

OWNER'S MANUAL

YEAR 2003



Master the Force
www.sailextreme.com

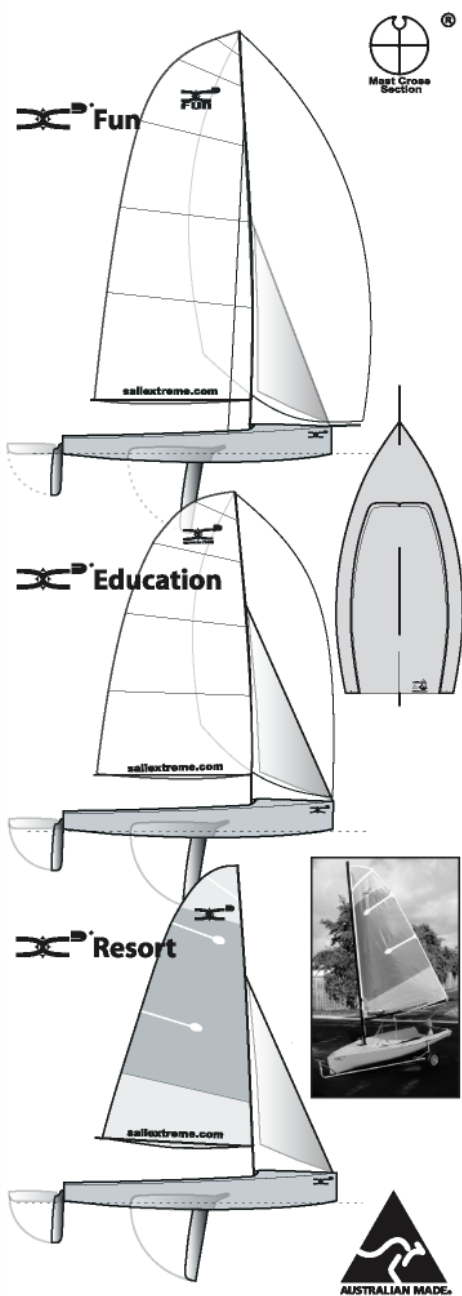
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Specifications



The X3® - the most versatile family sailboat for training , which can be easily upgraded to a fast and exciting one design racer.

The X3® - truly a sailboat for life!

Benefits:

- Quick to rig for sailing
- Fast, stable and self draining
- Durable and low maintenance
- Strict one design class rules
- Covers all skill levels and ages
- Stable and self draining

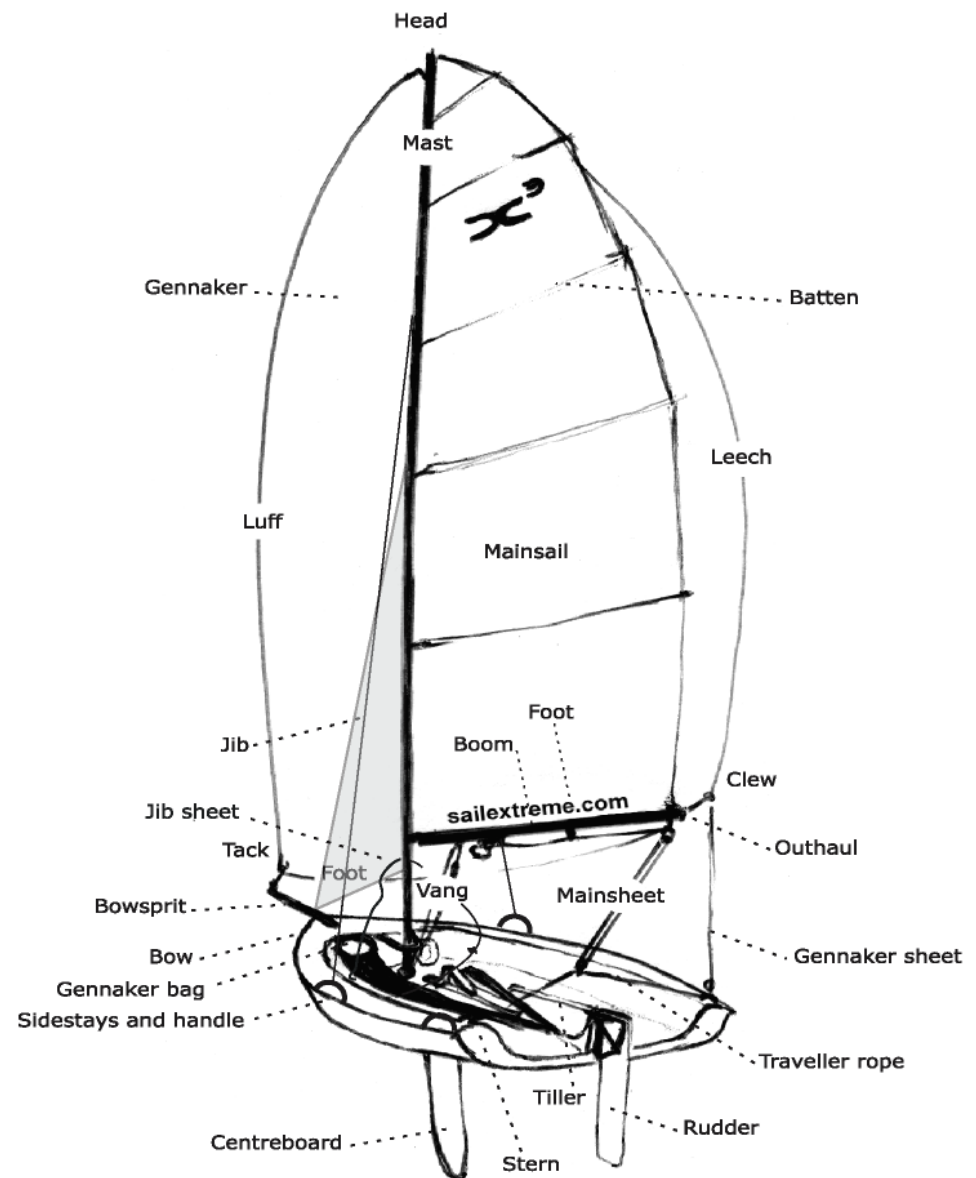
Features:

