

EMPOWERING SAILORS SINCE 1975



Dear Customer,

Welcome to the Nacra family.

It is our constant endeavour to provide you with products that offer excellent performance throughout their ownership period. Which is why, in addition to producing great catamarans, we have also set up an extensive dealer network around the world.

Naturally, these Nacra Dealers know everything there is to know about your catamaran and can provide you with the best service possible. So please find your dealer in your region at www.nacrasailing.com for any servicing needed and make sure that only genuine spares are used for your Nacra.

This manual will familiarize you with the operation and maintenance of your Nacra. It will also provide you with important safety information that should be read and understood before moving on to the assembly manual. The Assembly & operating manuals of our catamarans can be found under the 'after-sales' button on our website; www.nacrasailing.com.

If this is your first sailboat, or are you changing to a new type of sailboat you are not familiar with? For your own comfort and safety, please ensure that you obtain handling and operating experience before assuming control of the catamaran. Nacra Sailing, National Sailing Federations or local yacht clubs will be pleased to advise you about sailing schools or competent instructors.

When you have any query, please feel free to contact your local Dealer.

Empowering Sailors

Team Nacra

CRAFT RECORD SHEET

Model Name	NA CR A	4						Deliver	y Date			
HIN code	N	L	N	Α	С							
ISAF Plaque nr					•	Mainsa	il serial	#			•	
Rudder serial #	Starboar	rd				Jib seri	al#					
	Port					Gennal	ker seria	al#				
Daggerboard serial#	Starboar	rd				Trampo	oline se	rial#				
	Port					Mast se	erial#					
Owner's Name												
Address						City/to	wn					
Postal code						Countr	у					
Nacra Dealer												
Address												
	Sig	gnature	e dealer						Dea	ılers Sta	атр	



IMPORTANT NOTICE

Please read this manual and follow the instructions carefully.

: This is the safety alert symbol used to alert you to potential hazards including injuries or damage to your vessel or other property. Obey all safety messages that follow this symbol.

Throughout this manual you will find special notations:

WARNING!

WARNING indicates a potentially hazardous situation which, if not avoided, could result in serious injury or death.

: This is a safety symbol which means 'Do not', or 'Do not do this', or 'Do not let this happen'.

All information, illustrations, and specifications in this manual are based on the latest product information available at the time of publication.

NACRA SAILING BV. reserve the right to change specifications or designs at any time without notice and without incurring obligation.

Hull Identification Number

The Hull Identification Number (HIN number) is engraved on the starboard hull's transom. Do not adjust or remove this number from the transom.

CE Builders Plate

The CE builders plate is located at the starboard hull transom. The CE plate contains information on the Design Category, the Builder, the maximum number of crew, the maximum load and the number of the Notified Body assessing the craft.

PLEASE TREAT THIS MANUAL AS A PERMANENT PART OF YOUR NACRA AND HAND IT OVER TO THE NEW OWNER WHEN YOU TRADE THE CRAFT.

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1. DECLARATION OF CONFORMITY

Declaration of Conformity of Recreational Craft with the Design, Construction and Noise Emission requirements of Directive 2013/53/EU and repealing Directive 94/25/EC

Name of craft manufacturer: NACRA SAILING BV Address: HELLINGWEG 108-116 DEN HAAG Town:

Postcode: 2583 DX THE NETHERLANDS Country:

Name of Notified Body: **IMCI**

Address: Rue Abbé Buypers 3 Bruxelle Town: B-1040 Postcode: Country: Belgique

0609 ID Number:

The EU Recreational Craft and personal watercraft directive 2013/53/EU Annex VI - Module Aa & Annex 1 - Essential requirements of Sections 3.2 Stability & Freeboard and 3.3 **Buoyancy and Flotation**

DESCRIPTION OF CRAFT

HIN NO: (fill fields helow)

