

Amendment One

Updates to index and cover page

Amendment Two

C.1.2 LIMITATIONS

Amend to add:

(c) Starting in 2019 a team racing a **boat** with original World Sailing/ISAF plaque number lower than (Older) 336 shall not be allowed to compete at Olympic games or in a Gold Fleet at a Class World Championship, excluding Junior World Championships.
Any team qualifying for gold fleet at a Class World Championship in one of these **boats** will be assigned to the silver fleet and scored as a silver fleet competitor.

Amendment Three

C.6 BOAT

To delete:

~~The following is permitted without the approval of the NS. Unless stated otherwise items mentioned in the section may be obtained from any manufacturer or supplier.~~

Amendment Four

C.6.1 MODIFICATIONS

To add:

The following items may be obtained from any manufacturer or supplier unless stated otherwise.

- (a) The use of the following items is in general unrestricted, except that such items shall not be used in such a way as to create a fitting or extend a function of a permitted fitting:

To add:

- (vii) Fasteners may be replaced or added if the function of the fitting or part is not altered and where required to facilitate a repair the fitting may be modified to accommodate slightly larger fixings.

Amendment Five

C.6.1 MODIFICATIONS

To move and re-number accordingly the following items from C.6.2 MAINTENANCE to C.6.1 MODIFICATIONS

- ~~(b)~~ (d) Any cleat including integrated fairlead may be replaced with a cleat of any material and substantially of the same size and design.
- ~~(e)~~ (e) Any block on the boat may be replaced with a block of the same number of sheaves with a sheave diameter tolerance as listed in appendix section H. With exception for the following:
 - (1) The mainsheet system number of sheaves may be altered to achieve a maximum purchase of 12:1 and a minimum purchase of 10:1, only one ratchet block is allowed in the mainsheet system.
 - (2) The block on the jib track car may have a double sheave block or single sheave block to create a 2:1 purchase, as listed in appendix section I.
 - (3) The four supplied blocks for the Gennaker sheets, maybe changed to any type of block with a minimum sheave diameter of 38mm and a maximum of 60mm.
- ~~(f)~~ (f) Any attachment of blocks may be replaced. Attachments for blocks shall be of substantially the same size and design as the original.

Amendment Six

C.6.3 REPAIR

To delete:

- ~~(a) Maintenance may be carried out provided that the essential shape, characteristics and function of the original component are not affected.~~
- ~~(b) Fasteners may be replaced or added if the function of the fitting or part is not altered and where required to facilitate a repair the fitting maybe modified to accommodate slightly larger fixings.~~
- ~~(e) Localized repairs to damaged hulls, mast, daggerboards, rudder vertical, rudder horizontal may be undertaken. Any repair shall not be used to reinforce an existing part or add a function. Before any repair is attempted, the International Class Technical Committee, or if at an event the Event Measurer, shall be advised and approval sought to undertake the repair.~~

Amend to read:

- (a) All repairs require written approval. Approval may only be granted by the IN17CA Technical Committee. (measurement@nacra17.org.)
- (b) Permission to undertake a repair during an event may be granted by the event Technical Committee. The required written approval by the IN17CA Technical Committee may be granted after the event.
- (c) Repairs shall not be used to reinforce an existing part and shall not alter the essential shape, characteristics and function of the original equipment.

Amendment Seven

C.6.4 WEIGHT

Amend to read:

The weight of the **boat** in dry condition shall be a minimum of 163 kg. The weight of the boat shall be taken including: **hulls**, the fully assembled platform, **hull appendages**, **rig** including **spars**, **spreaders**, **rigging**, and **fittings** except those not permanently fixed, and excluding the tiller extension, **sails** and all **portable equipment** listed in C.5.1. The compass bracket shall be included if permanently fixed.

