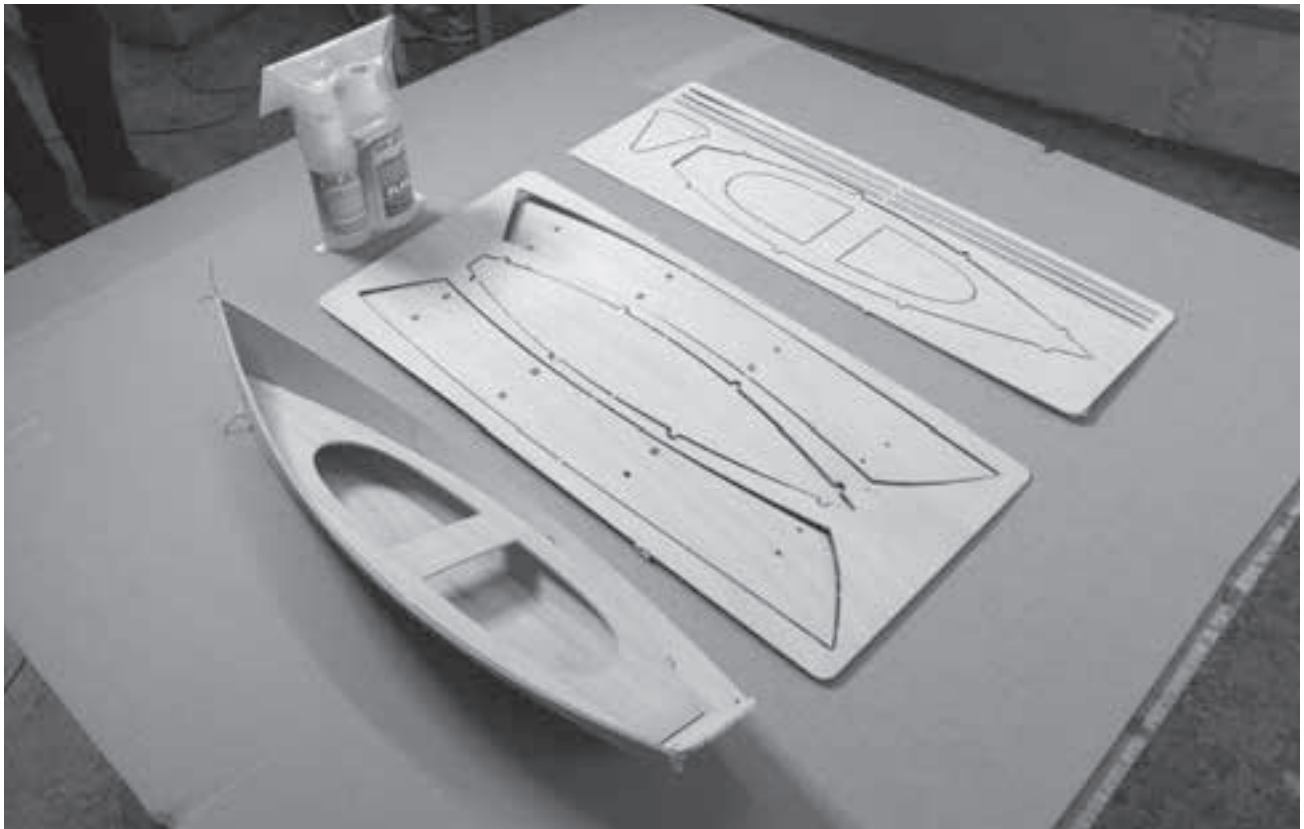
Side

Bottom

Side

Stern

Bow



Here are the kit parts for the dory, with an assembled version alongside. The kit comprises two rectangles of 3mm plywood containing the parts. The kit also includes a length of copper wire, and, if you've elected, an MAS Epoxies "Handy Repair Kit," an epoxy syringe, gloves, and a bit of very fine wood flour. (Use baking flour---not sawdust---if you don't have wood flour.) For tools, you'll need wire cutters, a pair of ordinary pliers, a razor knife, and a little 120-grit sandpaper.

