

APPENDIX E

RADIO-CONTROLLED BOAT RACING RULES

Radio-controlled competition ~~Races for radio-controlled boats shall be sailed under~~ The Racing Rules of Sailing as changed by this appendix. *The term 'boat' used in this appendix and elsewhere in the racing rules means a boat that is radio-controlled by a competitor who is not on board. 'Race' used as a noun outside this appendix and outside Appendix A means 'heat'. In this appendix, a race consists of one or more heats and is completed when the last heat in the race is finished. An 'event' consists of one or more races.*

E1 ~~TERMINOLOGY, RACE SIGNALS, DEFINITIONS AND FUNDAMENTAL RULES~~

~~E1.1 Terminology~~

~~'Boat' means a boat that is radio-controlled by a competitor who is not on board. For 'race' used as a noun outside this appendix and outside Appendix A read 'heat'. In this appendix, a race consists of one or more heats and is completed when the last heat in the race is finished. An 'event' consists of one or more races.~~

~~E1.2 Race Signals~~

E1.1 Race Signals

The section Race Signals is deleted. All signals shall be made orally or by other sounds described in this appendix or the sailing instructions.

~~E1.3 Definitions~~

E1.2 Definitions

- (a) Add to the definition *Interested Party*: ‘but not a competitor when acting as an observer’.
- (b) In the definition *Zone* the distance is changed to four hull lengths.
- (c) **In the definition *Racing* the following is inserted after *racing* 'during a heat in which she is sailing'.**

~~E1.4 Personal Flotation Devices~~

E1.3 Personal Flotation Devices

Rule 1.2 is changed to ‘When on board a rescue boat, each competitor ~~is responsible for wearing~~ **shall wear** a personal flotation device adequate for the conditions.’

~~E1.5 Aerials~~

E1.4 Aerials

~~Transmitter aerial extremities shall be adequately protected. When a protest committee finds that a competitor has broken this rule it shall either warn him and give him time to comply or penalize him.~~

If the transmitter aerial is longer than, or capable of extension beyond, 200 mm the extremity shall be adequately protected at all times.

E2 PART 2 WHEN BOATS MEET

Rule 22 is changed to

22 CAPSIZED OR ENTANGLED

If possible, a boat shall avoid a boat that is capsized or entangled, or has not regained control after capsizing or entanglement. A boat is capsized when her masthead is in the water. Two or more boats are entangled when lying together for a period of time so that no boat is capable of manoeuvring **independently**. ~~to break free of the other(s).~~

E3 PART 3 CONDUCT OF A RACE

E3.1 Changes to the Sailing Instructions

Rule 90.2(c) is deleted and replaced with:

(c) Changes to the sailing instructions shall be in writing and posted on the official notice board or made orally at a competitors meeting.

E3.2 Areas Ashore

A launching area, a control area and other areas ashore may, or may not, be specified by the sailing instructions.

~~**E3.1 Races with Observers**~~

E3.3 Races with Observers

The race committee may appoint ~~race~~ observers, who may be competitors. **While boats are racing, they** ~~They~~ shall remain in the control area, **when one is in use, while boats are racing** and they shall hail ~~and repeat~~ the identity of boats that contact a *mark* or another boat **and repeat the hail as appropriate.** ~~Such hails shall be made from the control area.~~ Observers shall report all unresolved incidents **and non-compliance with rule 28.1** to the race committee at the end of the heat.

~~**E3.2 Course Board**~~

E3.4 Course Board

Rule J2.1(4) is deleted. A course board showing the course and the limits of ~~any the control area and launching area(s)~~ **launching, control, prohibited, permitted and special purpose areas** shall be located **near the starting line, and** next to or within the control area **when one is in use,** with information clearly visible to competitors **before the starting signals and for reference** while *racing*.

~~E3.3 Control and Launching Areas~~

E3.5 Launching, Control and Other Shoreline Areas

~~The control and launching area(s) shall be defined by the sailing instructions. Competitors *racing* shall remain in the control area while a heat is in progress, except that competitors may briefly go to and return from the launching area to perform functions permitted in rule E4.5. Competitors not *racing* shall remain outside the control and launching areas except when offering assistance under rule E4.2 or when acting as race observers.~~

(a) Launching Area

If the sailing instructions specify a launching area, when a competitor launches his boat for a race or retrieves her after a race, he shall do so from the launching area.

