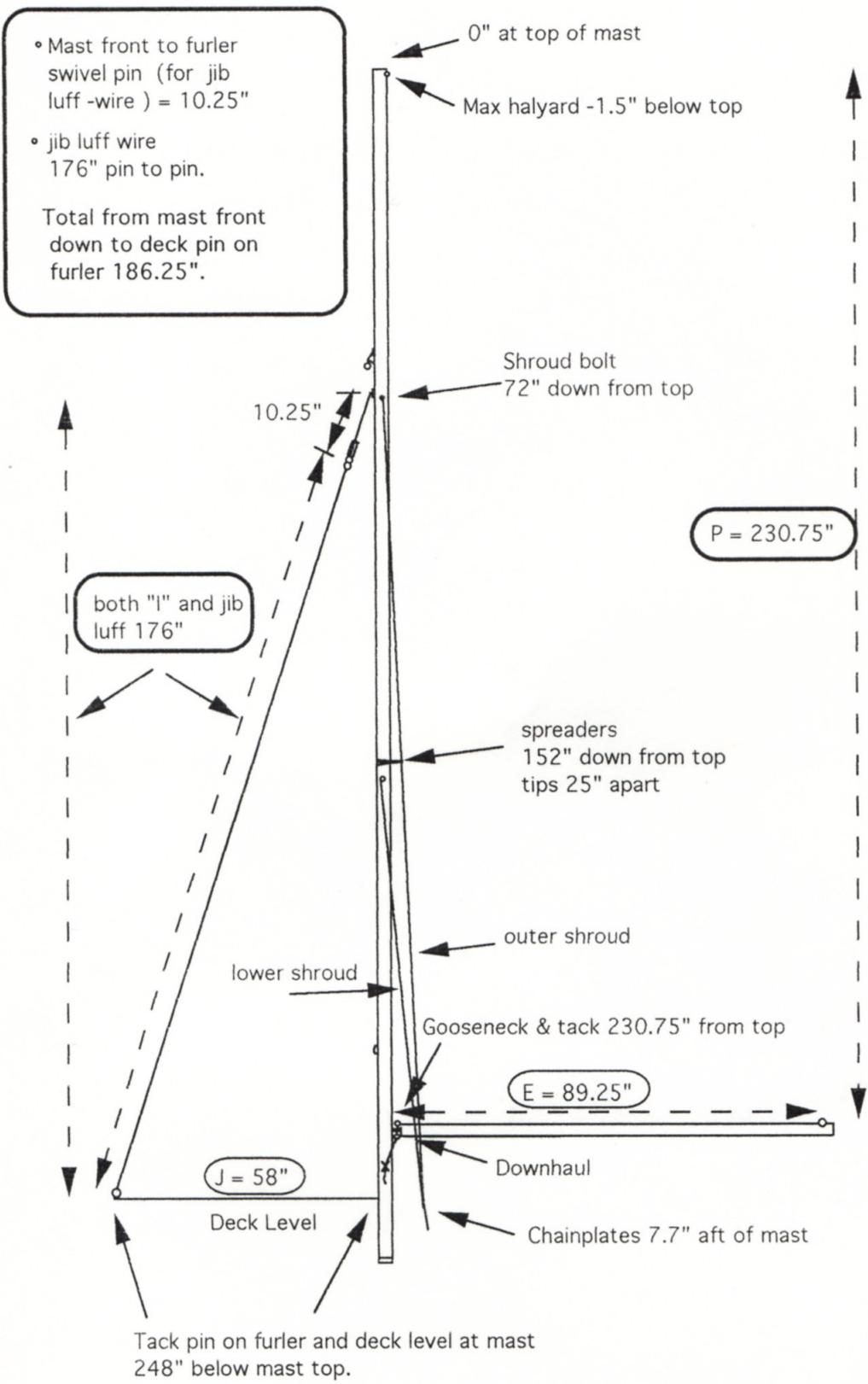


Speedball Mast

- Mast front to furler swivel pin (for jib luff -wire) = 10.25"
- jib luff wire 176" pin to pin.

Total from mast front down to deck pin on furler 186.25".