	Model Certifi	catenur	per Lengti	Beam	Hull Dro	displacement Displacement	Max Rec	ortherded Record	rended Raciff	S Drinerded	Laded Displacement
		m	m	m	kg	In persons	In persons	In persons	kg	kg	
NACRA 460	PCAT005	4.56	2.44	0.40	80	1	3	2	230	357	
NACRA 500	PCAT006	5.08	2.44	0.45	100	2	4	2	340	454	
NACRA 570	PCAT007	5.64	2.44	0.45	130	2	4	2	340	463	
NACRA 580	BPCAT012	5.79	2.44	1.00	140	2	4	2	340	526	
NACRA 15	BNACRA004	4.70	2.40	1.00	150	2	4	2	345	480	
NACRA F16	BNACRA002	5.00	2.49	1.55	130	2	4	2	340	470	
NACRA 17	BNACRA001	5.25	2.59	1.35	148	2	4	2	340	482	
NACRA F18	BPCAT011	5.51	2.59	1.65	180	2	4	2	340	470	
NACRA F20C	BNACRA003	6.20	3.20	1.75	170	2	4	2	340	515	

This declaration of conformity is issued under the sole responsibility of the manufacturer. I declare on behalf of the CATEGORY C – inshore: Craft designed for voyages in craft manufacturer that the craft HIN code as mentioned above comply with all applicable essential requirements in the way specified.

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N	L	N	Α	C							

Brand Name of Craft: Name: Nacra

Type or Number: Nacra 460 / Nacra 500 / Nacra 570 / Nacra 15/ Nacra F16 / Function:

Nacra 17 / Nacra F18 Infusion / Nacra F20 Carbon. Type of Craft: **SAILBOAT**

Type of Hull: MULTIHULL Deck: **FULLY DECKED**

Type of Propulsion: SAILS

Hull Construction Material: PLASTIC, FIBER REINFORCED PLASTIC

Maximum Design Category: C

For ODCO approved ISO applicable standards: See page 14.

Signature:

Date: / /

This craft is certified and its stability assessed by the IMCI under DESIGN CATEGORY C.

2. DESIGN CATEGORY

coastal waters, large bays, estuaries, lakes and rivers, where conditions up to wind force of 6 beau fort / 25 knots and significant wave heights up to and including 2m may be experienced.

The Nacra range of crafts comply with this design category and is subject to:

- A crew having suitable skill and experience.
- Satisfactory maintenance of the craft and its equipment.
- Support the crew even when swamped.
- Be recovered by the crew after capsize.

Users of the craft should comply that:

- All crew should receive suitable training.
- Trapeze shall not be used carrying more than 2 persons.
- The craft shall not carry more than the maximum load.
- All inspection hatches and drains shall be closed
- Bilge water shall be kept to a minimum.
- Stability is reduced by any weight added above the centre of buoyancy.

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3. IMPORTANT SAFETY INFORMATION

Please read the important safety information and read the Assembly Manual before sailing your boat.

⚠ WARNING!

Check for overhead cables when raising or lowering the mast, launching and sailing the boat. Look up when moving the craft around and give any wires a wide berth. A mast which comes in contact with electrical power lines can cause serious injury or death!

BEFORE YOU GO SAILING

- Check you are wearing suitable clothing and safety equipment for the conditions and time of year;
- Secure the drain plugs before sailing and ensure that the hulls are free of water. Ensure that any hatches are correctly fitted and have a good seal;
- Carry your Nacra or use beach wheels with cradles whenever possible to minimize keel wear;
- Make sure a third party knows where you are sailing and how many people accompany you;
- Check the weather forecast;
- Check the time of high and low tides if applicable;
- Seek advice of local conditions if sailing in a new area.
- Always check the condition of your craft before setting off.

SAILING AND BEACHING

⚠ WARNING!

Always wear an approved buoyance aid or lifejacket.

- Never sail above your ability or that of your crew;
- A sailor's safety knife should be carried on board;
- When launching through the surf, always make sure the bow is facing the waves.
- Always know the direction that the wind is blowing;

- Watch out for changing weather conditions;
- Ensure that you and your crew can cope with any changes in the weather conditions;
- After sailing, remove drain plugs to equalize the pressure in the hulls, if no drain plugs installed, open the hatches;
- Understand and be competent in the sailing skills and righting techniques.