- Pivoting centreboard and rudder
- **RONSTAN** deckgear
- Internally reinforced alloy mast.
- Durable high density polyethylene hull with foamed core for stiffness.
- Sailplans can be fully upgraded

Specifications:

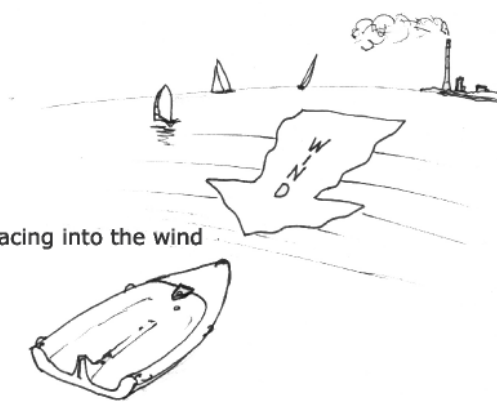
Length	3.1m
Beam	1.5m
Hull weight	55kg
Draft (with keel down)	0.9m
Draft (with keel up)	0.1m
Mast Height - Education	4.0m
Mast Height - Fun	5.0m
Boom length	1.8m
Mainsail - Education	4.0sqm
Mainsail - Fun	5.8sqm
Gennaker - Education	4.5sqm
Gennaker - Fun	8.2sqm
X3 Jib	1.0sqm

What is it called ?



Rigging the

Step 1. Setting up



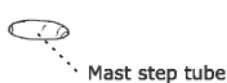
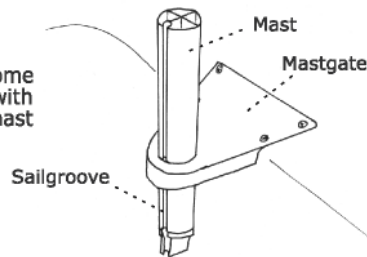
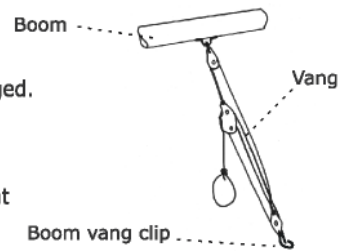
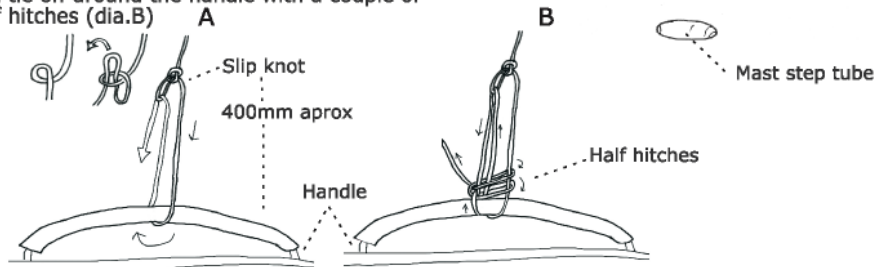
- Always set up your boat with the bow facing into the wind

Step 2. Stepping the mast

- Lay the boom in the cockpit with the vang correctly arranged.
- Make sure that all the halyard ends on the mast are tied off at waist height when the mast is stepped.
- If you have a X3 jib, connect the head with the clip onto the saddle located 2.84m up from the base and on the front of the mast (see jib set up on page 6). You can lean the boat over 90° onto it's side, and set up the jib after the mast is stepped if you wish.

