

# Columbia River Ranger Fleet Class Rules

Effective 1 April 2022

## **1 Purpose**

- 1.1 These rules govern one-design races in which the Columbia River Ranger 20 (CRR20) Fleet participates.
- 1.2 The purpose of these rules is to promote fair, competitive and affordable one-design racing in Ranger 20s, while maintaining the boat's original character as much as practicable. Any official interpretation of these rules under Section 8 shall be consistent with this purpose.
- 1.3 Any boat that has been altered or modified with respect to hull, keel, rudder, ballast, standing or running rigging, interior configuration or otherwise in a manner contrary to these Rules shall be ineligible to compete in one-design races in the CRR20 Fleet participates.

## **2 Hull, Rudder, and Centerboard**

- 2.1 Only hulls, rudders and centerboards built by Ranger Fiberglass Boats (RFB), Kent Washington, or its licensee Utah Ranger (NDH), for the Ranger 20 shall be used in a race, except damaged or lost rudders and centerboards may be replaced. The minimum weight of the hull shall be 1500 pounds, including the hull, centerboard, rudder, tiller, permanently installed equipment, mast, boom, and all rigging, but not including sails, spinnaker pole, whisker pole, cushions, and other loose equipment.
- 2.2 Replacements for damaged or lost rudders and centerboards shall be similar in materials, dimensions and section thickness to the rudder and centerboard originally supplied by RFB. The centerboard weight shall not exceed 30 pounds dry.
- 2.3 Hull penetrations may be made for knot meter, depth meter, pump discharge, and other through-hull fittings. These openings may be plugged or taped over for racing.

## **3 Spars and Standing Rigging**

- 3.1 Mast: The mast shall be non-rotating. It shall be a non-tapering extrusion of aluminum with basic dimensions of 2.72 inches x 3.92 inches. The length of the mast shall be 25 feet, 0 inches  $\pm$  1/4", excluding the top and bottom fitting. A replacement mast must conform substantially with the original mast provided by RFB.
- 3.2 Boom: The boom shall be a constant cross section aluminum extrusion with basic oval cross section dimensions of 2.75 inches x 1.75 inches. Length, as measured from the mast, shall be a minimum of 8 feet, 3

- inches. A replacement boom must conform substantially with the original boom provided by RFB.
- 3.3 Spreaders may be shortened from the original length of 2 feet, 6.25 inches  $\pm$  ¼ inch mast to shroud to a minimum length of 2 feet, 4.25  $\pm$  ¼ inch.
  - 3.4 For safety reasons, the base of the lower shrouds must be re-located approximately 10 inches aft of the upper shroud base.
  - 3.5 Maximum spinnaker pole length is 9 feet, four inches.
  - 3.6 A telescoping or non-telescoping whisker pole may be used with a headsail (jib or genoa) during a race, but may not exceed 9 feet, four inches in length, and must remain attached to the mast when in use.
  - 3.7 Turnbuckles, forestays and backstays shall not be adjusted during a one-design race.
  - 3.8 A spinnaker track may be installed on the mast, but no fitting shall be used that projects the spinnaker pole further outboard or further forward than when used with the standard fitting as originally supplied by RFB.

#### **4 Running Rigging**

- 4.1 The mainsheet shall be led from the midship traveler.
- 4.2 The headsail (jib or genoa) shall be led through a block or fairlead car attached to the stock sheet lead track or a separate sheet lead track located so that a non-overlapping headsail can be sheeted inside the shrouds. The block or fairlead shall lead the sheet within three inches of the centerline of the sheet lead track.
- 4.3 Only three halyards shall be used for one-design racing: a headsail halyard, a spinnaker halyard, and a main halyard. A topping lift for the boom is permitted. If additional halyards are added they may not be used for one-design racing. The main and headsail halyards may be internal to the mast.
- 4.4 Barber haulers, floating leads, twings, boom preventer and similar devices are permitted.
- 4.5 Boom vang, cunningham, foreguy, reef lines, outhauls, and other control lines may be modified. However, if a boat has an adjustable backstay, the backstay shall not be adjusted during a one-design race.
- 4.6 Split backstays, running backstays and babystays are prohibited.
- 4.7 Hydraulic tensioning or adjusting devices are prohibited.