RIGHTING AFTER A CAPSIZE

Even the best sailors capsize occasionally, so prepare yourself and the boat for the inevitable. Install a righting line onto the dolphin striker rod below the mast.

The boat will lose speed as it raises up on one hull and usually capsizes over slowly. Hang on to the boat, being careful not to separate yourself from the boat if possible.

As the boat capsizes you may be located in the water or on the top hull above the water, try to get as fast as possible onto the bottom hull. It is important to get yourself to the bottom hull as quickly as possible to prevent the boat from turning upside down (turtle).

Do not let go of the boat, as the current and the wind may make it hard or impossible to get back onto the boat.

Release the main, jib and spinnaker sheets. Reach around the front crossbar, and throw the righting line over the top hull. Make sure that the bows of the hulls are facing into the wind. Move your weight towards the bow to turn the boat to obtain the proper angle. Be careful not to shift your combined weight too far forward or afterwards as this may cause the boat to roll over and turn turtle. If the mast is pointed directly into the wind, the boat may turn over to the other side when you get the boat upright

Standing even with the front crossbar, the skipper and crew should grab the righting line, and hike out backwards. You can tie knots in the righting line to prevent your hands from slipping during this procedure. If you are single handling, you may need to carry a righting bag to attain the necessary weight to right the boat

Once the tip of the mast starts to come out of the water, the boat will right quickly. Be sure to hold onto the righting line until you can grab the boat and pull yourself up onto the deck. Be careful to avoid being hit by the dolphin striker as the boat comes down on top of you. One of the crew should reboard over the front beam of the catamaran onto the platform to ensure that the craft can not sail away without the crew. The remaining crew can be recovered by the side with the aid of the trapeze wires or crew. Stow the righting line, organize the sheets, and you are sailing again!

Minimum crew weight required for righting:

	_	_
Nacra 460		102 kg
Nacra 500		102 kg
Nacra 570		110 kg
Nacra 15		100 kg
Nacra F16		104 kg
Nacra F18 Inf	usion	140 kg
Nacra 17		116 kg
Nacra F20 Ca	rbon	150 kg

IMPORTANT SAFET INFORMATION

STABILITY AND BUOYANCY

The Nacra catamarans are equipped with one or more sealed buoyancy compartments. The buoyancy compartment is inserted during the build of the hulls. Consequently the following points should be noted:

- ODo not puncture the buoyancy compartment.
- When the buoyancy compartments become punctured do not use the craft until the compartment is repaired.
- When a hatch is not closed correctly do not use the craft until the hatches are fitted correctly.
- You may have to replace fittings from time to time. Ensure that all fastenings are resealed properly using an appropriate sealant.

The IMCI assessment of these crafts has determined that the crew can upright the craft and will subsequently float. Each of the Nacra Catamaran listed in the Declaration of Conformity have been certified as conforming with the requirements of the Recreational Craft Regulation as published in the Recreational Craft Directive 2013/53/EU in accordance with the essential requirements:

- 3.2 Stability and Freeboard
- 3.3 Buovancy and Flotation

TRAILERING AND STORAGE

When trailing your Nacra you should only use an approved road trailer. Tving down the craft to its trailer is important because too much or too little tension could result in damage.

Follow the instructions below for safe trailing:

• Ensure the catamaran is properly located on the road trailer and that the boat is balanced correctly. Always use trailers and beach trolleys with cradles designed to fit the hulls rather than rollers. Risk of damaging the hulls occurs when using trailers and dollies without proper support

- Make sure that the catamaran is not too far forward **TOWING AFLOAT** otherwise it may come into contact with the side of your Should it become necessary to tow the craft, you should car as you turn corners.
- Tie the catamaran down to the trailer by using two straps across the width of the hulls using the eyelets on the frame of the trailer. You only need to apply sufficient the loss of the rudder sit well aft. tension to hold the catamaran in contact with the trailer. Use padded material where any straps touch the deck.
- Always remove dagger boards, rudders, blocks, and rigging when trailering.
- O Do not use the dolphin-striker as a tie down or for pulling the boat. Use the main beam instead.
- Secure both ends of the mast. Be sure to mark off both ends of the mast for visibility.
- Boat covers are recommended to protect against rocks, gravel and road debris while trailering. These covers also provide good protection from weather and the ele-
- Always leave the drain plugs and inspection hatches open to avoid possible air pressure damage.
- When stored outside and using hull cradles, the carpet or any other protection material can contain water. This water may cause osmose on the hull area.

