

Silver Petrel Staysail Plan Nov 16th 13

I have taken some scans of the original design plans for the original rig (since replaced) as I know there is some interest in the subject.

The foredeck is shown as 4575mm in length with the staysail mounted 1450mm back from the forepeak, and 3125mm from the centre line of the mast 68.3% of the total foredeck length from the mast centre line. The mast is shown with a 230mm rake to stern, and as 6500mm masthead to shrouds, 5900mm shrouds to deck, and 2000mm deck to foot. Unfortunately the mast measurement drawing does not show a measurement for the staysail mounting, but the foredeck rigging plan shows forestay and staysail stay running parallel, so a mounting point will be easy to calculate. The height of the coach roof is not known and may vary from yacht to yacht if the intention is to use a trigonometric calculation to ascertain the mounting point on the mast.

The rig design shows a masthead rigged central backstay with running back stays mounted on the mast adjacent to the staysail mounting to stop the centre of the mast bulging forward. All of the backstays are rigged to chainplates mounted on the transom.

The rig on my boat is identical but taller, and Selden's technical guys have advised that staysail stay and running backstays can be taken out to the wire when not in use, as they obstruct the headsail and mainsail when going about.

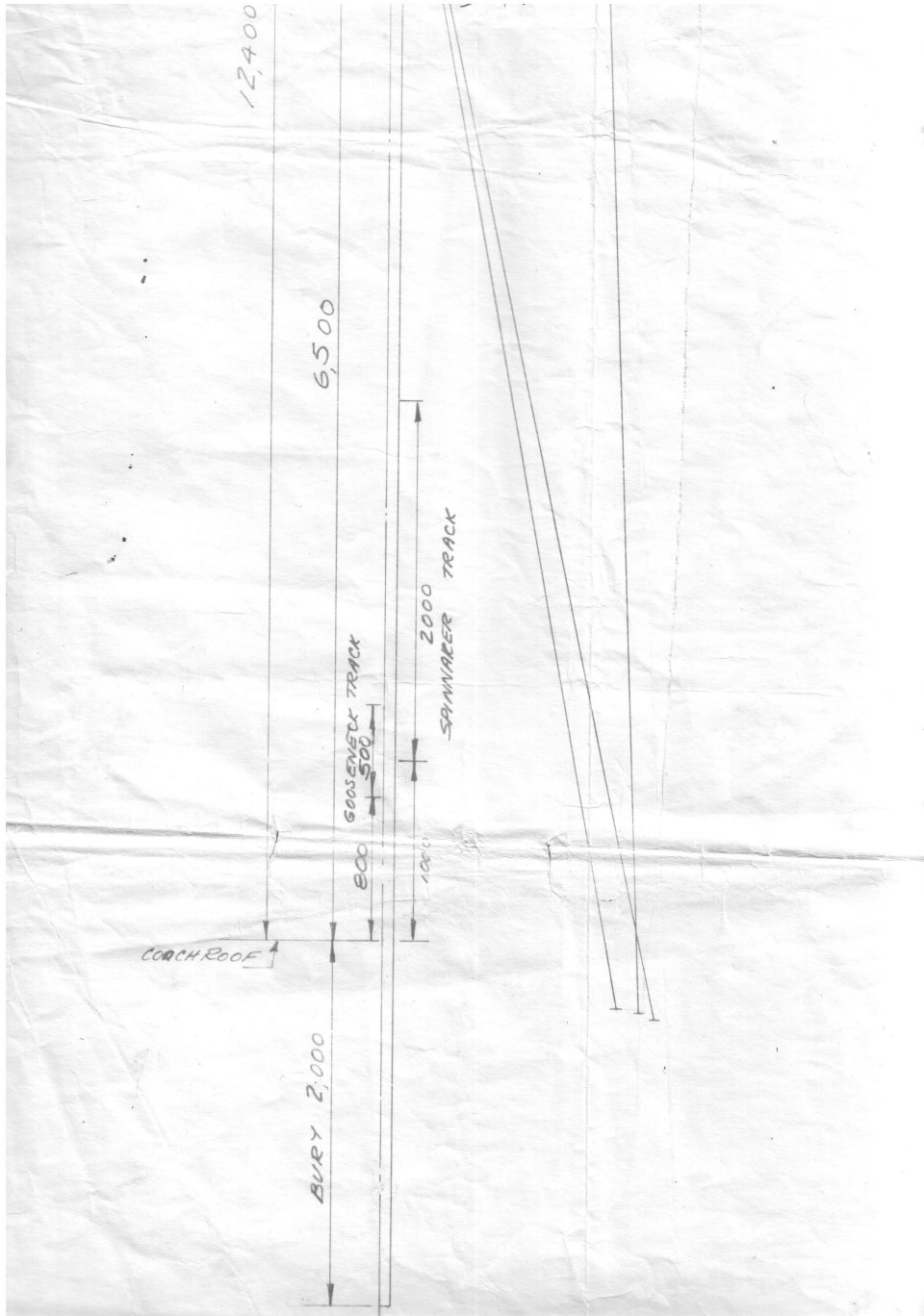
I have found that the only way to deal with the headsail obstruction is to go forward and pull it through. I plan to splice the starboard and port genoa sheets together and to splice a loop off the continuous genoa sheet through the clew and back onto the sheet to smooth the passage round the staysail when it is rigged. The only way to deal with the leeward running backstay fouling the boom as it goes through is to slacken off the runner so that it lays up the back of the mainsail.