- Lift the mast vertically and place it into the mastgate.
- Ensure that the sailgroove is facing aft.
- Push the mast into the mast gate, locating the mast butt plug into the step at the bottom of the tube.
- Note: When un-stepping the mast after sailing, put some downward pressure onto the aft edge of the mastgate with your foot as you lift the mast out; this will unlock the mast from the mastgate.

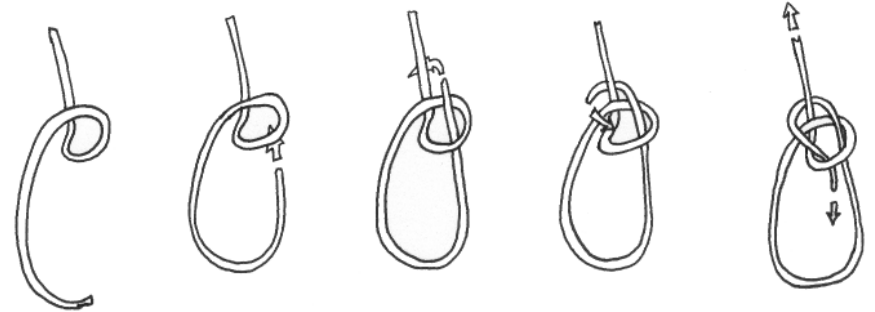
- The mast of the X3 Fun has sidestays. Tie a slip knot in each stay approx. 400mm up from the gunwale. Pass the tail through the handle in the gunwale and back up onto the slip knot. (dia. A)
- Tension rope by hand (medium tension only) and tie off around the handle with a couple of half hitches (dia.B)



Rigging the

Step 3. Hoist the mainsail

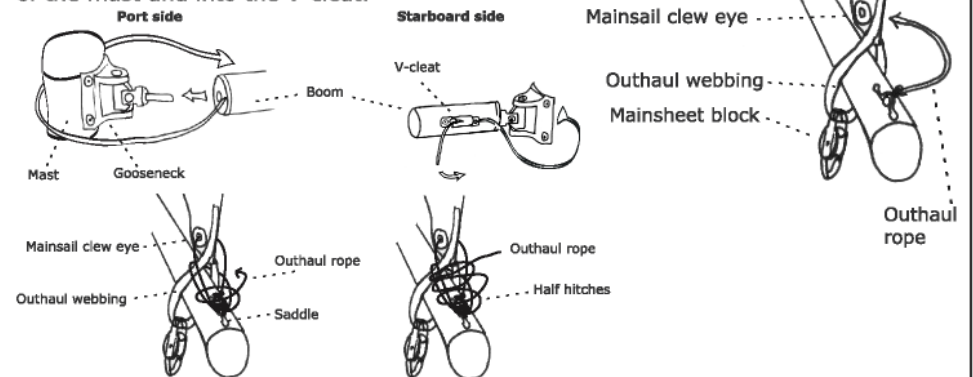
- Tie the main halyard to the head of the mainsail with a **bowline** knot.



- Feed the boltrope into the **sailgroove entry**, and hoist up the mainsail halyard. After the mainsail halyard is tight in the V-cleat, it can be stored in the pocket located on the starboard side of the mainsail near the tack.

