

- **Battens** – Plastic stiffeners in the sail which help to give it shape
- **Bear Away** – Turn the boat away from the wind
- **Beating** – Pointing the boat as close to the wind as possible with the sail pulled in
- **Boom** – Horizontal spar attached to the mast which controls the foot of the sail
- **Bow** – front of the boat, also called the stem
- **By the Lee** – sailing downwind with the boom and sail on the windward side
- **Clew** – Back lower corner of the sail
- **Crossbeams** – Aluminium tubes that hold the hulls together
- **Cunningham** – (or tack downhaul) control line to tighten the luff, or front edge, of the sail
- **Falls of Rope** – The part of the rope hanging between two points
- **Foot** – Bottom edge of the sail
- **Gudgeon** – Bracket with hole for locating a pintle
- **Gybe** – When sailing downwind, turning away from the wind or moving the sail so that it swings from one side of the boat to the other
- **Gybing Lines** – Lines attached each side to the kicker boom to pull out or gybe the sail
- **Head** – Top corner of a triangular sail
- **Kicker** – Other name, vang. Pulls the boom down to tension the sail leech
- **Leeward** – The side of the boat that faces downwind
- **Luff** – Front edge of the sail
- **Luff up** – Turn the boat towards the wind
- **Leech** – Back edge of the sail
- **Outhaul** – Control line attached to the clew to tighten the foot of the sail
- **Painter** – Rope attached to the bow, used for towing or tying the boat to a mooring
- **Port** – Left hand side of the boat when facing forward
- **Pintle** – Short vertical bar. Mates with Gudgeon to form a hinge for the rudder
- **Reaching** – Sailing with the wind blowing across the boat
- **Rig** – The mast, boom, sail and control lines
- **Running** – Sailing with the wind behind the boat
- **Sheet** – Rope that controls the boom and sail positions
- **Sponsons** – Outer hulls of a Challenger trimaran
- **Starboard** – Right hand side of the boat when facing forward
- **Stern** – Back of the boat. The back face is known as the transom
- **Stock** – Two cheek-plates, hinged to the stern of the boat, that hold the rudder blade.
- **Tack** – Front lower corner of a sail
- **Tacking** – Turning the boat's bow through the wind until the sail fills on the opposite side
- **Tell-tales** – Strips of material with one end attached to the sail to show the wind flow
- **Tiller** – A wood or steel pole the helmsman uses to control the rudder
- **Wake** – Small waves made by the stern of the boat as it passes through the water
- **Windward** – The side of the boat that faces the wind, or the side opposite to the boom, when Running with the wind squarely behind the boat

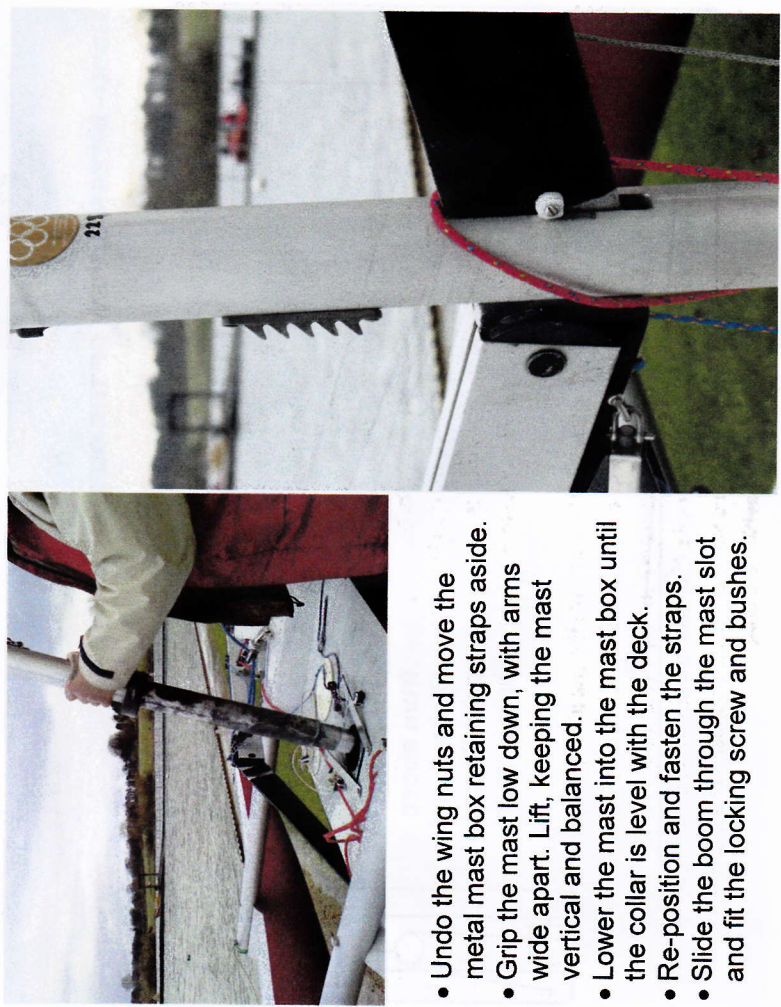
ASSEMBLY PARTS LIST

Boat Components

- 1-Main Hull with seat & control fittings
- 2-Sponson Hulls
- 2-Aluminium Crossbeams-3" & 2.5"
- 12 Crossbeam bolts with washers
- 1-Aluminium Mast
- 1-Aluminium Boom assembly
- 1-Boom retaining screw & bushes
- 2-Mainsheet blocks (1 with ratchet)
- 1-Rudder blade & Stock
- 1-Rudder T-Bar with eyebolts
- 1-Centreboard
- 1-Sail in Bag complete with 3 Battens
- 1-Stainless steel tiller assembly
- 1-Cascade Kicker & Strop Assembly

- Control Lines (4mm 16-plait pre-stretch)**
- 1-14.5Metre x 7mm dia. Mainsheet
- 1-4760mm Red - kicker control line
- 1-3500mm Yellow - Tack Downhaul
- 1-2800mm Blue - Outhaul control line
- 1-3000mm White - Centreboard uphaul line
- 1-4500mm Blue - Elastic downhaul
- 1-1000mm Blue - Tensioner rope
- 1-45mm Stainless. Tensioner ring
- 1-3700mm Red - Rudder uphaul
- 1-4500mm Green - Rudder downhaul
- 2-2400mm white - steering lines
- 2-1100mm white - Sponson grablines
- 1-4000mm x 7mm dia. painter

FITTING THE MAST AND BOOM



- Undo the wing nuts and move the metal mast box retaining straps aside.
- Grip the mast low down, with arms wide apart. Lift, keeping the mast vertical and balanced.
- Lower the mast into the mast box until the collar is level with the deck.
- Re-position and fasten the straps.
- Slide the boom through the mast slot and fit the locking screw and bushes.