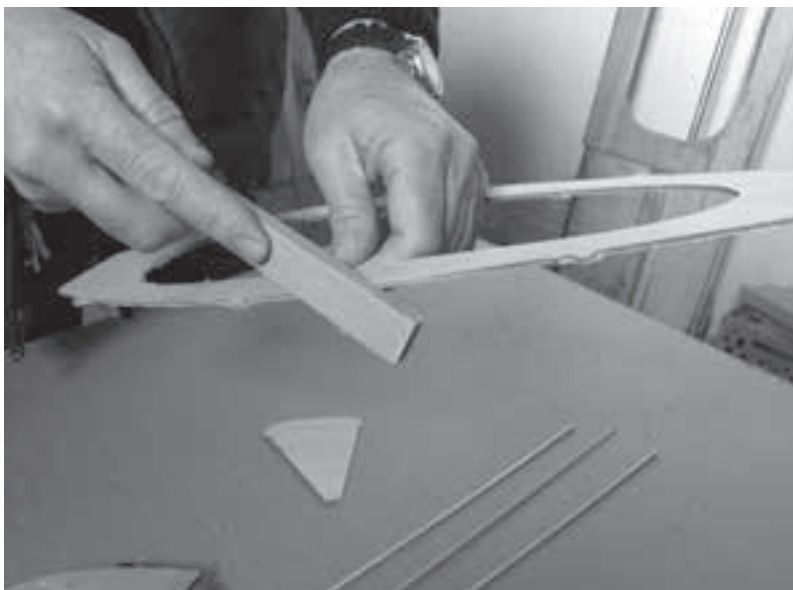


Begin by removing the parts of the hull from the plywood rectangles. Use a sharp razor, and be careful!



The “tabs” that held the parts in the rectangles should be sanded smooth.

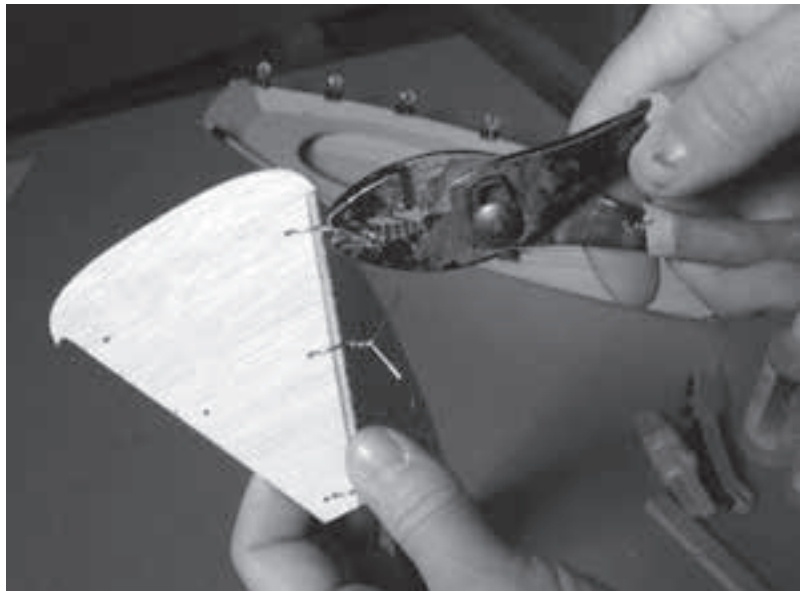
As you sand off the “tabs” left by the computer cutter, be careful to distinguish between the “tabs” that held the parts, and the larger “tenons” that are actually a part of the boat kit. (See page 2.)



Cut about a dozen 4-inch-long lengths of copper wire.



Begin hull assembly by wiring the transom onto one of the two sides as shown. You'll pass the wire through the holes in the sides and the transom, then twist them tight with a pair of pliers.



