

<u>In All Conditions</u>	<u>Key Thought</u>	<u>0-6 Knots Wind</u>
Shrouds 800 lbs Upper Shrouds 300 lbs Lower Shrouds Check Mast is centered by using Jib Halyard to measure to Shroud base Check Mast is straight by sighting up aft face	Forestay Datum	Develop boat speed -- foot to keep boat moving Keep Luff telltales on Jib flowing by cont. adj. sheet Use Tiller to steer as Traveler is not yet effective Sail shape moderately full; twisted
Partners Make sure Mast cannot move / pump	Crew Position	All to leeward and forward Helmsman steers from leeward side
Jib Lead Leave in center of T track -- not worth adjusting	Traveler (1 of 3 most important sail controls)	2/3 to weather rail but keep Boom below Center Line Use Tiller rather than Traveler in these conditions
Vang Do not use upwind ever In light air, let the Boom be raised by puffs	Mainsheet (1 of 3 most important sail controls)	Ease so that Boom sits 6-10" to Leeward of Center Line
Outhaul Outhaul is not eased in most conditions going upwind On a run also leave trimmed to maximize (see notes for small adjustments)	Jib Sheet (1 of 3 most important sail controls)	Back end of middle batten even with Spreader Trimmer has sheet in hand to trim in puffs and ease in lulls -- keep Luff telltales flowing
	Backstay Datum	Only enough to steady headstay Want maximum sag in headstay
	Jib Luff / Halyard	New Jib, wrinkles 4-6" into sail Older Jib, wrinkles 4-6" into sail
	Cunning. / Main Halyard	Loose enough to get 3 or 4 FEET of wrinkles in lower half of Luff
	Outhaul	Tight enough to completely close shelf between Boom and bottom of sail

<u>6-13 Knots and Smooth Water</u>		
Key Thought	<p>Point high Sails fuller than 0-6 knots Sails not twisted Use Traveler to steer, minimize Tiller</p>	
Forestay Datum	<p>48" above deck (add Merriman/use turnbuckle) Forestay Datum = Forestay is marked at top of Mast Band which is 2' 5" above Deck</p>	
Crew Position	<p>Two to leeward, one to weather Helmsman steers from weather side</p>	
Traveler (1 of 3 most important sail controls)	<p>Set so Boom is 2" to leeward of Cntr Ln Helmsman to play continuously to balance helm in all conditions and minimize Tiller movement (which avoids the time lag of Tiller action as well as unnecessary drag) Traveler to windward = turns up, to leeward = turns down; in a puff, ease, reach speed, pull up to point and feather (not using Tiller if possible)</p>	
Mainsheet (1 of 3 most important sail controls)	<p>After half of top batten 5 degrees to WEATHER of parallel to Boom</p>	
Jib Sheet (1 of 3 most important sail controls)	<p>Back end of middle batten 2" in from Spreader Use Jib leach telltales</p>	
Backstay Datum	<p>8 inch setting Backstay Datum = Backstay is marked at 11" from bottom of Mast; use 12 inch gauge on aft deck</p>	
Jib Luff / Halyard	<p>New Jib, wrinkles of 2-3" into sail Older Jib, slight wrinkles of 2-3" into sail</p>	
Cunning. / Main Halyard	<p>Leave some wrinkles in lower half As sail gets older, the rope shrinks so that more Cunningham / main halyard is needed to keep upper half of sail smooth</p>	
Outhaul	<p>Tight enough to completely close shelf</p>	
Ease so 2 " of shelf shows		6-13 Knots and Waves

	<u>13-18 Knots and Smooth Water</u>	<u>13-18 Knots and Waves</u>
Key Thought	Point high Sails full Sails not twisted Use Traveler to steer, minimize Tiller	Sails moderately full Substantial twist as angle of attack varies with waves
Forestay Datum	47" above deck (standard rake -- may include Merriman to be removed for 46") Forestay Datum = Forestay is marked at top of Mast Band which is 2' 5" above Deck	
Crew Position	Some weight on rail to maintain heel angle leeward rail 6"-10" above water	Same as Smooth Water Helmsman to be able to see waves
Traveler (1 of 3 most important sail controls)	Set so Boom is 4" to leeward of Cntr Ln Helmsman to play continuously to balance helm in all conditions and minimize Tiller movement (which avoids the time lag of Tiller action as well as unnecessary drag) Traveler to windward = turns up, to leeward = turns down; in a puff, ease, reach speed, pull up to point and feather (not using Tiller if possible)	Set so Boom is 4" to leeward of CnLn
Mainsheet (1 of 3 most important sail controls)	Top batten parallel to Boom	After half of top batten 5 degrees to leeward of parallel to Boom
Jib Sheet (1 of 3 most important sail controls)	Back end of middle batten 4" in from Spreader Use Jib leach telltales	Back end of middle batten 2" in from Spreader Use Jib leach telltales
Backstay Datum	6 inch setting Backstay Datum = Backstay is marked at 11" from bottom of Mast; use 12 inch gauge on aft deck	8 inch setting
Jib Luff / Halyard	New Jib, slight wrinkles of 2-3" into sail Older Jib, slight wrinkles of 2-3" into sail	New Jib, slight wrinkles of 2-3" into sail Older Jib, no wrinkles
Cunning. / Main Halyard	Pull Luff smooth As sail gets older, the rope shrinks so that more Cunningham / main halyard is needed to keep upper half of sail smooth	Pull Luff smooth
Outhaul	Close shelf and stretch more	Close shelf and stretch more

	<u>Over 18 Knots and Smooth Water</u>	<u>Over 18 Knots and Waves</u>
Key Thought	Sails flat Sails not twisted Traveler to keep heel angle constant Use Traveler to steer, minimize Tiller	Sails flat Sails twisted Traveler to keep heel angle constant Use Traveler to steer, minimize Tiller
Forestay Datum	46" above deck (remove Merriman or use turnbuckle) Forestay Datum = Forestay is marked at top of Mast Band which is 2' 5" above Deck	
Crew Position	Hike hard over the rail Helmsman to be able to see waves	Same as Smooth Water Helmsman hikes too
Traveler (1 of 3 most important sail controls)	Set so Boom is 4" to leeward of Cn Ln Helmsman to play continuously to balance helm in all conditions and minimize Tiller movement (which avoids the time lag of Tiller action as well as unnecessary drag) Traveler to windward = turns up, to leeward = turns down; in a puff, ease, reach speed, pull up to point and feather (not using Tiller if possible)	Play continuously to balance helm
Mainsheet (1 of 3 most important sail controls)	After half of top batten 10 degrees to leeward of parallel to Boom	After half of top batten 20+ degrees to leeward of parallel to Boom
Jib Sheet (1 of 3 most important sail controls)	Back end of middle batten 4" in from Spreader Use Jib leach telltales	Back end of middle batten 4" in from Spreader Use Jib leach telltales
Backstay Datum	4 inch setting May not be able to get Backstay this tight if headstay has been shortened Backstay Datum = Backstay is marked at 11" from bottom of Mast; use 12 inch gauge on aft deck	4 inch setting
Jib Luff / Halyard	New Jib, slight wrinkles of 2-3" into sail Older Jib, slight wrinkles of 2-3" into sail	New Jib, slight wrinkles of 2-3" into sail Older Jib, no wrinkles
Cunning. / Main Halyard	Pull Luff max hard As sail gets older, the rope shrinks so that more Cunningham / main halyard is needed to keep upper half of sail smooth	Pull Luff max hard
Outhaul	Pull shelf closed then another 1" Wrinkle parallel to foot when luffing	Pull shelf closed then another 1" Wrinkle parallel to foot when luffing