























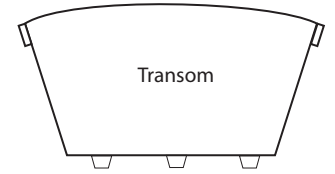
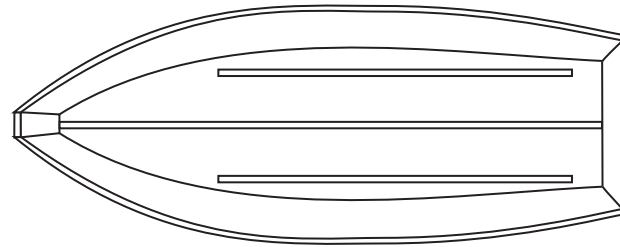
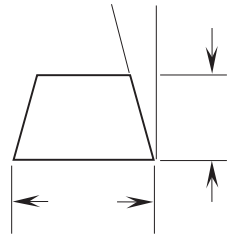




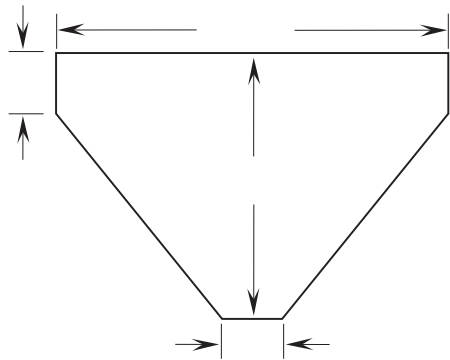
# Sheet #14 ~ attaching runners and building the daggerboard trunk

## Attach bottom runners

Note: If you are building the boat to sail, the runners are not normally used.

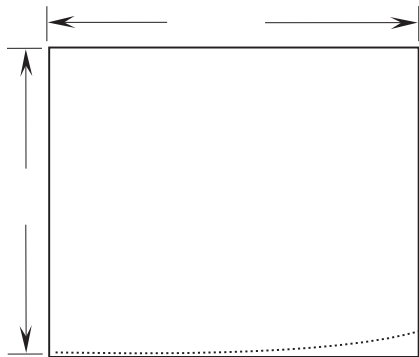
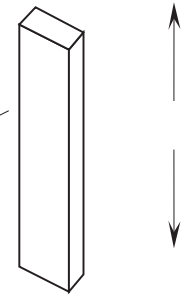
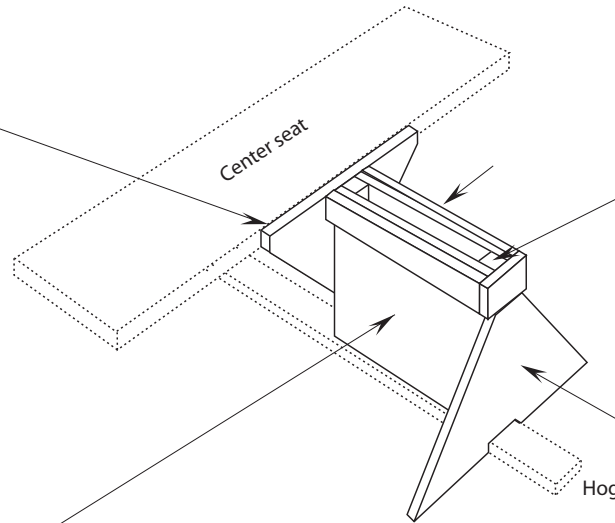


## Building the daggerboard trunk

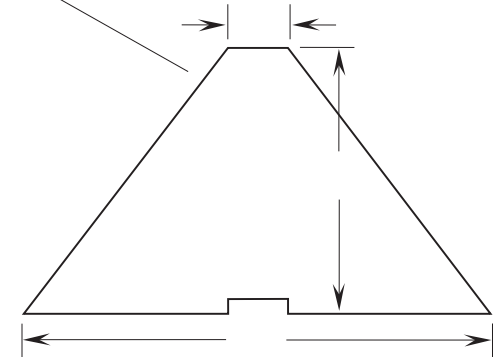
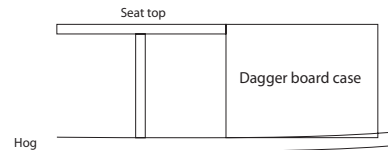


## Build and install the daggerboard case

Use assembled case to locate slot through hull.  
Extend height of case by 1" for each 100 pounds over 400 pounds of load.