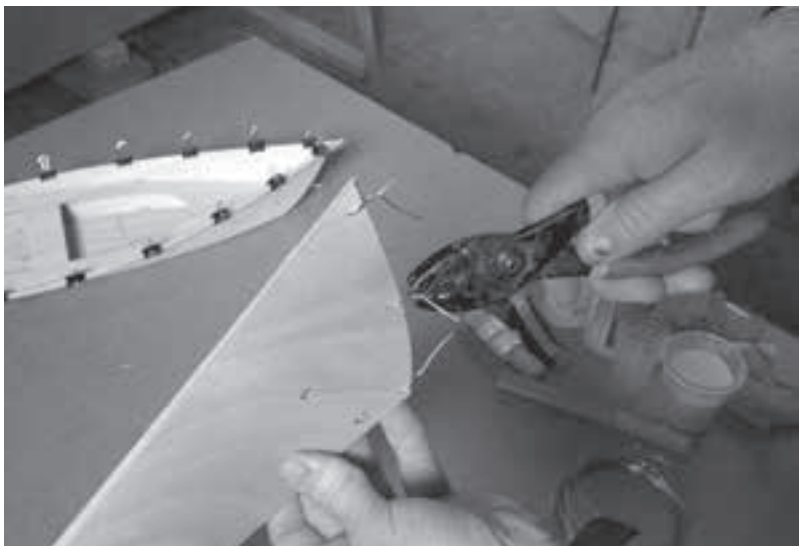
Here's the transom wired to the right side of the boat.



Next, stitch the two side panels together at the bow. (The bow is the curved end.)



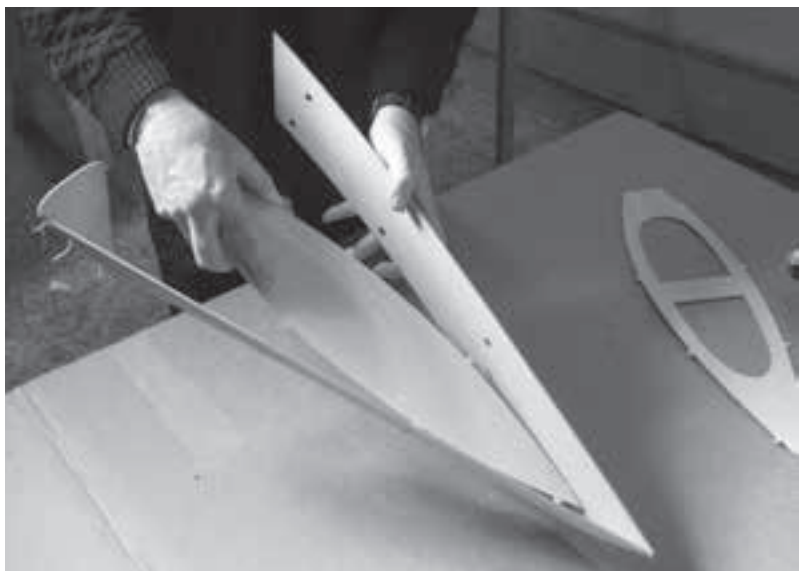
Twist the three wires tight just as you did with transom.



At this stage, you have a V-shaped assembly that doesn't look like a boat. The sides are fastened together at the bow, and the transom is wired to one of the sides at the stern.



Slide the bottom into place as shown here. Its "tenons" will click into the holes at the bow.

