

STAR CONSTRUCTION -- SPARS

SPARS (BOOM & JIB CLUB)

The two spars are made from (3) alum. "ARROW SHAFTS".

One of the shafts is sized so that it will slide snugly into the other two.

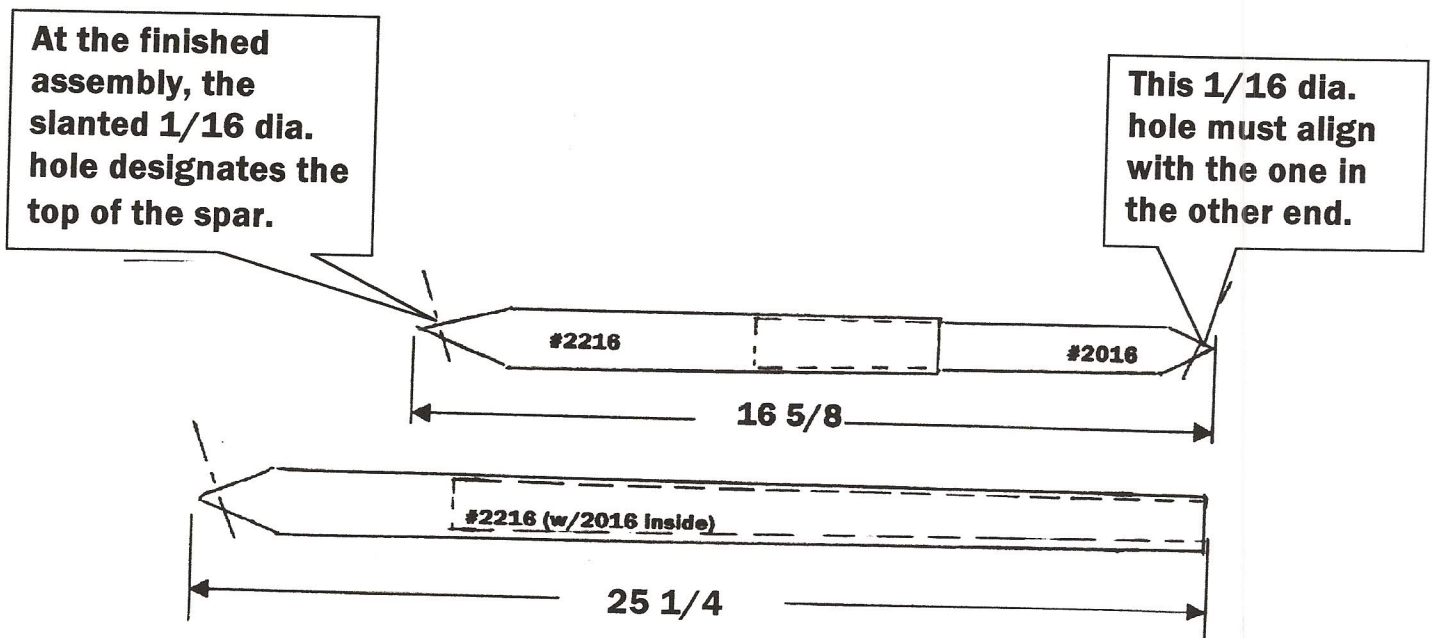
All three shafts have a dull point on one end. Drill a 1/16 dia. hole thru these points for the outhaul lines. (See sketch below.)

The 1/16 dia. holes are drilled on a 30 degree angle to permit one end of the hole to be as close to the end of the shaft as possible and still retain a good solid structure.

The jib club requires a point on both ends. Cut off 8" of the smaller shaft and slide it into 10" of the larger shaft as shown below. Use a small amount of epoxy to hold the shafts together. Make sure the 1/16 dia. holes are properly aligned.

The boom is made from the remaining larger dia. shaft. It requires a point only on one end. Cut off the shaft to 25 1/4" long. The smaller dia. shaft left over from the jib club is slid into the boom to act as a stiffner.

For a set of spars the skipper should buy (2) pcs. of "GAME GETTER RAW ARROW SHAFTS #2216 (larger dia.) and (1) pc. of #2016 (smaller dia.).



STAR CONSTRUCTION— SPARS (Cont'd.)

SPARS (ADDING JIB SHEET & MAIN SHEET ADJUSTMENT)

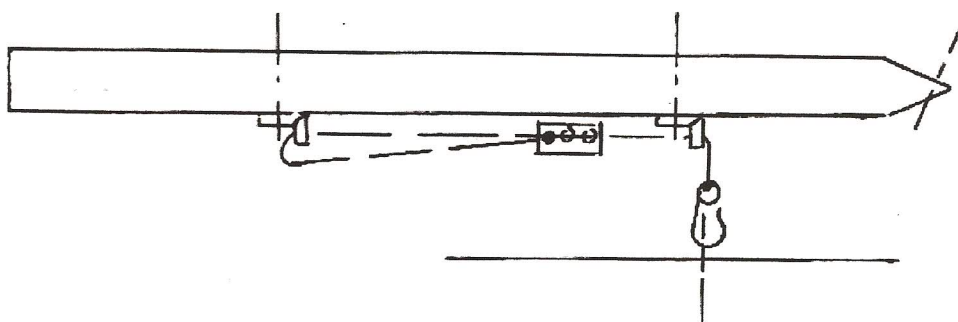
Adjustment of the sheets is built onto the spars as follows :

- 1) Bend two “8” shaped hooks to 90 degrees.**
- 2) Install one by bolting thru the spar directly above the fairlead on the deck.**
- 3) Install the other one in the same manner about 8” away from the first one.**

TIP—Use 2—56 x 1/2 nut & bolt. Put nut on bottom of spar so that it cannot interfere with the sail. Put a spot of epoxy on the nut to keep it from coming loose.

- 4) Insert one end of a line (50lb. Braided) thru the ring directly above the fairlead and tie on a “safty pin “ type hook.**
- 5) Before inserting the other end of the line thru the other ring install a BOWSIE so that it is between the two rings.**
- 6) Insert the line thru the second ring and bring it back and tie off to the third hole on the bowsie.**

TIP—Before doing this, have the “safty pin” type hook very close to the spar and slide the bowsie as close as possible to it. This will allow maximum adjustment. Put a spot of CA glue on each knot.



STAR CONSTRUCTION — SPARS (Con'd.)

SPARS (ADDING JIB & MAIN OUTHAUL ADJUSTMENT)

Outhaul adjustment is built onto the spars as follows:

NOTE: The angular hole drilled in the pointed end of the spar determines the top & bottom of the spar. The hole nearest the pointed end is the top. This allows the outhaul to be as far out on the spar as possible.

- 1) Insert the outhaul line thru the hole in the pointed end of the spar.(Go from the bottom of the spar to the top.)
(Use 50 lb. Braided line.)**
- 2) On the top side of the spar,tie on a “safty pin” type hook that will be fastened to the sail.**
- 3) Install a bowsie on the line on the bottom side of the spar. The bowsie will be between the end of the spar and the ring that is used for the main sheet adjustment.
TIP—Use a different color bowsie for this.**
- 4) Run the line thru the ring and bring it back and tie to the bowsie.**

