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The aim of this manual is to initiate those that are new to the art of sailing and to familiarise others to GRAVITAS.

The art of sailing is not very complicated but the skill of racing is both complicated and requires a sense of dedication, awareness, risk taking and above all a desire to win.

Only when the whole crew work together and to the best of their abilities will the boat be competitive and success will come.

Gravitas is a 'one design' S80 class that is built to a strict class design allowing it to compete in the most challenging form of racing, against other boats identically built as yours allowing the skill of the crew to be a major factor as to who wins the race.

Sandy as the owner & skipper has put his soul and money into his boat and wants desperately to find success in both the one design and mixed fleet races.

As crew you are shielded from the costs of running a racing yacht but you are expected to give in other ways such as commitment to the boat and the racing calendar, gaining skills in your duties, being proactive onboard and giving your best efforts during a race.

Only when we work as a team will we truly be a racing boat capable of beating all before us.

SPECIFICATIONS:

Length: 8 metres Sails: Battened Main Sail

Crew: 5 No.1 Genoa

Class: Division 3 PHC No.2 Genoa

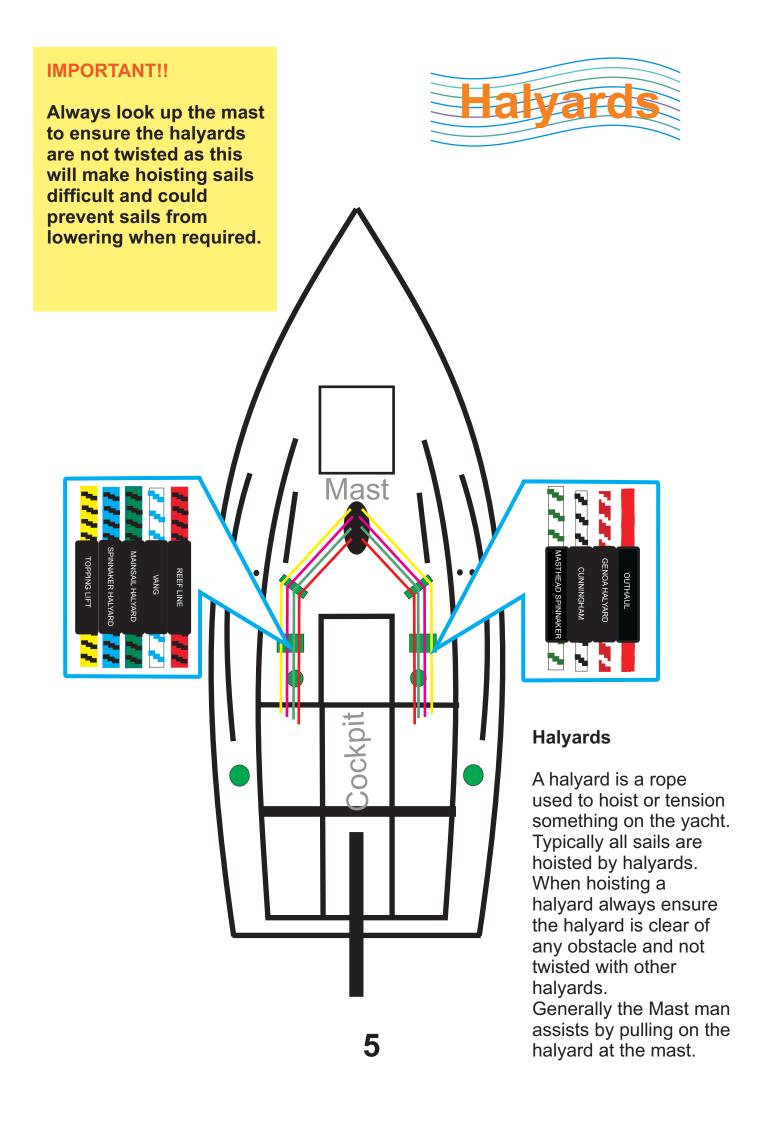
S80 in State Championships No.3 Genoa

Club: Royal Victorian Yacht Club Spinnaker X2

Berthed: Pen D3

BASICS -

Getting to know the boat



IMPORTANT!!

Do not put too many wraps around the winch when initially pulling in the sheet on a tack as this could give you a overrun which will lock the winch.

Sheets

SPINNAKER SHEETS

Ensure they are run OUTSIDE everything and do not go through the life lines until the rear ratchet block

TWEEKER

The Tweeker is a fine tune for the Spinnaker sheet and is used to bring the Clews of the Spinnaker even for maximum performance.