secure the towing line around the Front Cross Beam on one of the sides and as close as possible to the hull. Raise the daggerboards (if fitted) and stay at the tiller. In the event of

ANCHORING & MOORING

Mooring or anchoring of your boat is not recommended. However, if the boat is moored in the water, barrier and anti -fouling paint must be applied to the bottom.

The Nacra range of catamarans are not normally required to anchor/moor, as they are day boats for racing or cruising in inshore or inland waters and to be taken out of the water after sailing.

OUTBOARD ENGINE

The Nacra range of catamarans are not designed for use with an outboard engine.

4. STANDARD LIMITED WARRANTY COVERAGE

Below you will find our warranty details and instructions. Please follow these instructions so we can identify you as a NACRA sailor when warranty issues arise.

4.1. TERMS AND CONDITIONS

Nacra reserves the right, before having any obligation under this limited warranty, to inspect the damaged Nacra product. All costs for shipping the product to Nacra or Nacra dealer/distributor for inspection shall be paid solely by the purchaser, in order to recover under this limited warranty. The original invoice or warranty card registration must also be presented of the product. (on-line registration card www.nacrasailing.com, or any other documentation Nacra deems acceptable)

Nacra, at it's option, shall repair or replace the defective unit covered by this warranty. This limited warranty does not cover any damage due to accident, misuse, abuse or negligence. Nacra shall approve beforehand any repairs which will be carried out under this limited warranty. A quotation must be send to the Nacra Dealer before proceedings may go forward. Please note, this approval by Nacra for the repair does not guarantee the warranty, as the repair is part of the investigation of the warranty proceedings.

Please retain the dated sales receipt as evidence of the original date of purchase. You will need it for any warranty service. In order to keep this limited warranty in effect, the product must have been handled and used as prescribed in the owner's manual.

IMPORTANT NOTICES

Online warranty registration:

Make sure to register your boat at www.nacrasailing.com to entitle for warranty. This registration is mandatory

Pre-Delivery Inspection

A thorough inspection of the new boat prior to delivery ensures that the condition of each boat meets the high standards set by Nacra. We certify that your boat was inspected according to the procedures established by Nacra.

To Obtain Warranty Service

Within 10 days of discovering a defect, notify in writing, along with proof of purchase (sales receipt or registration) to an authorized dealer or service centre.

Maintenance records

It is also recommended that receipts covering the performance of regular maintenance be kept with your boat. Damage to your boat caused by lack of maintenance is not covered by our warranty.

Owner satisfaction

Should you ever encounter a problem during or after the warranty period that is not resolved, talk to the management of the dealer or service centre. If the problem persists, follow the two-stage satisfaction procedure outlined in this section of the owners manual.

NEW BOAT LIMITED

What is covered?

Nacra warrants each new Nacra boat, hereafter called "boat." The warranty covers repairs to correct any malfunction occurring during the warranty period resulting from defects in material or workmanship. New or remanufactured parts may be used to affect repairs. Only genuine Nacra parts and/or Nacra licensed supplier parts should be used for these repairs. The warranty period for all coverage's begins on the date the boat is first delivered or put in use, whichever comes first.

The warranty period is 2 years / 24 months. This coverage applies to all owners of the boat.

To obtain warranty repairs, take the boat to an authorized Nacra dealer or service centre within the warranty period and agree upon the repairs and/or adjustments required. A reasonable time must be allowed for the dealer/service centre to perform necessary repairs and/or adjustments. Charges for warranty repairs and adjustments (parts and/or labour) will not be applied.

What is not covered?