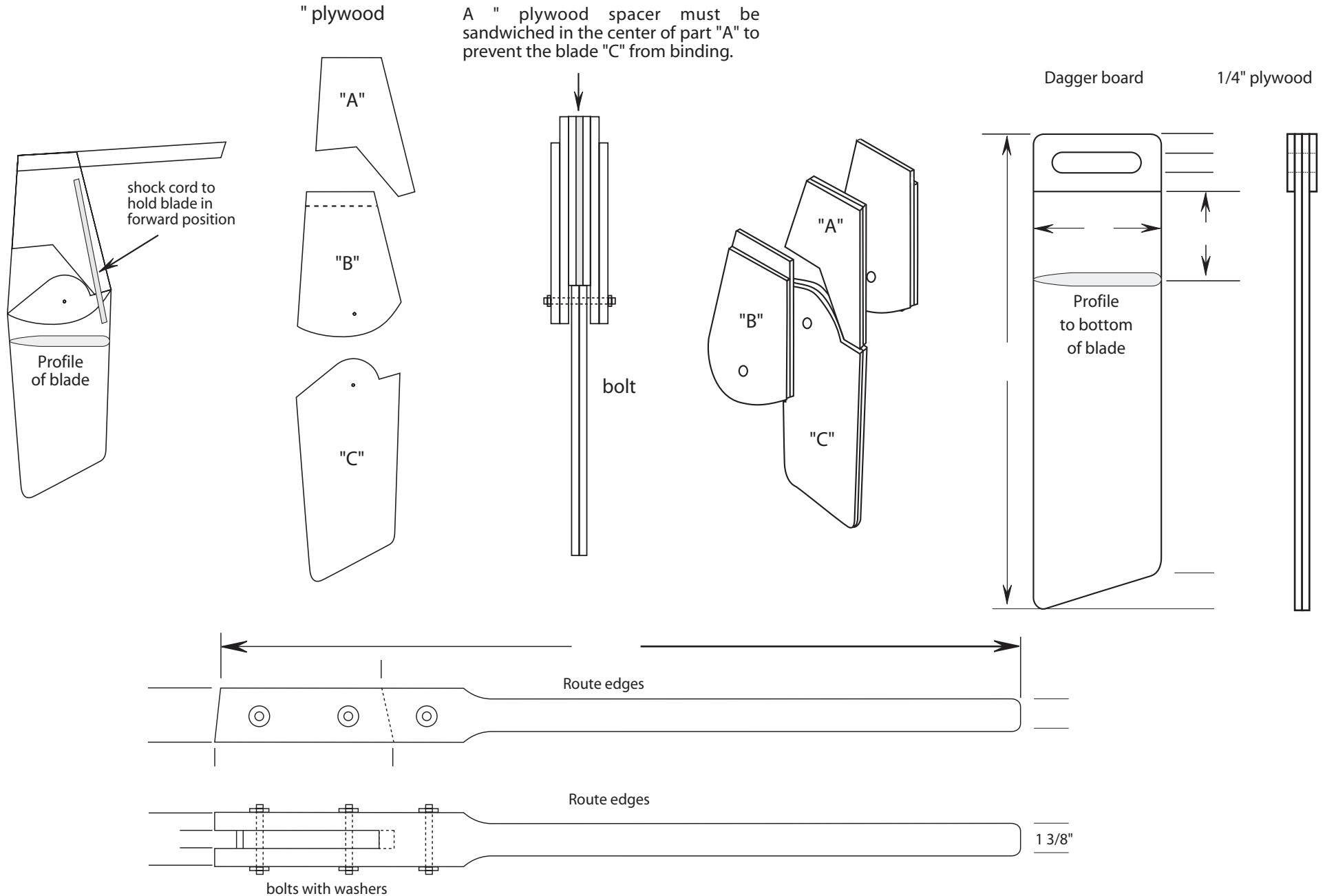


NOTE: The daggerboard case must be installed perpendicular to the seat top. The bottom of the case must be trimmed to fit.



# Sheet #15 ~ building the rudder

Building the rudder. The rudder is constructed from separate pieces sandwiched together. Use the full size layout sheet to transfer patterns and cut out pieces. Plywood has two distinct sides, good and not so good. Always glue the not so good sides facing each other, this will flatten and strengthen the finished piece.

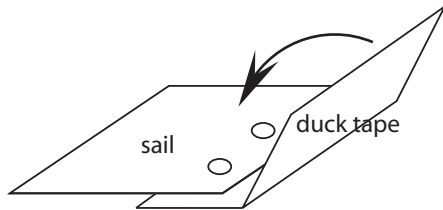


# Sheet #16 ~ building a sail

The easiest and most economical sail to construct is a spirit rig, made using poly-tarp for the sail, " chain-link fence tubing for the mast and " conduit for the spirit boom. The optimum size sail depends upon the experience of the sailor and the weather conditions. Because of the ease of construction, it is convenient to have more than one size. Start conservative and work up.