Step 4. Boom set up

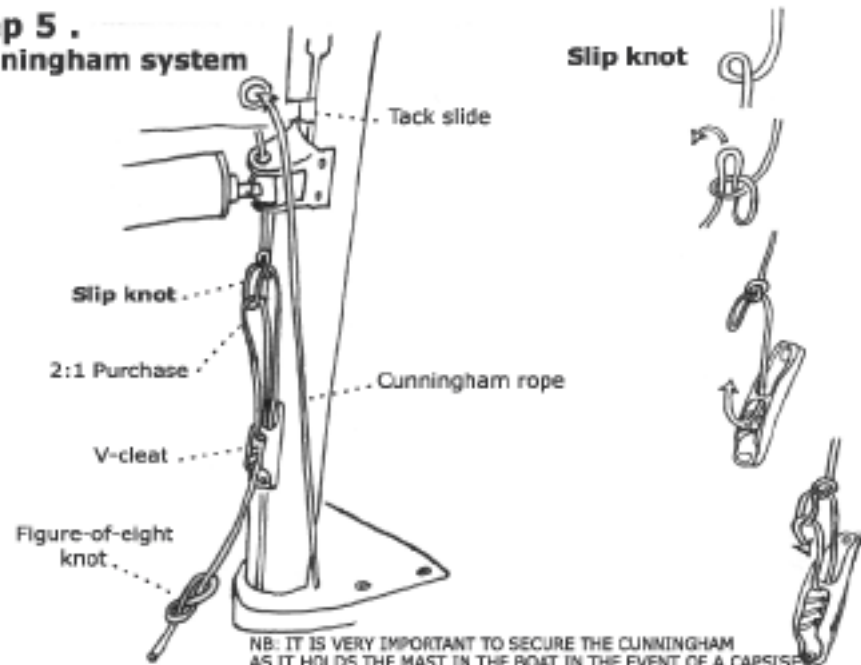
- Slide the **outhaul webbing** over the end of the **boom**.
- Connect the **boom** to the mast at the **gooseneck**; secure with the boom retaining rope around the front of the mast and into the V-cleat.



- Lead the **outhaul rope**, through the **mainsail clew eye**, then back through the **saddle**, then forward around the **outhaul webbing** and back through the **saddle**. Tension the **outhaul rope** so that the middle of the mainsail **foot** has about 100mm of shape (slackness in the foot). Secure the end of the **outhaul rope** with several **half hitches**.

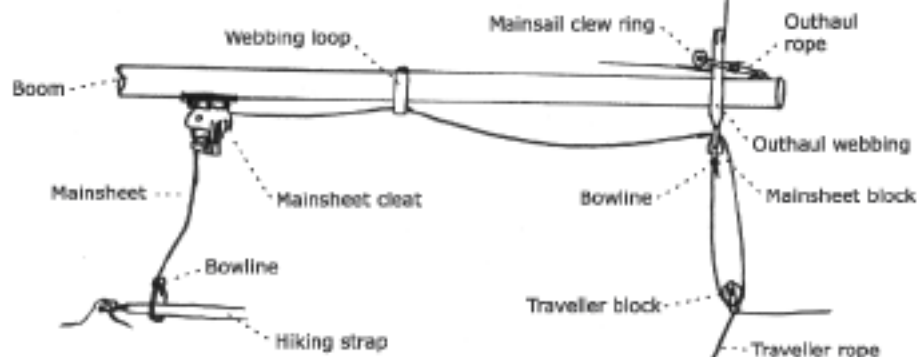
Rigging the

Step 5 . Cunningham system



Step 6 . Mainsheet setup

- Run the **mainsheet** (white rope) - follow this sketch.



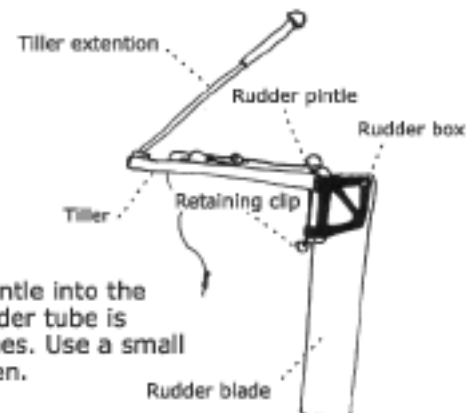
- Tie the mainsheet tail to the **hiking strap** with a **bowline knot**. Ensure that the boom does **NOT** go past 75° when the mainsheet is released all the way*.

* Under sailing load, if the gooseneck pivots past 90 degrees it **CAN BE DAMAGED!**

Rigging the

Step 7. Attach rudder

- The rudder system attaches to the stern post of the X3 by sliding the stainless steel **rudder pintle** through the **tiller**, and then through into the brass bush in the stern post.



- **Warning** - never force the rudder pintle into the sternpost, and make sure that the rudder tube is free of sand and is lubricated at all times. Use a small amount of grease, oil or even sunscreen.

