

Tuning Guide

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420 RIG TUNING GUIDE

WIND SPEED (KNOTS)	1 - 4	5 - 10	11 - 15	16 - 25	25 +
MAST RAKE- METRIC	6070mm	6060mm	6035mm	6007mm	6007mm (5982mm girls)
IMPERIAL	19'11"	19'10¼"	19'9½"	19'8½"	19'8½" (19'7½" girls)
RIG SHROUDS 2.5MM DIAM	450 Lbs (31)	430 Lbs (30)	430 Lbs (30)	370 Lbs (28)	370 Lbs (28)
TENSION-JIB LUFF (Super Spar Gauge)	260 Lbs (23)	200 Lbs (20)	200 Lbs (20)	190 Lbs (19)	190 Lbs (19)
CHOCKS	None-mast touches front of gate	1 chock-12mm	2 chocks-24mm	2 chocks light crews 3 chocks heavy crews	2 chocks-24mm
KICKER/ MAINSHEET TENSION	Loose leech tension set with mainsheet. Keep leech open for speed	Leech controlled by mainsheet tension. As wind increases use kicker to stop leech twisting in gusts	Use kicker to stop leech twist & also to flatten by pulling it on in gusts to bend mast. Release in lulls to power up.	Use to limit twist & de-power main by flattening	As much as you dare
REASON		2 nd top tell tale should be stalling 50% of the time		To control twist & blade out mainsail	
CUNNINGHAM (close hauled)	None	None	None	Apply carefully too much looses you pointing	Quite tight no creases
JIB LUFF TENSION	Small wrinkles visible off luff wire	Tighten just until all wrinkles disappear	Tighten just until all wrinkles disappear	Pull a little more to tension cloth very slightly	
JIB SHEET TENSION	Sheet so all 3 luff tell tales stream together			Sheet so upper windward tell tale is lifting more than bottom	
OUTHHAUL	Tight-hard crease visible 10cm above boom	Tight-but do not have any tight creases or distortion in any way	Tight-but do not have any tight creases or distortion in any way	Tight-but do not have any tight creases or distortion in any way	Very tight
CENTREBOARD POSITION	Right down	Right down	Raise 3 – 8cm	Raise 10 – 12cm	Raise 12cm
BARBERHAULER	Barber haul the windward jib sheet in all conditions except the extremes				None

NOTE: A good slot shape is generally obtained by easing the leeward jib-sheet ½" - 1" and then pulling on the windward sheet hard.

CUNNINGHAM- may also be used on a fetch in strong winds as well as a spinnaker reach as a last resort. This flattens the sail, opens the leech and spills the wind.

MAST RAKE- measure from top black band to gooseneck (4915/16' 1 ½") to set halyard position, then read mast rake to top of transom

MAST FOOT POSITION- 2815 from the inside of transom to aft of mast – 110mm from the inside of bulkhead of aft mast (for new Rondar)