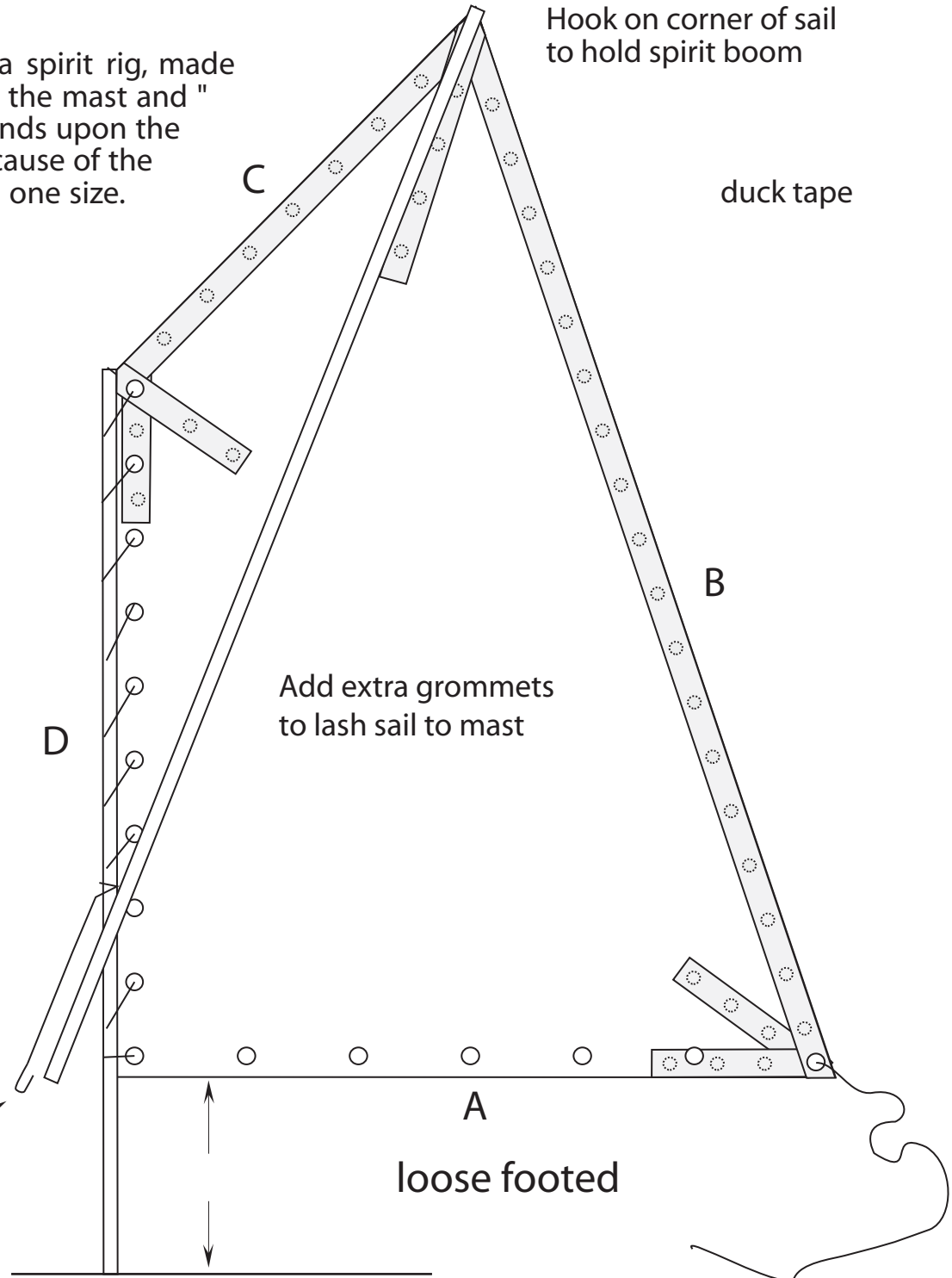
A B C D Sail Area

Layout sail then cut mast and spirit boom to fit.