Amendment Eight

C.6.5 CORRECTOR WEIGHTS

Amend to read:

- (a) When the **boat** weight is less than the minimum requirement, **Corrector weights** of lead shall be permanently fastened to the inside of the dolphin Striker (V Bar) at locations avoiding the intersection of the front cross beam and the dolphin stricker rod. The location must allow to apply event limitation marks and allow visual inspections.
- (b) **Corrector weights** shall not be tampered with or removed during the course of the regatta without the express permission of the event Technical Committee.
- (c) The total weight of **corrector weights** shall not exceed 4kg for boats with original World Sailing / ISAF plaque number 336 or higher (newer) and shall not exceed 7 kg for boats older (lower) than 336. The weight of materials used to fasten the **corrector weights** shall not be included in the **corrector weights** calculation.

Amendment Nine

C.7 HULL

To delete:

~~The following is permitted without the approval of the NS. Unless stated otherwise items mentioned in the section may be obtained from any manufacturer or supplier.~~

Amendment Ten

C.7.1 MODIFICATIONS

To add:

The following items may be obtained from any manufacturer or supplier unless stated otherwise.

- (a) Additional non-skid tape may be applied to:

To add:

- (iv) the front cross beam

Amendment Eleven

C.7.2 MAINTENANCE

Amend to read:

- (a) The watertight integrity of the **hull** shall be maintained. Filling and blending of small voids (chips and gouges) of ~20mm x 20mm may be carried without approval.

Amendment Twelve

C.7.3 REPAIR

- (a) In the event of damage to any part of the **hull**:

To delete:

- ~~(i) before any repair is attempted, email measurement@nacra17.org, the International Class Technical Committee, or if at an event, the event measurer, shall be advised and approval sought to undertake the repair.~~
- ~~(ii) Necessary repairs may be made provided repairs are made in such a way that the essential shape and function is not materially affected, it does not reinforce an existing part or add a function.~~
- ~~(iii) Areas of damage repair may be filled, sanded and polished over.~~

Amend to read:

- (i) Repairs to **hulls** require written approval of the IN17CA Technical Committee

Amendment Thirteen

C.7.4 LIMITATIONS

Amend to read:

- (a) Only one starboard **hull** and one port **hull** shall be used in an event, except when lost or damaged beyond repair. Any replacement shall only be made with the approval of the Race Committee or event Technical Committee.

Amendment Fourteen

C.8 HULL APPENDAGES

To delete:

~~The following is permitted without the approval of the NS. Unless stated otherwise items mentioned in the section may be obtained from any manufacturer or supplier.~~

Amendment Fifteen

C.8.1 MAINTENANCE

Amend to read:

- (a) The outermost surfaces of the **daggerboards** and **rudders** may be sanded, polished and cleaned with normal concentrations and quantities of detergents or similar materials. for the purpose of maintenance
The essential shape, characteristics and function of the original component shall not be affected.

The approved products for refinishing are:

PPG D8115 Deltron Progress Matt Clearcoat

PPG D8302 Deltron Progress UHS Hardener

PPG D8718 Deltron Medium Thinner

The use of any equivalent products requires pre-approval before refinishing from the IN17CA Technical Committee.

- (b) Filling and blending of small voids (chips and gouges) of ~10mmx10mm may be carried without approval.
- (c) The rope handle of the **daggerboard**, may be replaced by a rope obtained from any manufacturer or supplier with a maximum length of 600 mm.
- (d) Small quantities of friction-reducing compounds (E.g. McLube or Teflon) may be applied only to the surfaces prior to racing, and solely for the purpose of reducing bearing friction while raising and lowering the hull appendages.
- (e) Two bolt head voids created by joining the **rudder** to the elevator may be filled and faired.
- (f) A void found between the **rudder** and the elevator may be filled and faired.
- (g) The tiller extension may be replaced without any restrictions as to design and material.

Amendment Sixteen

C.8.2 REPAIR

To delete:

- ~~(a) Repairs to chips in the leading and trailing edges of blades may be filled and blended in.~~

~~— Advisory note: nowhere is re-finishing, fairing of the **hull appendage** surfaces permitted except to facilitate localised repair in this rule. Painting is not mentioned therefore as these are **closed class rule** it is prohibited.~~

To add:

- (a) In the event of damage to any part of a **hull appendage**:
- (i) Repairs to **hull appendages** require written approval of the IN17CA Technical Committee

Amendment Seventeen

C.8 HULL APPENDAGES

To add:

C.8.4 MODIFICATIONS

The following items may be obtained from any manufacturer or supplier unless stated otherwise.