(b) Control Area

If the sailing instructions specify a control area, competitors shall remain in it while *racing*. However, a competitor *racing* may leave the control area briefly to go to and return from any area, other than a prohibited area, to handle his boat, which shall then be released, relaunched or retired.

(c) Prohibited and Special Purpose Areas

If, for safety reasons, the sailing instructions specify a prohibited area, competitors shall not enter it. If the sailing instructions specify a special purpose area, competitors may enter it only for that special purpose.

(d) Permitted Areas

If the sailing instructions specify permitted areas, a competitor who is not competing in a heat may enter a permitted area to give help under one of the exceptions to rule E4.2(b).

~~E3.4 Deleted Rules~~

E3.6 Deleted Rules

The second sentence of rule 25 and all of rule 33 are deleted.

~~E3.5 Starting Races~~

E3.7 Starting Races, Starting and Finishing Lines

(a) Rule 26 is changed to

Audible signals for starting a heat shall be at one-minute intervals and shall be a warning signal, a preparatory signal and a starting signal. During the minute before the starting signal, **additional** oral signals shall be made at ten-second intervals, and during the final ten seconds at one-second intervals. Each signal shall be timed from the beginning of its sound.

(b) The starting and finishing lines shall be tangential to, and on the course side of, the starting and finishing marks.

~~E3.6 Starting Penalties~~

E3.8 Starting Penalties

In rules 29.1 and 30 the word ‘crew’ is deleted. Throughout rule 30 oral announcements shall be used instead of flag signals.

~~E3.7 Starting and Finishing Lines~~

~~The starting and finishing lines shall be tangential to, and on the course side of, the starting and finishing marks.~~

~~E3.8 Individual Recall~~

E3.9 Individual Recall

In rule 29.1 ~~replace~~ all after ‘the race committee shall promptly’ **is replaced** with ‘~~twice~~ hail “Recall (sail numbers)” **and repeat the hail as appropriate**’.

~~E3.9 General Recall~~

E3.10 General Recall

In rule 29.2 ~~replace~~ all after ‘the race committee may’ **is replaced** with ‘~~twice~~ **and repeat as appropriate** “General recall” and make two loud sounds. The ~~warning~~ **preparatory** signal for a new start ~~for the recalled class~~ shall **normally** be made shortly thereafter, ~~and the starts for any succeeding classes shall follow the new start.~~’

~~E3.10 Shortening or Abandoning after the Start~~

E3.11 Shortening or Abandoning after the Start

In rule 32.1(b) ‘foul weather’ is replaced with ‘thunderstorms’. Rule 32.1(c) is deleted.

E4 PART 4 OTHER REQUIREMENTS WHEN RACING

E4.1 Deleted Rules

Rules 43, ~~45~~, 47, 48, 49, 50, 52 and 54 are deleted.

E4.2 Outside Help

Rule 41 is changed to

- (a) A competitor shall not give tactical or strategic advice to a competitor who is *racing*.
- ~~(b) A competitor who is *racing* shall not receive outside help,~~
 - ~~except~~
 - ~~(1) a boat that has gone ashore or aground outside the launching area, or become entangled with another boat or a *mark*, may be freed and relaunched with help from a rescue boat crew;~~
 - ~~(2) competitors who are not *racing* and others may give help in the launching area as permitted by rule E4.5;~~
 - ~~(3) help in the form of information freely available to all competitors.~~

(b) A boat that is *racing* shall not receive outside help, except

- (1) a boat entangled with another boat, a *mark* or that has gone aground within a prohibited shoreline area, may be freed and re-launched with help from an official rescue boat crew.**
- (2) a boat that has gone aground on permitted shoreline areas may be cleared of entangled objects and re-launched with help from any source.**
- (3) in the form of information freely available to all boats.**

E4.3 Propulsion

Rule 42 is changed so that any reference to body movement is deleted. Rule 42.3(f) is also deleted.