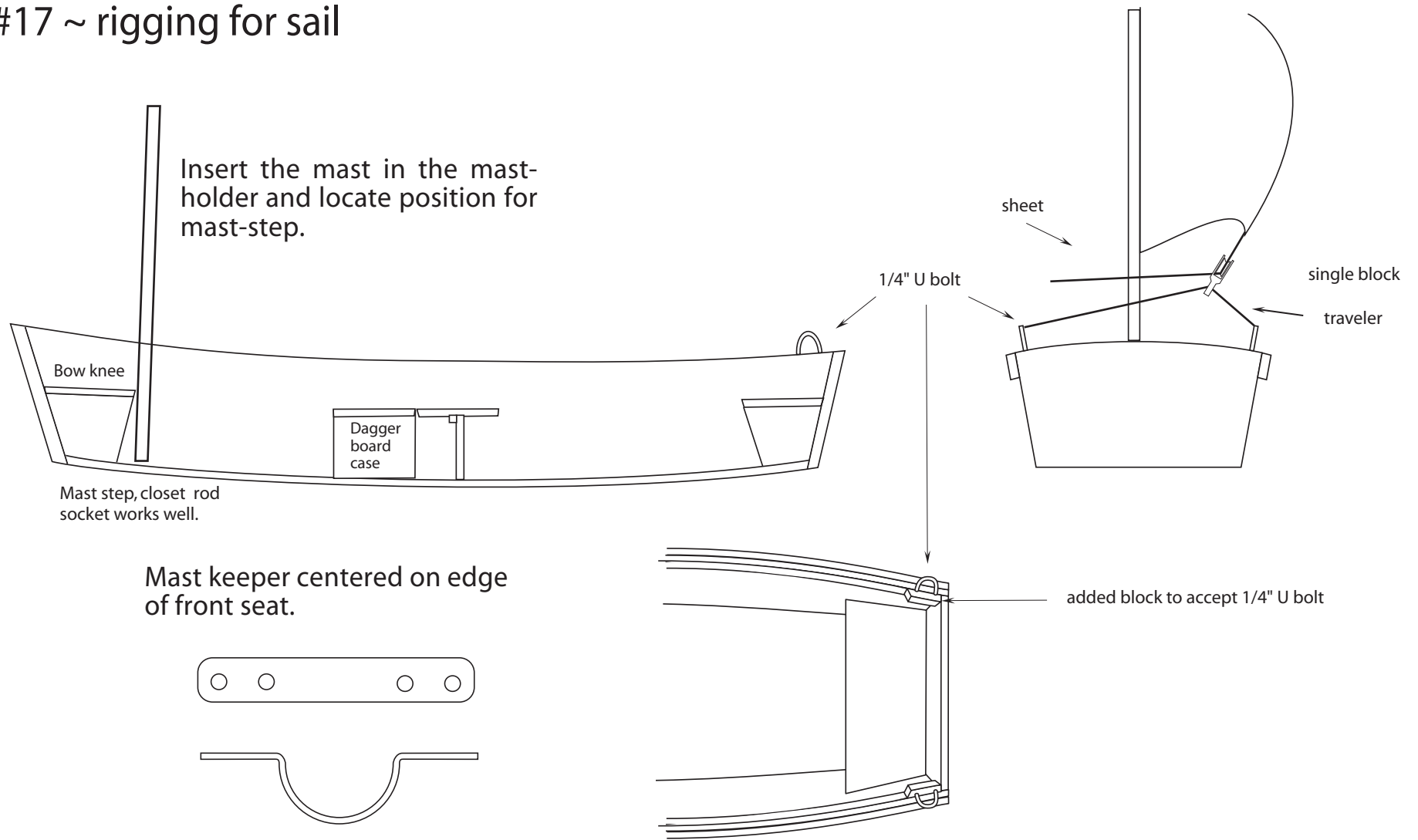


Reinforce cut edges with duct tape. punch " holes " apart on cut edge of sail and trim with folded duck tape. When the adhesive of the tape contacts through the hole, the tape will permanently stick. After applying tape, rub tape briskly to assure contact.

