

# ULTIMATE 20

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## PROBLEM:

- Wood Stringer Delamination from Keel Box to Mast Compression Post.

## REPAIR PROCEDURE:

- 1) In order to obtain sufficient access to the affected area, I replaced the existing 6" round inspection ports with 7"x 11" Bowmar deck hatches (same model as my U20 cockpit deck hatch). After cutting the openings, I impregnated the balsa with epoxy resin and left the hatches off until the stringer repair was complete.
- 2) I cut out the original stringer from the keel box to the wood mast compression post, inclusive thereof, and ground all surfaces smooth.
- 3) I had a replacement compression post made of 2" aluminum pipe (approx 11" long) with 4" x 6" welded flanges top and bottom. I also made a replacement stringer of 1" balsa wrapped in fiberglass.



- 4) I set the lower compression post flange in a bed of epoxy giving it a good seat against the hull. I bolted the top flange through the V-berth liner to the flange of the compression post running to the mast step.
- 5) I then trimmed and set in place the new stringer and glassed the entire structure.



6) I then installed the hatches.