~~**E4.4 Penalties for Breaking Rules of Part 2**~~

~~Throughout rule 44 the penalty shall be the One-Turn Penalty.~~

E4.4 Exoneration and Penalties for Breaking Rules of Part 2, Rules 30 and 31

(a) Throughout rule 44 the penalty shall be the One-Turn Penalty.

(b) Rule 44.1(b) is replaced with
If a boat gained a significant advantage in a heat by her breach, her penalty shall be an additional One-Turn penalty.

(c) The following is added to Rule 44.1

(c) When a boat breaks a *rule* and as a consequence compels another boat to break a *rule*, the other boat shall be exonerated.

(d) Rule 64.1(c) is deleted and replaced with

(c) When a boat has broken a *rule* and is exonerated for her breach under rule 18.5,

20.2 or 44.1, she shall not be penalized under rule 64.1(a) for that breach.

~~**E4.5 Launching and Relaunching**~~

~~Rule 45 is changed to~~

- ~~(a) A boat scheduled to *race* in a heat may be launched, held on the bank, taken ashore or relaunched at any time during the heat. However, she shall not be released between the preparatory and starting signals.~~
- ~~(b) Boats shall be launched or recovered only from within a launching area, except as provided in rule E4.2(b)(1).~~
- ~~(c) While ashore or within a launching area, boats may be adjusted, drained of water or repaired; have their sails changed or reefed; have entangled objects removed; or have radio equipment repaired or changed.~~

~~**E4.6 Person in Charge**~~

E4.5 Person in Charge

In rule 46 replace 'have on board' **is replaced** with 'be radio-controlled by'

~~**E4.7 Radio**~~

E4.6 Radio

- (a) A competitor shall not transmit radio signals that cause interference with the radio reception of other boats.
- (b) A competitor found to have broken rule E4.7(a) shall not *race* until he has proven compliance with that rule.

~~**E4.8 Boat Out of Radio Control**~~

E4.7 Boat Out of Radio Control

A competitor who loses radio control of his boat shall promptly hail and repeat '(The boat's sail number) out of control'.
Such a

boat shall be considered to have retired and shall thereafter be an obstruction.

E5 PART 5 PROTESTS, REDRESS, HEARINGS, MISCONDUCT AND APPEALS

~~**E5.1 Right to Protest; Right to Request Redress or Rule 69 Action**~~

~~Add to rule 60.1(a): ‘A *protest* alleging a breach of a rule of Part 2, 3 or 4 shall be made only by a competitor within the control or launching area and by a boat scheduled to *race* in the heat in which the incident occurred.’~~

E5.1 Right to Protest; Right to Request Redress or Rule 69 Action Allegations of Gross Misconduct

The following is added to 60.1

(c) ‘A *protest* alleging a breach of a rule of Part 2, 3 or 4 shall be made only by a boat scheduled to *race* in the heat in which the incident occurred and, if a control area is in use, only by a competitor within the control area.’

E5.2 Informing the Protestee

In rule 61.1(a) ~~replace~~ all after the first sentence **is replaced** with ‘When her *protest* concerns an incident in the racing area that she is involved in or sees, she shall ~~twice~~ hail “(Her own sail number) protest (the sail number of the other boat)” **and repeat the hail once.**’

E5.3 Protest Time Limit

~~In rule 61.3 replace ‘two hours’ with ‘15 minutes’ and add: ‘A boat intending to protest shall also inform the race committee no later than five minutes after the end of the relevant heat.’~~

(a) The following is inserted at the beginning of 61.3: ‘A boat intending to protest shall inform the race committee of her intention no later than five minutes after the end of her heat.’

(b) Throughout rule 61.3 ‘two hours’ is replaced with ‘15 minutes’.

E5.4 Accepting Responsibility

A boat that acknowledges breaking a rule of Part 2, 3 or 4 before the *protest* is found to be valid may retire from the relevant heat without further penalty.

E5.5 Redress

(a) ~~Add~~ **The following is added** to rule 62.1:

(e) **accepted external** radio interference, or

(f) an entanglement or grounding because of the action of a boat that was breaking a rule of Part 2 or of a vessel not *racing* that was required to keep clear.

(b) In rule 62.2 ~~replace~~ ‘two hours’ **is replaced** with ‘15 minutes’.

