



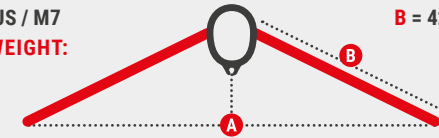
# FIREBALL TUNING GUIDE.

TUNING IS KEY TO PERFORMANCE – P&B TUNING GUIDES ARE CREATED, TRIED AND TESTED BY OUR SAILORS AND BRAND AMBASSADORS.

## CROSS SECTION VIEW OF MAST + SPREADERS

**MAST:**  
CUMULUS / M7  
**CREW WEIGHT:**  
81-85kg

**A = 160mm**  
**B = 420mm**



Measurement **A** is taken from shroud to shroud. Measurement **B** is taken from the mast groove to a straight line taken from shroud to shroud.

### SPREADER ANGLE:

24 stone **A:** 422mm / **B:** 200mm  
26 stone **A:** 430mm / **B:** 185mm  
28+ stone **A:** 430mm / **B:** 170mm

<b>WIND SPEED (KNOTS)</b>	1-4	1-4	5-9	5-9	10-15	10-15	16-20	21 - UP
<b>SEA CONDITION</b>	Flat	Choppy	Flat	Choppy	Flat	Choppy	-	-
<b>MAST RAKE</b>	6858mm	6908mm	6908mm	6908mm	6858mm	6858mm	6807mm	6781mm
<b>RIG TENSION</b> (JIB LUFF SUPER SPARS GAUGE)	181kg	181kg	181kg	181kg	181kg	181kg	181kg	158-181kg
<b>KICKER</b>	None	None	A bit	A bit	-	-	Loads	Loads
<b>REASONS</b>	-	-	Top telltales stalling 30%	Top telltales stalling 30%	Top telltales stalling 30%	Top telltales stalling 30%	To control twist and blade out mainsail	To control twist and blade out mainsail
<b>CUNNINGHAM</b>	None	None	None	None	None	None	Yes	Yes - A lot
<b>JIB FAIRLEADS</b>	Lower line	Middle line	Lower line	Top line	Middle line	Top line	Top line	Top line
<b>JIB FAIRLEADS FROM CENTRELINE</b>	260mm	260mm	260mm	265mm	265-270mm	265-270mm	275-300mm	300mm
<b>JIB SHEET TENSION</b>	Normal	Ease 0.5cm	Normal	Normal	Normal	Normal	Ease 0.5cm-1.5cm	Ease 1.5cm-2cm
<b>STRUT</b> (FROM NEUTRAL)	0	0	0	0-0.5cm	0	0-1.5cm	0-2cm	2cm
<b>JIB LUFF TENSION</b>	Wrinkles	Wrinkles	Wrinkles	Wrinkles	No wrinkles	No wrinkles	Tight	Tight
<b>CENTREBOARD POSITION</b>	Forward	Forward	Forward	Forward	Upright 2.5cm	+2.5-6cm	+6-10cm	+10-12cm
<b>OUTHAUL</b>	Tight	3.8cm	2cm	2.5cm	0.5cm	1.3cm	Very tight	Very tight

**MAST RAKE:** Measured from top black band ie tape measure should read 4248mm to top of black band at gooseneck then read rake at top of the transom.

**PRE-BEND:** Rig tension on, main halyard tight to gooseneck, pre-bend equals distance at spreader height from mast track to halyard.

**DATUM:** this is a pre-bend of 25mm at spreader height.