Speedball Mast Bend Data

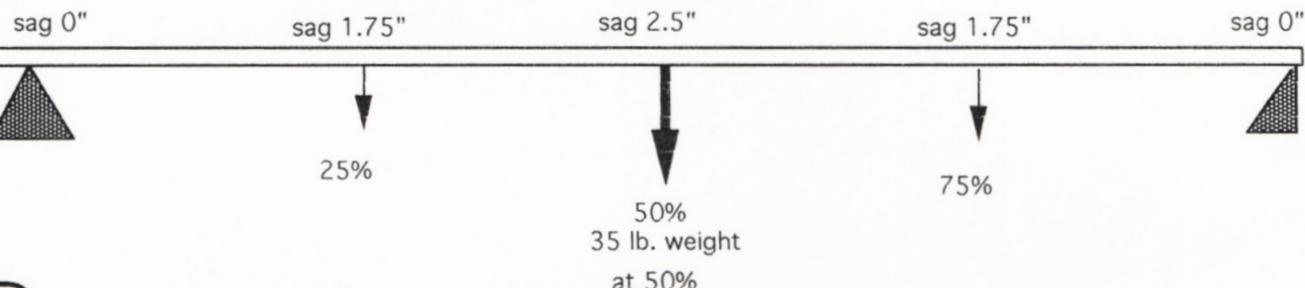
Mast bend was tested three ways - Horizontally, supported at head and gooseneck positions with a 35 lb. weight first hung at the location halfway between the supports, then with the weight hung at the shroud attachment bolt.

Results were measured at 25% intervals between the gooseneck and main halyard sheave. Finally, the boat was assembled and the mainsheet used to trim the boom. The headstay used for this was a straight wire, not the slack one inside the jib luff (see note on jib drawing).

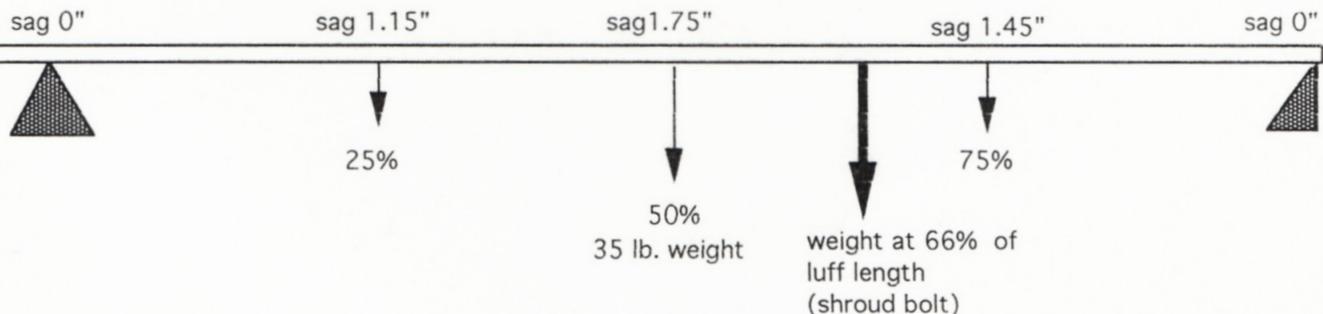
MAST SPECIFICATIONS:

"x" dimension 2.9", "y" dimension 2.2" - no taper. Single spreader with lowers. No backstays, mid-boom sheeting and windward sheeting traveler.

TEST #1



Test #2



Test #3

With the boat upright and rigged, The mainsheet had little effect on mast bend - even when sheeted harder than it would ever be while sailing. Measurements were: .25" at the spinnaker pole fitting (6% of luff length above gooseneck), 1.15" at the spreaders (34% of luff length), and 1.2" at the shroud bolt (66% of luff length).

Even when sheeted hard, the lowers were not particularly tight. They don't seem to keep the mast from bending. The headstay was also not overly tight. Without adding a backstay or moving the shrouds aft, the rig doesn't seem to be able to bend (or prebend) the mast much. Oh well, Last week we passed every monohull on the lake, both up and downwind, so something must be working!