E5.6 Right to Be Present

In rule 63.3(a) ~~replace~~ ‘shall have been on board’ **is replaced** with ‘shall have been radio-controlling them’.

E5.7 Taking Evidence and Finding Facts

~~Add to~~ **The following is added at the beginning of** rule 63.6. ‘Evidence about an alleged breach of a rule of Part 2, 3 or 4 given by **a competitor** ~~competitors~~ shall be accepted only from a competitor ~~who was within the control or launching area and~~ whose boat was scheduled to *race* in the heat in which the incident occurred **and, if a control area was in use, only if the competitor was in the control area.**’

E5.8 Penalties

When a protest committee finds that a boat has broken rule E3.3, ~~E4.2(a) or E4.5,~~ **or E4.2(a)** it shall either **warn her,** disqualify her ~~from her next race~~ or **give her a lesser scoring penalty** ~~require her to make one or more penalty turns in her next race as soon as possible after starting.~~

E5.9 Decisions on Redress

~~Add~~ **The following is added to the end of** rule 64.2: 'If a boat given redress was damaged, she shall be given reasonable time, but not more than 30 minutes, to effect repairs before her next heat.'

E5.10 Reopening a Hearing

In rule 66 ~~replace~~ '24 hours' **is replaced** with 'ten minutes'.

E6 APPENDIX G IDENTIFICATION ON SAILS

Appendix G is changed as follows:

(a) The text of rule G1.1 before rule G1.1(a) is changed to

Every boat of a class administered by ~~ISAF~~ ~~Radio Controlled Sailing~~ **the International Radio Sailing Association** shall display a sail number on both sides of each sail. Class insignia and national letters shall be displayed on mainsails as stated in rules G1.1(a), G1.1(b) and E6(f)(1).

(b) Rule G1.1(c) is changed to

(1) a sail number, which shall be the last two digits of the boat registration number or the competitor's **or owner's** personal number allotted by the relevant issuing authority. A single-digit number shall be prefixed with a '0'. There shall be space in front of a sail number for the prefix '1'

(2) **Boats with sail numbers 01, 08, 10, 18, 80 and 81 shall carry a prefix '1'.**

(3) **Where there is a conflict between sail numbers in an event the race committee shall require that sail numbers be changed by applying a suitable prefix and/or altering a digit to resolve the conflict.**

(4) Any prefix or other required change shall become part of the sail number **for the event**.

(c) The sentence after rule G1.1(c) is deleted.

(d) Rule G1.2(b) is changed to

The height of characters and distance between them on the same and opposite sides of the sail shall be as follows:

	<i>Minimum</i>	<i>Maximum</i>
Class insignia:		
Except where positioned back to back, shortest distance between insignia on opposite sides of sail	20 mm	
Sail numbers:		
Height of characters	100 mm	110 mm
Shortest distance between adjoining characters on same side of sail	20 mm	30 mm
Shortest distance between sail numbers on opposite sides of sail and between sail numbers and other identification	60 mm	
National letters:		
Height of characters	60 mm	70 mm
Shortest distance between adjoining characters on same side of sail	13 mm	23 mm
Shortest distance between national letters on opposite sides of sail	40 mm	

(e) Rule G1.3 is changed to

(1) Class insignia may be positioned back to back on opposite sides of the sail where the design coincides. Otherwise class insignia, sail numbers and national letters shall be positioned at different heights, with those on the starboard side being uppermost.

- (2) On a mainsail, sail numbers shall be positioned above the national letters and below the class insignia.
 - (3) Sail numbers shall be positioned on a mainsail above the line perpendicular to the luff through the quarter leech point.
- (f) Where the size of a sail makes it impossible to comply with the minimum dimensions in rule E6(d) or the positioning requirements in rule E6(e)(3), exceptions are permitted in the following order of priority:
- (1) omission of national letters;
 - (2) position of the mainsail sail numbers lower than the line perpendicular to the luff through the quarter leech point;
 - (3) reduction of the shortest distance between sail numbers on opposite sides of the sail provided the shortest distance is not less than 20 mm;
 - (4) reduction of the height of sail numbers.