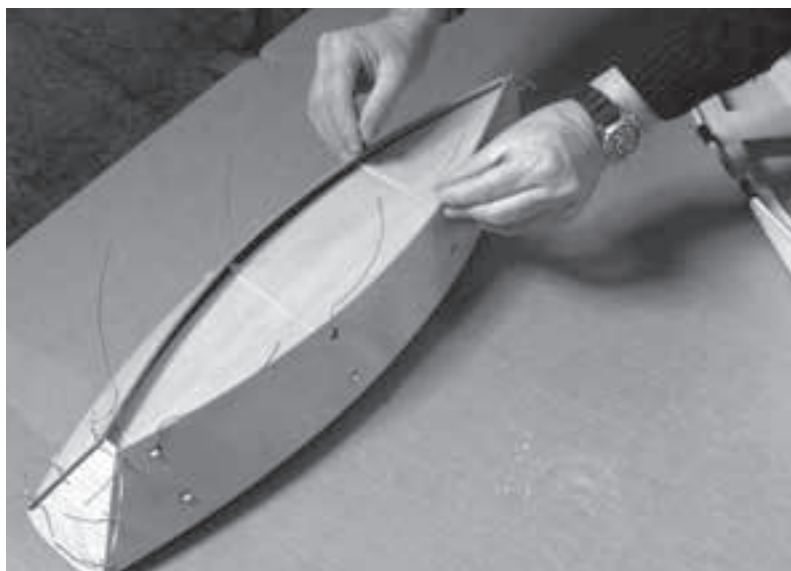


Bring the side panels together gently. The sides will bend around the bottom and the tenons will engage in the matching holes in the sides.

Wire the left side to the transom now. This will hold the bottom in place.



There will be gaps between the sides and the bottom. You'll close these gaps by passing a bit of wire across the span of the bottom as shown here, through the holes cut in the sides.



Use a pair of pliers to twist the ends of the wires together. The dory will begin to assume its final shape.

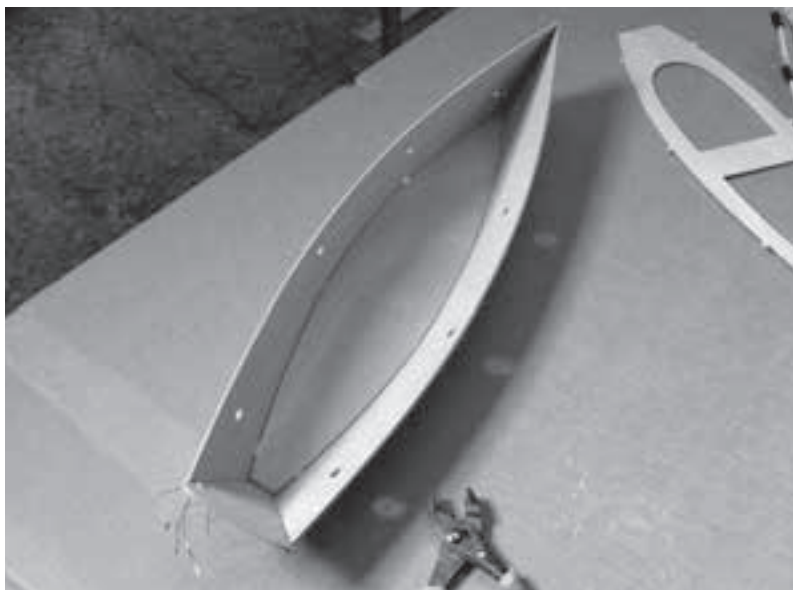
You may break one or two wires; that's okay. Just replace them.



Tightening the last bottom wire at the stern.



At this point, the bottom will be a nice tight fit, but the hull shape isn't quite right.



Gently press the seat into the hull, snapping its tenons into the matching holes in the sides. This will complete shaping of the hull!



Now you need to mix epoxy to fasten the hull together permanently. You'll need a few ounces to start.

Mix TWO PARTS resin to ONE PART hardener in a small mixing cup.

Remember, the ratio must be accurate or the epoxy will not cure. You cannot speed up or slow down the cure by modifying the ratio of resin to hardener.



Mix the epoxy carefully for at least a minute.



Now add a few pinches of wood flour (or baking flour) and stir until you have a mustard-like consistency.

This "thickened epoxy" mixture will allow you to weld the seams of the model together.



Load the thickened epoxy into a syringe from the top....



....and insert the piston in the syringe.

Notice we're wearing gloves while working with epoxy! Never get epoxy on your skin.



