



NORTH SAILS ITALIA



420 ONE DESIGN TUNING GUIDE 2004

SDR 2K04/SPG 2K04 MAINSAIL – SWR 2K04 JIB – SSL 2K04 SPINNAKER

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MAST POSITION

43 cm from pivot hole center of centerboard. Maximum forward with strong wind conditions (more than 11 m/s)

SPREADERS

	SDR 2K04 mainsail		SPG 2K04 mainsail	
Mast	Length	Width	Length	Width
AG+	450	175	470	140
Proctor K	465	170	470	125

TENSIONS (With a LOOS & CO. tension gauge model PT-1M)

It is very important to control the jib luff wire tension: we think it is more important than the shrouds tensions

	SDR 2K04 main		SPG 2K04 main	
Wind	Tension		Tension	Luff wire tension
00-03 m/s	28		28	20
03-07 m/s	30		32	24
07-10 m/s	30		31	22
+10 m/s	28		30	22

SUPERSPAR MAST

We see big differences in Superspar masts bending, and we think it would be difficult to give you exact measures of spreaders and shrouds tensions, because with the same measures, you could have different mast bending. We suggest you to place your mast with the following rake and with a 3.5 cm pre-bending (measured at spreaders height).

RAKE

	SDR 2K04 main	SPG 2K04 main
Wind	Distance mast head - stern	
00-03 m/s	6.08	6.09
03-07 m/s	6.06	6.05
07-10 m/s	6.05	6.03
+10 m/s	6.03	6.00



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TOP FULLBATTEN

Just pushed in light wind conditions, gradually more pushed with increasing wind. Please pay attention with the **"top batten pressure adjuster"** because it can push the batten a lot more than other systems, and you must use it carefully.

MAINSAIL FOOT

Using SDR main: not tensioned in low wind conditions (up to 6 m/s) especially if choppy, gradually more tensioned with increasing wind. Using SPG main, little bit tensioned in very light conditions (less than 3 m/s), released in medium conditions and gradually more tensioned with increasing wind.

Attention: tack point has a cut back, and it must be fixed at 2 cm away from the mast.

BRIDLE

Always at maximum length, and fixed as externally as possible.

SWR 2K04 JIB

Suggested position of fairleads: 2080 mm away from the fore attack . Height of tack from jib fore attack: 4.0 cm. It is a very full sail in the luff and straight in leech, and it needs a careful and remarkable use of windward sheet. New radial layout allows a more regular shape distribution and an easy leech tuning.

SSL 2K04 SPINNAKER

It is a very fast spi in all conditions, easy to tune, very stable and very sensible to spinnaker pole height: it has to be never too high.

THE 4 BASIC RULES

- **continually tune the sheets**
- **use always the windward sheet except in extreme conditions**
- **ensure a kicking strap very powerful to have a big leech tension in high wind conditions**
- **never pull cunningham till your weight can keep the boat on its feet**

The above general rules shall be adapted to your crew characteristics and are very important to begin a good job.

We are pleased to receive from you all the informations and comments about our sails to improve our databank.

Thank you for your choosing North Sails!



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