

OVERVIEW

This tuning guide for the San Juan 21 will help you set-up your boat, mast, and sails for a variety of sailing conditions.

BOAT & MAST SET-UP

The set-up of your boat and mast is extremely important as the San Juan 21 has to develop leeward helm problems.

Mast Step

The mast step should be located in the maximum aft position allowed by the class. This measurement is 98 1/2 inches from the bow.

Spreader Length

The spreaders should be cut to the minimum length of 25 inches, measured from the side of the mast.

Mast Rake Measure

The mast rake by hosting a tape measure up on the main halyard to the black band at the top of the mast Pull the tape taut and make sure that the backstay adjuster is not on tight. Measure to the bottom of the transom on centerline. The rake measurement should be:

0 - 7 knots 27 ft. 8.5 in.

7+ knots 27 ft. 11 in.

Adjust headstay turnbuckle to achieve above lengthens.

Mast rake should be adjusted before launching and should be set to the day's expected conditions.

Rig Tension

The shrouds need to be adjusted to various conditions and when you adjust mast rake. As the mast is raked aft the shrouds will need to be tightened to take up the slack and visa versa when the mast is raked forward. You should also check to make sure that the mast is centered in the boat on a regular basis. To check this, take your tape measure on the main halyard and measure to the nub rail at the chainplates on both sides of the boat. The measurement should be the same on both sides. Adjust the upper and lower shrouds so the Port and Starboard measurements are equal and the mast is straight athwartships. Next tension the rig.

With a Loos gauge, check the tension on the upper and lower shrouds The rig should be set at:

Under 10 Knots 150 lbs. Upper and Lower Shrouds

Over 10 Knots 300 lbs. Upper and Lower Shrouds

After tensioning the rig, check again that the rig is centered and straight athwartships. Always use the same place to check your measurements. It is recommended that if you are unsure of the conditions you are going to be sailing in, average the settings and err to the loose side of the settings.

SAIL TRIM

MAINSAIL

Halyard setting should be so that the head of the mainsail is at the black band.

Light Air Set-up (0 - 7 Knots) Upwind

- Backstay setting needs to be loose so as to not bend the mast, but tight enough to support the headstay allowing for 4" to 5" of sag (see Genoa set-up).
- Outhaul eased so that there is 3" of depth to the sail at the boom, For very