Hook on end of line to hold spirit boom



# Sheet #17 ~ rigging for sail



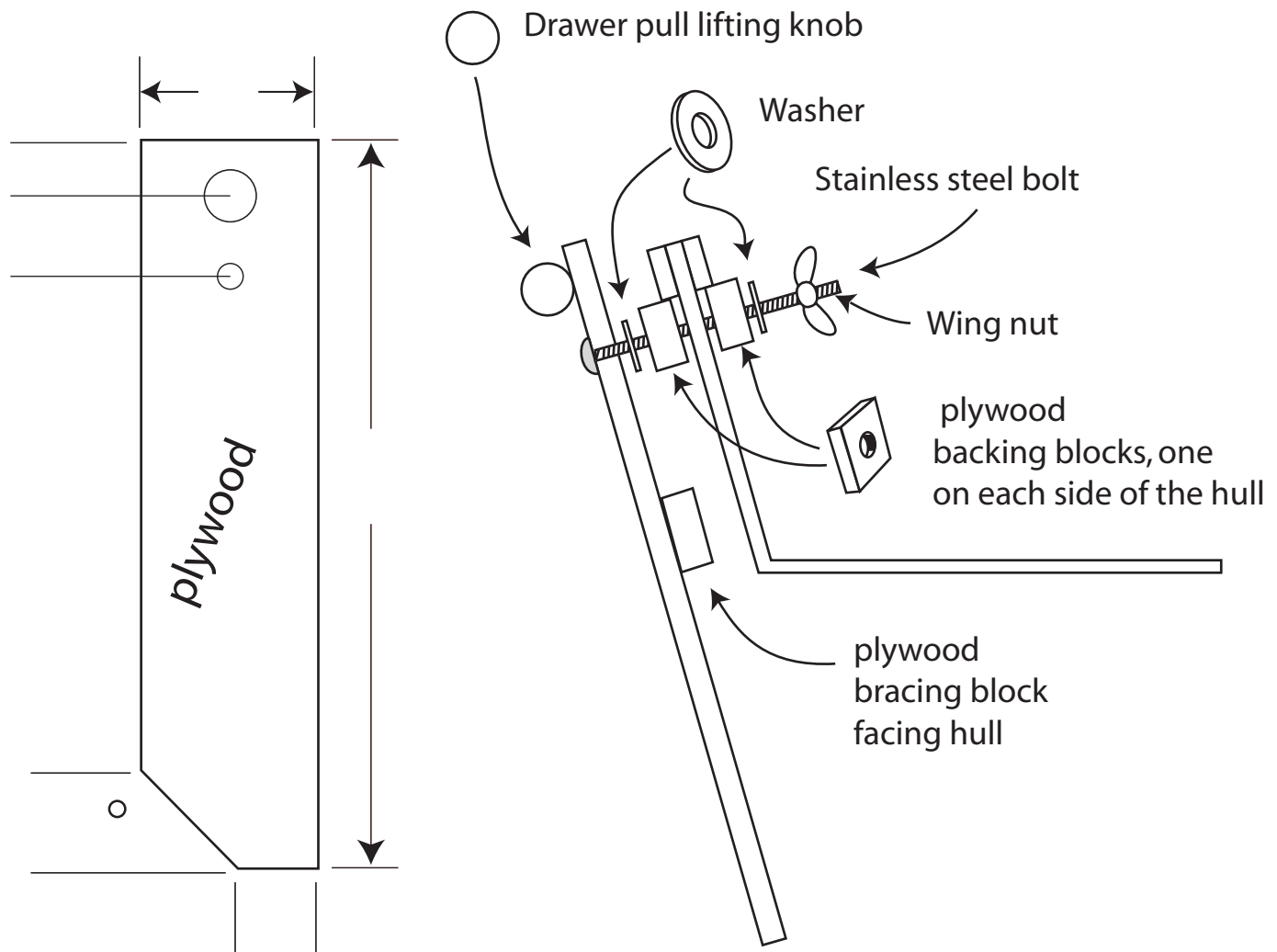
*Need help? email [unclejohn@unclejohs.com](mailto:unclejohn@unclejohs.com) or call 337-527-9696*

The quality and durability of your boat will be determined by the care you exercise in finishing it. Take your time and use a good quality paint. Don't rush and paint over resin which is "almost dry" and don't paint over "wet paint".

NOTICE: Care should be exercised in the completion of the steps involved in constructing this kit to assure a sturdy craft. The safety of this boat is determined by the builder and user. This kit is not rated for either number of occupants, maximum weight or motor size. The purpose of this kit is to provide the builder with those parts that require precision cutting and a set of easy to follow building plans. Uncle John's assumes no liability for the finished project. As with any water craft, life-jackets should be worn and caution exercised in regard to weather and water conditions.

## Sheet #18 ~ building a leeboard

A good alternative to a daggerboard is a leeboard. The leeboard is attached to the outside of the boat and pivots up when it contacts the bottom, making it attractive when beaching the boat.



The positioning of the leeboard in general is at the widest beam of the hull and at the middle of the sail area, these two points will be pretty close to one another. You might consider clamping the board in place with C-clamps your first few outings. Move it fore and aft to find the best place. As you move it you will experience a change in the steering characteristics of the boat. When you find the "sweet" place, attach it with the bolt. Which side to place the board is builder's choice. Some individuals use only one board and do not change sides when tacking and some use two boards. Just be sure you have not over-tightened the wing nut so that the board doesn't pivot when it contacts the bottom. How tight you make the bolt is something you have to experiment with.