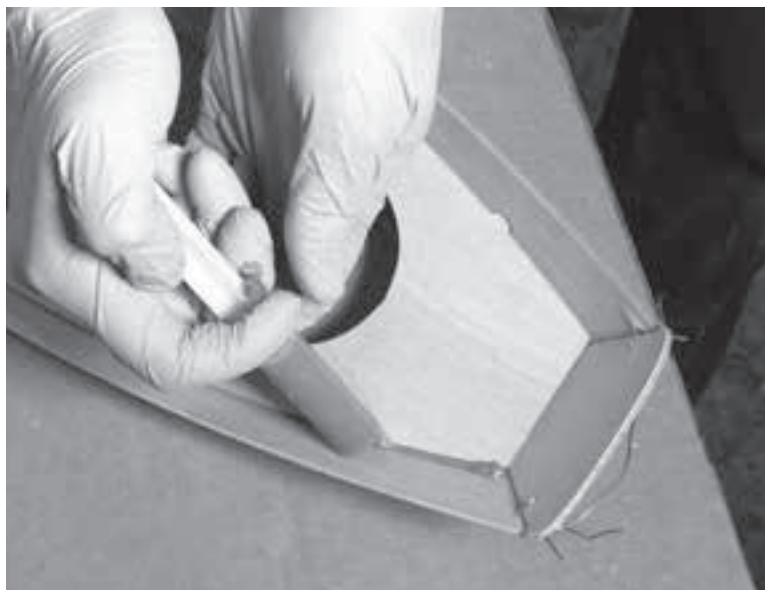
With the syringe, apply a smooth bead of epoxy to the seam on the outside of the hull between the side and bottom as seen here.



Apply a bead of epoxy to all of the interior seams as well.



Here, we are applying epoxy to the seam between the seat and the sides.



Also apply a bead of epoxy around the transom seams.

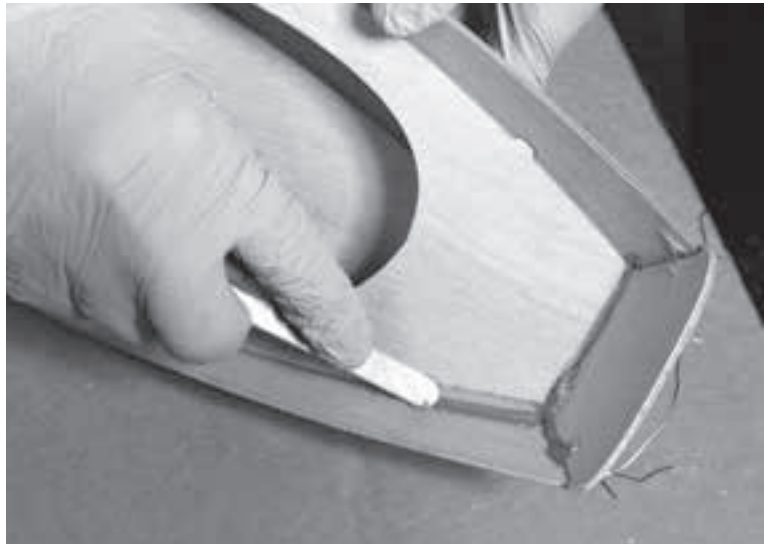


Apply a bead of epoxy to the bow as well as well.