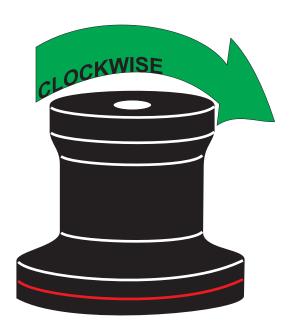
Sheets

A sheet is a rope used to control and adjust the sails.

Typically all sails are adjusted by sheets. When trimming a sail always ensure the sheet is on the appropriate winch.

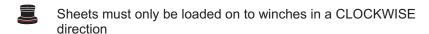
Tweekers are adjusted by hand as they are only a fine tune for the Spinnaker Sheets.

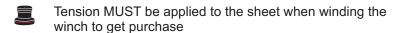
Mast







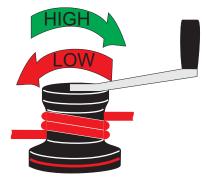




Beware of trapping your fingers between the sheet and the winch (It hurts)

When bringing in the slack sheet during a tack DO NOT over load the winch (1 or 2 wraps at most) or you will create an overrun where the sheet is pinched by itself

If overrun occurs try to release the pressure on the sheet and unwind to free it, once free re-wrap the sheet onto the winch and trim



Winding the winch handle in a CLOCKWISE direction will be the high geared direction allowing fast retrieval of the sheet

Winding the winch handle in an ANTI-CLOCKWISE direction will be the low geared direction allowing more torque on the sheet

To ease the sheet just ease the pressure of the sheet on the winch drum, be careful not to release it too quickly as this will upset the trim of the boat and the Skipper

Always replace winch handles in the pockets in the cockpit



Bowline Knot

The Bowline Knot is the most important knot used on a yacht as it connects the Genoa sheets to the sails. This knot can easily be undone.

1.

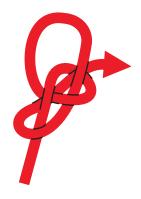
Create a loop in the sheet.

2.



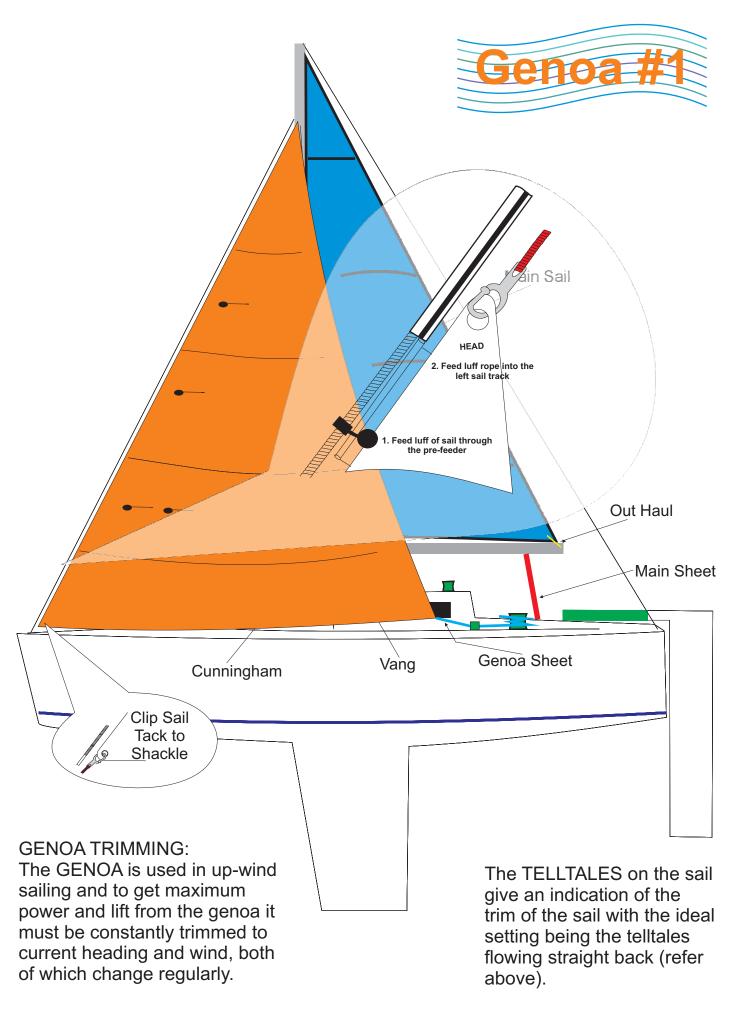
Feed the sheet through the clew and then through the loop.