All of this makes for a very busy time when going about with the staysail and genoa rigged together, but is worth it as it helps with the O38 weatherhelm considerably.

Foredeck rigging



Silver Petrel Mast foot measurements

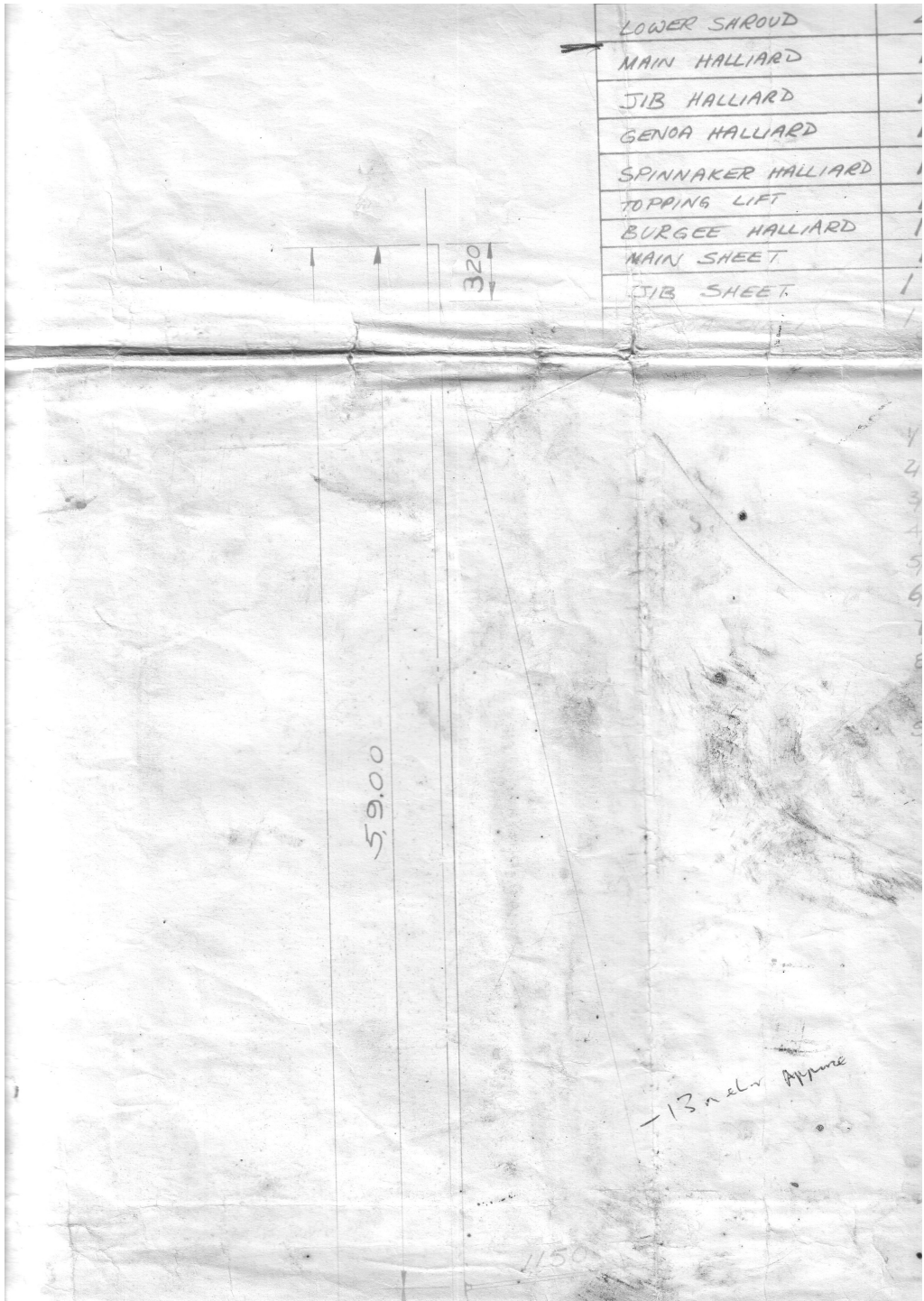


[Re: STAY SAIL RIGGING](#)

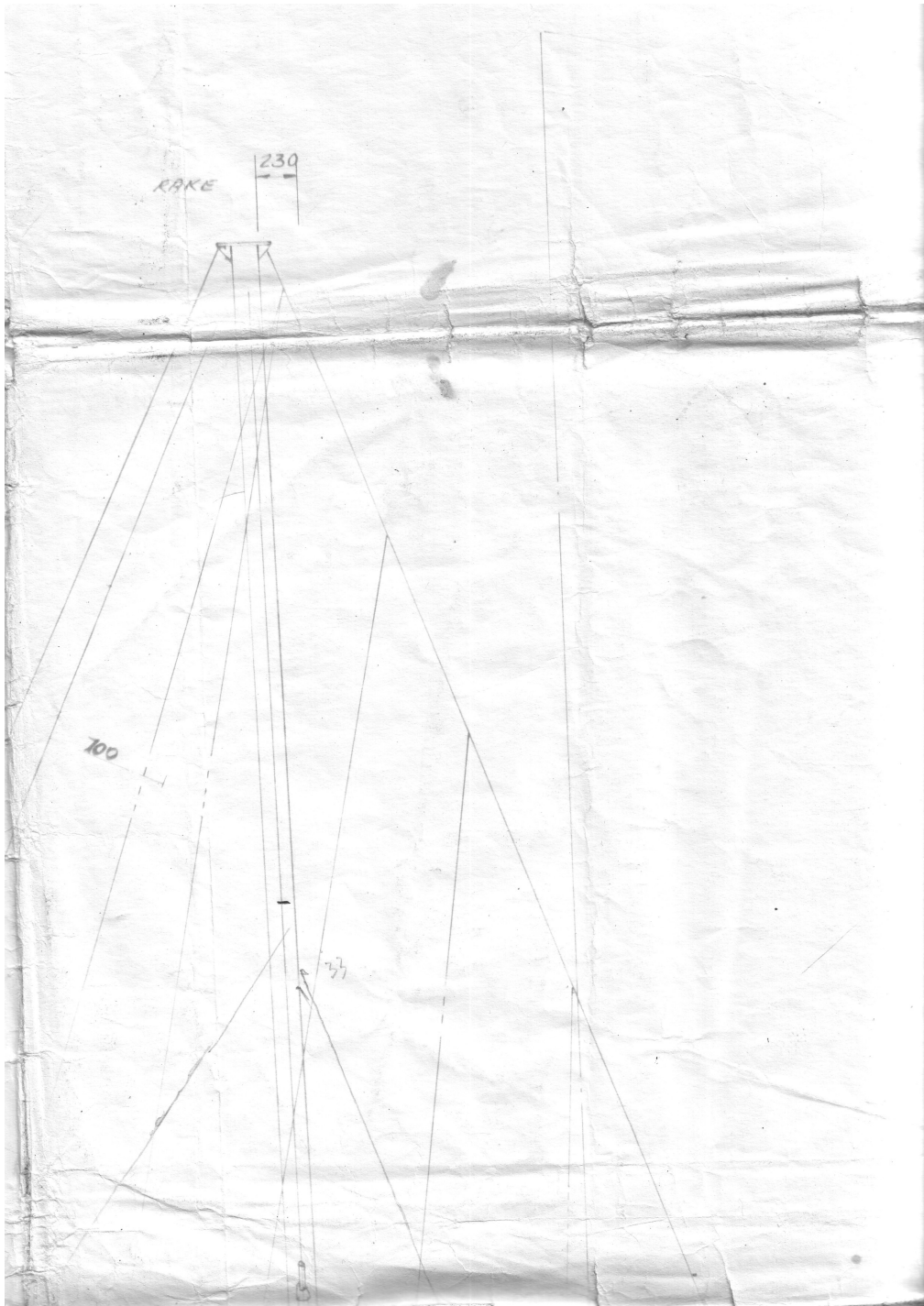
by [silverpetrel](#) » Fri Nov 15, 2013 10:33 pm