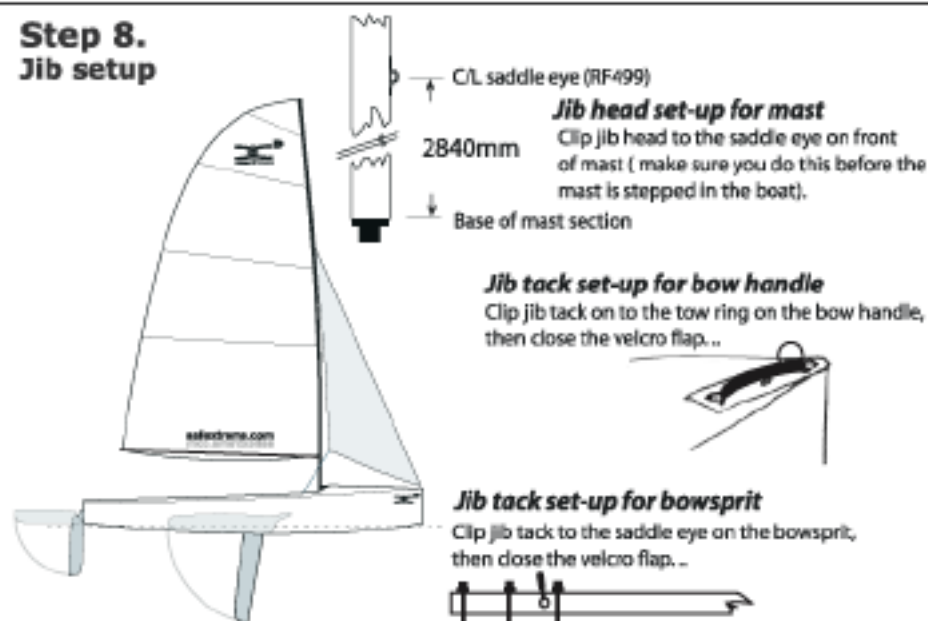
- Place the **retaining clip** through the end of the **rudder pintle**.

- Make sure that the **tiller** is under the **traveller rope**.

- After the rudder is attached, screw the **drain bung** in and you are ready to go sailing !



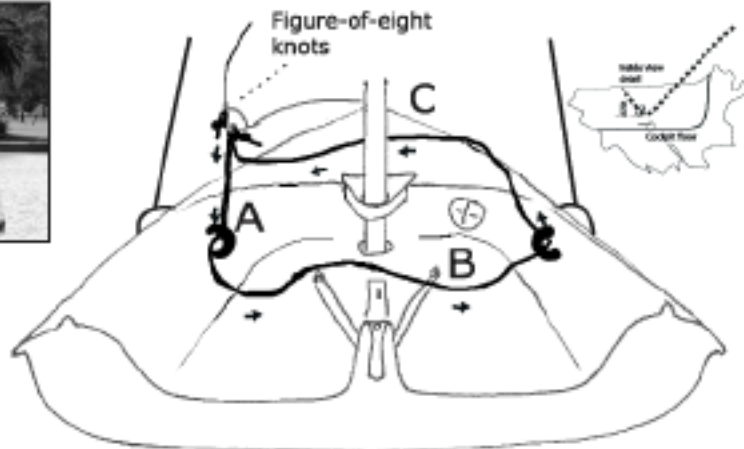
Step 8. Jib setup



Rigging the

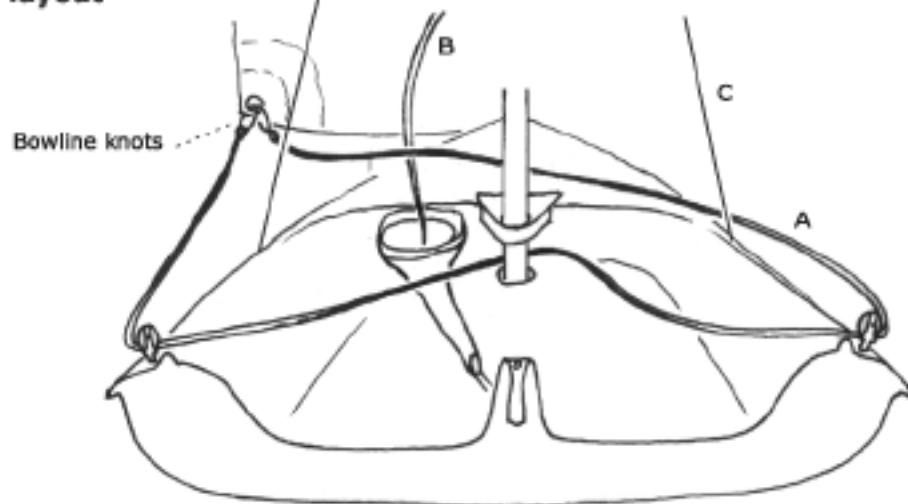
Step 9. Jib sheet layout

• The jib sheet (A) is led inside the side-stays through the front of the fairlead (B), and across the deck to the other side through the back of the other fairlead. The tail leads around the front of the mast and back to the clew eye of the jib (C). Both ends are secured to the clew eye with a figure-of-eight knot. If you have the deluxe X3 jib package, then there is a C-cleat for cleating off the jib when set.