Since this warranty applies only to defects in material and workmanship, it does not apply to normal wear and tear, or to damage caused by:

- Neglect, lack of maintenance, accident, abnormal operation or improper installation and services. Failures due to lack of proper maintenance as described in the maintenance schedule; failure to follow maintenance schedule intervals; failure to use lubricants recommended in the warranty manual. Proof of proper maintenance is your responsibility.
- 2. Keep all receipts and make them available if questions arise concerning maintenance.
- 3. Accidents or damage caused by collision, fire, theft, electrocution, freezing, vandalism, riot, and explosion or from objects striking the boat and /or acts of God.

- 4. Misuse of the boat such as overloading, alterations to the boat and/or any damage caused by these alterations. Discoloration, crazing, or blistering of gelcoat caused by mooring or storing the boat in water [not recommended; if boat is stored in water, anti fouling is advised.
- 5. Transportation of boats and/or parts to/or from Nautical Sports BV or its dealers.
- If your boat is equipped with a Cunningham system purchases over 8:1, Mainsheet over 10:1; please be aware that damages that are due to over-sheeting are not covered.
- 7. Damage caused by airborne fallout (chemicals, tree sap, bird extractions etc.), stones, hail, earthquake, water or flood, windstorm, lightning, etc.
- 8. Cleaning and polishing, lubricating performing other normal maintenance services. See maintenance schedule and assembly manual for full details.
- This warranty does not cover any economic loss including (without limitation) payment for the loss of time or pay, inconvenience, loss of boat use, boat rental expenses, lodging bills, food, other travel costs, storage charges and other incidental or consequential loss or damage.
- 10. This is the only expressed warranty applicable to your Nacra boat. Neither authorized Nacra dealers/service centres nor Nacra authorize any person to create for them any other obligation or liability in connection with these boats. Any implied warranty of merchantability or fitness for a particular purpose applicable to this boat is limited to the duration of this written warranty.
- 11. The performance of repairs and needed adjustments is the exclusive remedy under this written warranty. Nacra shall not be liable for incidental or consequential damages resulting from breach of this written warranty.
- 12. Regarding the hulls and mast; both the hulls and the mast can have intrusion of water; this is due to the nature of use and build of the product. Water tightness therefore is not warranted and or guaranteed. Please check with your local legislator if a mast floatation device is required.

THINGS TO KNOW ALOUT LIMITED WARRANTY

General

We will repair everything covered under warranty that goes wrong during the warranty period that is the fault of the manufacturer.

Damage / Defects

Please note the distinction between "defects" and "damage" as used in this manual:

Defects are covered by the manufacturer, but we have no control over damage (Please read the following pages for details) caused by such things as collision, misuse, transportation and lack of maintenance which occur after the boat is delivered to you. Damage, for any reason, which occurs after the boat is delivered to you is not covered under warranty.

Maintenance and repairs are recommended to be performed by any authorized Nacra dealer or service centre, who will offer first class service at competitive prices. Warranty repairs must be performed by an authorized Nacra dealer or service centre. Authorized Nacra dealers and service centres reserve the right to deny warranty coverage if the boat has not been properly maintained.

Rust / Corrosion

Your boat and its fittings are designed and built to resist corrosion, but due to outside influence [salt, chemicals etc] corrosion may occur. Please make sure that your boat is rinsed with fresh water after every sail to prevent this happening. Please refer to the maintenance schedule and/ or assembly manual for further details.

Warranty service

For warranty service, please see the authorized Nacra dealer or service centre where you purchased the boat. If you are touring or moved, please visit any authorized Nacra dealer or service centre for warranty service. The nearest authorized Nacra dealer or service centre can be found on our website: www.nacrasailing.com.

Warranty repair order

For your records, the servicing authorized Nacra dealer or service centre will provide a copy of the warranty repair order listing all warranty repairs performed.

Voiding warranty

In case the repair is performed by a non authorized dealer, service centre or repairer and/or non genuine parts are used the warranty is void. Damages and/or defects caused by this repair are not warranted.

After warranty repairs

If you have a problem with your boat after the warranty coverage has expired, we recommend you to return to your authorized Nacra dealer or service centre for routine maintenance and repair.

Production changes

The manufacturer and/or Nacra reserves the right to make changes in boats built and/or sold by them at any time without incurring any obligation to make the same or similar changes on boats previously built and/or sold by them.