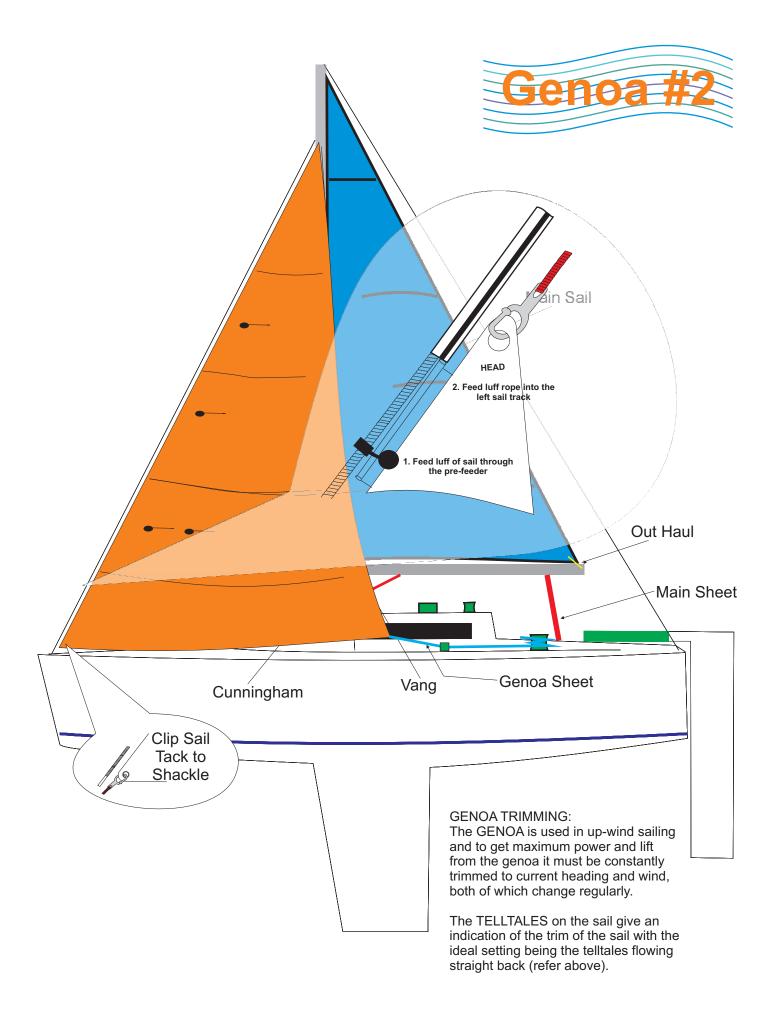
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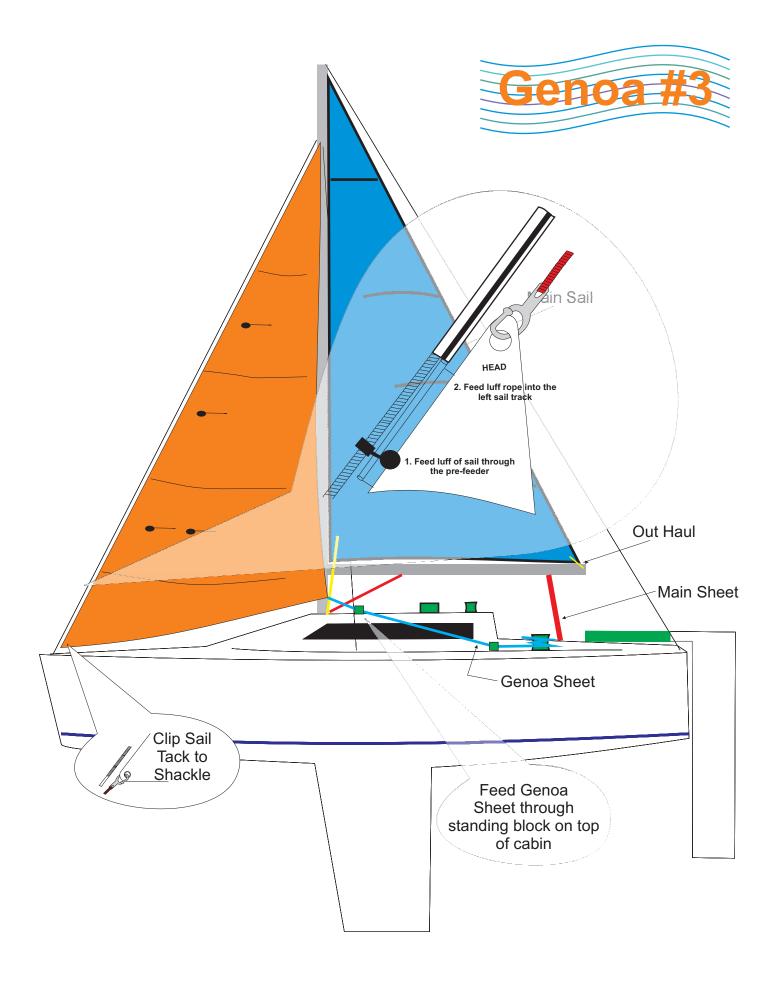