Step 10. Gennaker sheet layout

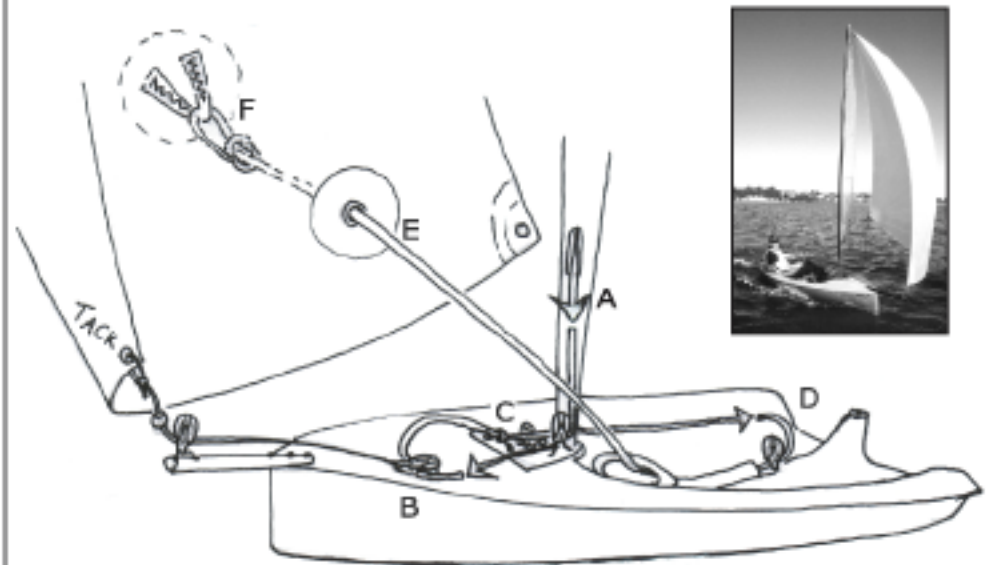
• The gennaker sheet (A) is led over the top of the take-down line (B) and outside the side-stays (C).



Rigging the

Step 11. Gennaker halyard system

- A. The halyard exits the mast, and passes through the stand-up block on the mast gate.
- B. Through the tackline block.
- C. Through the fairlead, past the "C"-cleat.
- D. Run the halyard through the aft block, through the fairlead and into the gennaker bag.
- E. The halyard tail comes out of the mouth of the gennaker bag and passes through the grommet on the sail.
- F. Tie a bowline knot onto the webbing loop. The halyard tail has now become the take-down line.



Safety first !!!



- Always wear a **life jacket**.



- Tell someone **where** you are sailing and **when** you are expected back.



- Check the **weather forecast**.
20 knots (36kph) is our recommended upper wind speed limit for the X3.

- Look up and live! Watch out for **powerlines**.

- Put on some **sunscreen** and a **hat**.

- Clothing:

Thermal clothing and a spray jacket.
Wetsuit or an old woollen jumper.
Boardshorts.

- **Warning:** Cotton teeshirts and jeans are not warm when wet.

- Always wear proper **footwear** whilst sailing.

- If capsized, **always stay with the boat**.

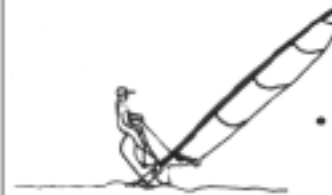
- **Give way** to commercial vessels in shipping channels.

- Know your **"rules of the road"** for the water.

Let's go sailing



- When launching the X3 from the beach, hold the boat by the mast or the bow.