- (a) The rudder pin (part number 40146) may be packed with washers.
- (b) Rudder guides (rudder stock washer trailing edge: part number 324545) may be replaced with any part as long as it is disk shaped, can roll, and has a diameter of less than 30mm.
- (c) The rudder clamps (quick release bicycle style clamp) may be replaced with other clamps. The replacement shall be manually removable on the water without requiring tools, have no protrusions in the vertical or forward direction, and add no function.

Amendment Eighteen

C.9 ~~BEAMS~~ ASSEMBLED PLATFORM

To delete:

~~The following is permitted without the approval of the NS. Unless stated otherwise items mentioned in the section may be obtained from any manufacturer or supplier.~~

Amendment Nineteen

C.9.1 MODIFICATIONS

To add:

The following items may be obtained from any manufacturer or supplier unless stated otherwise.

Amendment Twenty

C.9.1 MODIFICATIONS

To move and re-number accordingly the following item from C.9.2 MAINTENANCE AND REPAIR to C.9.1 MODIFICATIONS

- ~~(e)~~ (f) Any cleat or fittings may be replaced with a fitting of same type in the same position as the standard fitting and substantially of the same size and design.
- ~~(d)~~ (g) Any running block may be replaced with a block of the same number of sheaves with a sheave diameter tolerance as listed in appendix section I.

To add:

- (h) The two webbing straps sewn into the trampoline, approximately 30mm long that run parallel with the beams forward of the center of the trampoline, may be removed from the trampoline. They may be cut out and removed without removing the sewing, to avoid weakening or creating a puncture in the trampoline.

Amendment Twenty-one

C.9.3 FITTINGS DIMENSIONS

Amend to read:

- (a) Front Cross Beam curvature

	Minimum	Maximum
Front cross beam curvature		15mm

Front cross beam curvature is the greatest distance between:

- the highest point of the underside of the front cross beam, and;
- a straight line from the port and starboard bottom points of the cross beam at the intersection with the **hull** taken at 90° to the straight line with the dolphin-striker tensioned and platform assembled, the mast removed, and the front and rear cross beams bedded and tightened into their respective **hulls**.

Amendment Twenty-two

C.10 RIG

To delete:

~~The following is permitted without the approval of the NS. Unless stated otherwise items mentioned in the section may be obtained from any manufacturer or supplier.~~

Amendment Twenty-three

C.10.1 MODIFICATIONS

To add:

The following items may be obtained from any manufacturer or supplier unless stated otherwise.

Amendment Twenty-four

C.10.2 MAINTENANCE AND REPAIR

- ~~(a) Routine maintenance such as cleaning, polishing and the replacement of broken fittings is permitted.~~

Amend to read:

- (a) Cleaning, polishing and the replacement of broken fittings is permitted

Amendment Twenty-five

C.10 RIG

Amend to add:

C.10.3 REPAIR

- (a) in the event of damage to a **RIG**:
- (i) Repairs to **spars**, **spreaders**, and **standing rigging** require written approval of the IN17CA Technical Committee.
 - (ii) Repairs to **running rigging** may be carried out without approval.

Amendment Twenty-six

C.10.4 FITTINGS

To add:

- (4) Mechanical wind indicators may be used.

Amendment Twenty-seven

C.10.5 LIMITATIONS

Amend to read:

- (a) Only one set of **spars** and **standing rigging** shall be used during an event, except when an item has been lost or damaged beyond repair. Any replacement shall only be made with the approval of the Race Committee or event Technical Committee.

