

How to Measure Mast Rake:

- 1) Load the jib halyard tension to 15 on the tension gauge.**
- 2) Tie the tape measure onto the main halyard (make sure it will not come off).**
- 3) Pull the main halyard up and hold the tape measure down the aft of the mast until it reads 4140mm at the top of gooseneck black band.**
- 4) Cleat off main halyard and recheck.**
- 5) Take the tape measure to the back of the boat and measure the mast rake at the back edge of the top of the transom on the centreline. On a plastic boat make allowance for the lip over the transom that goes beyond where the transom would finish on a wooden boat**

Cadet Setup Upwind

| CLASS | Cadet | | | | | | | | | | |
|-------------------|---|---|---------------------------------------|--|--|--|---|---|---|---|--|
| | UPWIND | | | | | | | | | | |
| | Boat balance | Boat trim | Dagger board | Mainsheet tension | Kicker | Outhaul | Downhaul | Jib barber hauler | Jib sheet | Mast Rake | Rig Tension |
| L W i g n h d t s | Slight, constant leeward heel (5°s) | Slightly bow down. Crew on thwart helm up to shroud | fully down upwind | Close the upper leech with weak tell tale activity. More tension in the gusts (couple of clicks) ease when passed. | No Tension at all, leech is controlled with mainsheet tension | Fully on if very light to achieve a flat sail upwind. If there is some breeze ease by 20 mm. | no tension at all | For flat water use the barber can pull the clew to within 200mm of the mast. For chop move it out to 250mm. | In very light winds lift the clew by hand to open the fourth corner. As the wind builds gently apply sheet tension but keep fourth corner open. | 5000mm | 13 to 15 on a professional loose gauge (with spring) |
| M e W d i n u d m | Upright at all times, slight weather helm | Neutral trim, crew on side deck by shroud, helm with front leg brushing thwart | fully down upwind | Use mainsheet to control movement of boom towards and away from centre line to keep the boat upright. | Enough tension to create intermittent stalling of the top tell tale on the mainsail. | Ease up to 25mm upwind. Downwind ease off until foot shelf is fully released, this could be as much as 60mm. | No tension until overpowered, then progressively pull Cunningham on more to remove creases in the luff. | For flat water use the barber can pull the clew to within 200mm of the mast. For chop move it out to 250mm. | Jib sheet tension increases as fourth corner opens | between 5000mm (heavyweights) and 4950mm (lightweights) | 15 on a professional loose gauge (with spring) |
| S t W r i o n d g | Upright at all times, slight weather helm | slightly aft trim, crews back leg brushing thwart, helm front leg 100mm aft of thwart | Experiment with board up 75mm upwind. | Use mainsheet to control movement of boom towards and away from centre line to keep the boat upright. | Lots of kicker but if boom is out over the gunwale all the time, ease off kicker two inches to allow more twist and get the boom away from jib exhaust | Fully on to flatten the base of the main upwind. If you can reach the control without capsizing then you could ease until foot shelf is fully released | Pull as hard as you can to open up the leech of the mainsail and depower the boat. | Barber hauler should be no closer than 250mm, and possibly outboard if mainsail backs significantly. | Jib sheet tension increases as fourth corner opens until the jib begins to backwind the mainsail. | 4970mm if it's just windy to 4950mm if it starts truly howling. | 15 on a professional loose gauge (with spring) |

Remember this is only a guide and helps set up your boat.