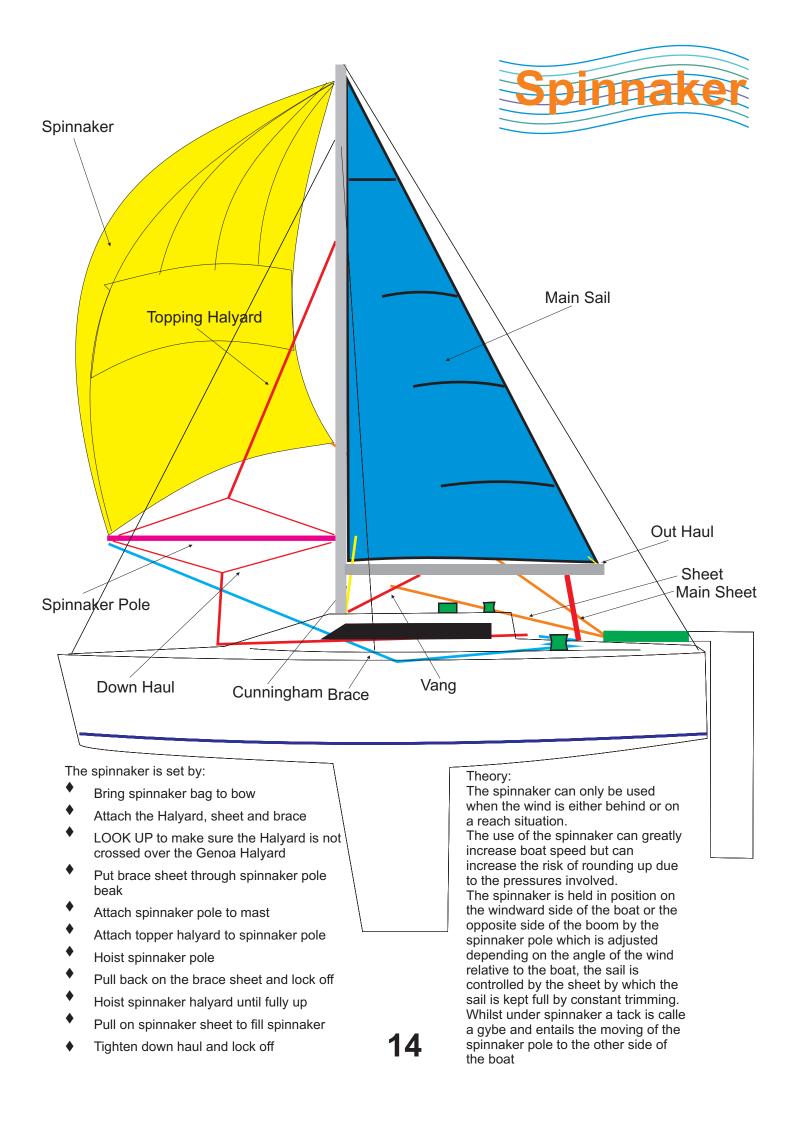
Pass sheet around the main sheet and back through the loop, leave a tail and pull tight.