Wear & Tear exclusions

What is excluded?

- Wear and Tear from normal sailing and usage
- Discoloration
- Scratching [anodized] parts
- Battens
- Sheets / ropes / shock cords
- Rubbers
- Burn holes in the spinnaker due to incorrect snuffing
- Rudder alignment
- Wear due to beaching the boat
- Non-structural cracks in gelcoat
- Misuse

4.2. OWNER ASSISTANCE

If you experience any concerns.

Two-Stage satisfaction procedure

ONE – Discuss your concern with a member of the authorized Nacra dealer - or service centre management.

Concerns can often be resolved quickly and satisfactorily at that level. If the concern has already been reviewed with the sales or service manager, contact the owner of the authorized Nacra dealership/service centre or the general manager.

TWO – In the unlikely event that your concern cannot be resolved by the authorized Nacra dealer or service centre management, contact NACRA Sailing BV at

warranty@nacrasailing.com

By doing so you should be prepared to provide the following information in English:

- Your name, address, telephone number and e-mail.
- The identification HIN number of your boat (This can be found on the starboard hull stern)
- The name and address of the dealer.
- The delivery date of your boat.
- Details of your concern or request.
- Including photos and/or quote of repair.

Storage

It is most important that you store your boat properly, please see page 8 of this manual how your boat should be stored. Please make sure in case you store your boat for longer periods it's stored in a well ventilated area in order to avoid an osmosis reaction between hulls and any (transport) supports.

Transport

To make sure that no damage is done to your boat, please see page 8 of this manual.

MAINTENANCE—GENERAL INFORMATION

A CAUTION!

Always wash your boat with fresh water after sailing. Salt water can cause severe corrosion

It is essential that your boat receives the maintenance outlined on the following pages to retain the safety, reliability and performance built into your boat.

Do not leave the rig under tension when not sailing or during storage. If rig tension is over tightened, or left on when not sailing damage may occur.

Your boat should only be used with a proper launching trolley. The use of any other trolley may damage the hull and invalidate your warranty. Care must be taken to support the hull adequately if the boat is not stored on the correct launching trolley. Any sustained point-loading could permanently dent or distort the hull.

Any repairs to the hull should be undertaken by qualified personnel with the relevant skills and equipment. Contact your dealer for advice.

UV light may cause fading to some components and fittings, a good quality cover is recommended to reduce UV degradation. Keep the equipment clean by frequently and thoroughly flushing with fresh water.

Excess water should be removed from the hull and any cavities. Keep your craft drained and well ventilated. Ensure the craft is stored with the bow raised to allow water to drain away. Make sure that when you attach the rudder that the rudder stop clips over the stock.

Salt water will deteriorate your sail and the stitching if the sail is not rinsed in fresh water after sailing. Sails should be dried before storing. Ideally we would recommend that you should store sails in a convenient dry place away from the craft. If you have to store sails on the craft ensure that a

good cover is used and that it prevents any water coming into contact with the sails. Sails will be subject to mould and mildew if left in water.

Trailers should be rinsed with fresh water and checked at regular intervals. It is recommended that the trailer be serviced annually. It is also a good idea to tie the craft down when it is left in the dinghy park to prevent any damage in the event of strong winds.

Repair

Contact your dealer or NACRA Sailing BV for the best advise

Modifications

Contact your dealer or Nautical Sports BV about any modification. Please remember any modifications may endanger your safety and invalidate your warranty.

Spinnaker sailing

Special note of caution while sailing with Spinnaker. While sailing with spinnaker it is mandatory to:

- Keep the mainsheet tight, as the Main sail will act as a back stay for the mast.
- Release mast rotation, as this will prevent twist of the mast.
- Release Cunningham, as this will prevent twist of the mast.

Failure to do so will most likely cause the mast to overload and break and is not covered under warranty if the above instructions are not followed.



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S. MAINTENANCE AND SERVICE

INSPECTION LEFORE SAILING MAINTENANCE EVERY 3

Platform [hulls & trampoline]

- Always keep trampoline lacing tight.
- Always check beam bolts to ensure proper torque.
- Check hulls for leaks at all hull fittings
- Check the trampoline for tears, or loose stitching. Repair immediately to avoid further damage.