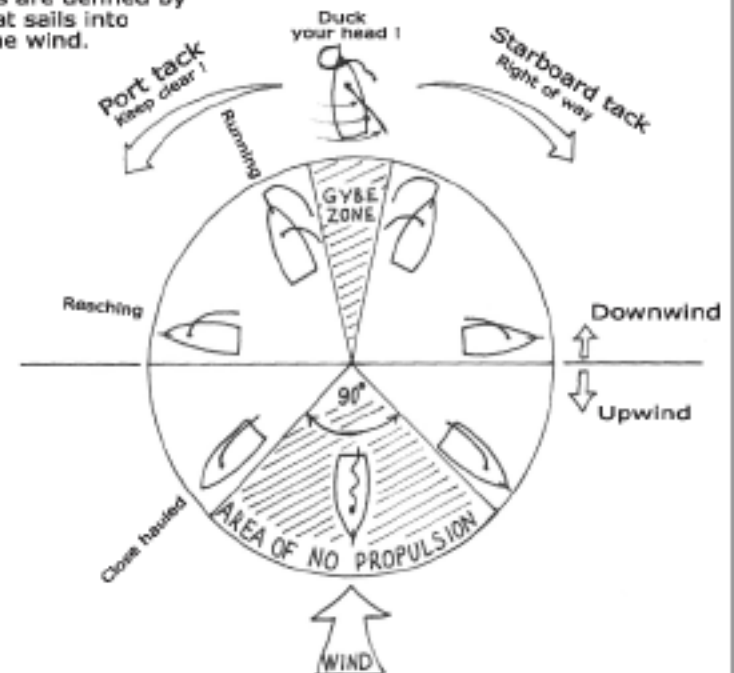


- Once out sailing, if the boat starts to tip overease the mainsheet.

- If capsized, make sure that all the sheets are uncleated. Righting the X3 is easy..... just follow the diagrams. When righted, all the water will flow out through the stern.



Sailboat courses are defined by the **angle** a boat sails into or away from the wind.



Tips



• Gennaker for the first time !

If you are a beginner or are trying the gennaker for the first time.....try leading the mainsheet through the mainsheet cleat block only and not through the camcleat.

This will result in less capsizing as the mainsheet can't jam off.

• Vang

When sailing in light air, keep only light tension on the vang.....this helps to maintain an open mainsail leech twist, and helps the battens to pop through from side to side when tacking and gybing.

• Bodyweight

The X3's centre of gravity is at the centreboard pivot. Sailing upwind, your fore/aft bodyweight should be positioned there.

In lighter winds, move your weight forward. This reduces wetted surface area near the flat stern sections resulting in more speed. As the wind picks up, move your body weight aft towards the centreboard pivot.

When running and reaching in stronger winds and waves, your bodyweight should end up as far aft as possible. This lifts the bow up, and in turn increases speed and improves handling.

• Roll tacking

In very light wind, the **battens** need to be 'popped' from one side to the other during a tack.....Firstly, heel the boat over, then uncleat the mainsheet as you start to tack. When the boat has passed 'head to wind', grasp the middle of the boom and give it a sharp jerk as you roll your bodyweight onto the new windward side - this is called a '**roll tack**'.

Notes:

Maintenance



Daily

Hose down the boat after sailing.

Take care to flush out the following:

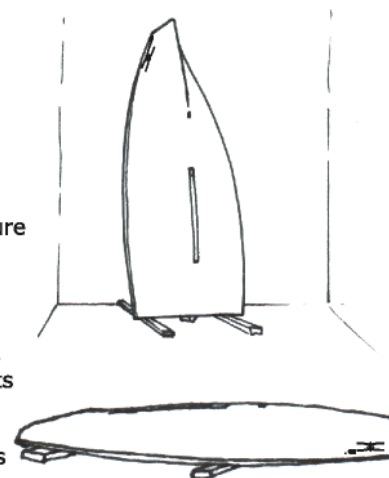
- Rudder bearing tube
- Centreboard case
- Roller bearing blocks
- Mast, boom and rigging
- Rudder system complete
- Mast gate

Washing and drying the sails and ropes will ensure they last.

Remove the bung.

Store your X3 upside down with supports across the side decks, or up against a wall with supports under the transom (see diagram right).

NEVER store the X3 sitting on it's own bottom as the hull can deform over time.



Monthly

Hose out the mast to remove saltwater and sand. The mast butt fitting can be removed to clear any large quantities of sand.

Keep the rudder bearing tube clean from sand, and keep it lubricated with marine grease to ensure smooth operation.

Rudder pintle: clean.

End of season

Sails:

Check over the following for small holes: surface and corners of sails, eyelets, mainsail luffrope, outhaul webbing and batten ends. Wash and dry thoroughly for storage.

Mast, boom and rigging:

Check for chafe on all ropes and fittings and replace if needed.

Hull: Clean, dry and store with hatch and bung removed.

Polish hull, deck, centreboard and rudder with **Amor All** protectant.

NB: Always use fresh water sparingly

Warranty

Hull number : _____ Colour : _____ Purchase date : ___/___/___

Purchased from : _____

Rig Type :
Education / Fun / Resort



Gennaker : Education / Fun

X3 Jib : Std / Deluxe
Jib colour : _____

Sail Extreme warrants each new X3 to be free of any manufacturing faults for a period of 6 months from the date of purchase.

The intent of this warranty is to ensure your new X3 is in perfect working order at the time of purchase.

Sail Extreme will repair or replace without charge any covered products or parts that we find to be defective due to bad workmanship or materials. The X3 must be returned to any authorised X3 distributor or dealer at the owner's expense.

This warranty is extended to the original purchaser only.