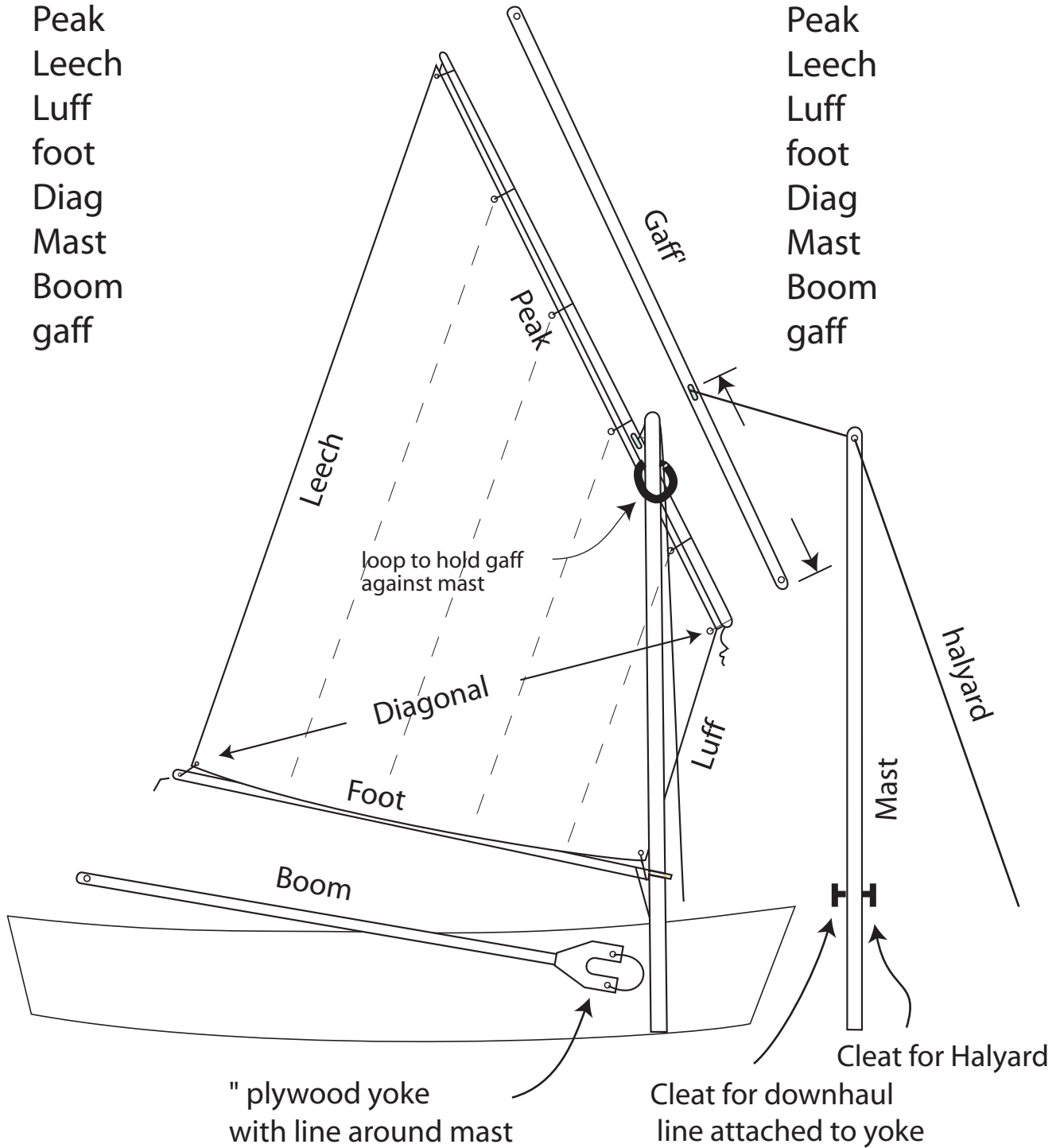
# Sheet #19 ~ an alternative sail plan

26 square foot

32 square foot

Peak  
Leech  
Luff  
foot  
Diag  
Mast  
Boom  
gaff

Peak  
Leech  
Luff  
foot  
Diag  
Mast  
Boom  
gaff



There are many materials from which the spars can be made, including full round closet rod, available at lumber yards.