#### **5 Sails**

- 5.1 Any sail used in one-design racing under these rules that is acquired after April 1, 2022, the date these rules became effective, shall conform to the specifications set out in this section. A sail that was in the inventory of a boat as of April 1, 2022 may be used in one-design racing after that date irrespective of conformance to this section. Upon purchasing a new sail, a corresponding old sail that is oversize shall not be used for one design racing.

- 5.2 All new mainsails and headsails (jibs and genoas) shall be made of Dacron. The spinnaker shall be made of nylon.
- 5.3 Insignia and Numbers: Mainsails shall be marked with the Ranger 20 Class Insignia design. Sail numbers shall be located between the middle two battens. Sail numbers on headsails are optional.
- 5.4 Each sloop is limited to one suit of sails. A suit of sails consists of up to two headsails, one mainsail, and one spinnaker. Sails that are lost or damaged may be replaced. The same suit of class sails shall be used during a race, race series or regatta. Additional sails may be carried, but such extra sails shall not be available for use as spares or as alternative sails during a race, race series or regatta.

#### 5.5 Mainsail

- 5.5.1 Luff – The sail shall be set between contrasting bands on the mast 22 feet, 6 inches apart (see plan for location). The luff may be bolt rope or slugs.
- 5.5.2 Foot – The sail shall be set between the aft face of the mast and a contrasting band on the boom located 8 feet aft of the aft face of the mast. The foot can have bolt rope, slugs, or be loose-footed.
- 5.5.3 Leech – The leech of the sail shall not exceed 23 feet 11 inches, as measured in a straight line from extreme clew to top forward corner of the head board excluding any foot bolt rope.
- 5.5.4 The headboard shall not exceed 4.62 inches measured perpendicular to the luff rope, excluding luff rope.
- 5.5.5 The tack of the mainsail must be attached to the gooseneck fitting. Cunningham holes are allowed.
- 5.5.6 Reef systems and placement of reef points are optional.
- 5.5.7 There must be four (4) battens, of any length, spaced approximately equally along the leech.
- 5.5.8 The mid girth shall not exceed 5 feet 0 inches. The mid girth measurement shall be taken by folding the top forward corner of the headboard down to the projected corner of the clew and marking the center leech. From this point measure to the closest point on the luff, excluding the bolt rope. The measurement between these two points is the mid girth.
- 5.5.9 A window may be placed in the sail providing it is not placed within 6 inches of any edge and does not exceed three square feet.
- 5.5.10 Leech lines are allowed.
- 5.5.11 Cloth shall be of a woven material with no laminate, with a weight not less than 4.5 oz. per sailmakers yard.

#### 5.6 Headsails (Jib and Genoa)<sup>1</sup>

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<sup>1</sup> Under amendments effective April 13, 2011, jibs and genoas share a single set of maximum measurements, with no clear dividing line between a large jib and a small genoa. Traditionally, a jib is a

- 5.6.1 Luff – Shall not exceed 23 feet measured to extreme edges of sail.
- 5.6.2 Leech – Shall not exceed 22 feet, 3 inches measured to extreme edges of sail.
- 5.6.3 Foot – Shall not exceed 13 feet, 10 inches measured to extreme edges of sail.
- 5.6.4 No battens or headboards are permitted.
- 5.6.5 Maximum head width is 2 and ¼ inches. Head width is measured at the very top of the sail head, on a line perpendicular to the luff, including the bolt rope.
- 5.6.6 A window may be placed in the sail providing it is not placed within 6 inches of any edge and does not exceed three square feet. Telltale windows are permitted.
- 5.6.7 Leech and foot lines are allowed.
- 5.6.8 Foot Roach shall be measured from a straight line between tack and clew and shall not exceed 6 inches.
- 5.6.9 Cloth shall be of a woven material with no laminate, and weight shall not be less than 4.5 oz. per sailmakers yard for a headsail less than 115 square feet in size, and 3.5 oz. per sailmakers yard for a headsail greater than 115 square feet in size.

## 5.7 Spinnakers

- 5.7.1 Luff – Shall not exceed 23 feet 9 inches measured to extreme edges of sail.
- 5.7.2 Maximum girth shall not exceed 15 feet, 8 inches to extreme edges of cloth.
- 5.7.3 Foot roach shall be measured from a straight line between clews and shall not exceed 12 inches.
- 5.7.4 Cloth weight shall not be less than 1 ounce per sailmakers yard.

