



Racing Guides

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Viper 640 Tuning Guide

Wind Strength in Knots:	0 - 7	8 - 11 (Base)	12-15	16-19	20+
Headstay (Using Arc Method from top of band on mast)	52"	52"	52"	52"	52"
Uppers (Full Turns):	- 2	24	+ 3-4 turns	+ 5-7 turns	+ 8 turns
Lowers (Full Turns)	- 8	Barely Registering	+ 2 turns	+ 3 turns	+ 1 turns
Shroud Gap	TBD	TBD	TBD	TBD	TBD
Mast Chocks	2 1/8"	2 3/8"	2 3/4"	Max	Max
Pre-bend	1"	1.5" - 2	2.5"	3"	3.5"
Spreader Sweep (275 mm Class minimum)	290 - 300	290 - 300	290 - 300	290 - 300	290 - 300
Outhaul (mid-foot from boom)	6" - 8"	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	slight wrinkles	no wrinkles	tight
Spinnaker Tack Line	tight	eased 2" - 4"	eased 1" - 3"	tight	tight
Cunningham	wrinkles	slight wrinkles	wrinkles out	tight	tight

Mast Step: Measure flush from transom where the rudder pylon and floor meet, to the rear of the mast.

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.

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.

Spreader sweep is measured distance from mast, to a board or line connecting the bearing points of the two spreader tips.

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.)