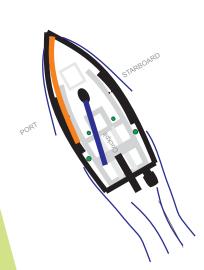
Sailing Techniques -

Moving the boat





New Tack



SETTING NEW COURSE

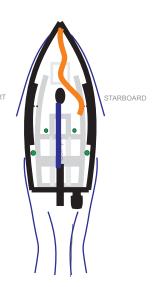
Generate good boat speed

Bring **crew** onto the rail

Man the winches

If on PORT tack keep watch for other yachts

Head to Wind



TACKING

As boat comes head to wind release loaded Genoa sheet

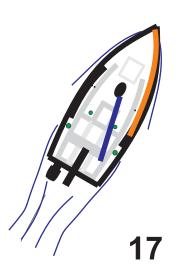
Bring Genoa across the boat by pulling the slack Genoa sheet

Winch on the Genoa sheet until trimmed

Lock Genoa sheet into cleat

Boom swings across the boat during the tack

Original Tack



SETTING UP TO TACK

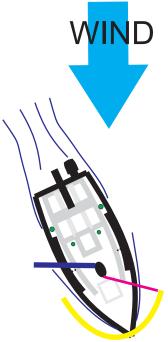
Generate good boat speed

Bring **crew** off the rail

Man the winches

Whilst looking forward **prepare** to tack

Load up Genoa sheet to winch on the windward side of the boat





tack'

down wind



PREPARING TO GYBE

Bowman & 1X Trimmer goes forward



Tactician/Skipper check gybe angles



Mainsheet takes both Spinnaker sheet and brace in hand (forward of the main sheet track)



Tweekers are brought to the deck

GYBING



Skipper squares up the boat to a **Square Run**



Trimmer releases down-haul sheet



Bowman disconnects pole from old brace sheet



Mainsheet floats the spinnaker to keep it full, easing sheets as required to assist in the gybing of the pole



Trimmer un-clips pole from mast and attaches it to the new brace sheet



Bowman attaches the pole to the mast and calls "MADE"



Skipper gybes the boat



Trimmer secures brace



Trimmer tunes spinnaker

SETTING NEW COURSE



Generate good boat speed



Bring crew onto the rail

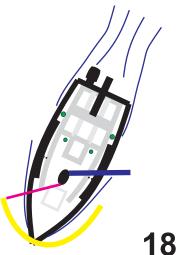


Man the winches



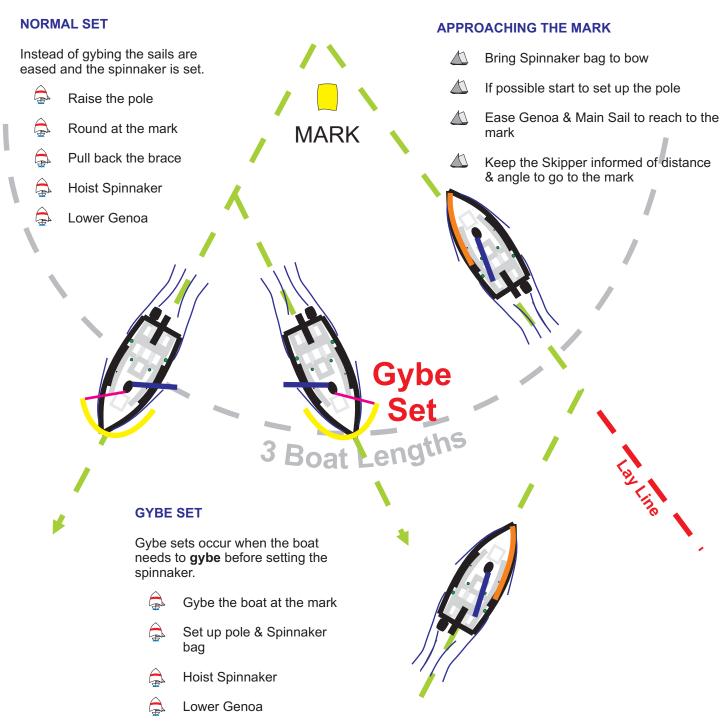
If on PORT tack keep watch for other yachts











RULES AT THE MARK

To avoid collisions the overlap rule comes into play as yachts approach the mark.

If you have an overlap with the yacht ahead when it reaches the 3 boat length mark **it must** give you room at the mark.





APPROACHING THE MARK

Check the Genoa Sheets are free from downhaul



Feed Genoa through Feeder and into track



Raise the Genoa and bring on Genoa Sheet to fill sail



Grab Spinnaker Sheet forward of the Tweeker and from over the top lifeline



Bring Spinnaker Pole forward and lower slightly



Fire the Spinnaker Brace Sheet and lower the Spinnaker Halyard



Lower the Spinnaker behind the Genoa

ROUNDING THE MARK



Begin to retune Main Sail for the beat, bring on the Outhaul, Vang & Backstay



Keep the Skipper informed of distance & angle to go to the mark

"This is a Critical transition as time lost here is hard to get back!"