Amendment Twenty-eight

C.10 RIG

To delete:

~~C.10.5 DIMENSIONS~~

- ~~(a) The **forestay** length is controlled by laying the **forestay**, including the chainplate or turnbuckle (C.10.7(a)(2)), along the forward face of the **mast**~~

~~section and measuring the maximum extension possible of the **forestay** with the chainplate or turnbuckle. This distance shall be taken between the lower trimming line of the **mast** section and the bearing surface of the forestay pin and shall be a minimum of 295 mm.~~

Amendment Twenty-nine

C.10.6 STANDING RIGGING

(a) MODIFICATION, MAINTENANCE AND REPAIR.

To add:

The following items may be obtained from any manufacturer or supplier unless stated otherwise.

Amend to delete table and read:

- (1) **Standing rigging** may be replaced and shall comply with Appendix I
- (2) The stay adjusters of the **forestay** and **shrouds** may be replaced by a turnbuckle of the following manufactures:
 - Sta/Master PAT. 8,281,080
 - Ronstan Calibrated Turnbuckles RF1575
 - NavTec Quickfit lifeline Turnbuckle 316
 - Blue Wave Spanner (Mono race tuning – MRT- Calibrated AISI 316.
 - C.S. Johnson 12-100 Stay Adjuster – Calibrated.

The IN17CA Technical Committee may approve the use of turnbuckle products from other manufacturers.

- (3) The **shrouds** and **forestay** terminal wire connectors shall be a fitting from any manufacturer in the same position as the standard fitting and substantially of the same size, weight and structural design.
- (4) The ring of the Jib Halyard Locking system shall be in the same position as on the standard forestay, of the same size and structural design, with the exception; the ring of the locking system may be fitted to the forestay by rope.

Amend to add:

- (5) Carbon tubes or other similar cylindrical covers of up to 20 cm in length may be used to cover shroud turnbuckles and chainplates.

Amendment Thirty

C.10.6 STANDING RIGGING

Amend to add:

(b) DIMENSIONS

(i) Forestay Control

The minimum distance measured along the foreside of the mast from the bottom cut of the carbon mast assembled and seated into the mast base to the forestay pin center location when the forestay and forestay fitting are both fully extended to a maximum range shall be 295mm.

Amend to read:

(c) USE

(1) **Standing rigging** shall not be adjusted while *racing*.

Amendment Thirty-one

C.10 RIG

Amend to delete:

~~C.10.5 DIMENSIONS~~

~~(a) The **forestay** length is controlled by laying the **forestay**, including the chainplate or turnbuckle (C.10.7(a)(2)), along the forward face of the **mast** section and measuring the maximum extension possible of the **forestay** with the chainplate or turnbuckle. This distance shall be taken between the lower trimming line of the **mast** section and the bearing surface of the forestay pin and shall be a minimum of 295 mm.~~

~~C.10.6 FITTINGS~~

~~———(a) Optional mechanical wind indicators~~

Amendment Thirty-two

Section H: MANUFACTURED PART LIST

Ammend to read:

1	Rear Cross Beam	Required	No	Nacra Licensed suppliers only
1	Traveler track car HK2765			Harken licensed suppliers only
1	harken swivel base HK639NP			Harken licensed suppliers only
4	harken 29mm bullet sheave H160			Harken licensed suppliers only
2	chickenwire shockcord blocks			16 mm sheave ± 4 mm diam. sheave

Ammend to read:

1	Mast		Required	Yes	Nacra Licensed suppliers only
2		Cunningham sheave micro HK277			±3mm diam. sheave
1		Cunningham single HK348			±3mm diam. sheave
2		Cunningham Pivoting H395 or Spinlock PXR0206/VP			±3mm diam. sheave
1		Spi Halyard Pivoting H2156			Harken licensed suppliers only
2		clamcleat cunningham CL211			
1		Mast rotation cam-matic HK469			
1		Eye-strap 16mm single HK442			±3mm diam. sheave

Ammend to read:

2	Ruddersystem	none	no	Nacra Licensed suppliers only
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Amendment Thirty-three

Section I: RIGGING LIST

Ammend to read:

Bowsprit bridle	2	1475	2.5	Standard 1 x 19 stainless steel wire	diam. ±0.1 mm, length ± 5 mm
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