



2-16-98.

DEAR Mr DWYER,

I HOPE THIS ANSWERS YOUR QUESTIONS
ON RETROFITTING A TABERNACLE MAST
HINGE ON A FREEDOM 21.

PLEASE GIVE ME A CALL IF I CAN
BE OF FURTHER ASSISTANCE.

BEST WISHES,

Nick Sharp



NICK SHARP


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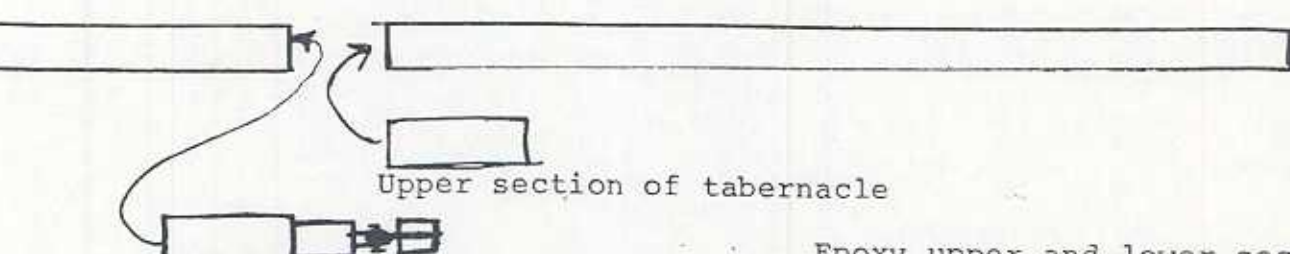
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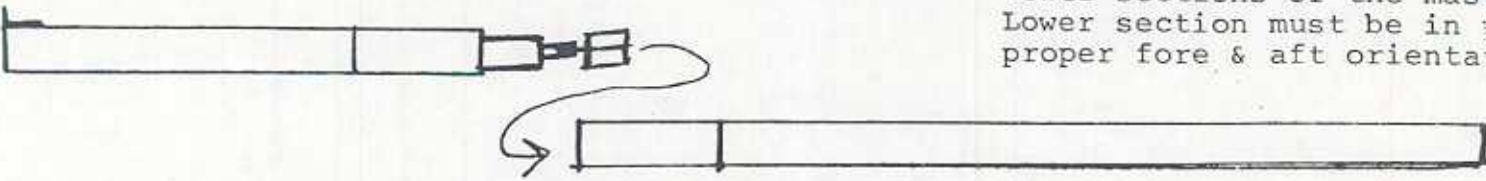
TABERNACLE MAST HINGE RETROFIT.

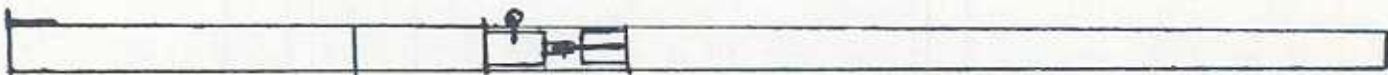
I have enclosed some information for you on the installation and use of the tabernacle mast hinge for the Freedom 21. I am sorry for the delay in sending this information and hope you have not been inconvenienced. Following are some instructions to help with the installation.

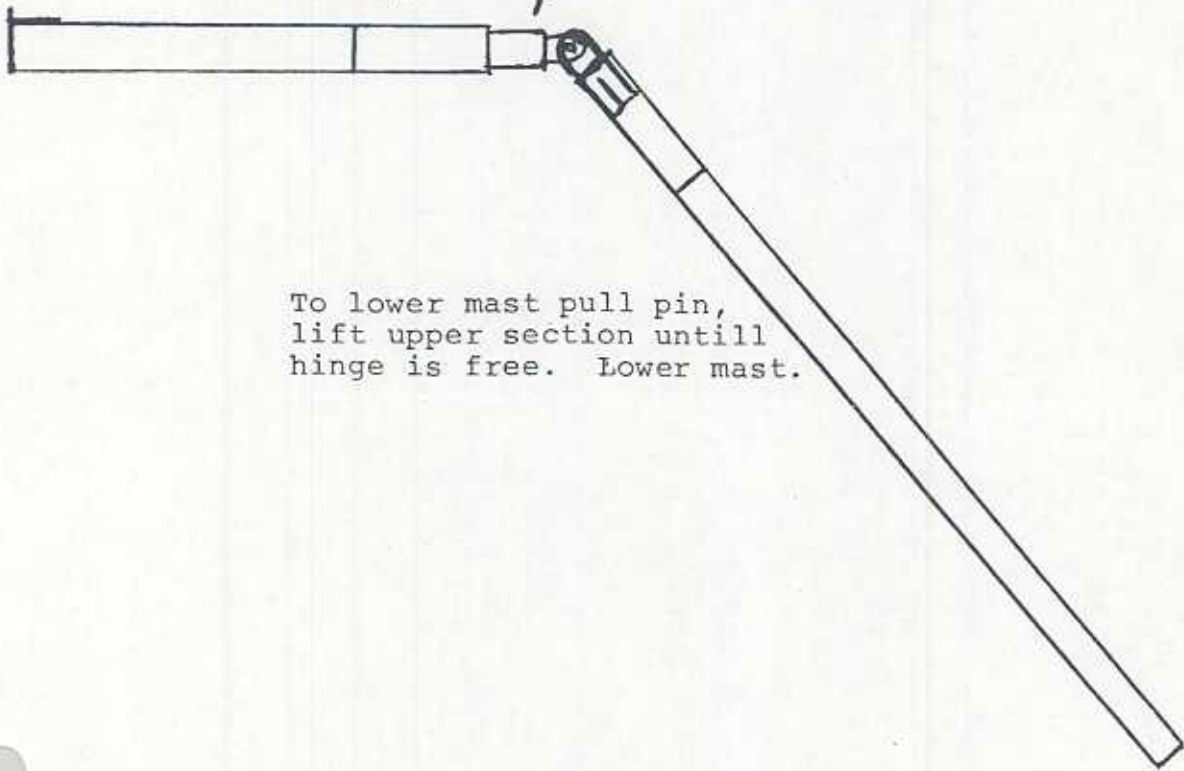
- a) Pull the mast out of the boat and lay it down on saw horses
- b) cut straight across the mast 42" up from the base
- c) sand the glass inside the upper and lower sections of the mast to facilitate the bonding between the mast and the aluminum tubing
- d) sand the walls of the aluminum
- e) remove the hinge cross piece from the lower section
- f) mark the mast in the area of the cut in the line of the center of the track.
- g) mix some epoxy
- h) install the lower hinge in the mast with the epoxy so that the upper edge is even with or just 1/8" below the cut edge of the mast and so that the jaw of the hinge is facing fore n' aft.
- i) install the upper section of the aluminum tubing in the upper section of the mast.
- j) reinstall the hinge cross piece and step the upper mast section onto the lower.
- k) drill a hole thru the mast wall of the upper section about 6" above the cut between the two sections. This hole is for the fast pin which keeps the mast from inadvertently lifting up and unhinging itself. This fast pin is 5/16" in diameter and is 1 3/8" long.

1)  Cut standard mast cleanly and at true perpendicular.

 Upper section of tabernacle
Lower section of tabernacle
Epoxy upper and lower section of tabernacle into upper and lower sections of the mast. Lower section must be in proper fore & aft orientation

3)  Assemble mast

4)  Drill hole for fast pin and install pin so that mast remains in proper fore & aft orientation while sailing (i.e. cannot rotate).

5)  To lower mast pull pin, lift upper section until hinge is free. Lower mast.

Freedom 21

Mast Hinge Arrangement

SO# 14092