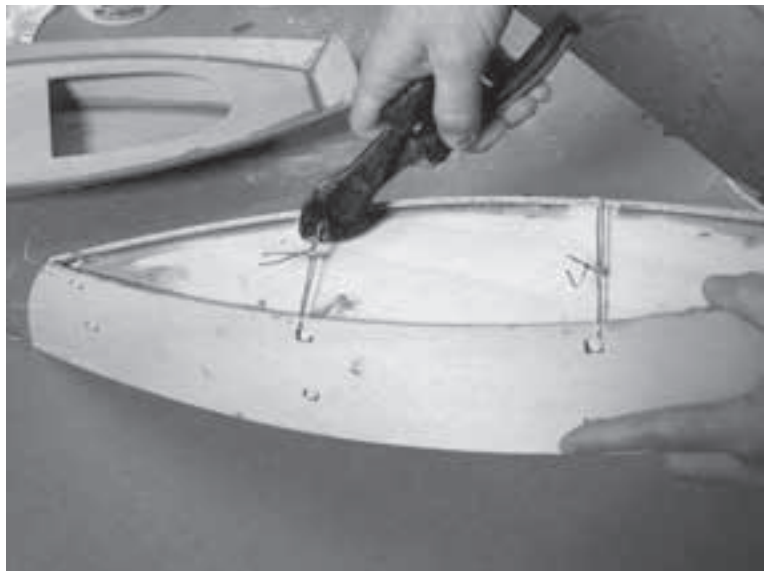


When you are done with the syringe, use a small stick with a rounded end ---a popsicle stick---to smooth the epoxy in each seam. Try to make these as neat as you can! The epoxy is very hard to sand smooth once it cures.

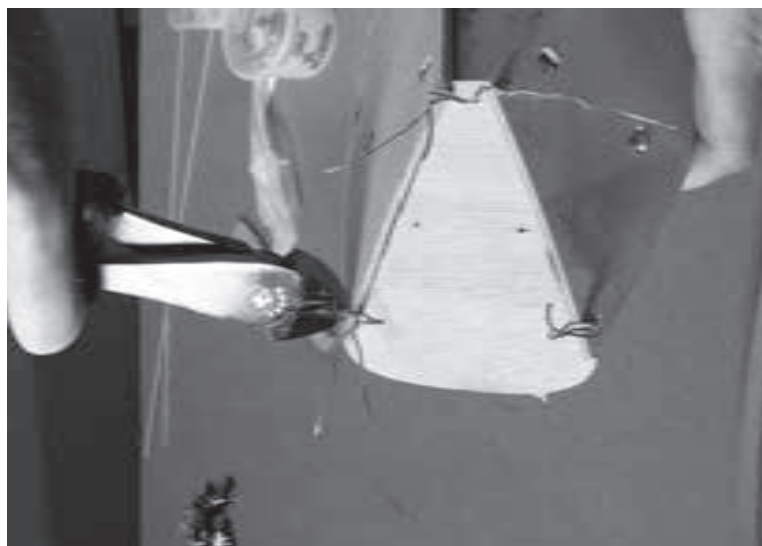
Allow the epoxy to cure for at least 24 hours at room temperature.



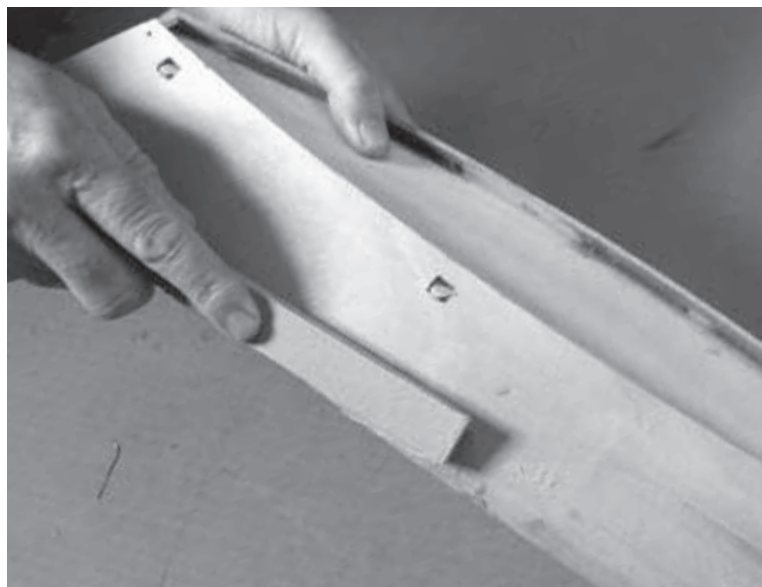
When the epoxy has cured as hard as rock, you can snip the wires that held the hull together and gave it shape.



