

Setting up your Dragon

Rig set-up fact sheet

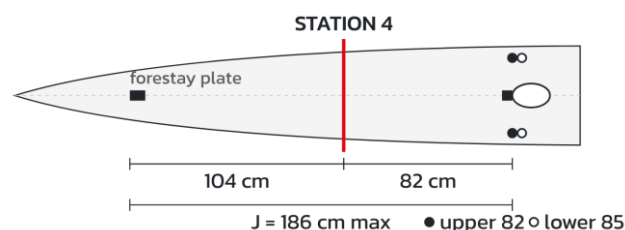
Rig tension (Loos PT-2M)

Mast / shroud	Light	Medium	Strong
mMast			
Upper	12	15	20–25
Lower	0	5–10	15
iMast			
Upper	10	14–15	16–20
Lower	0	5–8	10–12
eMast			
Upper	14	18	20–25
Lower	0	5–10	15
All masts			
Mast rake	123 cm	122 cm	121 cm
Mast ram upwind forward from max aft	1–1.5 cm	Max aft	1–1.5 cm

Measure directly on the wire. Figures for boats built after 2008; older hulls need up to 30% more tension. Lower shroud figures are a guide only: set them sailing upwind, sighting up the mast until it is straight sideways.

Key measurements

Jumper average tension	8
Forestay mark up the mast (class 79–81)	81 cm
Average mast rake	122 cm
Stn 4 to front of upper shroud	82 cm
Stn 4 to front of lower shroud	85 cm
Stn 4 to front of forestay plate	104 cm
Stn 4 to aft of mast plate	82 cm
J measurement (class max)	186 cm
Pre-bend	0–10 mm
Mast ram travel (class max)	50 mm
Max runner tension (on forestay)	32



Set-up sequence

- 1 Set the jumper tension**
Fixed jumpers: set before stepping, average **8**. Adjustable: mark the control rope at 6, 8 and 10 (mast up, from a ladder).
- 2 Establish the mast rake**
Forestay only, a little runner tension. Forestay mark to deck = rake, **122 cm**. Change via the forestay attachment hole.
- 3 Mark the forestay**
Mast vertical and fully forward. Mark **81 cm** up the mast, pull the forestay down and mark it there.
- 4 Find the station 4 line**
Join the station 4 spots on the topsides with tape across the deck. All positions are measured from it.
- 5 Shroud positions**
Front face of upper **82 cm**, lower **85 cm**. Aft = less mast bend, forward = more.
- 6 Forestay plate**
Front of plate **104 cm** from station 4. Forestay within the 75 mm plate; we use the front.
- 7 Mast plate**
Aft end of the 50 mm plate **82 cm** from station 4.
- 8 Check the J measurement**
Front of forestay plate to aft of mast plate: **186 cm** maximum.
- 9 Mast step and pre-bend**
Push the mast aft without bending it. Front face level with or up to 10 mm behind the mast plate. Over 10 mm behind: step pin forward. In front: step pin aft.
- 10 Shrouds and mast ram**
Uppers to **15**, lowers next hole aft to **10**, marks equal both sides. Lever max aft = mast level with aft of plate; lock. Released, the mast must not pass the front of the plate.
- 11 Shroud tension**
Loos PT-2M on the wire; set for conditions using the table above.
- 12 Maximum runner tension**
Loos on the forestay, pull runner to **32**, mark the wire at deck. Never exceed.

Please note

Shroud and forestay positions are the current measurements used on new boats for best balance. On older Petticrows boats the measurement plates were fitted in the optimum position for that age of boat: check the plate positions and set shrouds and forestay using the same principles.