

This document supports a complete article on the building, by GMT Composites of Bristol, Rhode Island, of a mast for the sailing vessel *Morgan's Cloud*. It should be read in conjunction with the article, available at:

http://www.morganscloud.com/gear_failures_fixes/gfmast.htm

To learn more about *Morgan's Cloud* and her owners, Phyllis Nickel and John Harries, go to:

www.morganscloud.com

Morgan's Cloud Mast, Defects and Omissions

As at 6th. June 2005

Introduction

I have listed all issues, whether resolved or not.

Items that need resolution before we can use the boat are in red.

Defects, Pending

Spinnaker pole line driver

Positions does not allow a 12" handle to swing

See minutes of meeting at GMT

Missing a mounting bolt, hole not drilled.

Storm trysail track

Does not lead straight.

See minutes of meeting at GMT

Starboard upper winch

Binding

Not assembled properly

Sheppard's crook for burgee

Mounting plates are welded on at the wrong angle resulting in the flag being too close to the wind sensor wand.

Welder at Billings says that this can be fixed in about four hours.

Port Spreaders

Mounted with at a substantial forward angle.

Clutches are out of line with halyard exits and winch take up side.

Small fault in carbon on lower amast below cabin table.

We don't care about the cosmetic issue here but are concerned that it may indicate a problem with the layup.

Spinnaker halyard block and shroud hanger blocks not drilled and pinned.

Jay Maloney feels that they should be.

Defects, Repaired by Owners

Windex / VHF antenna

Bracket was too thick to get insulation washers and nut on, never mind screw in the plug.

Resolution

Insulated entire bracket from mast with plastic spacer and sleeve for bolts

Bore antenna mounting hole to take base of antenna coil.

Time 1.5H

Lightning conductor

No insulation between aluminum conductor and mast.

Resolution

Fabricate insulation spacer from delrin

Time .5H

Halyards

Port Genoa, storm trysail and spinnaker tangled.

Spinnaker pole topping lift and staysail halyard on the front (wrong) side of lower shroud hanger bolts.

Messenger line for lower spreader wiring tangled around halyards

Main halyard wrong side of mast head assembly cross bar

Resolution

Remove mast head and unscramble halyards

Time

John 6H

Phyllis 5H

Wiring

4' of extra wire on the deck/steaming light stuffed in the mast loose.

All wiring substantially below ABYS spec.

The 25 watt steaming light is on #16, not 14 as originally thought.

Labeling reversed on bow steaming light.

Sheaves

Main halyard

Not roller bearing as originally specified.

Under minimum diameter for half inch main halyard.

Genoa halyards

Had been rough ground with to fit.

Grinding debris in mast

Resolution

Hand sand to acceptable smoothness for this year

Will require replacement

Time 1H

Storm Trysail

I suspect that this has been ground too since it was binding when we visited GMT

Have not yet removed for inspection