

GEARS		RAKE	TENSION PT-1	SHROUDS Sta-Master	SHROUDS Ronstan Small
<b>1<sup>st</sup> Gear "L"</b>	Light/Base 0-7 knots	21' 7" 6580mm	18	--	--
<b>2<sup>nd</sup> Gear "LM"</b>	Light/Medium 8-12 knots	21' 6" 6555mm	19	-5 Faces	-1/2
<b>3<sup>rd</sup> Gear "MH"</b>	Medium/Heavy 13-18 knots	21' 5" 6525mm	20	-7 Faces (Base -12)	-1/2 (Base -1)
<b>4<sup>th</sup> Gear "H"</b>	Heavy 18-22 knots	21' 4" 6500mm	21	-5 Faces (Base -17)	-1/2 (Base -1 1/2)
<b>5<sup>th</sup> Gear "H+"</b>	Heavy Plus 22+ knots	21' 4" 6500mm	24	-9 Faces (Base -26)	-1 (Base -2 1/2)

SPREADERS	
LENGTH Mast to Shroud	DEFLECTION Tip to Tip
16 7/8" 4285mm	29 1/2" 750mm

<b>MAST BUTT</b>	60" Mark
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Wind ranges for each "step" are approximate. Each team combination is different and may de-power through the given steps at different times.

**"Rake"** is measured with main halyard locked and tape measure "zeroed" at the main halyard shackle. Measure to the top and center of the transom crease. For JibeTechs, subtract 1/4" from the shown measurement (thusly, 21' 7/4" shown actually equals 21' 7")

**"Tension"** refers to the shroud tension. Place the PT-1 gauge roughly at eye-level, approximately 3' above the deck when boat is sitting on its dolly.

**"Spreader Length"** is measured from the side of the mast in front of the spreader bracket attachment tab to the center of the shroud where it intersects the spreader tip

**"Deflection" or "Tip-to-Tip"** is measured with the spreaders "locked" aft such that both spreaders are engaged internally at the leading edge of the spreader bracket. This will have to be done with manual pressure with the boat on its side or mast out of the boat. The measurement is from shroud-to-shroud at the spreader tips.

All numbers based on spreader placement in the forward spreader tip hole or center hole if that is the only option.

Even the spreaders vertically such that they are slightly above parallel to the horizon and equidistance from the shroud attachment point at the hounds. This can be checked with a simple visual from behind the boat.

With spreaders that have adjustable inboard ends, zero out the screws such that the leading edge is flush with the spreader piece. To achieve the correct deflection, count even turns on both starboard and port. Use full and half turns as needed. At this stage, the deflection may measure correctly but the fore-aft evenness of the spreaders/shrouds should be confirmed (e.g. one spreader might be more forward or aft than the other). Sight the shrouds at approximately the 50% mark between the deck and spreaders. Tip the boat to its side slightly in order to properly line-up the shrouds visually from the shroud adjusters at deck to the spreader tips. Make certain the spreaders are locked aft (buy pulling forward on the mast either with mast ram or crew manually pulling while standing on deck). Visually, the shroud in the distance should be covered completely by the shroud in the foreground. Adjust full turns on the spreader as needed to accomplish this (many times a 1/2 turn will do). Recheck deflection after this is complete.