Sails

- Check for broken or delaminated battens. Never sail with damaged battens.
- Check the sails for tears, or loose stitching. Repair immediately to avoid further damage.

Rigging

- Check all shackles, clevis pins, and fasteners for loosening or wear. Replace as needed.
- Tape all split rings and cotter pins to prevent loss or damage.

INSPECTION AFTER SAILING

Platform & Rigging

• Rinse ENTIRE boat with fresh water after each use. Be sure to flush all blocks and fittings thoroughly.

Sails

- Rinse sails with fresh water, make sure sails are dry and batten tension is released when storing for more than a day.
- Never fold your sails
- Role your sails from top to bottom, this is to prevent luff damage

MAINTENANCE EVERY 3 MONTHS 64 OWNER

Platform

- Check mast ball for wear- replace if:

 a) Maximum diameter of the flat spot on top of the ball is bigger then 15mm/0.6 inch
 b) Minimum height from bottom to top should be 35 mm/1,4 inch
- Check hulls for excessive wear on keel from beaching and dragging the boat.
- Check hulls for leaks at all hull fittings by covering suspected areas with soapy water and blowing air (from your lungs) into the drain plug holes.

DO NOT USE COMPRESSED AIR AND OR ANY OTHER TYPE OF MECHANICAL BLOWER AS THE EXCESSIVE PRESSURE CAN DAMAGE THE HULLS.

 If the water bubbles, there is a leak. Remove the fitting and/or cover with silicone sealant and replace. If the leak is in a fibre glassed area (no fittings) this should be reglassed to insure proper permanent bonding. Please con tact your dealer

Sails

- Check for broken or delaminated battens. Never sail witl damaged battens.
- Check the sails and trampoline for tears, or loose stitching. Repair immediately to avoid further damage.
 Please contact your dealer

Riggin

- Periodically check for and replace frayed, worn, or kinked wires, shock cords and lines.
- Periodically check the bearings in the traveller car and replace them if necessary. Rinse thoroughly with fresh water to free any stuck bearings.

- Periodically check dolphin striker strap tension. Please see assembly manual for the correct setting for your boat. Adjust as necessary.
- Masts should be regularly inspected for water tightness and diamond wire wear. Make sure fittings are sealed with silicone.
- Replace wires that show any signs of wear. Check diamond wire attachment points, turn buckles and seizing wire. These areas could cause serious mast failure!

Conditions which require more frequent owner maintenance

If your boat is regularly operated under one or more of the following conditions:

- Temperatures below freezing or above 32°C / 90 F
- Take extra care when boat is left after sailing when freezing is likely, ensure that hulls are dry.
- Beach storage

Recommended Fluids, Materials and Lubricants.

Blocks/ Cleats	Mc Lube Sailkote ® lubricant or equivalent
Mast Rivets	Sikaflex® 291 or equivalent marine grade silicone sealant
Beam bolts	Molykote® grease long-term W2 or equivalent
Wax	Dulon 2- component Boat Care or equivalent
Emergency repair hull	Please contact your dealer for emergency repair kits
Emergency repair sails	In case of emergency repair only sail repair tape should be used. Please contact your dealer for emergency repair kits
Carbon Mast	any UV protection wax e.g. Teflon wax etc.

6. CARE OF CARBON FIBER MAST

Each carbon-fibre mast delivered by Nacra has been manufactured using heat and pressure autoclave curing, the best process available.

Since carbon fibre composite is different than aluminium to drill, file, or otherwise process, always contact your Nacra dealer for advice before making any modifications to the mast.

HANJLING ANJ STORAGE

Carbon fibre has properties differing from aluminium. Though carbon composite is stronger than aluminium, it is less resistant to impact loads. Where aluminium will dent on severe impact, carbon composite could shatter or suffer serious delaminating. Clearly, subjecting your carbon spars to severe impact is to be avoided.