Snip the wires at the transom and bow and pull them out. If the wire is stuck, use a lighter to heat the wire for a moment, then try again. The heated wire will soften the epoxy and make it easier to pull out.



Sand the protruding “tenons” flush with the hull.



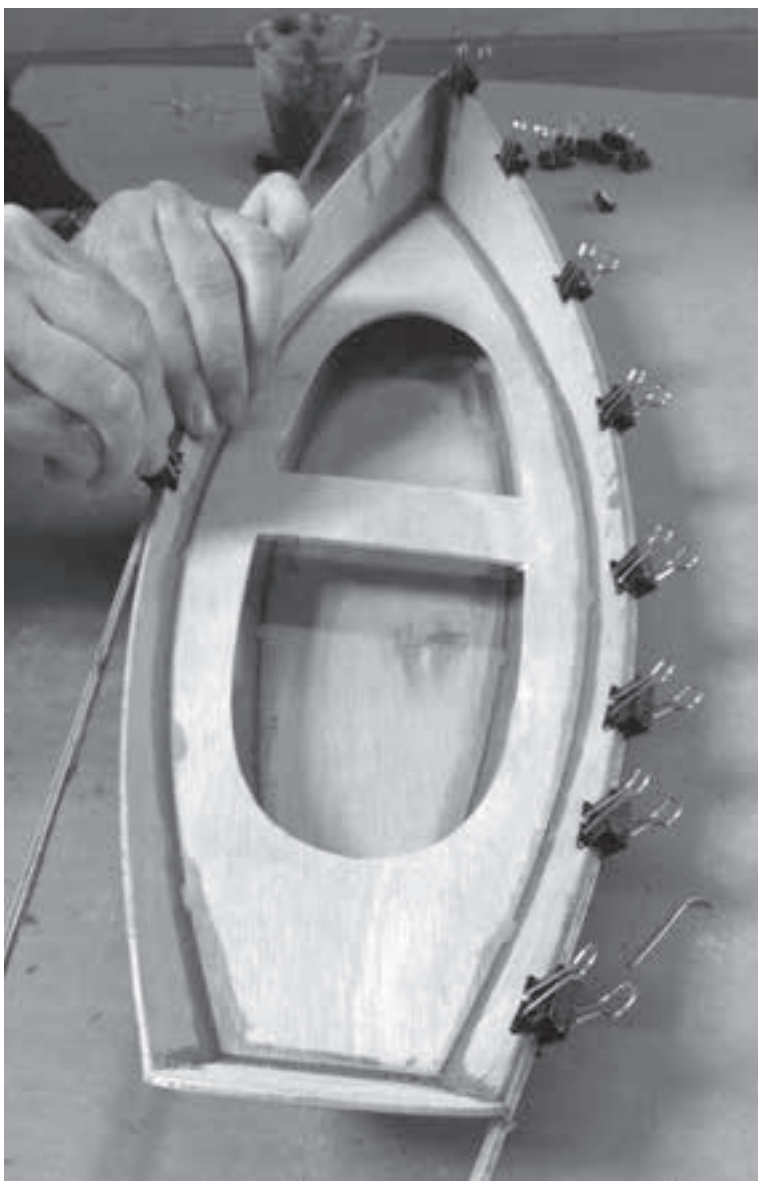
Mix up another batch of epoxy thickened with wood flour. Finish any seams you weren't able to reach because wires were in the way, and fill any open gaps in the sides as shown here.



We have given you three rails in the kit in case you break one. Apply plenty of thickened epoxy to each rail as shown.



Use cheap paper clips as shown to clamp one rail to the top of the side panel.



Here are the rails epoxied in place. The rails are extra-long. Let the extra extend out the back as seen here.



When the epoxy has cured for 24 hours, cut off the rails flush with the transom.



Sand everything smooth with 120-grit or 220-grit sandpaper.



With epoxy filler, the holes in the sides will disappear. The filler sands smooth.

Apply a few coats of paint or varnish in any color you choose! We used green for the hull, white for the hull sides, and varnish for the seat.



Enjoy your dory model!





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