## 5.8 Principal Dimensions: I = 23.3'; J = 8.6', P=22.5', E=8.0'

### 5.8 Measurement procedure

- 5.8.1 All sail measurements shall be taken with the sail laid on a flat hard surface, with sufficient tension to remove all wrinkles from the sail fabric.
- 5.8.2 All cloth weight specifications are in accordance with American Bureau of Standards sailcloth yard that measures 28 and one-half inches wide and 36 inches long.

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smaller headsail extending up to 110 percent of the J dimension, and a genoa is a larger headsail extending between 110 percent and 150 percent of the J dimension. The traditional 110 percent jib for the Ranger 20 is about 100 square feet in size, and the traditional 150 percent genoa is about 148 square feet in size.

## **6 Interior**

- 6.1 The interior may be modified in any way, except that no modification or set of modifications can result in a net reduction in weight or increase in strength or stiffness.
- 6.2 No fixed or moveable ballast shall be carried during a one-design race.

## **7 Equipment on Board**

- 7.1 It is recommended but not required that equipment on board comply with US Sailing Monohull Nearshore Safety Equipment Requirements (<https://www.ussailing.org/wp-content/uploads/2022/01/Monohull-SER-2022.0-Nearshore.pdf>).
- 7.2 For races governed by these rules, minimum required equipment includes:
  - 7.2.1 All equipment required by the U.S. Coast Guard for a 20-foot sailboat, including sound device (horn), flares, fire extinguisher, lifejackets, etc.
  - 7.2.2 Anchor, minimum 4 pounds in weight, with at least 100 feet of line.
  - 7.2.3 Outboard motor, 3.5 hp minimum, mounted on the transom. In the alternative, a boat may carry at least 35 pounds of weight secured in the lazarette.
  - 7.2.4 One paddle (two recommended).
  - 7.2.5 First aid kit
  - 7.2.6 Heaving line, floating, 50 feet minimum
- 7.3 The following equipment is recommended, but not required, for races governed by these rules, unless supplemental race instructions state otherwise.
  - 7.3.1 Functioning navigation lights, with battery.
  - 7.3.2 Lifelines.
  - 7.3.3 Lifesling or similar crew-overboard recovery system.
  - 7.3.4 Compass

## **8. Class Rule Interpretations and Protests**

- 8.1 When a Protest Committee acting under World Sailing Rules refers a question of Class Rules to the CRR20 Fleet, the Fleet Captain or the Race Captain, if the Fleet Captain is unavailable, shall convene a committee of at least three people to rule on the issue. The committee members need not be members of the CRR20 Fleet, but in no case shall they be interested parties to the protest as defined under World Sailing Rules.

- 8.2 This committee shall conduct a hearing or perform measurements at its discretion.
- 8.3 Decisions and rulings made by this committee shall become amendments to these rules and are binding on the entire fleet, unless and until they are modified or revoked by majority vote at a regular CCR20 Fleet meeting.
- 8.4 Administrative protests or requests for interpretation of these rules not arising from any specific race may be submitted to the Fleet Captain in writing by any fleet member, who shall then proceed as in rule 8 above.

## **9 Fleet Administration**

- 9.1 Adoption, amendment or revocation of these rules, and the election of fleet officers, is accomplished by simple majority vote of the fleet electors who vote at a fleet meeting called by the Fleet Captain.
- 9.2 Fleet electors consist of the owners of Ranger 20 boats who have participated or intend to participate in CRR20 racing and cruising events, and who provide contact information to the Race Captain.
- 9.3 Each fleet elector has one vote, which may be given by proxy. Votes may be cast in person at a fleet meeting, or communicated to the Fleet Captain by phone, letter, e-mail, or similar means, at or before the meeting at which the vote occurs.
- 9.4 For purposes of adopting or amending these rules, a meeting may consist of an e-mail vote initiated by the Fleet Captain, in which electors have at least seven days to comment and submit their votes.
- 9.5 Fleet officers consist of Fleet Captain, Race Captain, and Cruising Captain, elected by the fleet electors for one-year terms, renewable, at the end-of-season fleet meeting or other meeting called by the Fleet Captain.