

**MELGES 32**

V 2.2

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**Tools**

to make a proper job at least these tools are needed:

- tension gauge Loos&Co PT2-M
- tension gauge Loos&Co PT3-M
- 20 mt tape measure possibly metallic
- plier and screwdriver

**Step 1 Mast Butt**

position it all the way forward and check the measure from the aft surface of the mast and the aft surface of the bulkhead: 100 mm

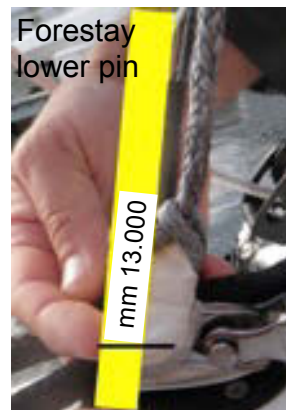


Mast butt

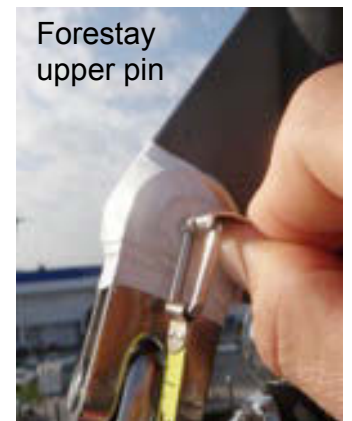
**Step 2 Forestay lenght**

With the mast stepped and the shrouds just tighten, pull the backstay to have some tension in the forestay and measure from pin to pin. Adjust the turnbuckle to obtain mm 13.000

This will be the rake base setting.



Forestay lower pin



Forestay upper pin

**Step 3 shrouds setting**

With the mast jack all the way down tighten the uppers (D1 and D2 completely loose) at 5 on the PT3 tension gauge and check that the mast is centered sideways with the jib halyard on the sheerline.

Now tighten by hands D1 and D2, pump the jack to 4000 psi.

Tensions of the shrouds should be as in the table below, adjust it moving the turnbuckles to obtain this result and look at the mast groove to check if it's straight. If not make the necessary adjustments.

Uppers (pt3)	D1 (pt3)	D2 (pt2)
13	9	21
with the jack at 4000 psi (attention move up the chafe guard of the shrouds)		



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## Step 4 Jack reference

Find your favourite system to quickly measure the butt height (see sample picture)

Mark your reference at 5 different positions as in the table below

Reference	PSI	
0	0 all the way down	
1	1800	
2	2300	
3	3000	
4	4000	base check setting



## Sailing settings

TWS (kn)	Jack pos.	Rake	D1	D2	V1
0 / 8	0	0	- 2 turns	- 2 turns	0
9 / 10	2	+ 5 turns	0	0	0
10 / 13	3	0 turns (tot +5)	+ 1 turn	+ 1 turn	+1 turn
13 / 18	4	+ 5 turns (tot +10)	0	0	0
18 / 20	5	+ 0 turns (tot +10)	+ 1 turn (tot +2)	+ 1 turn (tot +2)	+ 1 turn (tot +2)
20 +	5	+ 0 turns (tot +10)	+ 1 turn (tot +3)	0 turn (tot +2)	+ 1 turn (tot +3)

## Step 5 record your tuning

Measure with a caliber the distance between the screws in the turnbuckles and mark it, next time will be a lot easier to prepare the boat.

Remember that every material is "moving" therefore keep checking your tensions with the gauge and record the unavoidable changes.



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## Step 6 Backstay marks

with the rake in position 0 and the jack at 3 pull the backstay to have about 20 of tension (PT 2) and mark the position of the backstay block in the cockpit (see picture). From that mark make the entire scale from 1 to 11 with 10 cm of distance between marks.



### Sail selection chart

TWS (kn)	Jib		Gennaker	
	flat	waves	flat	waves
0 / 6	# 1	# 1	A1	A1
7 / 10	# 2	# 1	A2	A2
11 / 14	# 2	# 2	A2	A2
15 / 18	# 2	# 2	A2	A2
18 / 21	# 4	# 4	A2	A1
22 +	# 4	# 4	A1	A1



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**Mainsail trimming**

TWS (kn)	Wang	Mainsheet	Backstay	Cunningham	Main traveller
0 / 6	off	upper TT just flying	off	off	all the way up
7 / 10	off	upper TT just flying	3/5	a little to remove big wrinkles	all the way up
11 / 14	15 / 60 %	max for right heel	5/8	no wrinkles	from center to half up
15 / 19	60 / 100 %	max for right heel	6/9	tight	from center to 10cm down
20 +	100%	max for right heel	7/10	very tight	10cm down

**Jib trimming**

TWS (kn)	lead	sheet	note
0 / 6	3	3	upper leech tell tale flying 50%, round base
7 / 10	4	4,5	upper leech tell tale flying 80%, round base
11 / 14	4,5	4,5	upper leech tell tale flying 100%, flat base
15 / 19	5	5	upper leech tell tale flying 100%, tight base
20 +	1,5	8	upper leech tell tale flying 100%, ease sheet in puff



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## measures registration table

Shrouds and forestay						
Upper port	Upper starboard	D1 port	D1 starboard	D2 port	D2 starboard	forestay
register mm between turnbuckle screws measured with caliber						

Mast Jack reference	
0	all the way down
1	4,0 mm
2	8,0 mm
3	11,0 mm
4	13,5 mm
distance between steps in mm from 0	

Jib lead reference	
distance from forestay of point 1	mm 3860
distance between points	mm 35
is strongly suggested to drill intermediate holes	

Jib sheet reference	
distance from forestay of point 1	mm
distance between points	mm 55
position mark on the sheet at 2380 mm from pin	

