



Viper 640 Tuning Chart

Wind Strength in Knots	0-7	8-11 (Base)	12-15	16-19	20+
Headstay 7571mm bearing point to center of pin	52" Arc Method	52" Arc Method	52" Arc Method	52" Arc Method	52" Arc Method
Shroud Tension (PT1)	22	24-25	30	35	40
Uppers (full turns)	-1	24-25	+2 turns	+4turns	+6 turns
Lowers (full turns)	-1	4 ¼"	+1 turn	+2 turns	+ 3 turns
Shroud Gap	4"	4 ¼"	4 ½"	4 ⅝"	4 ¾"
Mast Chocks	2 ⅛"	2 ⅜"	2 ¾"	2 ¾"	3"- 3¼"
Pre-bend	1"	1 ½" - 2"	2 ½"	3"	3 ½"
Spreader Sweep (275mm class minimum)	290 - 300	290 - 300	290 - 300	290 - 300	290 - 300
Outhaul (mid-foot from boom)	5" - 6"	1" - 3"	Tight	Tight	Tight
Upwind Vang Tension	Off	Off	Snug - Tight	Max Tight	Max Tight
Jib Lead Position (from aft)	6 Holes Showing	5-6 Holes Showing	5 Holes Showing	5 Holes Showing	4 Holes Showing
Jib Luff Tension	Wrinkles	Slight Wrinkles	No Wrinkles	No Wrinkles	Tight
Spinnaker Tack Line	Tight	Eased 2" - 4"	Eased 1" - 3"	Tight	Tight
Cunningham	Slight Wrinkles	Slight Wrinkles	No Wrinkles	Tight	Tight

- Mast Step: Measure flush from transon where the rudder pylon and floor meet, to the rear of the mast.
- Arc Method: Pull forestay to the mast. Mark forestay with tape to TOP of white mast rigging band. Measure 52" from top of tape to center of forestay pin.
- 146 7/8" for the new Rondar MK III boats. Put aft pin second hole on the mast plate. 148" for the Bennett and Rondar MK II boats.
- Spreader sweep is measured distance from mast, to a board or line connecting the bearing points of the two spreader tips.
- 7571 mm = 298 inches | 290 - 300 mm = 11.4 to 11.8 inches
- Shroud gap = measurement between the lowers and uppers 1 meter (3 ft. 3.37") up from the deck.
- The above guide is for a crew weight of approximately 590 lbs. (268 kg.) Adjust accordingly for crew weight of 560 - 630 lbs. (254 - 286 kg.)