When transporting your mast it is important to pack it well using covers which are available at your Nacra dealer. Ensure that rigging is removed to prevent the stays from wearing or banging against the mast. It is recommended to fully inspect your mast when re-rigging your mast.

CARE

In order to get the maximum life from your carbon fibre composite tubing we recommend the following care and precautions:

- Do not allow the mast to become excessively hot.

 High performance epoxy resins, together with oven post curing, are used in the tubes, however at temperatures above approximately 75°C the epoxy can soften which dramatically reduces strength or otherwise can cause the tube to bow or warp. Note that black objects are the best absorbers of IR radiation (heat)
- Epoxy resins are UV light degraded. Although our epoxy resins have UV light protection, excessive UV light has the effect of turning the exposed epoxy resin into a chalky layer. Therefore it is recommended to keep your mast as much as possible out of the UV light. It is best to cover it when not rigged.

7. ONE-DESIGN INTEGRITY MAINTENANCE LOG

PROOF OF MAINTENANCE

Proper certification of maintenance will avoid problems covered by warranty, or damage by lack of maintenance. Perform all recommended maintenance to ensure that your boat is kept in good condition.

Repair Date	Repair category	details of repair done	Name and address of servicing retailer
			stamp
			stamp
			·
			stamp
			stamp
			stamp
			stamp
			stamp ₁

8. ODCO ISO APPLICABLE STANDARDS

Essential requirem ents (reference to relevant articles in Annex IA & IC of the Directive)	Standards	Other normative document/ methods	∃li1lsɔindɔəT	Please specify in more detail (*: Mandatory Standards)
General requirements (2)				SOUR EXPLORA COLLE
Craft Identification Number – CIN (2.1) Builder's Plate (2.2)	3 🗵			EN ISO 10087 2006 EN ISO 14945 C5-8/1/2005
Protection from falling overboard and means of reboarding (2.3)				ENISO 15085 2003/C261/12
Visibility from the main steering position (2.4)				ENISO 11591 2002/C59/06
Owner's manual (2.5)				ENISO 10240 2005/05/03
Integrity and structural requirements (3)				
Structure (3.1)	\boxtimes	\boxtimes		EN ISO 12215-1 2001/C138/06, EMPIRICAL DATA, RSG
Stability and freeboard (3.2)	\boxtimes			ENISO 12217-2 01/10/2002
Buoyancy and floatation (3.3)	\boxtimes			ENISO 12217-2 01/10/2002
Openings in hull, deck and superstructure (3.4)	\boxtimes			ENISO 12216 2002/12/19
Flooding (3.5)	\boxtimes			ENISO 12216 2002/12/19
Manufacturer's maximum recommended load (3.6)				EN ISO 14946 2002/C59/06
Liferaft stowage (3.7)				
Escape (3.8)				EN ISO 12216 2002/12/19, EN ISO 09094 2003/C163/02
Anchoring, mooring and towing (3.9)	\boxtimes			EN ISO 15084 2003/C118/09
Handling characteristics (4)				ENISO 10592 2001/C138/05
Engines and engine spaces (5.1)				
Inboard engine (5.1.1)				
Ventilation (5.1.2)				
Exposed parts (5.1.3)				
Outboard engine starting (5.1.4)				
Fuel system (5.2)				
General – fuel system (5.2.1)				
Fuel tanks (52.2)				
Electrical systems (5.3)				
Steering systems (5.4)				EN 28848 2001/C138/05, EN ISO 10592 2001/C138/05
General – steering system (5.4.1)				EN ISO 10592 2001/C138/05 - Tiller
Emergency arrangements (5.4.2)	\boxtimes			EN ISO 10592 2001/C138/05, RSG
Gas systems (5.5)				
Fire protection (5.6)				
General – fire protection (5.8.1)				
Fire-fighting equipment (5.8.2)				
Navigation lights (5.7)				72 COLREGS, pr EN ISO 16180 DIS
Discharge prevention (5.8)				
Annex I.B – Exhaust Emissions	see	the	Dec	see the Declaration of Conformity of the engine manufacturer
Annex I.C – Noise Emissions				
Noise emission levels (I.C.1)				
Owner's manual (I.C.2)			tc	
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