This warranty shall not apply to any part of the X3 which is found to be modified in any way, nor shall the warranty apply to any damage caused by unreasonable use or failure to provide reasonable maintenance.

What is not covered:

- Breakages due to sailing in windspeeds of 20 knots (36kph) and above .
- Breakages due to sailing in surf and large wave conditions .
- Gooseneck. It is not designed to rotate past 90 degrees. Refer to page 5 for rigging instruction to prevent breakage.
- General wear and tear on your X3 and all it's components .
- Sails, sail battens and ropes .

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Parts List

CODE	ITEM DESCRIPTION	CODE	ITEM DESCRIPTION
x3001a	X3 Resort dinghy	x3315	Hatch, lid only
x3001	X3 Education dinghy	x3320	Hatch, bag only
x3002	X3 Fun dinghy	x3325	Hiking strap incl. rope + shackles
x3003a	X3 Resort dinghy + Ed. gennaker	x3330	Hiking strap only
x3003	X3 Education dinghy + Ed. gennaker	x3335	Hook incl. screws
x3004a	X3 Fun dinghy + Ed. gennaker	x3340	Hull, incl. moldings & boom
x3004	X3 Fun dinghy + Fun gennaker	x3350a	Deluxe Jib Package incl. cleats
x3005aa	X3 Resort dinghy + Deluxe Jib Package	x3350	Jib Package, sheet & fairleads
x3005a	X3 Resort dinghy + Std Jib Package	x3351	Jib sail only
x3005bb	X3 Education dinghy + Deluxe Jib Package	x3352	Jib fairleads incl. screws
x3005b	X3 Education dinghy + Std Jib Package	x3353	Jib mast saddle + 2 rivets
x3005cc	X3 Fun dinghy + Deluxe Jib Package	x3354	Jib sheet only
x3005c	X3 Fun dinghy + Std Jib Package	x3391	X3 Education mainsail halyard
x3005	X3 Education Gennaker Package	x3392	X3 Fun mainsail halyard
x3006	X3 Fun Gennaker Package	x3399	X3 Resort mainsail
x3007	X3 Education rig conversion	x3400	X3 Education mainsail
x3008	X3 Fun rig conversion	x3405	X3 Fun mainsail
x3010	X3 Beach Dolly	x3406	Mainsail clew block
X3011a	X3 Trailer	x3407	Mainsail sail numbers
x3011	X3 Trailer + Dolly	x3408	Mainsheet
x3045	Barz Optics sunglasses	x3410	Mainsheet cleat + washers/rivets
x3046	Battens	x3415	X3 Education mast complete
x3050	Boom complete (no vang/mainsheet)	x3425	X3 Fun mast complete
x3060	Boom plug fwd (includes rope)	x3435	Mastbutt plug incl. 2 screws
x3065	Bowsprit complete incl. tackline (Fun)	x3440	Mastgate (incl. fasteners)
x3075a	Drain bung + 2 screws	x3445	Masthead plug + sheaves, etc
x3075a	Drain bung replacement	x3450	Masthead plug only
x3100	"C" cleat + 2 screws	x3455	Masthead sheave mainhalyard
x3105	Centreboard	x3456	Masthead sheave gennaker halyard
x3115	Centreboard wedge + 2 screws	x3580	Reef on X3 Fun mainsail
x3120	Cunningham/rudder "V" cleat	x3600	Rope package basic boat
x3120a	Mainsail "V" cleat	x3603	Rope gennaker package
x3121	Cunningham rope	x3605	Rubber ring for centreboard
x3200	Foot chock incl. screws	x3610	Rudder blade + rope and thimble
x3250	Gennaker bag	x3615	Rudder box + 2" bolts, nuts and washers
x3255	X3 Education gennaker	x3620	Rudder pintle
x3260	X3 Fun gennaker	x3625	Rudder pintle retaining clip
x3261	X3 Ed. gennaker halyard + ball	x3630	Rudder system complete (incl. tiller + extension)
x3262	X3 Fun gennaker halyard + ball	x3650	Shrouds incl. washers/plugs
x3263	X3 gennaker sheet	x3700	Tiller complete with rope
x3265	Gooseneck (incl. 4 rivets)	x3705	Tiller extension
x3300	Bow handle complete (incl. towing eye)	x3710	Traveller, rope only
x3305	Bow handle (webbing/tube replacement)	x3711	Traveller, block only
x3306	Side handle (incl. rope)	x3800	Vang system complete
x3310	Hatch complete (incl. bag + screws)	x3850	X3 wind indicator

FOR ORDERING, call for your local X3 dealer or refer to our website .

www.sailextreme.com

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