Three more photo of rig. Note: staysail is chainplated by a wire running from a plate bolted through the foredeck and staysail deckside mounting plate down through the hull.

Masthead measurements



Masthead rigging



Sail plan data 1

MR INSTONE - SILVER PETREL.

Please quote for supply and making up
and rigging ^{mast} i.u.w. this schedule and for
stepping mast. (standing rigging only - includes
all blocks & rigging screws)

5 THE AV.
GOSPORT.

BY 31st MARCH.

SAIL	
Nº 1 GENOA	12
Nº 2 GENOA	12
Nº 3 JIB	11
Nº 4 JIB	11
STORM JIB	7
SPINNAKER	14
MAIN	10

ITEM	Nº OFF	SIZE	
FORESTAY	1	8 mm DIA	✓
BACKSTAY	1	8 mm DIA	✓
CAP SHROUD	2	6 mm DIA	
LOWER SHROUD	4	7 mm DIA	
MAIN HALLIARD	1	10 mm DIA	Nº
JIB HALLIARD	1	10 mm DIA	
GENOA HALLIARD	1	10 mm DIA	
SPINNAKER HALLIARD	1	10 mm DIA	
TOPPING LIFT	1	10 mm DIA	
BURGEER HALLIARD	1	3 mm DIA	Nº
MAIN SHEET	1	10 mm DIA	Nº
JIB SHEET	1 PR	10 mm DIA	

320

Sail plan data 2

SAIL DATA			
NO	FOOT	AREA	REMARKS
	000	8,650	52.6 m ²
12	350	6,870	41.8 m ²
11	2,800	6,100	32.1 m ² HEAD PENNANT 1500
11	3,950	4,700	20.8 m ² HEAD PENNANT 2700
7	6,100	2,950	8.7 m ² HEAD PENNANT 4250 TACK PENNANT 1200
14	4,500	4,680	102.6 m ² PROJECTED AREA ONLY
10	11,800	4,830	26.3 m ² FOOT ROPE TO SUIT 800M, LUFF SLIDES TO SUIT MAST

RIGGING SCHEDULE		REMARKS
MATERIAL		
✓ STAINLESS STEEL	GIBB N° 681-14	RIGGING SCREW - 2 TOGGLES N° 543 CFE
✓	GIBB N° 681-14 - 1 TOGGLE N° 543 CFE
	GIBB N° 681-11 - 1 TOGGLE N° 543 FE
A	GIBB N° 681-13 - 1 TOGGLE N° 543 FE
A NA	B PLAIT TERYLENE / POLYESTER	COLOUR WHITE
		GOLD
		BLUE (OPTIONAL - JIB HALLIARD MAY BE USED)
A		RED
A		WHITE
A MA	PLATED TERYLENE POLYESTER	WHITE
A MA	16 PLAIT TERYLENE POLYESTER	GOLD
A		BLUE (OPTIONAL - JIB SHEETS MAY BE USED)